

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: P253988

Luminaire Tested: **LXF.LXT-AF24-40-D-U-T2U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253988  
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-AF24-40-D-U-T2U  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 4000K, 500mA 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: 4521.4 lumens  
Efficiency: N/A  
Efficacy: 113.0 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): 40  
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

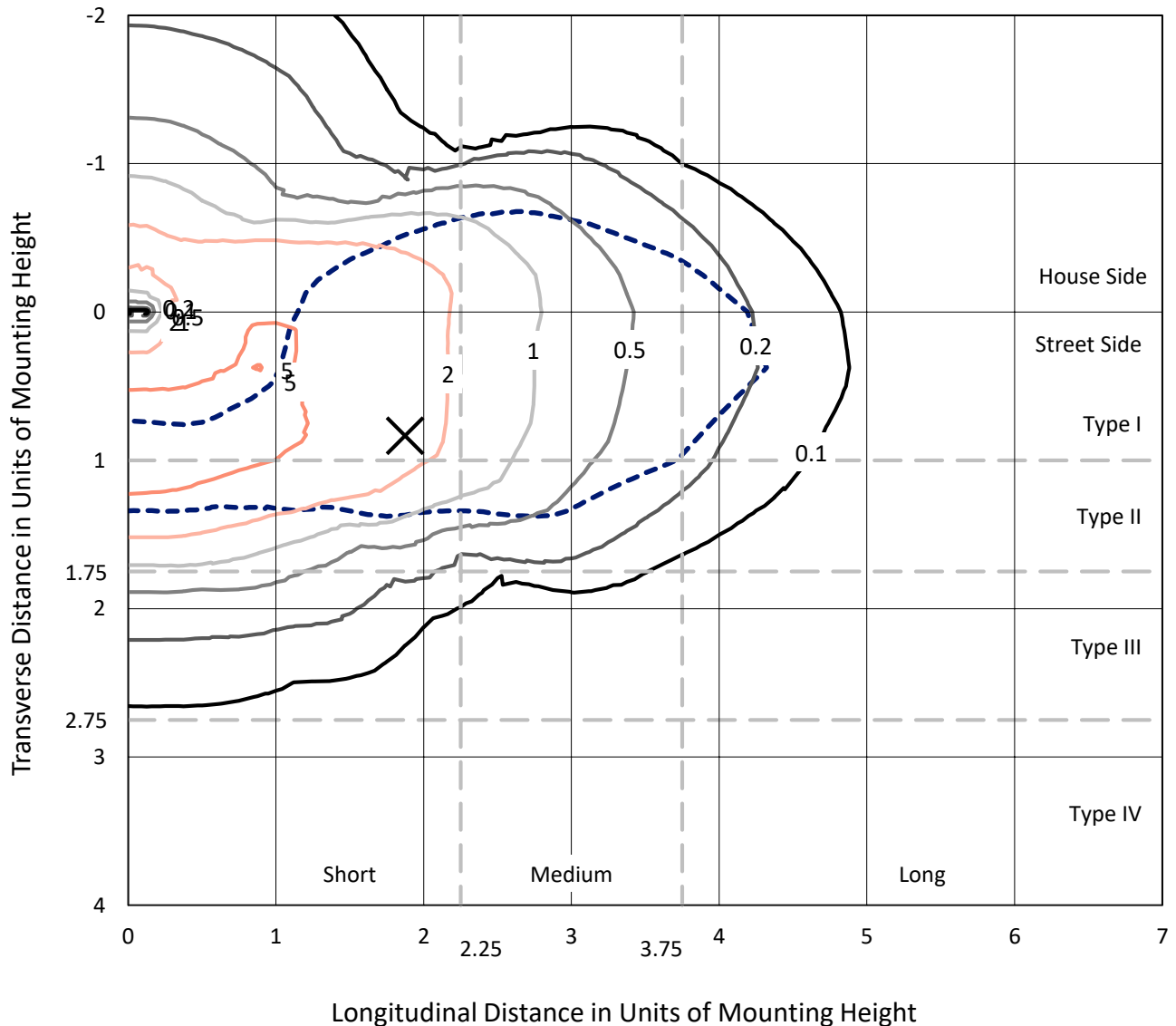


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

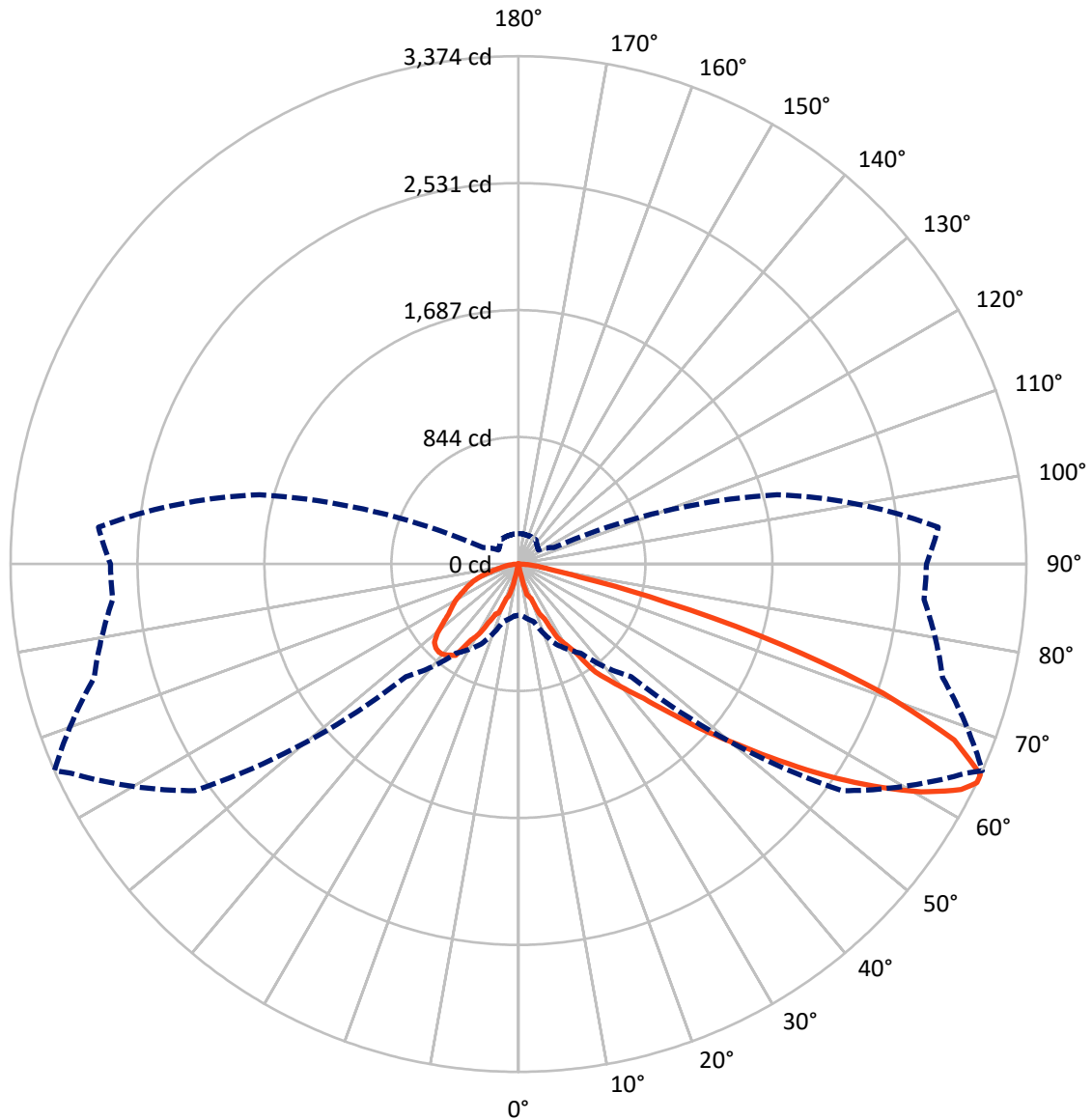


Based on 10 foot mounting height. Maximum calculated value = 9 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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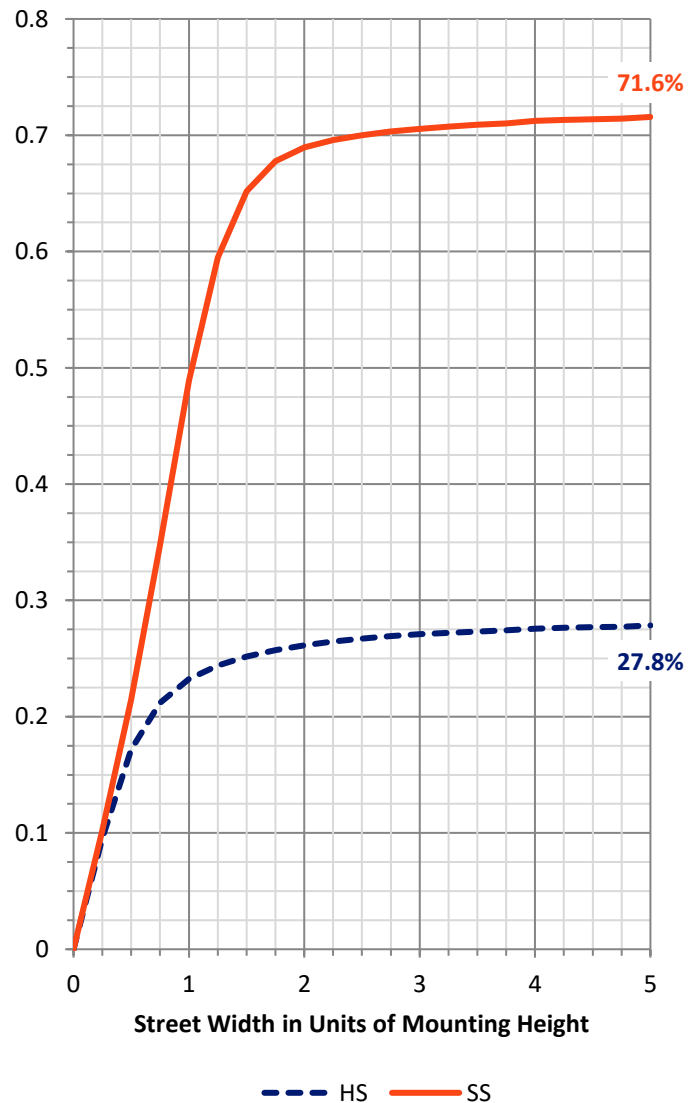
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1273.5	0.0	1273.5
	% Fixture	28.2	0.0	28.2
<b>Street Side</b>	Lumens	3248.0	0.0	3248.0
	% Fixture	71.8	0.0	71.8
<b>Total</b>	Lumens	4521.4	0.0	4521.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.4	0.1
10°-20°	49.9	1.1
20°-30°	193.7	4.3
30°-40°	479.2	10.6
