

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: P253980

Luminaire Tested: **LXF.LXT-AF24-50-D-U-T2U-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253980
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-AF24-50-D-U-T2U-7030
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 670mA 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: 5513.2 lumens
Efficiency: N/A
Efficacy: 102.1 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

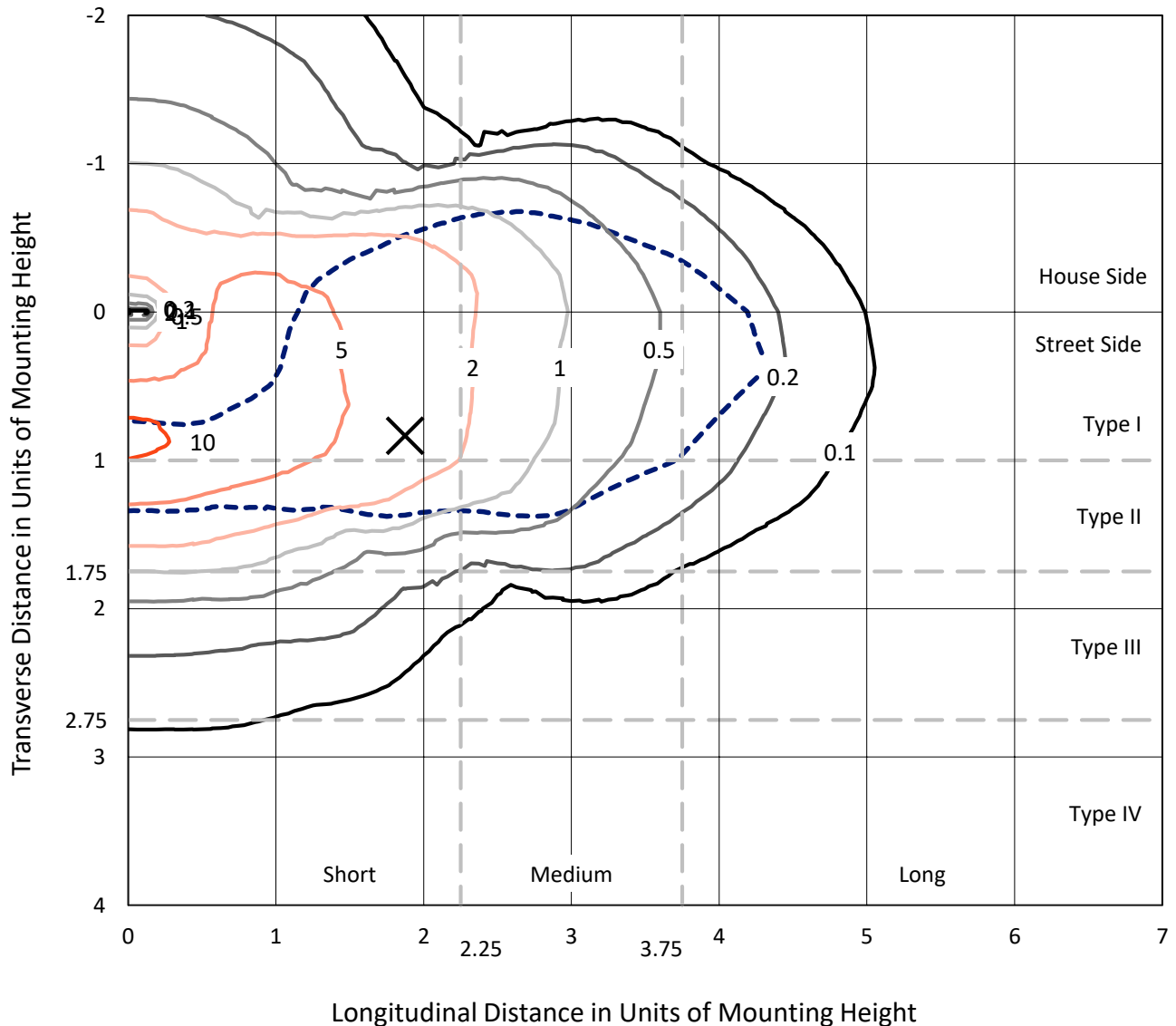
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

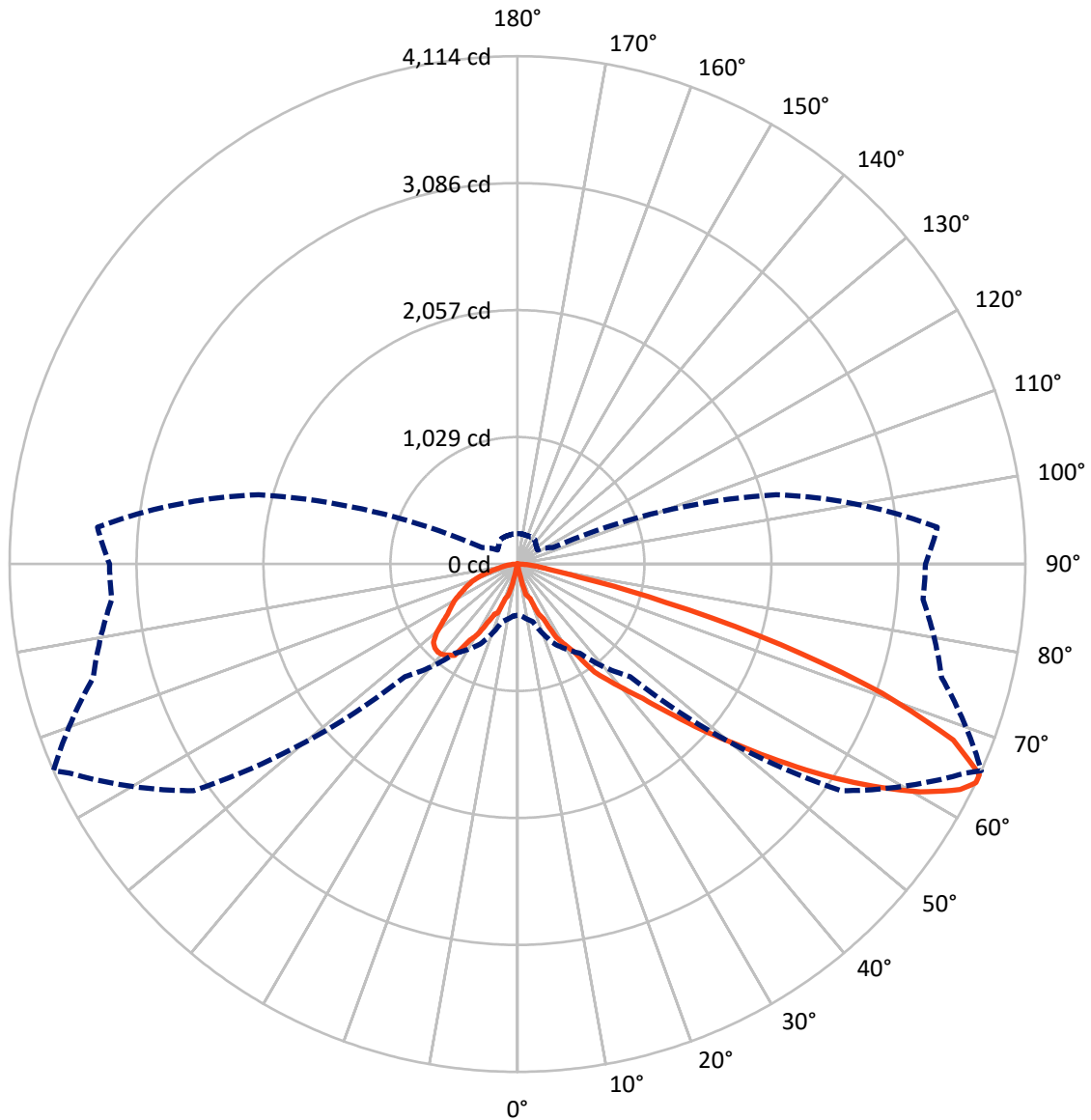
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11 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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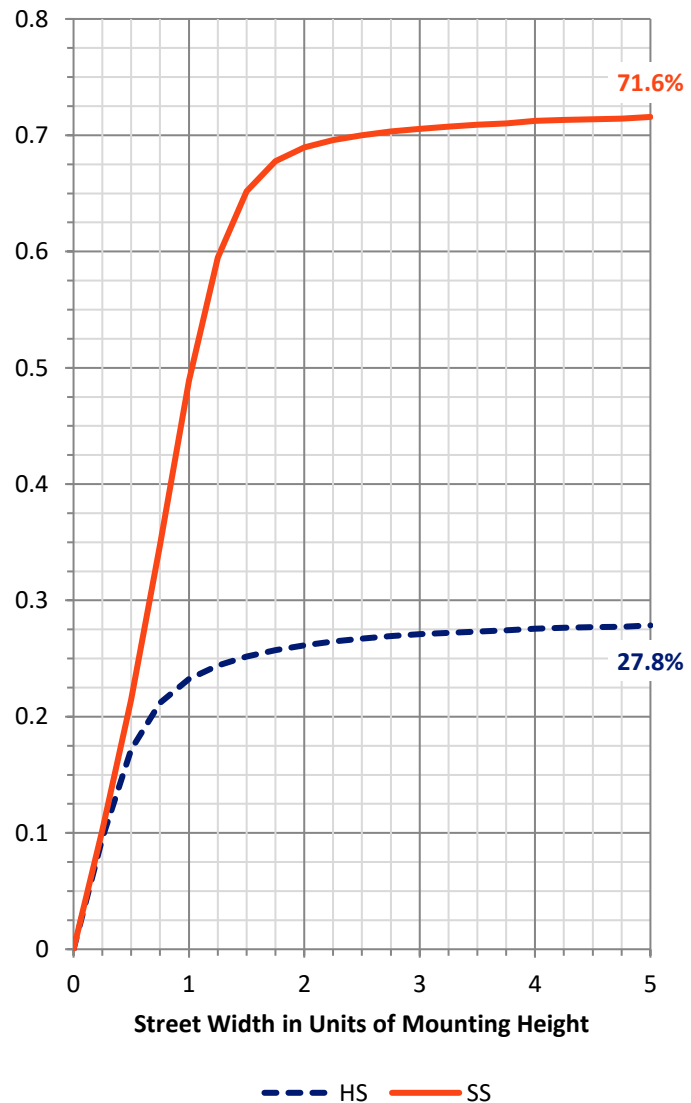
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1552.8	0.0	1552.8
	% Fixture	28.2	0.0	28.2
Street Side	Lumens	3960.4	0.0	3960.4
	% Fixture	71.8	0.0	71.8
Total	Lumens	5513.2	0.0	5513.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	0.1
10°-20°	60.8	1.1
20°-30°	236.2	4.3
30°-40°	584.3	10.6
40°-50°	1099.0	19.9
50°-60°	1458.0	26.4
60°-70°	1312.6	23.8
70°-80°	670.3	12.2
