

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P253984

Luminaire Tested: **LXF.LXT-AF24-90-D-U-T2U-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253984  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-16-90°)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-AF24-90-D-U-T2U-7030  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 3000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN  
UPPER HEMISPHERE NOT REPORTED TO PROVIDE RELEVANT COMPARISON TO  
COMPETITIVE OFFERINGS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

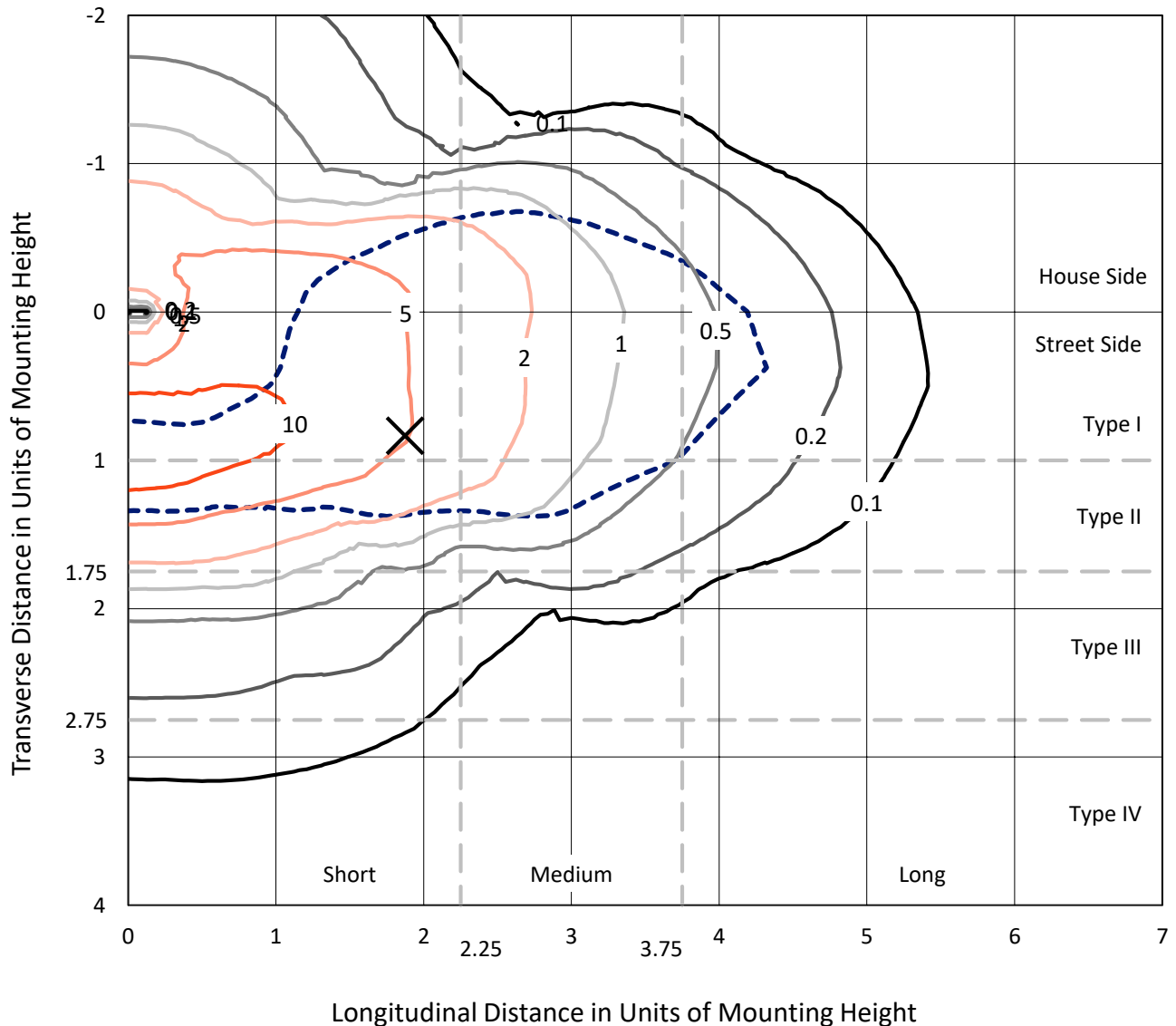
Lumens per Lamp: N/A  
Luminaire Lumens: 8418.4 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 94  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

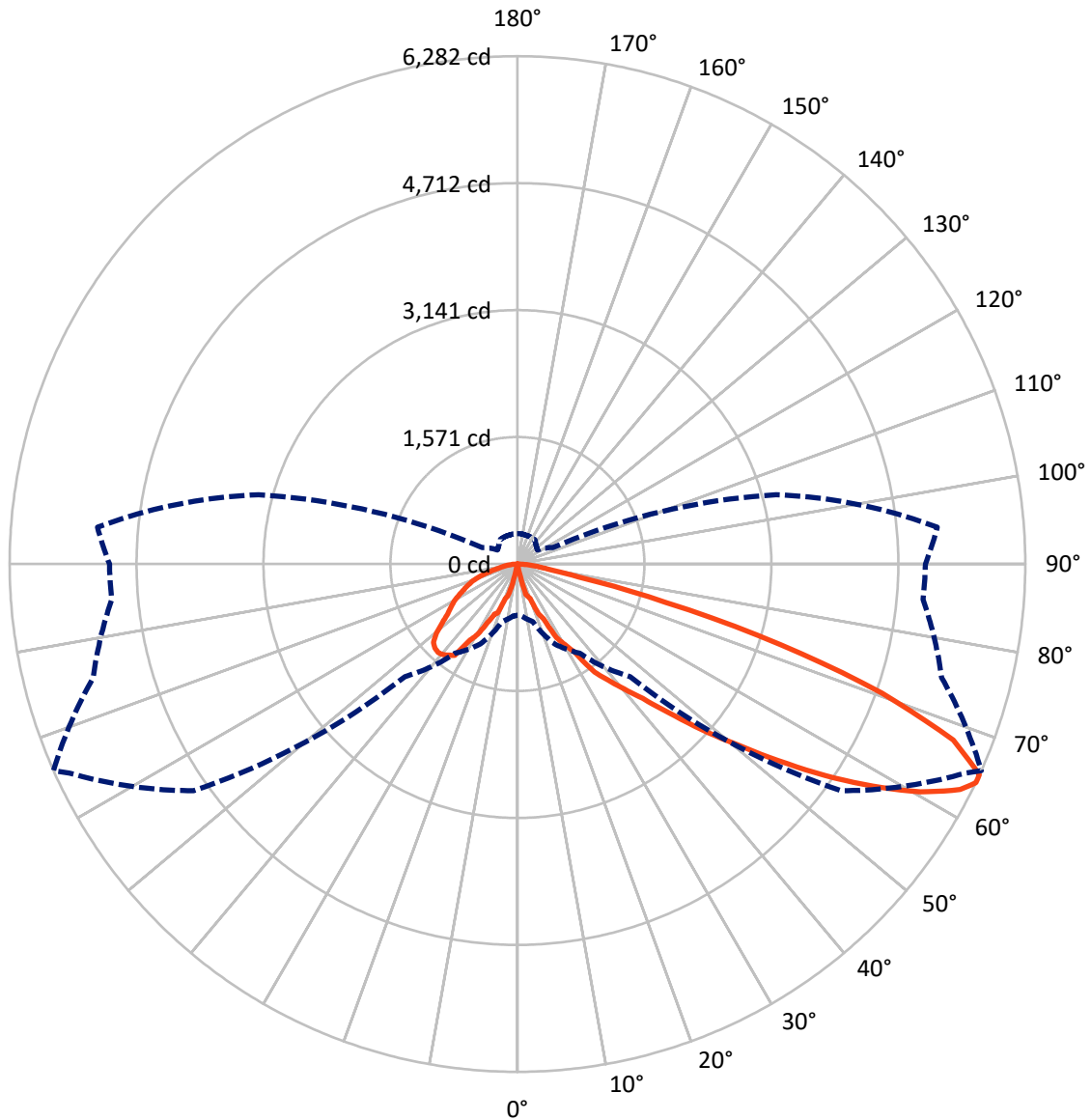
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.8 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical



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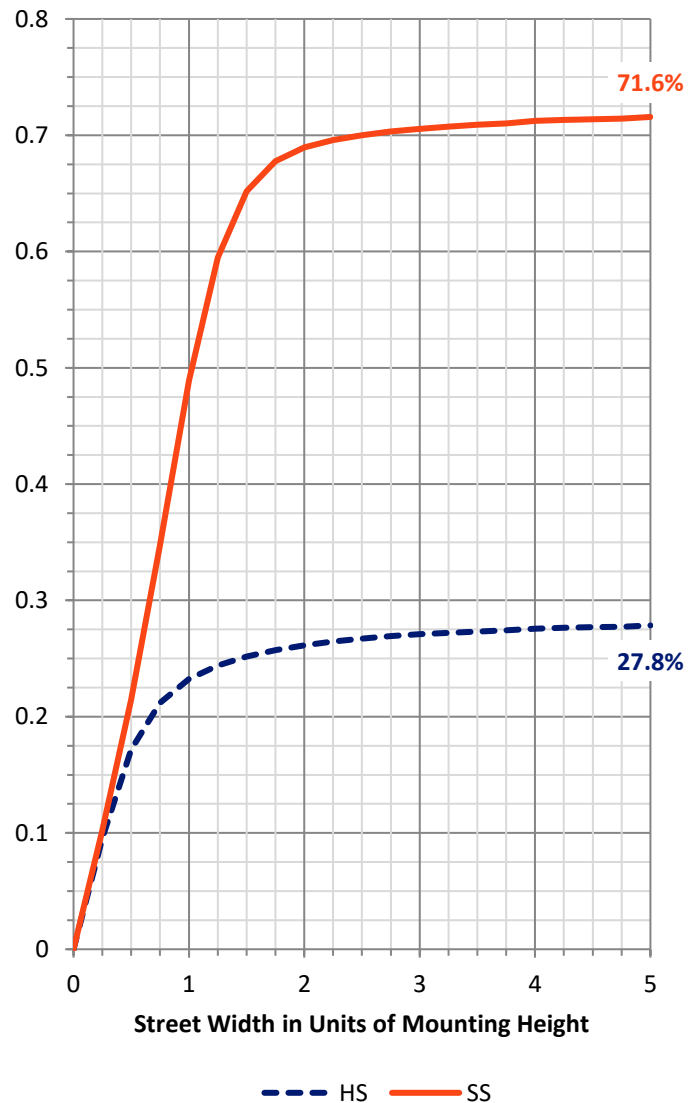
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2371.0	0.0	2371.0
	% Fixture	28.2	0.0	28.2
<b>Street Side</b>	Lumens	6047.4	0.0	6047.4
	% Fixture	71.8	0.0	71.8
