

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: McGRAW-EDISON

Report Number: P193680

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL3-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9314 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 129
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: 25 FT

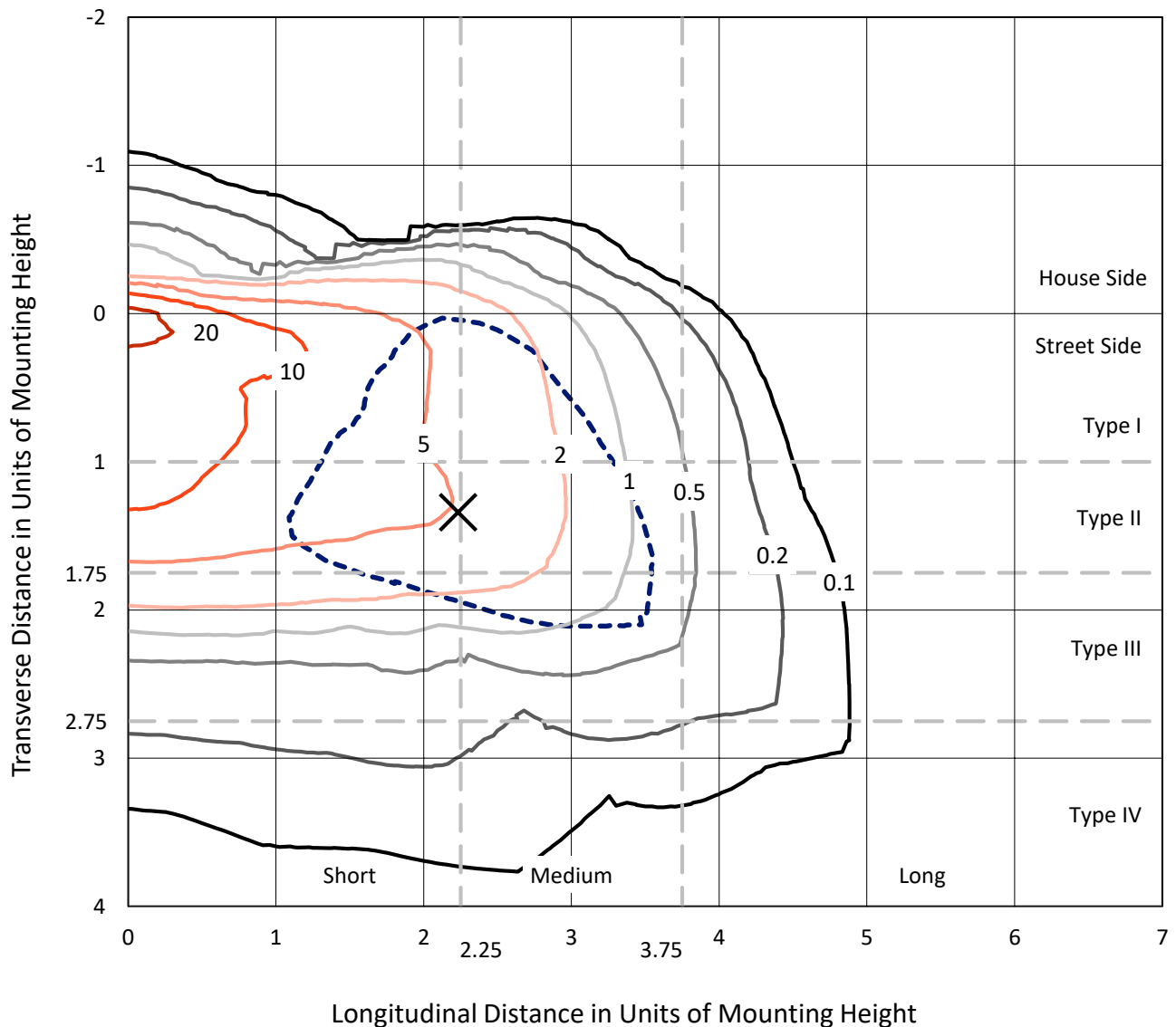


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

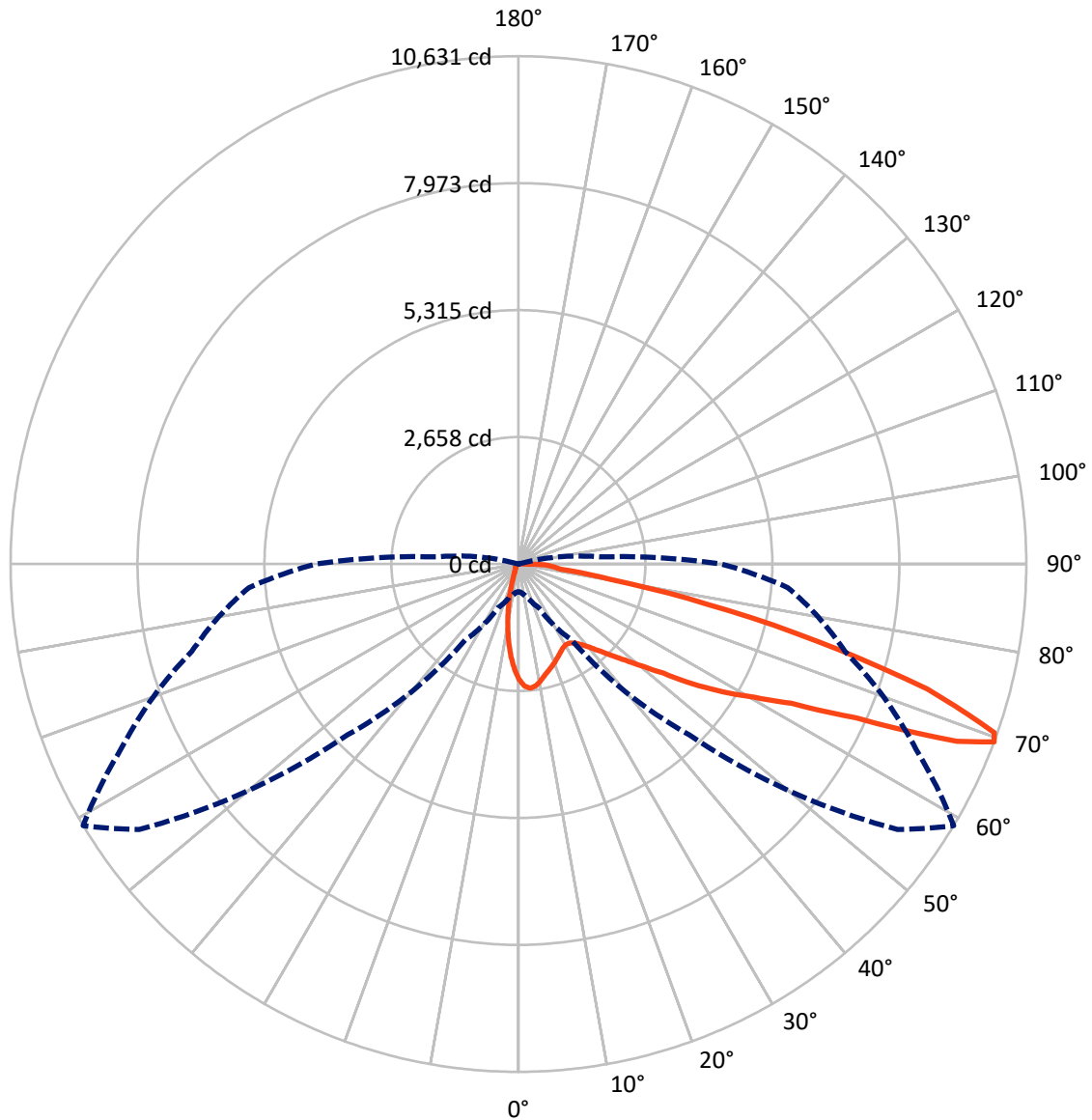


Based on 10 foot mounting height. Maximum calculated value = 24.4 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	758.5	0.0	758.5
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	8555.5	0.0	8555.5
	% Fixture	91.9	0.0	91.9
Total	Lumens	9314.0	0.0	9314.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.8	2.1
10°-20°	406.6	4.4
20°-30°	547.1	5.9
30°-40°	794.4	8.5
40°-50°	1322.8	14.2
50°-60°	2063.5	22.2
60°-70°	2553.4	27.4
70°-80°	1294.0	13.9
80°-90°	135.4	1.5
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°	9314.0	100.0
0°-180°	9314.0	100.0



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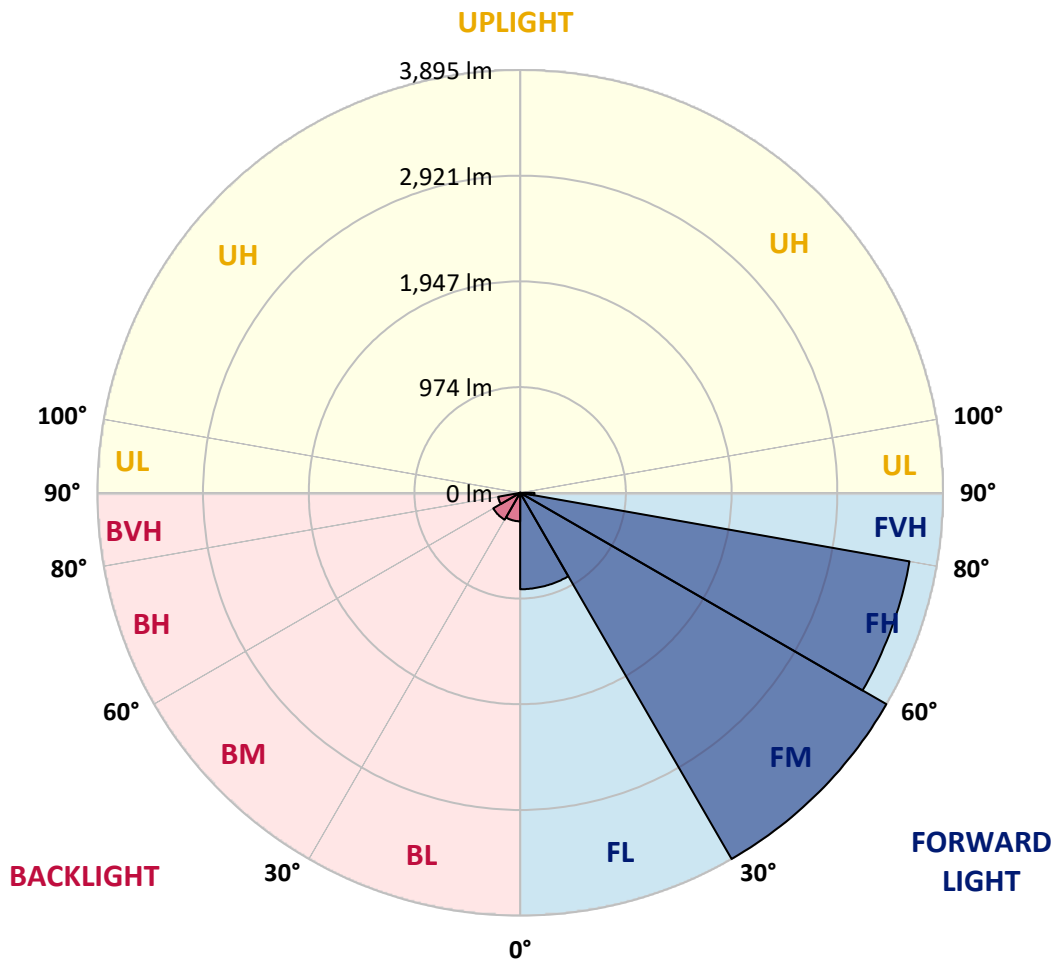
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	888.0	9.5			
FM (30°-60°)	3894.8	41.8			
FH (60°-80°)	3641.4	39.1			G2/5000
FVH (80°-90°)	131.2	1.4			G2/225
BL (0°-30°)	262.5	2.8	B1/500		
BM (30°-60°)	285.8	3.1	B1/1000		
BH (60°-80°)	206.0	2.2	B1/500		G1/500