80°-90°	87.9	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°	5513.2	100.0
0°-180°	5513.2	100.0



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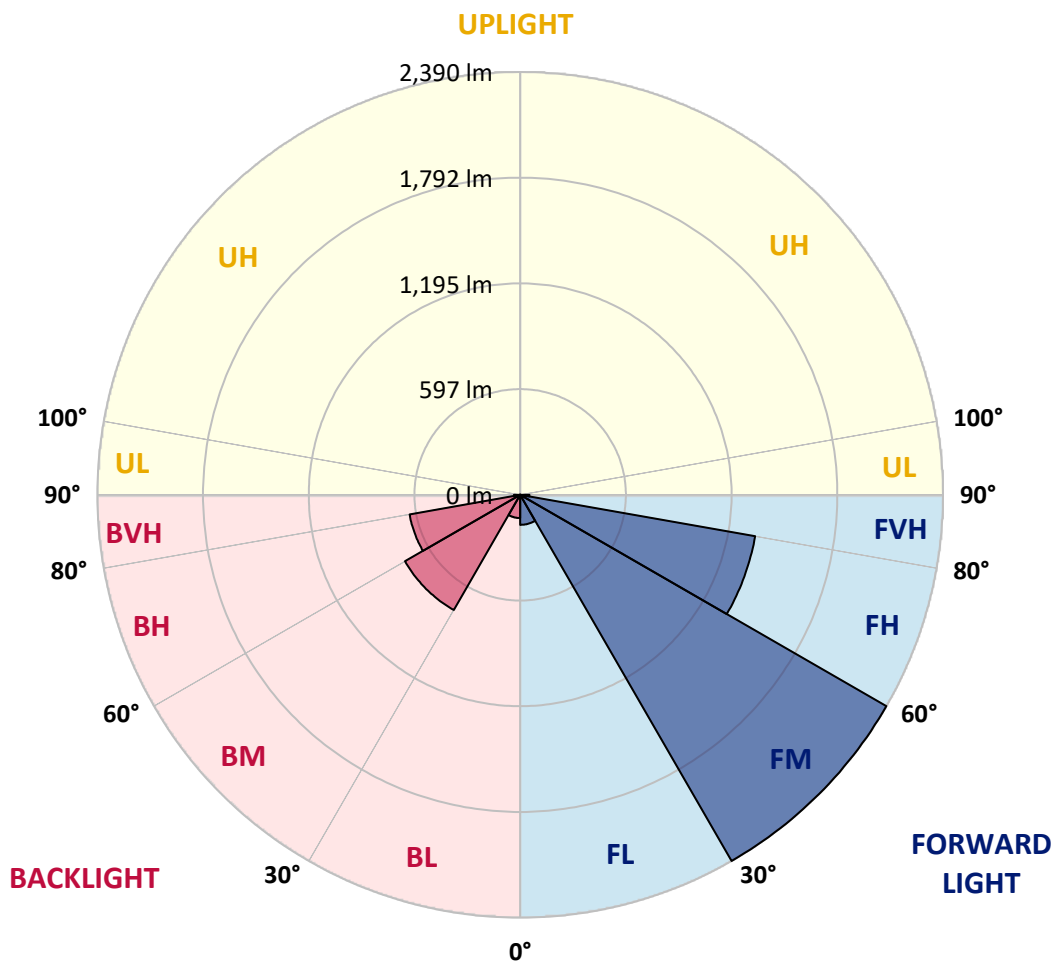
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	169.7	3.1			
FM	(30°-60°)	2389.7	43.3			
FH	(60°-80°)	1348.4	24.5			G1/1800
FVH	(80°-90°)	52.5	1.0			G1/100
BL	(0°-30°)	131.4	2.4	B1/500		
BM	(30°-60°)	751.5	13.6	B1/1000		
BH	(60°-80°)	634.5	11.5	B2/1000		G2/1000
BVH	(80°-90°)	35.3	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°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
2.5°	2.5	1.8	2.5	3.2	3.2	2.5	1.8	0.6	0.6	0.0	0.0
5°	117.6	115.0	80.1	31.2	16.3	8.7	4.4	1.8	1.2	0.6	0.6
7.5°	122.6	122.6	122.6	123.9	121.4	117.6	20.0	4.4	3.8	1.2	0.6
10°	125.1	124.4	123.3	124.4	123.3	123.3	120.7	15.7	14.4	5.0	3.8
12.5°	235.2	234.0	226.3	146.4	128.3	128.3	128.8	105.1	105.8	33.8	87.0
15°	245.9	245.2	242.1	243.3	235.8	140.7	197.6	253.4	255.8	177.6	200.8
17.5°	273.3	269.0	259.0	255.8	252.7	288.3	276.5	275.9	275.9	207.0	218.3
20°	422.9	417.3	411.6	332.8	277.7	367.2	339.7	298.4	300.9	352.8	374.1
22.5°	485.9	481.7	472.9	454.7	474.1	395.9	415.3	434.8	437.2	461.0	425.3
