

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: P269148

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-SL2-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12496.2 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

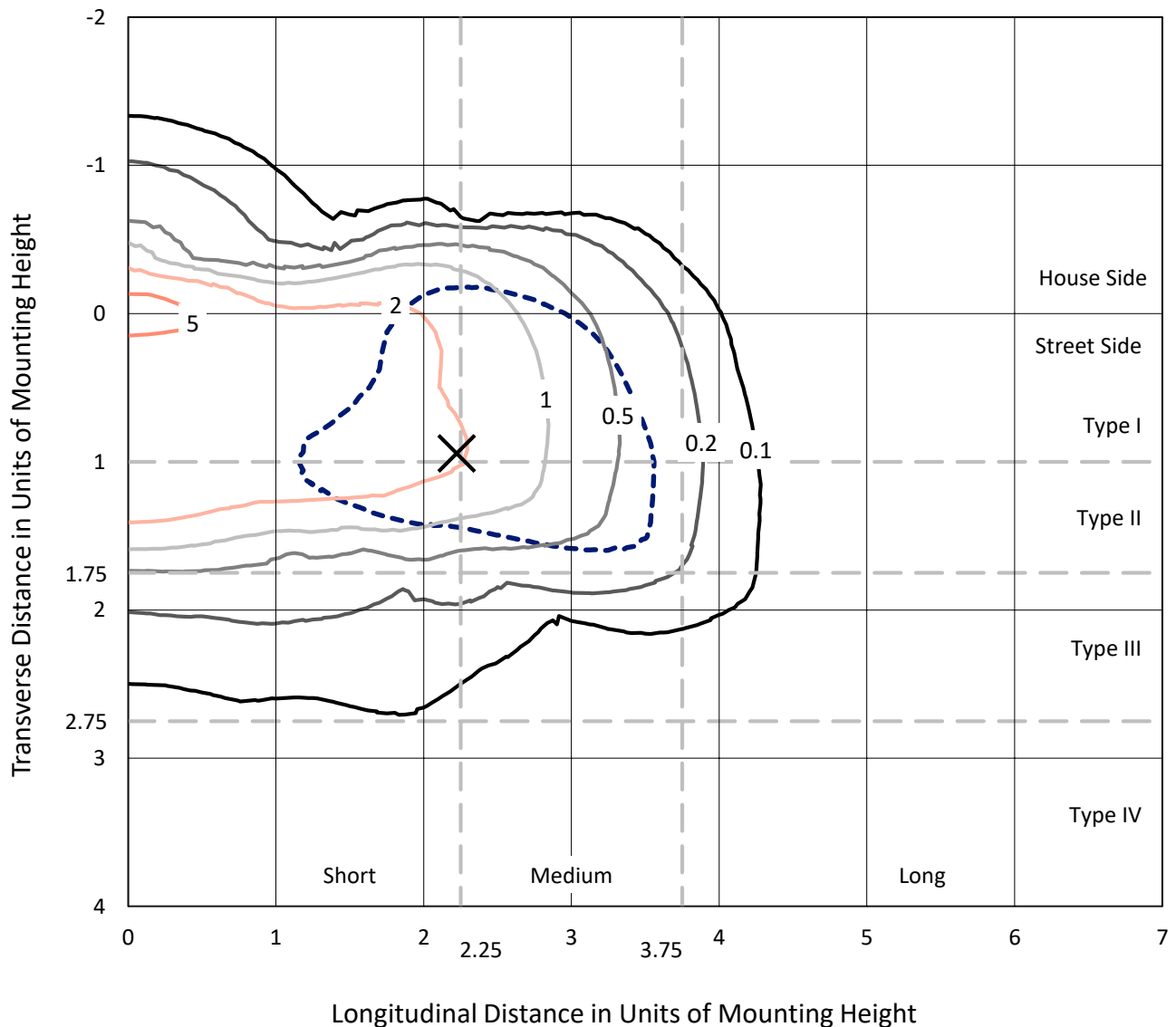
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

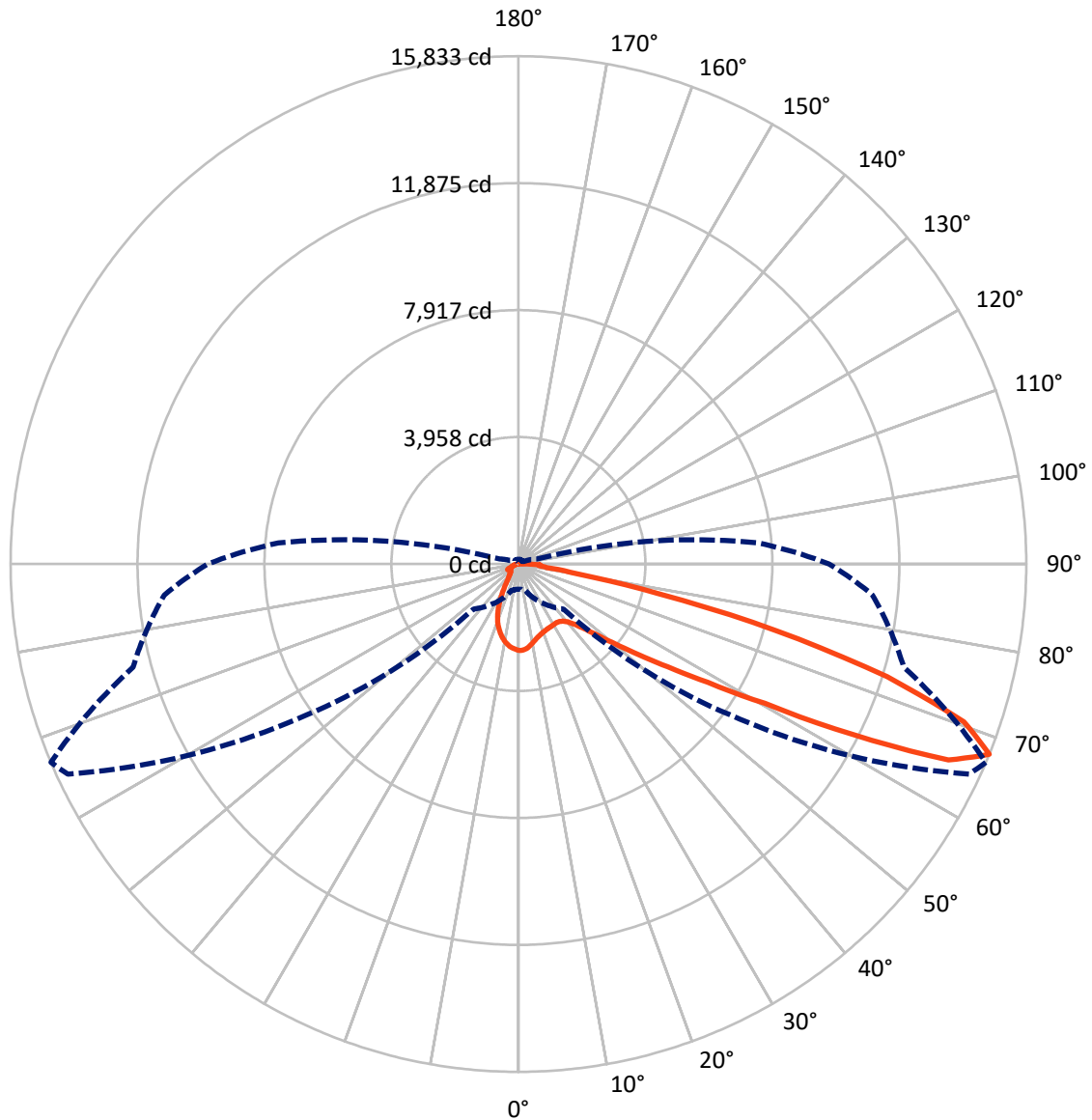
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2070.5	0.0	2070.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	10425.7	0.0	10425.7
	% Fixture	83.4	0.0	83.4
Total	Lumens	12496.2	0.0	12496.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.0	1.8
10°-20°	532.1	4.3
20°-30°	721.3	5.8
30°-40°	1025.3	8.2
40°-50°	1715.4	13.7
50°-60°	2713.8	21.7
60°-70°	3457.1	27.7
70°-80°	1810.8	14.5
80°-90°	290.4	2.3
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°	12496.2	100.0
0°-180°	12496.2	100.0



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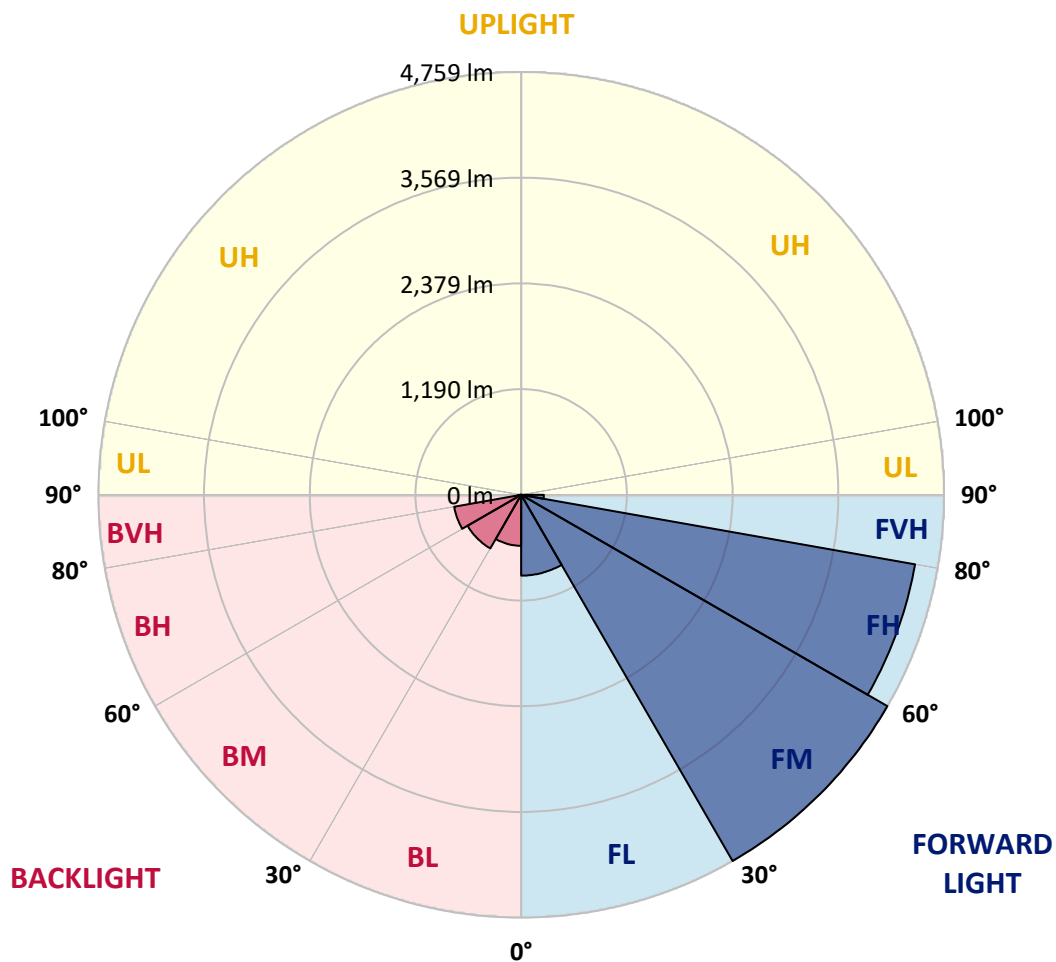
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	909.4	7.3			
FM (30°-60°)	4758.8	38.1			
FH (60°-80°)	4502.1	36.0			G2/5000
FVH (80°-90°)	255.4	2.0			G3/500
BL (0°-30°)	573.9	4.6	B2/1000		
BM (30°-60°)	695.7	5.6	B1/1000		
BH (60°-80°)	765.8	6.1	B2/1000		G2/1000
BVH (80°-90°)	35.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5
2.5°	2584.5	2588.7	2602.4	2611.0	2649.8	2666.4	2678.1	2689.9	2691.7	2697.3	2691.7