40°-50°	901.3	19.9
50°-60°	1195.7	26.4
60°-70°	1076.5	23.8
70°-80°	549.7	12.2
80°-90°	72.0	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°	4521.4	100.0
0°-180°	4521.4	100.0



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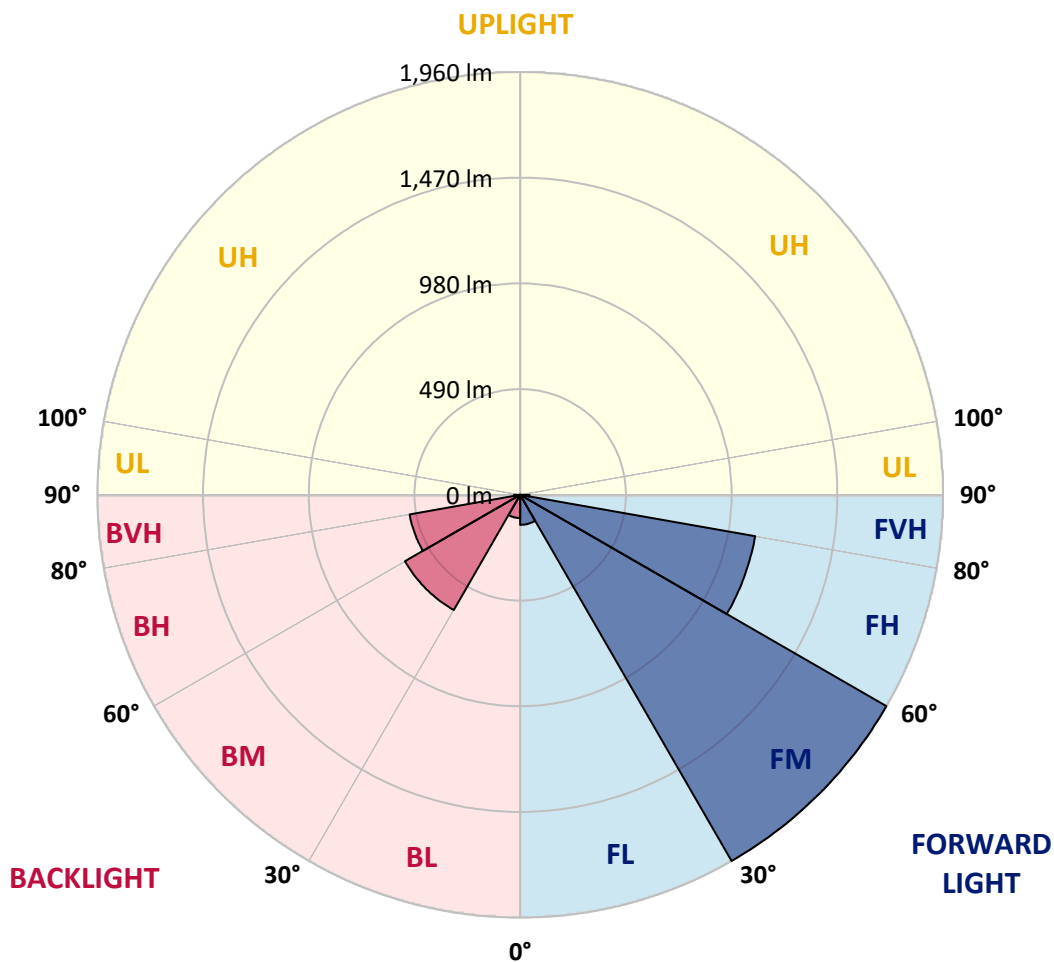
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	139.2	3.1			
FM (30°-60°)	1959.8	43.3			
FH (60°-80°)	1105.9	24.5			G1/1800
FVH (80°-90°)	43.1	1.0			G1/100
BL (0°-30°)	107.8	2.4	B0/110		
BM (30°-60°)	616.4	13.6	B1/1000		
BH (60°-80°)	520.3	11.5	B2/1000		G2/1000
BVH (80°-90°)	29.0	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°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2.5°	2.0	1.5	2.0	2.6	2.6	2.0	1.5	0.5	0.5	0.0	0.0
5°	96.5	94.4	65.7	25.7	13.3	7.2	3.6	1.5	1.0	0.5	0.5
7.5°	100.6	100.6	100.6	101.6	99.5	96.5	16.4	3.6	3.1	1.0	0.5
10°	102.6	102.1	101.1	102.1	101.1	101.1	99.0	12.8	11.8	4.1	3.1
12.5°	192.9	191.9	185.7	120.0	105.2	105.2	105.7	86.1	86.7	27.7	71.3
15°	201.6	201.1	198.6	199.6	193.4	115.4	162.1	207.8	209.8	145.7	164.7
17.5°	224.2	220.5	212.4	209.8	207.2	236.5	226.8	226.3	226.3	169.8	179.0
20°	346.8	342.2	337.6	272.9	227.8	301.2	278.5	244.7	246.7	289.3	306.8