25°	661.8	665.6	619.3	530.5	571.8	492.9	532.3	479.7	492.9	501.1	526.1
27.5°	856.4	843.2	828.8	754.4	650.5	693.0	586.7	627.3	676.2	683.1	640.6
30°	1090.3	1072.2	957.6	949.6	832.5	780.0	758.8	770.1	756.8	717.5	718.1
32.5°	1375.6	1364.8	1314.8	1161.0	1053.4	894.5	923.9	843.8	851.3	932.6	946.4
35°	1772.0	1753.9	1515.0	1432.5	1219.2	1147.9	1033.4	1066.5	1075.2	1059.6	1041.5
37.5°	2226.8	2210.7	2022.9	1687.1	1473.7	1309.8	1275.5	1216.6	1193.5	1196.6	1202.8
40°	2495.3	2483.9	2318.2	2037.9	1731.4	1558.8	1446.8	1366.2	1329.9	1375.6	1362.4
42.5°	2687.2	2671.0	2575.9	2302.5	2083.0	1911.0	1653.8	1547.5	1488.7	1587.0	1542.5
45°	2802.4	2777.9	2731.1	2482.7	2370.7	2310.1	1932.2	1759.0	1715.2	1789.0	1756.5
47.5°	2767.3	2727.3	2756.7	2609.6	2604.6	2662.8	2257.6	2002.9	2001.6	2028.0	2003.6
50°	2550.2	2521.4	2609.1	2625.3	2749.8	2942.5	2654.1	2277.5	2292.6	2282.5	2254.3
52.5°	2148.7	2154.9	2293.8	2427.6	2737.3	3108.9	3046.9	2600.9	2642.2	2532.1	2485.8
55°	1732.8	1753.9	1903.6	2070.5	2538.9	3148.9	3388.4	2958.0	3026.9	2774.8	2703.5
57.5°	1314.8	1343.7	1521.9	1647.0	2143.6	3010.6	3591.2	3294.0	3394.6	3006.3	2906.2
60°	836.9	854.5	1074.0	1284.3	1598.8	2542.8	3638.7	3636.1	3748.1	3241.5	3086.3
