

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: P254205

Luminaire Tested: **LXF.LXT-AF24-50-D-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-17-90°)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-50-D-U-T2U-HSS
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
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: 3962.9 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 54
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

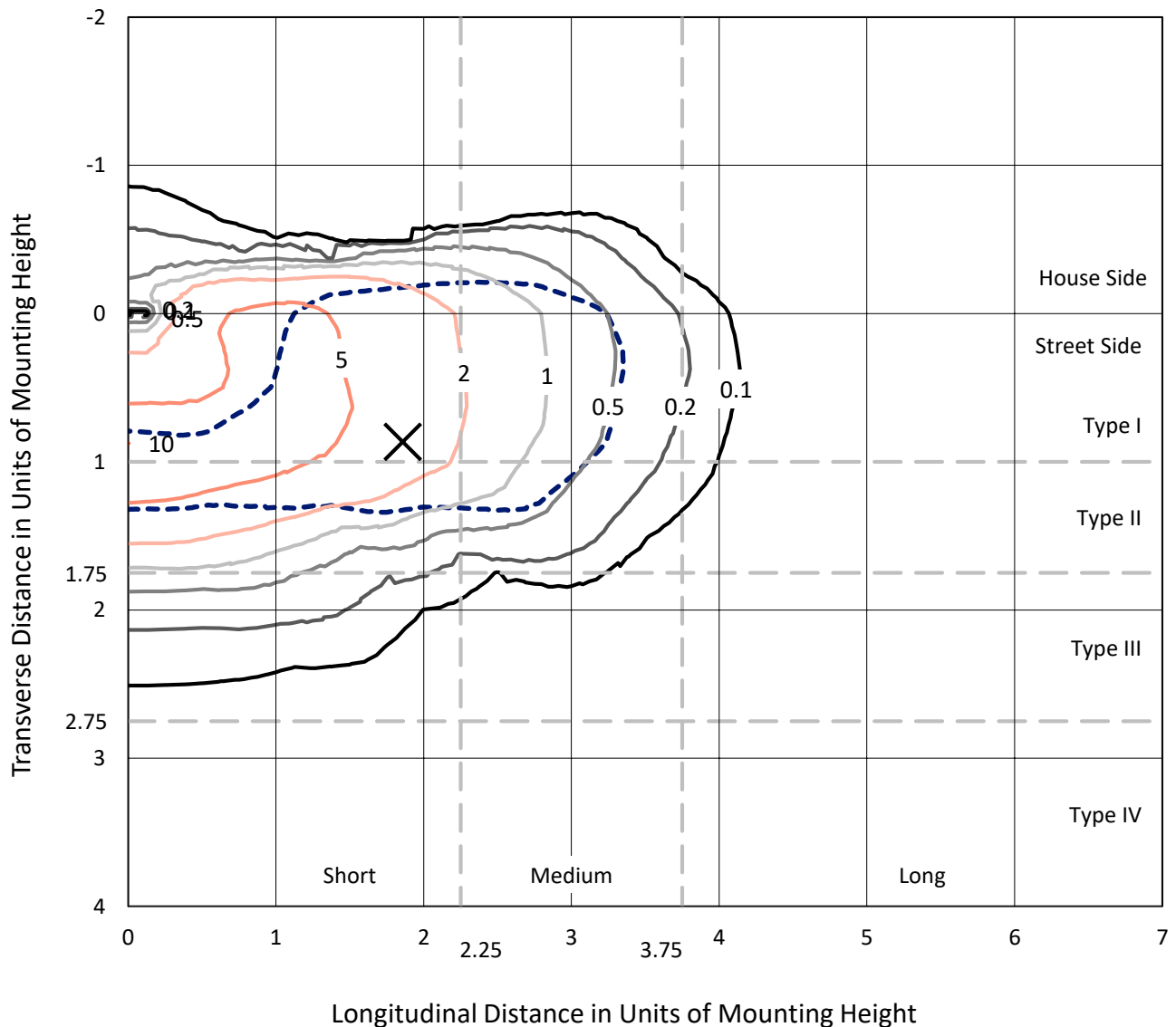


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Iso-Footcandle Lines of Horizontal Illumination

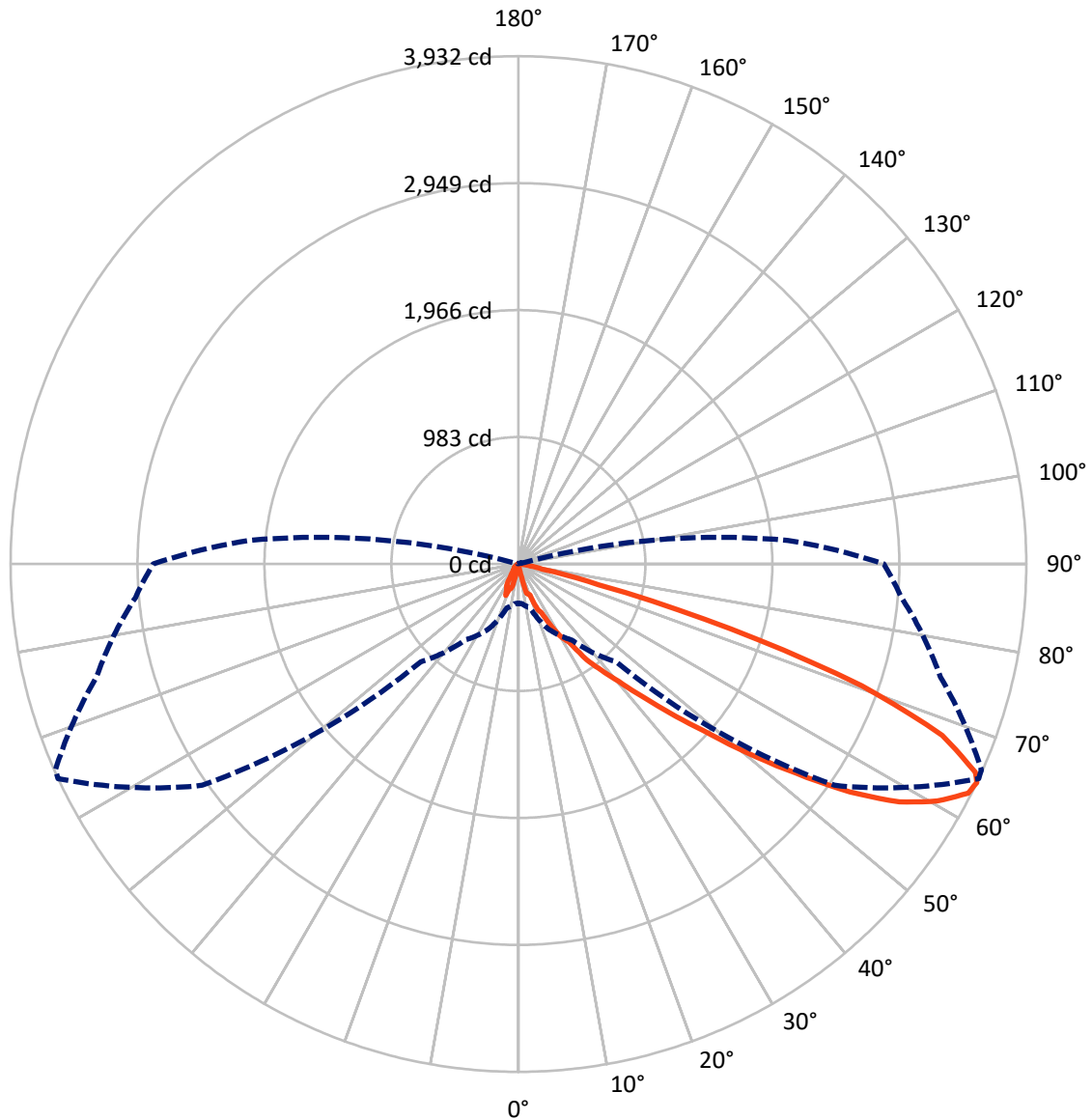
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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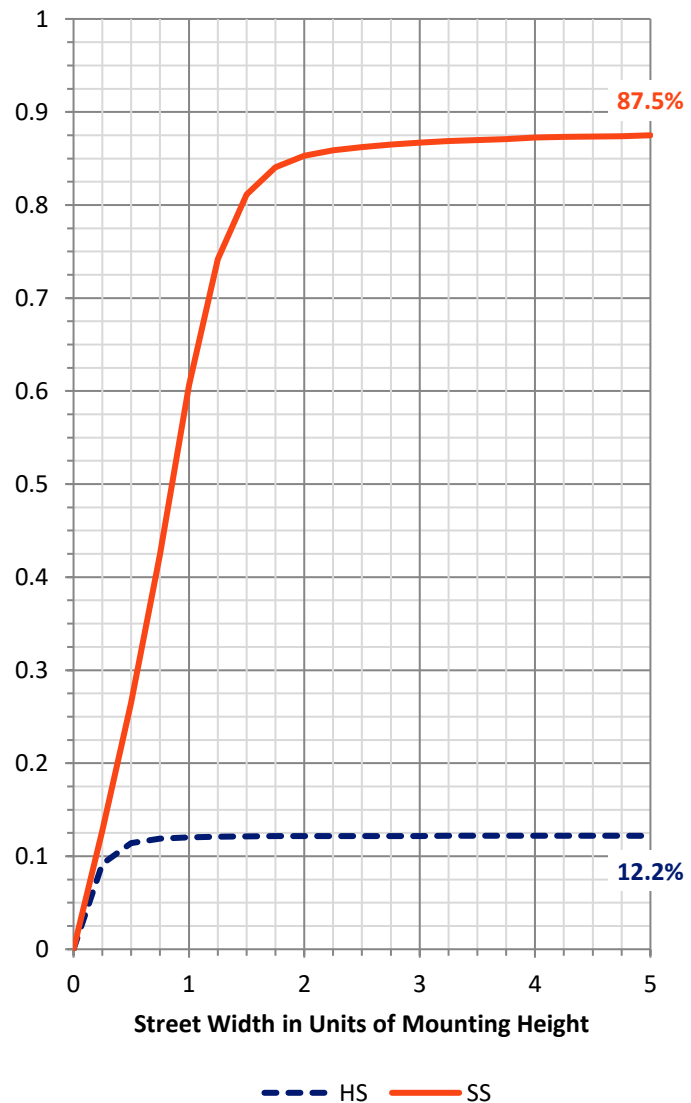
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	488.5	0.0	488.5
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	3474.4	0.0	3474.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	3962.9	0.0	3962.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.1