5°	2313.3	2322.6	2347.8	2376.1	2451.4	2510.6	2572.7	2637.5	2649.2	2691.1	2702.8
7.5°	2103.2	2100.7	2121.6	2155.7	2232.6	2314.6	2423.6	2552.4	2577.6	2672.0	2717.6
10°	1949.9	1948.0	1970.2	2005.2	2078.6	2156.2	2279.4	2455.6	2491.4	2641.7	2731.7
12.5°	1836.3	1837.0	1859.2	1897.9	1972.6	2050.8	2176.0	2362.1	2407.6	2606.6	2746.6
15°	1761.1	1766.1	1784.0	1825.3	1897.9	1976.2	2098.9	2291.8	2342.9	2578.9	2763.1
17.5°	1736.0	1743.9	1750.1	1780.4	1842.6	1920.8	2040.9	2240.1	2294.2	2559.8	2778.0
20°	1759.3	1768.7	1756.8	1767.3	1806.9	1875.8	1995.3	2199.3	2254.7	2538.3	2779.8
22.5°	1859.9	1868.5	1833.9	1803.6	1801.2	1843.1	1957.8	2167.3	2224.7	2522.3	2780.4
25°	2036.6	2042.1	1984.3	1914.0	1845.6	1831.5	1931.3	2145.2	2206.1	2508.1	2768.8
27.5°	2253.6	2257.9	2191.3	2087.8	1950.4	1859.2	1922.1	2132.1	2195.6	2495.8	2749.1
30°	2517.3	2537.6	2448.3	2317.6	2117.3	1941.1	1940.5	2125.4	2183.9	2474.8	2710.1
32.5°	2787.3	2795.9	2734.3	2601.8	2342.3	2085.3	1992.4	2130.3	2180.8	2449.5	2660.9
35°	3060.9	3071.9	3031.9	2925.3	2649.8	2296.6	2093.3	2159.3	2199.9	2441.0	2626.4
37.5°	3415.1	3430.0	3374.6	3251.2	3023.9	2583.3	2261.6	2232.0	2258.5	2465.6	2616.0
40°	3975.3	3968.5	3806.5	3622.9	3433.1	2949.9	2501.9	2355.3	2370.6	2545.1	2647.9
42.5°	4627.3	4610.7	4331.4	4043.1	3882.8	3393.5	2819.9	2569.1	2566.0	2701.6	2760.8
45°	5147.4	5133.9	4882.4	4526.9	4398.7	3899.0	3230.9	2887.7	2864.9	2949.9	2969.0