62.5°	541.7	551.8	644.9	925.8	1111.6	1775.3	3483.5	3911.4	4025.8	3470.4	3240.8
64°	414.7	423.5	482.9	714.3	881.9	1290.5	3201.4	4005.9	4114.0	3557.4	3298.4
65°	360.3	365.9	409.7	582.4	750.6	1012.1	2923.7	4008.4	4112.2	3582.4	3308.4
67.5°	299.6	301.5	317.7	368.4	530.5	564.3	1845.3	3710.6	3808.2	3528.5	3228.9
70°	271.5	275.3	296.5	300.3	409.7	390.3	687.5	3053.1	3132.0	3384.1	3052.6
72.5°	234.0	238.3	265.8	288.3	317.2	309.6	347.8	2144.3	2228.2	2929.9	2851.7
75°	190.7	195.1	221.5	254.6	265.8	243.3	273.3	1101.6	1242.3	2165.5	2552.2
77.5°	151.4	155.8	176.4	200.2	239.6	186.4	218.3	422.2	504.8	1345.5	1898.5
80°	107.6	110.2	131.9	151.4	180.9	161.3	158.9	230.9	242.7	668.6	955.8
82.5°	66.3	68.2	88.2	101.3	120.7	161.3	113.8	158.9	162.7	280.9	292.7
85°	36.9	38.1	53.2	57.6	66.9	82.0	76.3	87.0	89.5	125.1	73.9
87.5°	4.4	5.7	12.6	13.7	12.6	13.7	13.7	12.6	13.1	11.3	6.2
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°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
2.5°	0.6	0.6	0.6	1.2	1.2	0.6	0.0	0.0	0.0	0.0	0.0
5°	0.6	0.6	1.2	1.2	1.8	1.8	2.5	3.8	3.8	3.8	4.4
7.5°	0.6	0.6	1.2	1.8	2.5	6.2	31.2	108.1	122.0	126.3	126.3
10°	3.8	3.8	3.8	4.4	12.6	122.0	137.0	141.4	143.2	143.2	144.5