BVH (80°-90°)	4.2	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2424.3	2424.3	2424.3	2424.3	2424.3	2424.3	2424.3	2424.3	2424.3	2424.3	2424.3
2.5°	2657.1	2656.0	2644.5	2639.2	2629.7	2609.7	2578.6	2562.3	2536.0	2490.1	2428.5
5°	2632.9	2645.5	2652.4	2652.9	2659.7	2652.4	2624.4	2610.7	2574.4	2500.7	2390.1
7.5°	2468.5	2473.3	2492.8	2509.6	2542.3	2573.4	2583.4	2577.6	2556.0	2477.0	2330.0
10°	2292.6	2297.4	2320.5	2342.7	2386.9	2434.8	2485.4	2495.9	2504.9	2443.3	2272.1
12.5°	2141.0	2145.7	2169.4	2198.4	2250.0	2309.0	2387.4	2404.8	2444.3	2411.1	2225.7
15°	2010.3	2012.4	2035.6	2071.4	2133.1	2208.9	2297.9	2325.8	2386.4	2388.5	2185.2
17.5°	1899.2	1904.5	1918.7	1952.9	2020.3	2114.1	2217.8	2257.9	2329.0	2369.5	2145.7
20°	1831.3	1836.5	1836.0	1855.0	1915.5	2015.6	2137.8	2185.7	2272.1	2350.0	2110.4
22.5°	1818.1	1818.1	1804.4	1801.8	1837.6	1921.3	2054.6	2113.0	2221.0	2341.6	2085.7
25°	1865.0	1862.9	1828.6	1800.7	1802.3	1852.3	1974.0	2043.5	2177.8	2347.4	2072.5
27.5°	1964.0	1961.4	1918.2	1865.0	1822.3	1821.8	1912.9	1987.7	2143.6	2374.8	2077.8
30°	2100.9	2099.9	2053.0	1986.1	1908.7	1837.6	1891.8	1959.8	2121.5	2424.3	2089.9
32.5°	2250.5	2248.9	2213.6	2143.1	2045.1	1908.7	1914.0	1970.8	2127.8	2490.1	2119.4
35°	2409.0	2406.4	2391.1	2329.5	2221.5	2039.8	1986.6	2030.9	2167.8	2588.6	2177.3
37.5°	2580.7	2583.4	2594.4	2535.4	2422.2	2223.6	2108.3	2138.3	2248.4	2722.4	2271.6