<b>Total</b>	Lumens	8418.4	0.0	8418.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.3	0.1
10°-20°	92.9	1.1
20°-30°	360.7	4.3
30°-40°	892.2	10.6
40°-50°	1678.1	19.9
50°-60°	2226.3	26.4
60°-70°	2004.3	23.8
70°-80°	1023.5	12.2
80°-90°	134.2	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8418.4	100.0
0°-180°	8418.4	100.0



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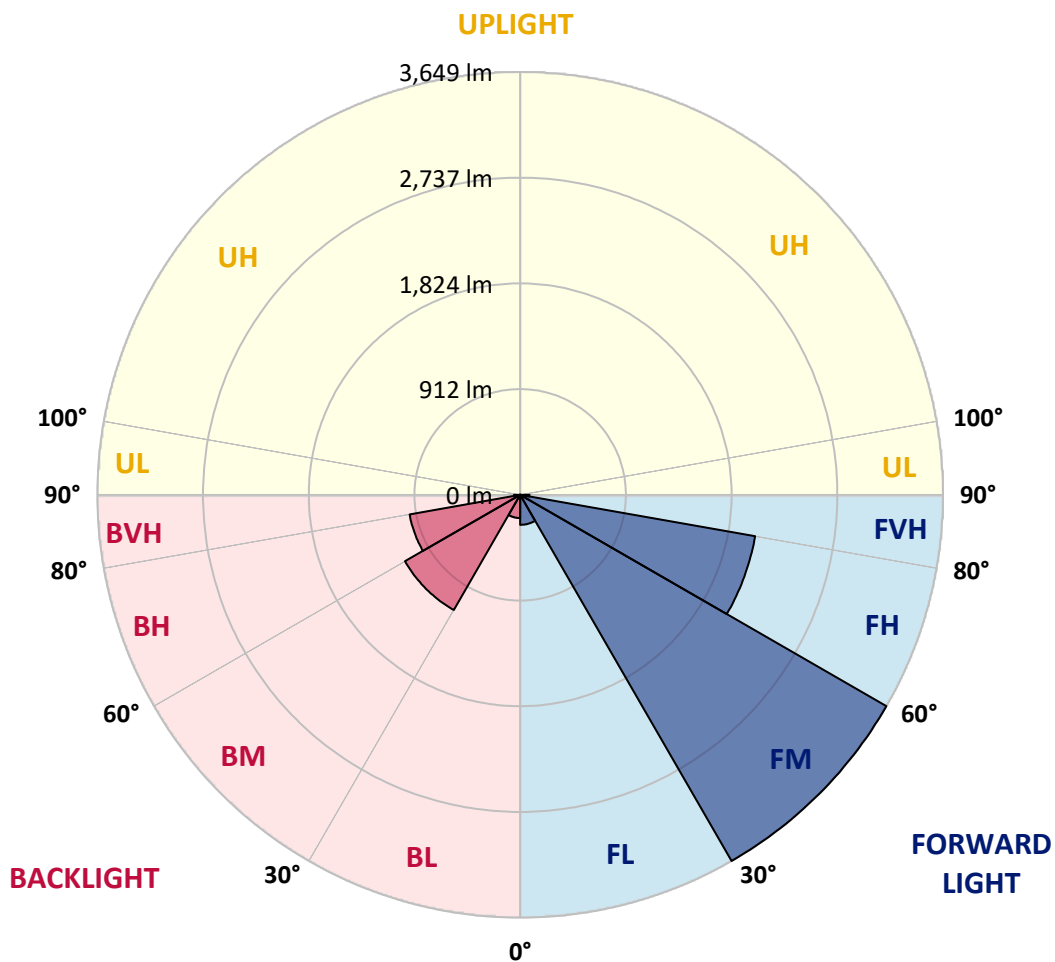
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	259.2	3.1			
FM (30°-60°)	3649.0	43.3			
FH (60°-80°)	2059.0	24.5			G2/5000
FVH (80°-90°)	80.2	1.0			G1/100
BL (0°-30°)	200.7	2.4	B1/500		
BM (30°-60°)	1147.6	13.6	B2/2500		
BH (60°-80°)	968.8	11.5	B2/1000		G2/1000
BVH (80°-90°)	54.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2.5°	3.9	2.8	3.9	4.8	4.8	3.9	2.8	1.0	1.0	0.0	0.0
5°	179.5	175.8	122.3	47.7	24.8	13.3	6.7	2.8	1.8	1.0	1.0
7.5°	187.2	187.2	187.2	189.1	185.3	179.5	30.6	6.7	5.7	1.8	1.0
10°	190.9	190.1	188.2	190.1	188.2	188.2	184.3	23.9	22.0	7.6	5.7
12.5°	359.1	357.3	345.8	223.6	195.8	195.8	196.7	160.5	161.3	51.6	132.8
15°	375.5	374.4	369.7	371.6	360.1	214.9	301.8	386.9	390.6	271.3	306.6
17.5°	417.4	410.7	395.4	390.6	385.9	440.4	422.2	421.2	421.2	316.2	333.3