22.5°	398.6	395.0	387.8	373.0	388.8	324.7	340.6	356.5	358.5	378.1	348.8
25°	542.8	545.8	507.9	435.1	468.9	404.3	436.6	393.4	404.3	410.9	431.5
27.5°	702.3	691.5	679.8	618.7	533.5	568.4	481.2	514.5	554.5	560.2	525.3
30°	894.2	879.2	785.4	778.8	682.8	639.8	622.3	631.5	620.7	588.4	588.9
32.5°	1128.1	1119.3	1078.3	952.2	863.9	733.6	757.7	692.0	698.2	764.9	776.2
35°	1453.3	1438.5	1242.5	1174.8	999.8	941.3	847.5	874.6	881.9	869.0	854.2
37.5°	1826.3	1813.0	1659.0	1383.5	1208.6	1074.2	1046.0	997.8	978.8	981.3	986.5
40°	2046.3	2037.1	1901.2	1671.3	1420.0	1278.4	1186.5	1120.3	1090.7	1128.1	1117.3
42.5°	2203.8	2190.5	2112.5	1888.4	1708.3	1567.2	1356.3	1269.2	1220.9	1301.5	1265.1
45°	2298.3	2278.2	2239.8	2036.1	1944.2	1894.5	1584.7	1442.6	1406.7	1467.2	1440.5
47.5°	2269.5	2236.7	2260.8	2140.2	2136.1	2183.8	1851.4	1642.7	1641.6	1663.1	1643.2
50°	2091.5	2067.9	2139.7	2153.0	2255.1	2413.1	2176.6	1867.8	1880.2	1871.9	1848.9
52.5°	1762.1	1767.2	1881.2	1991.0	2244.9	2549.6	2498.8	2133.1	2166.9	2076.6	2038.6
55°	1421.0	1438.5	1561.0	1698.0	2082.2	2582.4	2778.9	2425.9	2482.4	2275.7	2217.1
57.5°	1078.3	1101.9	1248.1	1350.7	1758.0	2469.1	2945.1	2701.4	2784.1	2465.4	2383.4