40°	2834.1	2833.5	2837.2	2759.8	2650.8	2448.5	2278.4	2287.9	2383.2	2899.9	2414.8
42.5°	3293.9	3261.7	3164.3	3006.3	2896.7	2705.6	2492.8	2482.8	2548.1	3119.5	2615.5
45°	3911.6	3843.2	3590.4	3287.5	3147.4	2995.2	2756.6	2724.5	2766.1	3383.4	2863.0
47.5°	4443.1	4372.0	4014.4	3580.4	3413.4	3270.2	3065.8	3007.9	3021.6	3678.9	3176.9
50°	4623.7	4589.0	4276.6	3835.3	3671.0	3616.2	3424.5	3353.9	3334.4	4020.7	3540.9
52.5°	4561.0	4558.4	4350.4	4000.7	3906.9	3974.3	3875.8	3794.2	3722.6	4380.9	3911.1
55°	4460.4	4473.6	4380.4	4145.5	4142.3	4301.4	4493.1	4425.2	4217.6	4772.2	4230.3
57.5°	4182.9	4239.2	4363.5	4419.4	4548.9	4711.7	5007.1	5047.2	4801.7	5071.9	4495.2
60°	3393.9	3517.7	3924.3	4458.9	5073.0	5478.5	5627.6	5661.8	5281.0	5321.0	4852.8
62.5°	2409.0	2535.4	3051.1	3955.4	5080.9	6486.1	6551.9	6417.6	5808.7	5690.2	5469.6
65°	1278.8	1376.2	1797.6	2855.1	4405.1	6719.9	8168.3	7768.0	6739.9	6416.5	6266.4
67.5°	654.1	683.6	851.1	1397.3	3028.4	5968.9	9617.2	9898.9	8344.7	7137.0	6228.0
69°	578.8	596.2	707.3	1010.2	1939.2	5055.6	9687.7	10630.5	9184.8	7077.0	5659.7
70°	560.4	575.7	676.8	914.3	1515.8	4239.8	9417.6	10566.2	9399.6	6848.4	5235.2
72.5°	475.6	488.8	602.5	807.9	1231.9	2104.6	7650.0	8953.6	8434.8	5705.0	3789.5
75°	318.1	361.3	578.3	757.4	1146.1	1195.6	5043.5	6470.3	6010.5	3847.9	1974.0
77.5°	76.4	82.2	163.3	602.5	1048.1	1052.3	2593.9	4022.3	3280.7	1371.5	466.6
80°	41.1	39.5	45.8	119.6	975.9	987.5	1167.6	1952.4	1171.3	227.5	153.8