47.5°	5428.9	5429.6	5284.8	4994.5	4991.5	4541.0	3759.0	3348.6	3309.1	3349.2	3328.8
50°	5330.5	5343.4	5327.9	5235.5	5532.5	5382.9	4448.5	3991.3	3911.8	3951.3	3873.0
52.5°	4853.5	4870.2	4961.2	5103.0	5759.9	6400.2	5461.6	4790.0	4697.5	4683.4	4596.4
55°	4008.0	4028.3	4214.4	4599.5	5570.7	7083.7	7060.1	5808.0	5660.7	5527.0	5490.0
57.5°	2762.6	2796.5	3096.0	3667.8	4958.9	7290.0	8963.7	7259.3	6959.8	6492.6	6501.3
60°	1557.2	1596.6	1949.9	2469.3	3724.0	7065.7	10411.9	9457.4	8825.0	7623.5	7687.5
62.5°	990.3	1032.8	1300.8	1715.7	2234.4	5857.8	11005.3	12513.2	11710.2	9017.4	9080.2
65°	801.6	820.2	946.5	1416.1	1622.6	3529.3	10554.8	15030.5	14731.0	10786.6	10493.2
67.5°	782.7	788.8	854.1	1188.6	1556.0	1983.6	8418.9	15501.3	15833.4	12438.7	11081.8
70°	773.4	794.9	962.5	1134.5	1490.1	1673.1	5059.3	14210.9	14735.3	12870.6	10298.4
72.5°	375.3	374.1	484.4	1026.0	1678.7	1735.3	2599.2	11498.2	12024.5	11150.8	8462.8
75°	302.5	276.7	264.5	375.9	1614.0	1791.9	1656.5	7911.8	8292.7	7476.1	5202.3
77.5°	287.2	256.3	234.7	235.4	682.2	1900.5	1403.2	4379.0	4489.9	3377.0	1425.3
80°	238.0	209.6	194.2	218.7	330.2	1809.8	1517.1	1981.8	1818.4	829.5	474.6
82.5°	165.2	150.3	146.1	183.7	264.5	1289.7	1764.4	1064.9	892.9	415.3	292.7
85°	105.5	90.0	99.8	133.7	205.8	595.2	1817.4	830.0	660.0	263.7	165.2
87.5°	48.7	39.4	49.2	73.9	134.3	205.3	1729.1	932.4	679.7	139.2	104.2