20°	645.7	637.1	628.5	508.2	424.0	560.7	518.7	455.6	459.4	538.6	571.2
22.5°	742.2	735.5	722.1	694.4	724.0	604.6	634.2	663.9	667.7	703.9	649.5
25°	1010.5	1016.2	945.6	809.9	873.0	752.7	812.8	732.6	752.7	765.1	803.3
27.5°	1307.7	1287.5	1265.5	1151.9	993.3	1058.2	895.9	957.9	1032.5	1043.0	978.1
30°	1664.8	1637.1	1462.3	1449.9	1271.3	1191.0	1158.5	1175.7	1155.8	1095.6	1096.5
32.5°	2100.4	2084.1	2007.7	1772.7	1608.6	1365.8	1410.7	1288.5	1299.9	1424.0	1445.2
35°	2706.0	2678.3	2313.3	2187.3	1861.6	1752.7	1577.9	1628.5	1641.8	1618.0	1590.3
37.5°	3400.3	3375.4	3089.0	2576.0	2250.3	2000.1	1947.5	1857.7	1822.5	1827.2	1836.7
40°	3810.1	3792.8	3539.8	3111.8	2643.8	2380.2	2209.2	2086.1	2030.6	2100.4	2080.3
42.5°	4103.3	4078.4	3933.4	3515.9	3180.6	2918.0	2525.4	2363.1	2273.2	2423.2	2355.4
45°	4279.0	4241.8	4170.2	3791.0	3620.0	3527.3	2950.4	2685.8	2619.1	2731.7	2682.1
47.5°	4225.6	4164.4	4209.3	3984.9	3977.2	4066.1	3447.1	3058.3	3056.4	3096.6	3059.4
50°	3894.1	3850.2	3983.9	4008.7	4198.9	4493.0	4052.7	3477.7	3500.5	3485.4	3442.3
52.5°	3280.9	3290.5	3502.6	3706.9	4179.7	4747.1	4652.5	3971.5	4034.5	3866.4	3795.7
55°	2645.7	2678.3	2906.6	3161.5	3876.9	4808.2	5174.0	4516.9	4622.0	4237.0	4128.2
57.5°	2007.7	2051.7	2323.8	2514.9	3273.3	4597.1	5483.5	5029.8	5183.6	4590.4	4437.6