60°	686.4	700.7	880.9	1053.2	1311.2	2085.3	2984.2	2982.0	3073.9	2658.3	2531.1
62.5°	444.3	452.5	528.9	759.2	911.6	1455.9	2856.9	3207.8	3301.7	2846.2	2657.8
64°	340.1	347.3	396.0	585.8	723.3	1058.3	2625.5	3285.2	3374.0	2917.5	2705.0
65°	295.5	300.1	336.0	477.6	615.6	830.0	2397.8	3287.3	3372.5	2937.9	2713.3
67.5°	245.7	247.2	260.6	302.2	435.1	462.7	1513.4	3043.1	3123.2	2893.8	2648.1
70°	222.6	225.8	243.2	246.2	336.0	320.1	563.7	2504.0	2568.5	2775.3	2503.5
72.5°	191.9	195.5	218.0	236.5	260.1	253.9	285.2	1758.6	1827.3	2402.9	2338.8
75°	156.5	160.1	181.6	208.8	218.0	199.6	224.2	903.4	1018.9	1775.9	2093.1
77.5°	124.2	127.8	144.6	164.2	196.5	152.8	179.0	346.3	414.0	1103.5	1556.9
80°	88.3	90.3	108.2	124.2	148.2	132.4	130.3	189.2	199.1	548.4	783.9
82.5°	54.4	56.0	72.3	83.1	99.0	132.4	93.4	130.3	133.4	230.4	240.1
85°	30.3	31.3	43.6	47.2	54.9	67.2	62.6	71.3	73.3	102.6	60.6
87.5°	3.6	4.6	10.2	11.3	10.2	11.3	11.3	10.2	10.7	9.2	5.1
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°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2.5°	0.5	0.5	0.5	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0
5°	0.5	0.5	1.0	1.0	1.5	1.5	2.0	3.1	3.1	3.1	3.6
7.5°	0.5	0.5	1.0	1.5	2.0	5.1	25.7	88.8	100.0	103.6	103.6