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°	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5	2695.5
2.5°	2696.6	2684.9	2675.7	2658.4	2639.3	2620.8	2604.1	2583.3	2577.1	2571.6	2580.2
5°	2705.2	2693.6	2659.6	2606.6	2548.1	2493.2	2438.4	2391.6	2362.6	2346.6	2355.8
7.5°	2718.2	2701.6	2631.3	2533.9	2428.6	2332.4	2233.2	2153.7	2095.1	2067.4	2075.4
10°	2729.9	2697.9	2583.3	2437.2	2283.1	2140.2	1983.6	1854.2	1758.2	1707.6	1720.0
12.5°	2734.8	2683.6	2516.2	2316.4	2105.1	1895.6	1665.1	1471.6	1333.5	1283.0	1272.4
15°	2739.8	2667.6	2442.1	2179.0	1889.9	1593.6	1270.7	1039.0	924.4	899.1	893.5
17.5°	2741.0	2639.9	2358.3	2029.9	1638.0	1234.4	868.9	721.6	722.2	762.9	767.8
20°	2728.1	2598.6	2256.6	1844.4	1336.0	853.5	596.6	571.2	664.2	766.0	778.3
22.5°	2698.5	2543.8	2141.4	1628.1	990.3	562.0	461.5	489.2	609.5	733.9	748.1
25°	2660.9	2477.3	2005.2	1377.3	655.7	401.8	387.0	420.9	502.2	585.4	593.4
27.5°	2609.8	2398.4	1852.3	1090.2	425.8	330.9	340.7	363.5	396.8	433.8	437.6
30°	2543.8	2304.2	1689.2	794.9	321.7	297.7	311.8	324.2	338.3	359.2	361.1
32.5°	2468.1	2213.6	1521.5	549.0	285.3	280.5	291.5	297.7	308.7	321.7	322.9
35°	2404.6	2127.2	1347.6	388.2	269.9	267.4	274.8	277.2	287.7	302.0	303.2
37.5°	2368.2	2056.9	1168.3	313.1	259.4	255.7	260.1	260.1	274.8	295.8	298.9
40°	2370.6	2018.1	989.0	282.8	250.7	245.9	246.4	246.4	265.5	288.4	290.2