60°	1278.0	1304.8	1640.0	1960.8	2441.4	3882.6	5556.1	5552.2	5723.2	4949.6	4712.7
62.5°	827.2	842.4	984.8	1413.6	1697.4	2710.7	5319.2	5972.5	6147.3	5299.2	4948.6
64°	633.2	646.6	737.4	1090.7	1346.7	1970.5	4888.5	6116.8	6282.0	5432.0	5036.6
65°	550.1	558.8	625.6	889.3	1146.1	1545.5	4464.4	6120.6	6279.1	5470.1	5051.7
67.5°	457.5	460.4	485.2	562.5	809.9	861.5	2817.7	5665.9	5814.9	5388.0	4930.5
70°	414.5	420.2	452.8	458.5	625.6	596.0	1049.7	4662.1	4782.4	5167.3	4661.1
72.5°	357.3	364.0	405.9	440.4	484.2	472.8	531.1	3274.3	3402.3	4473.9	4354.5
75°	291.2	298.1	338.1	388.8	405.9	371.6	417.4	1682.0	1897.0	3306.7	3897.0
77.5°	231.2	237.8	269.4	305.6	365.8	284.6	333.3	644.7	770.9	2054.5	2898.8
80°	164.3	168.2	201.6	231.2	276.0	246.4	242.5	352.5	370.6	1021.0	1459.4
82.5°	101.3	104.2	134.7	154.7	184.3	246.4	173.8	242.5	248.3	428.9	447.0
85°	56.4	58.2	81.2	87.9	102.1	125.1	116.6	132.8	136.6	190.9	112.7
87.5°	6.7	8.6	19.1	21.0	19.1	21.0	21.0	19.1	20.1	17.2	9.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2.5°	1.0	1.0	1.0	1.8	1.8	1.0	0.0	0.0	0.0	0.0	0.0
5°	1.0	1.0	1.8	1.8	2.8	2.8	3.9	5.7	5.7	5.7	6.7
7.5°	1.0	1.0	1.8	2.8	3.9	9.5	47.7	165.2	186.3	193.0	193.0