12.5°	95.7	95.7	51.3	20.0	114.5	142.6	145.8	148.9	150.8	152.6	155.1
15°	202.0	202.6	197.0	193.3	203.9	153.8	155.8	250.9	261.4	265.8	266.5
17.5°	219.6	218.3	219.6	279.6	294.7	230.2	257.1	274.6	276.5	277.1	277.1
20°	394.1	392.2	311.5	295.9	302.1	382.2	277.1	277.7	311.5	361.5	377.2
22.5°	422.9	419.1	396.6	432.2	396.6	390.3	352.2	364.1	375.3	374.1	373.4
25°	532.9	522.3	437.2	446.7	502.3	395.3	422.9	351.6	357.9	359.7	360.3
27.5°	655.5	643.0	614.9	525.4	512.3	494.2	395.9	367.2	407.9	409.0	406.6
30°	700.6	683.8	643.0	657.4	547.9	466.0	379.6	388.4	367.7	367.2	367.7
32.5°	952.0	921.4	842.6	712.5	578.6	421.6	374.1	346.6	369.8	376.0	376.0
35°	1041.5	1001.5	933.3	893.8	554.8	409.0	327.8	334.7	335.9	334.7	335.3
37.5°	1159.1	1106.6	1044.6	910.7	571.8	355.9	312.8	310.3	334.7	339.0	340.9
40°	1296.1	1246.0	1188.5	924.6	513.0	327.1	299.6	310.3	317.2	318.4	319.7
42.5°	1470.0	1400.6	1323.5	922.0	436.6	314.0	297.0	297.0	305.3	302.7	302.7
45°	1668.3	1579.5	1450.6	898.2	361.5	302.1	290.8	286.5	290.2	285.2	285.2
47.5°	1891.0	1793.4	1545.7	861.4	318.4	291.5	285.2	271.5	280.2	278.9	278.9
50°	2126.7	2024.8	1634.5	778.2	291.5	282.1	270.9	267.6	278.9	276.5	275.9