10°-20°	39.6	1.0
20°-30°	134.5	3.4
30°-40°	377.4	9.5
40°-50°	876.3	22.1
50°-60°	1224.8	30.9
60°-70°	966.2	24.4
70°-80°	323.6	8.2
80°-90°	17.6	0.4
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°	3962.9	100.0
0°-180°	3962.9	100.0



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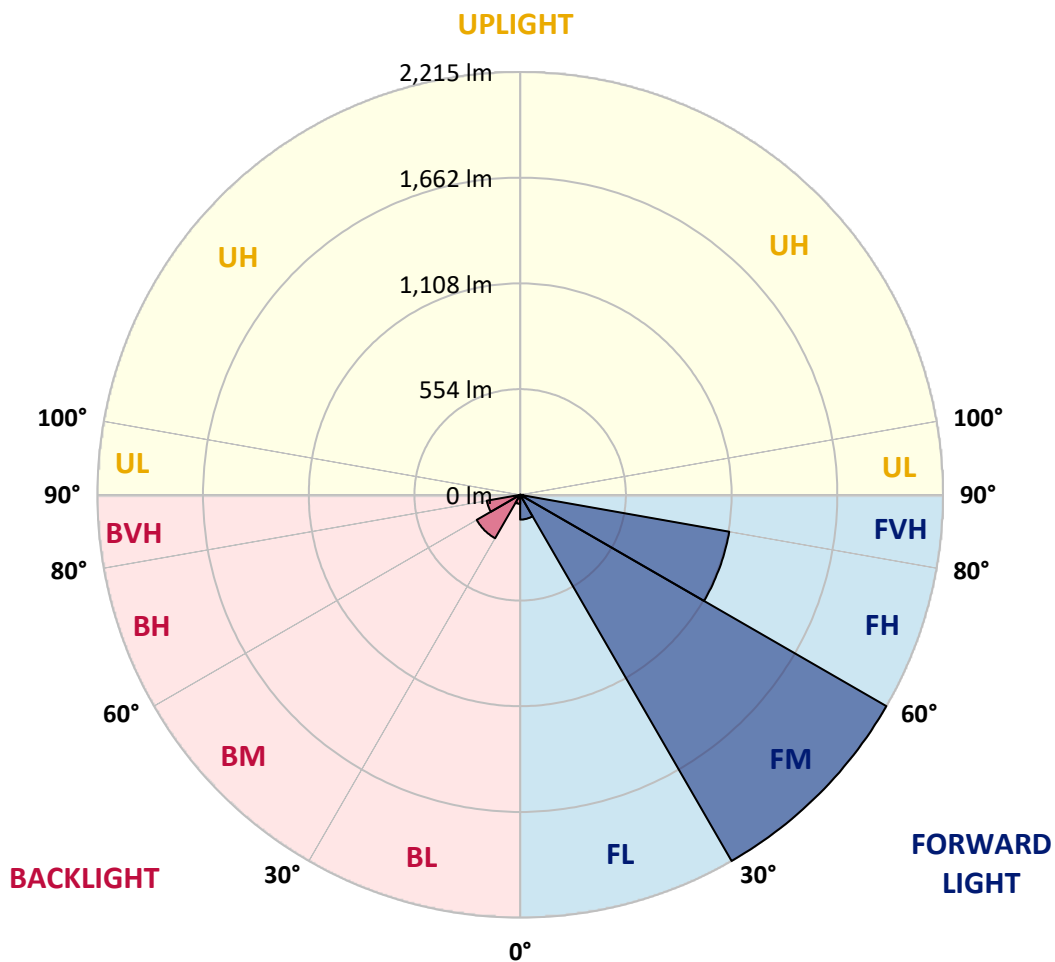
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	129.8	3.3			
FM	(30°-60°)	2215.5	55.9			
FH	(60°-80°)	1112.3	28.1			G1/1800
FVH	(80°-90°)	16.8	0.4			G1/100
BL	(0°-30°)	47.3	1.2	B0/110		
BM	(30°-60°)	263.0	6.6	B1/1000		
BH	(60°-80°)	177.4	4.5	B1/500		G1/500
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	78.1	32.4	24.4	15.2	4.6	1.3	0.6	0.0	0.0	0.0	0.0
7.5°	112.4	111.8	111.8	113.1	114.5	104.5	8.0	0.6	0.0	0.0	0.0
10°	107.2	106.5	106.5	108.5	110.5	112.4	113.1	4.0	2.7	0.0	0.0
12.5°	214.3	213.0	205.1	122.3	110.5	111.1	113.8	77.4	46.3	17.2	82.0
15°	211.0	210.4	211.0	215.6	215.6	115.1	172.0	232.2	231.5	150.8	176.7
17.5°	216.4	213.0	211.6	215.0	220.3	254.7	252.1	244.1	244.8	160.1	181.3