82.5°	29.0	27.4	29.5	50.0	307.1	899.6	844.8	883.8	485.6	87.4	69.0
85°	10.5	10.0	16.3	45.3	96.4	517.2	868.0	728.9	393.4	40.0	50.6
87.5°	3.7	3.2	6.3	24.8	29.5	220.2	535.6	550.9	154.8	24.2	23.7
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°	2424.3	2424.3	2424.3	2424.3	2424.3	2424.3	2424.3	2424.3	2424.3	2424.3	2424.3
2.5°	2402.7	2370.1	2310.0	2248.4	2191.5	2123.0	2088.8	2055.1	2040.9	2035.6	2010.9
5°	2333.2	2277.9	2150.4	2022.4	1904.5	1779.1	1696.4	1630.1	1591.1	1572.1	1542.1
7.5°	2244.2	2153.6	1960.3	1762.8	1579.0	1397.8	1263.5	1160.3	1089.2	1054.9	1023.9
10°	2157.8	2037.2	1762.3	1493.1	1243.5	1003.3	817.9	683.6	597.8	558.3	533.0
12.5°	2080.4	1924.0	1571.1	1230.3	916.9	635.7	447.2	340.2	287.0	268.6	259.7
15°	2011.4	1819.7	1390.4	980.7	621.0	363.4	244.4	208.0	199.6	199.6	198.6
17.5°	1946.1	1717.5	1216.1	746.3	389.7	222.3	185.9	181.2	181.2	183.3	183.3
20°	1883.4	1620.1	1047.6	535.6	245.4	176.4	168.0	167.0	168.0	170.6	170.6
22.5°	1829.7	1531.6	890.1	367.6	182.2	159.1	154.8	153.3	153.8	155.4	156.4
25°	1789.7	1456.8	741.6	249.1	157.0	144.8	140.1	137.5	135.4	135.4	136.4
27.5°	1764.4	1393.6	597.8	181.2	141.2	131.7	124.3	120.1	115.3	112.7	113.8
30°	1745.9	1333.6	463.0	148.0	126.4	116.9	107.4	100.6	93.7	90.6	91.6
32.5°	1739.1	1285.1	346.0	130.6	113.2	102.7	91.1	82.2	74.8	72.2	72.7
35°	1757.5	1246.7	253.3	118.0	102.7	89.5	76.4	66.4	60.6	59.0	59.5