52.5°	2353.2	2265.1	1702.0	665.0	268.3	273.3	265.8	264.6	274.6	272.0	271.5
55°	2570.4	2519.0	1786.5	569.2	247.7	257.8	264.0	264.0	270.2	267.6	267.6
57.5°	2781.7	2791.7	1886.6	503.5	232.0	245.2	261.4	260.8	264.6	262.8	263.4
60°	2996.9	3061.9	1986.7	441.6	219.6	230.9	256.4	255.2	257.1	256.4	257.1
62.5°	3200.7	3307.8	2108.0	362.2	205.9	219.6	248.3	249.5	249.0	250.9	250.9
64°	3305.3	3414.7	2168.0	315.9	197.6	212.7	242.1	243.9	243.3	247.0	246.5
65°	3345.9	3454.1	2189.3	288.3	192.7	208.2	237.7	240.2	239.6	243.9	242.1
67.5°	3334.7	3407.8	2163.7	237.7	179.5	196.4	225.8	230.2	228.4	234.6	230.2
70°	3216.5	3155.7	1960.4	207.0	169.0	183.2	210.8	216.5	213.3	219.6	212.1
72.5°	2995.1	2723.5	1525.7	179.5	157.0	170.1	193.9	199.5	197.0	199.5	191.4
75°	2504.5	2100.5	892.6	155.8	141.4	152.0	173.9	179.5	177.0	171.4	168.3
77.5°	1741.5	1327.9	352.8	136.3	127.0	133.2	148.3	153.3	149.4	138.9	137.0
80°	830.7	592.4	169.6	118.2	110.2	113.8	121.4	123.3	122.6	112.0	107.0
82.5°	254.6	193.9	117.0	95.0	89.5	88.2	95.7	93.2	92.0	84.4	66.3
85°	57.6	57.0	65.7	58.8	56.3	50.7	57.6	55.7	54.4	40.7	35.1
87.5°	1.8	3.8	3.2	8.0	8.7	6.9	11.3	11.9	8.7	3.8	0.6
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)