20°	311.6	312.2	316.9	242.1	228.2	322.1	285.8	256.7	260.6	307.6	333.4
22.5°	316.9	316.2	322.1	333.4	392.9	330.8	383.0	385.0	393.6	402.8	357.9
25°	437.9	437.3	357.9	350.7	420.1	371.1	458.5	416.8	424.0	425.3	438.6
27.5°	495.5	489.6	493.5	495.5	443.2	521.3	475.0	550.4	527.2	582.9	556.4
30°	631.2	612.6	566.9	574.2	548.4	555.7	575.5	657.6	635.8	617.9	607.9
32.5°	922.9	911.7	866.6	715.1	665.5	604.7	698.6	719.7	722.4	845.5	842.8
35°	1348.2	1268.9	1110.1	998.3	797.2	789.9	774.7	909.6	916.3	963.2	962.6
37.5°	1898.0	1882.1	1656.6	1286.8	1053.2	926.2	963.9	1043.3	1018.1	1116.7	1118.0
40°	2232.7	2217.6	2035.0	1716.1	1345.6	1164.3	1118.7	1195.4	1153.1	1323.8	1290.7
42.5°	2474.2	2458.4	2325.4	2029.0	1773.0	1567.9	1362.2	1394.6	1367.4	1520.2	1505.7
45°	2618.4	2595.9	2539.1	2287.6	2124.3	2037.6	1713.4	1642.7	1649.2	1767.0	1751.1
47.5°	2610.5	2576.1	2590.6	2437.2	2421.3	2469.6	2150.8	1924.5	1999.9	2062.7	2021.7
50°	2404.0	2376.9	2459.0	2479.5	2615.8	2810.3	2613.8	2299.6	2394.1	2354.4	2269.1
52.5°	2021.7	2027.0	2146.0	2285.0	2649.5	3045.1	3058.3	2691.9	2820.2	2618.4	2494.1