10°	5.7	5.7	5.7	6.7	19.1	186.3	209.1	215.9	218.7	218.7	220.6
12.5°	146.2	146.2	78.3	30.6	174.9	217.8	222.6	227.4	230.2	233.0	236.9
15°	308.5	309.4	300.9	295.1	311.4	235.0	237.8	383.1	399.3	405.9	406.9
17.5°	335.2	333.3	335.2	426.9	449.8	351.5	392.6	419.3	422.2	423.2	423.2
20°	601.7	598.8	475.8	451.8	461.3	583.6	423.2	424.0	475.8	552.1	575.9
22.5°	645.7	639.9	605.6	660.0	605.6	596.0	537.8	555.9	573.1	571.2	570.3
25°	813.8	797.6	667.7	682.0	767.0	603.6	645.7	536.8	546.3	549.2	550.1
27.5°	1001.1	981.9	938.9	802.3	782.3	754.6	604.6	560.7	622.8	624.6	620.8
30°	1069.7	1044.0	981.9	1003.9	836.7	711.6	579.7	593.2	561.6	560.7	561.6
32.5°	1453.7	1406.9	1286.5	1087.9	883.5	643.7	571.2	529.2	564.6	574.0	574.0
35°	1590.3	1529.2	1425.1	1364.8	847.2	624.6	500.5	511.0	512.9	511.0	512.0
37.5°	1769.9	1689.7	1595.0	1390.7	873.0	543.4	477.6	473.7	511.0	517.7	520.5
40°	1979.0	1902.6	1814.8	1411.7	783.2	499.6	457.5	473.7	484.2	486.2	488.1
42.5°	2244.6	2138.5	2021.1	1408.0	666.7	479.4	453.7	453.7	466.1	462.2	462.2
45°	2547.4	2411.8	2215.0	1371.6	552.1	461.3	444.1	437.5	443.1	435.5	435.5
47.5°	2887.4	2738.4	2360.1	1315.3	486.2	445.1	435.5	414.5	427.9	426.0	426.0
50°	3247.5	3091.8	2495.8	1188.2	445.1	430.8	413.5	408.8	426.0	422.2	421.2