42.5°	2437.8	2028.1	830.0	271.2	244.0	238.5	235.4	237.2	253.3	268.1	269.3
45°	2595.6	2097.6	680.9	263.7	237.2	235.4	228.6	228.0	234.2	240.9	240.9
47.5°	2854.4	2235.1	579.9	258.8	231.8	231.0	223.0	215.1	214.4	216.9	216.9
50°	3275.3	2471.6	512.2	253.3	228.0	223.0	213.8	201.5	197.2	199.1	199.1
52.5°	3906.3	2893.8	486.3	245.9	219.9	212.0	201.5	189.3	185.5	186.0	186.0
55°	4733.9	3542.0	482.5	237.2	211.5	198.4	189.8	180.6	176.2	177.4	177.4
57.5°	5745.1	4438.7	548.4	223.7	199.7	185.0	179.9	173.8	170.7	172.6	171.9
60°	6974.5	5612.0	813.4	209.6	187.9	172.6	172.6	167.7	165.2	167.1	166.4
62.5°	8390.6	6959.8	1143.7	199.1	175.6	162.8	165.2	162.8	160.2	161.4	160.8
65°	9646.4	7837.9	1071.0	191.0	163.3	153.4	157.7	156.6	154.7	155.9	155.2
67.5°	9682.9	7512.4	601.4	182.4	151.6	144.2	150.3	149.7	148.5	149.7	149.1
70°	8641.4	6343.6	338.9	166.4	139.2	133.0	141.8	141.2	139.9	142.3	141.8
72.5°	6923.3	4603.3	247.8	146.7	126.9	121.5	131.2	130.7	130.7	134.3	132.5
75°	3984.0	2368.8	197.7	125.8	114.1	109.8	118.2	118.9	120.2	125.1	121.5
77.5°	1135.6	738.2	161.4	106.5	97.9	96.1	104.7	106.0	106.5	112.2	107.2
80°	422.2	340.2	133.0	89.3	80.0	80.7	88.8	90.5	91.2	96.7	90.5
82.5°	269.3	224.2	107.8	69.0	62.8	62.3	72.1	74.6	74.6	75.2	71.4
85°	157.2	134.3	81.3	49.9	44.3	42.5	53.5	57.9	56.1	54.8	52.5
87.5°	105.5	92.4	49.9	27.8	24.1	22.7	31.4	34.6	33.2	31.4	29.6
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)