55°	1616.9	1631.4	1761.7	1929.8	2443.1	3121.8	3429.4	3114.0	3225.8	2836.0	2656.8
57.5°	1188.8	1212.0	1375.4	1518.3	2009.8	2926.0	3612.8	3476.5	3543.3	3023.3	2784.5
60°	704.5	717.1	934.2	1141.2	1456.1	2345.8	3605.5	3725.9	3748.4	3217.2	2886.4
62.5°	416.1	422.7	495.5	770.1	959.2	1538.1	3330.9	3907.8	3901.1	3340.9	2956.4
64°	303.6	308.3	353.2	559.0	717.1	1071.0	2986.9	3932.2	3924.3	3382.5	2976.3
65°	254.0	258.0	289.8	441.3	596.7	819.0	2605.1	3888.6	3883.3	3403.7	2975.0
67.5°	203.8	204.4	213.7	258.7	406.2	430.0	1508.3	3539.9	3524.1	3425.6	2926.0
70°	182.6	185.3	201.7	203.8	297.1	282.4	530.6	2819.6	2785.1	3252.2	2812.3
72.5°	144.8	148.8	175.3	199.8	214.3	211.6	242.1	1719.4	1733.3	2389.5	2357.1
75°	101.2	105.2	132.3	165.4	169.4	154.8	174.6	645.7	637.1	1180.2	1370.8
77.5°	62.8	64.9	82.7	119.1	157.4	102.5	121.7	187.2	200.5	365.8	374.4
80°	41.6	42.4	52.3	78.8	109.1	92.6	72.7	94.6	96.6	115.1	56.9
82.5°	23.1	23.8	33.0	49.6	65.5	82.0	47.0	56.9	60.3	71.4	30.4
85°	8.0	8.6	17.2	27.8	39.7	39.7	30.4	34.4	35.1	45.0	15.9
87.5°	0.0	0.0	4.0	7.3	6.6	2.7	6.6	5.3	4.6	7.3	2.7