10°	3.1	3.1	3.1	3.6	10.2	100.0	112.3	115.9	117.4	117.4	118.5
12.5°	78.5	78.5	42.0	16.4	93.9	116.9	119.5	122.1	123.7	125.2	127.3
15°	165.7	166.2	161.6	158.6	167.3	126.2	127.8	205.7	214.4	218.0	218.5
17.5°	180.0	179.0	180.0	229.3	241.6	188.7	210.8	225.3	226.8	227.3	227.3
20°	323.2	321.6	255.4	242.6	247.8	313.4	227.3	227.8	255.4	296.6	309.3
22.5°	346.8	343.7	325.2	354.5	325.2	320.1	288.8	298.6	307.8	306.8	306.3
25°	437.1	428.3	358.5	366.3	411.9	324.2	346.8	288.3	293.5	295.0	295.5
27.5°	537.7	527.3	504.3	430.9	420.1	405.3	324.7	301.2	334.5	335.5	333.5
30°	574.6	560.7	527.3	539.2	449.4	382.2	311.4	318.5	301.7	301.2	301.7
32.5°	780.8	755.7	691.0	584.3	474.5	345.8	306.8	284.2	303.2	308.3	308.3
35°	854.2	821.3	765.4	733.0	455.0	335.5	268.8	274.5	275.5	274.5	275.0
37.5°	950.6	907.5	856.7	747.0	468.9	291.8	256.5	254.4	274.5	278.0	279.6
40°	1062.9	1021.9	974.7	758.2	420.6	268.3	245.7	254.4	260.1	261.2	262.2
42.5°	1205.5	1148.6	1085.5	756.2	358.0	257.5	243.7	243.7	250.3	248.3	248.3
45°	1368.2	1295.4	1189.6	736.6	296.6	247.8	238.6	235.0	238.0	233.9	233.9
47.5°	1550.8	1470.8	1267.6	706.3	261.2	239.1	233.9	222.6	229.9	228.8	228.8
50°	1744.2	1660.6	1340.5	638.2	239.1	231.4	222.1	219.5	228.8	226.8	226.3