52.5°	3593.2	3458.6	2599.0	1015.3	409.7	417.4	405.9	404.0	419.3	415.5	414.5
55°	3924.7	3846.4	2727.8	869.1	378.2	393.6	403.0	403.0	412.7	408.8	408.8
57.5°	4247.6	4262.9	2880.7	768.8	354.3	374.4	399.3	398.2	404.0	401.2	402.1
60°	4576.1	4675.4	3033.6	674.3	335.2	352.5	391.5	389.7	392.6	391.5	392.6
62.5°	4887.5	5050.8	3218.9	553.1	314.2	335.2	379.2	381.1	380.1	383.1	383.1
64°	5047.0	5214.2	3310.5	482.4	301.8	324.7	369.7	372.5	371.6	377.3	376.3
65°	5109.1	5274.3	3343.0	440.4	294.2	318.1	363.0	366.8	365.8	372.5	369.7
67.5°	5091.9	5203.6	3303.9	363.0	274.1	299.9	344.8	351.5	348.6	358.2	351.5
70°	4911.3	4818.7	2993.3	316.2	257.9	279.8	321.9	330.5	325.7	335.2	323.9
72.5°	4573.3	4158.7	2329.6	274.1	239.8	259.8	296.1	304.8	300.9	304.8	292.3
75°	3824.4	3207.5	1363.0	237.8	215.9	232.0	265.5	274.1	270.3	261.6	257.0
77.5°	2659.2	2027.8	538.6	208.2	193.9	203.4	226.3	234.1	228.3	212.1	209.1
80°	1268.4	904.5	258.8	180.5	168.2	173.8	185.3	188.2	187.2	171.0	163.4
82.5°	388.8	296.1	178.6	145.2	136.6	134.7	146.2	142.4	140.4	128.9	101.3
85°	87.9	87.0	100.3	89.8	86.0	77.3	87.9	85.0	83.1	62.1	53.5
87.5°	2.8	5.7	4.8	12.4	13.3	10.5	17.2	18.1	13.3	5.7	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)