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.6	0.0	0.0	0.0	0.0	83.4	92.0	92.6	93.9
10°	0.0	0.0	0.6	0.6	0.0	88.7	93.9	92.0	87.4	86.0	84.7
12.5°	84.7	81.3	11.3	2.7	74.8	92.6	83.4	71.4	60.3	56.9	54.2
15°	174.6	172.7	154.2	169.4	105.2	79.4	58.9	63.5	53.6	50.2	49.0
17.5°	177.3	174.6	164.7	199.2	164.1	80.7	54.2	43.7	39.7	38.4	37.7
20°	336.8	326.8	239.5	195.8	125.7	82.0	41.6	35.1	32.4	35.7	37.7
22.5°	346.7	335.4	289.1	262.6	105.2	53.6	39.7	38.4	40.3	38.4	38.4
25°	437.3	404.2	317.5	215.6	93.3	47.7	45.0	35.1	32.4	31.1	31.1
27.5°	543.1	518.0	438.6	202.4	62.8	50.2	39.1	30.4	33.8	33.8	33.8
30°	580.8	545.7	443.2	177.3	55.5	45.6	33.0	33.0	29.8	28.4	28.4
32.5°	834.2	783.3	569.0	124.4	50.2	38.4	33.0	27.8	27.1	29.2	29.2
35°	929.5	869.9	554.3	92.0	44.3	35.1	28.4	27.1	25.8	25.8	25.8
37.5°	1056.5	986.3	508.7	68.1	41.6	29.8	25.2	23.8	24.4	25.8	26.5
40°	1222.5	1137.8	471.7	56.3	35.7	25.8	22.5	23.1	23.1	23.1	23.1
42.5°	1418.3	1301.3	416.8	50.2	30.4	23.1	20.5	20.5	21.2	21.2	21.2
45°	1643.3	1479.9	340.0	44.3	26.5	19.8	18.5	18.5	18.5	17.9	18.5