37.5°	1806.0	1226.1	189.6	107.4	93.2	78.5	63.7	54.2	50.6	50.6	51.1
40°	1897.6	1225.6	152.2	100.1	84.8	67.9	52.7	45.8	43.7	44.8	45.3
42.5°	2031.4	1253.5	132.7	93.2	77.4	57.9	43.7	39.0	38.4	39.5	40.0
45°	2214.2	1304.6	122.2	87.4	69.5	48.5	36.9	33.7	33.7	35.3	35.8
47.5°	2438.0	1379.4	113.2	81.6	61.6	40.6	31.6	29.5	30.0	31.6	32.1
50°	2707.7	1473.6	104.3	75.3	55.8	33.7	27.4	25.8	26.3	28.4	29.0
52.5°	3014.7	1600.6	96.9	69.5	48.5	27.9	23.2	22.1	23.2	25.3	25.8
55°	3278.1	1714.3	88.0	64.8	39.0	23.2	19.0	19.0	20.0	22.6	23.2
57.5°	3531.4	1833.4	80.1	55.8	30.5	18.4	15.8	16.3	17.9	20.5	21.1
60°	3903.2	2035.1	70.6	46.9	23.2	14.7	13.2	13.7	15.8	18.4	19.0
62.5°	4534.7	2342.1	61.1	39.0	17.9	11.6	10.5	11.6	14.2	17.4	17.9
65°	5104.6	2467.0	50.0	32.7	13.7	9.0	9.0	10.5	13.7	16.9	17.4
67.5°	4787.0	2076.7	39.0	25.8	10.5	6.8	7.4	10.0	13.2	16.9	17.4
69°	4233.4	1698.0	33.2	20.5	9.0	6.3	6.8	10.0	13.2	16.3	16.9
70°	3802.1	1433.6	29.5	17.4	7.9	6.3	6.8	9.5	13.2	16.3	16.9
72.5°	2546.5	774.2	23.7	12.6	7.4	5.8	5.8	9.5	12.6	15.8	16.3
75°	1094.4	213.8	19.0	9.0	6.3	5.3	5.3	9.0	12.1	15.3	16.3
77.5°	200.1	54.2	15.3	7.9	6.3	5.3	4.7	8.4	11.6	14.7	15.3
80°	79.5	26.9	12.1	6.8	5.8	4.7	4.2	7.9	11.1	14.2	14.7
82.5°	47.9	15.3	10.0	6.3	5.8	4.2	3.7	6.8	10.5	13.7	14.2
85°	39.0	10.5	7.9	6.3	5.3	4.2	3.2	6.3	9.5	13.2	13.7
87.5°	19.0	7.4	7.4	5.8	5.3	4.2	3.2	5.8	9.0	12.6	13.2
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)