52.5°	1929.9	1857.6	1395.8	545.3	220.0	224.2	218.0	217.0	225.3	223.1	222.6
55°	2107.9	2065.8	1465.1	466.9	203.2	211.3	216.5	216.5	221.6	219.5	219.5
57.5°	2281.3	2289.5	1547.2	413.0	190.4	201.1	214.4	213.9	217.0	215.4	215.9
60°	2457.7	2511.1	1629.3	362.2	180.0	189.2	210.3	209.3	210.8	210.3	210.8
62.5°	2625.0	2712.8	1728.8	297.1	168.8	180.0	203.7	204.7	204.2	205.7	205.7
64°	2710.7	2800.4	1778.1	259.1	162.1	174.4	198.6	200.1	199.6	202.6	202.1
65°	2744.1	2832.8	1795.5	236.5	158.0	170.8	195.0	197.0	196.5	200.1	198.6
67.5°	2734.8	2794.8	1774.4	195.0	147.2	161.1	185.2	188.7	187.2	192.4	188.7
70°	2637.8	2588.1	1607.8	169.8	138.5	150.3	172.9	177.5	174.9	180.0	173.9
72.5°	2456.2	2233.6	1251.2	147.2	128.8	139.5	159.1	163.7	161.6	163.7	157.0
75°	2054.1	1722.6	732.0	127.8	115.9	124.7	142.6	147.2	145.2	140.6	138.0
77.5°	1428.1	1089.1	289.3	111.8	104.1	109.3	121.6	125.7	122.7	113.9	112.3
80°	681.3	485.8	139.0	97.0	90.3	93.4	99.5	101.1	100.6	91.9	87.8
82.5°	208.8	159.1	96.0	77.9	73.3	72.3	78.5	76.4	75.4	69.3	54.4
85°	47.2	46.6	53.9	48.2	46.1	41.5	47.2	45.6	44.6	33.3	28.7
87.5°	1.5	3.1	2.6	6.6	7.2	5.6	9.2	9.7	7.2	3.1	0.5
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)