47.5°	1881.4	1673.0	258.0	39.1	22.5	17.9	16.6	15.9	15.9	15.2	15.9
50°	2118.3	1853.0	188.5	33.8	19.8	15.9	13.9	13.9	13.9	13.2	13.2
52.5°	2307.5	1974.7	133.6	29.2	17.2	13.9	11.9	11.3	11.3	10.5	10.5
55°	2466.2	2047.5	97.9	24.4	15.2	11.9	9.9	9.3	9.3	8.6	9.3
57.5°	2588.7	2093.2	74.1	19.8	13.2	9.9	8.0	7.3	7.3	7.3	7.3
60°	2691.9	2108.4	56.9	16.6	11.3	8.0	6.6	5.9	5.9	5.3	5.9
62.5°	2787.7	2104.4	47.0	14.5	9.9	6.6	5.3	4.6	4.0	3.3	4.0
64°	2828.8	2093.8	42.4	12.6	9.3	5.9	4.6	4.0	3.3	1.9	2.7
65°	2846.0	2077.3	39.1	11.3	8.6	5.3	4.6	4.0	1.9	1.3	1.9
67.5°	2831.4	1991.9	30.4	9.9	6.6	4.0	3.3	2.7	0.6	0.6	1.3
70°	2669.4	1810.6	23.1	8.6	5.9	3.3	2.7	1.9	1.3	0.6	1.3
72.5°	2096.4	1301.9	17.9	6.6	4.6	1.9	2.7	1.9	1.3	0.6	0.0
75°	1124.6	488.9	13.2	5.3	4.0	1.9	1.9	1.3	0.6	0.6	0.0
77.5°	289.8	154.2	9.3	3.3	3.3	1.3	1.3	1.3	0.6	0.6	0.0
80°	45.0	21.8	4.0	2.7	1.9	0.6	1.3	0.6	0.6	1.3	0.0
82.5°	18.5	8.6	2.7	1.9	1.9	0.0	1.3	0.6	0.6	0.6	0.0
85°	4.6	3.3	1.9	1.3	1.3	0.0	0.6	0.0	0.6	0.6	0.0
87.5°	0.6	1.3	1.3	1.3	1.3	0.0	0.6	0.0	0.0	0.0	0.0
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)