

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: P193612

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193612
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-04-LED-E1-SL2-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA 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: 12646 lumens
Efficiency: N/A
Efficacy: 98.0 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

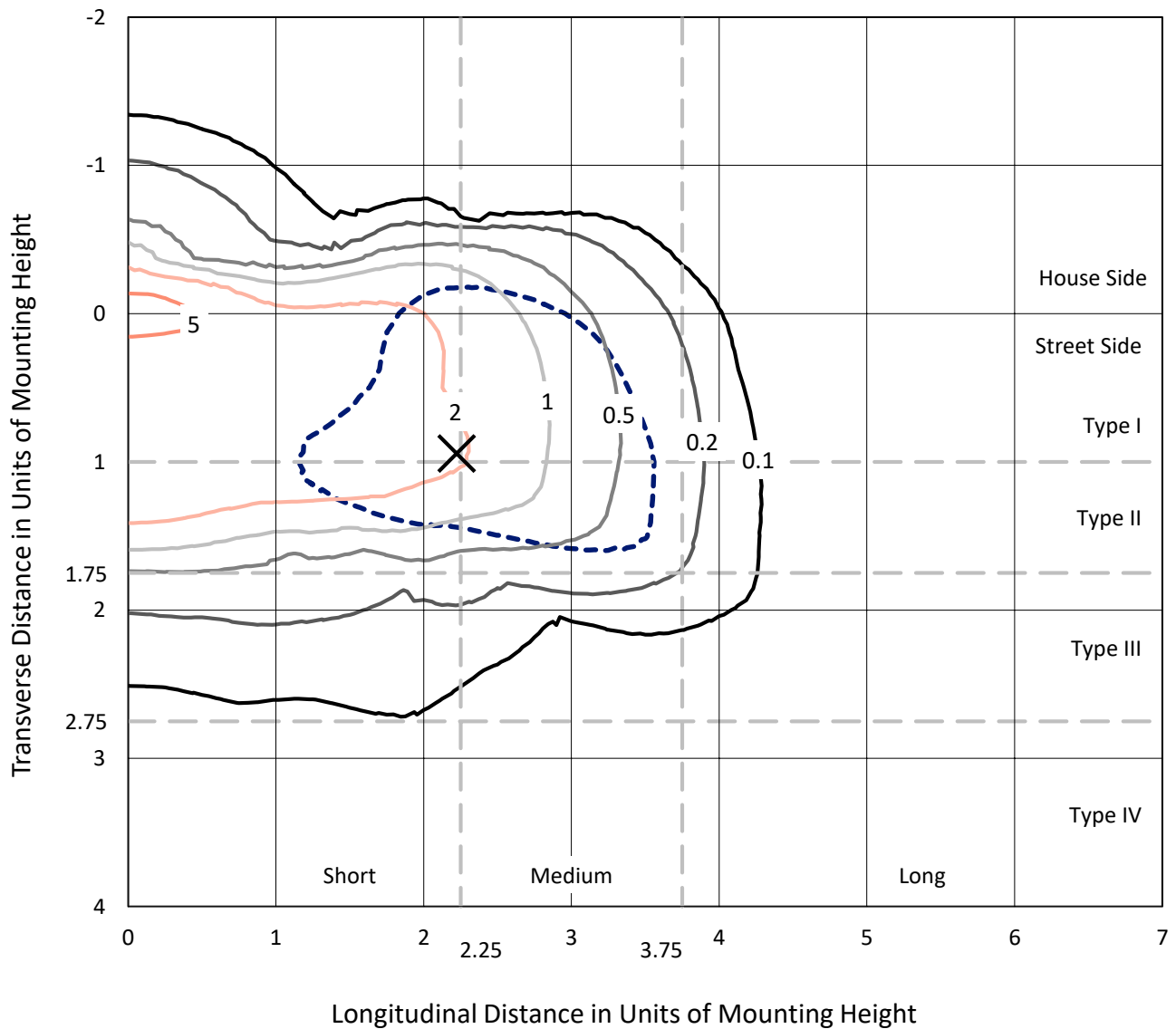
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

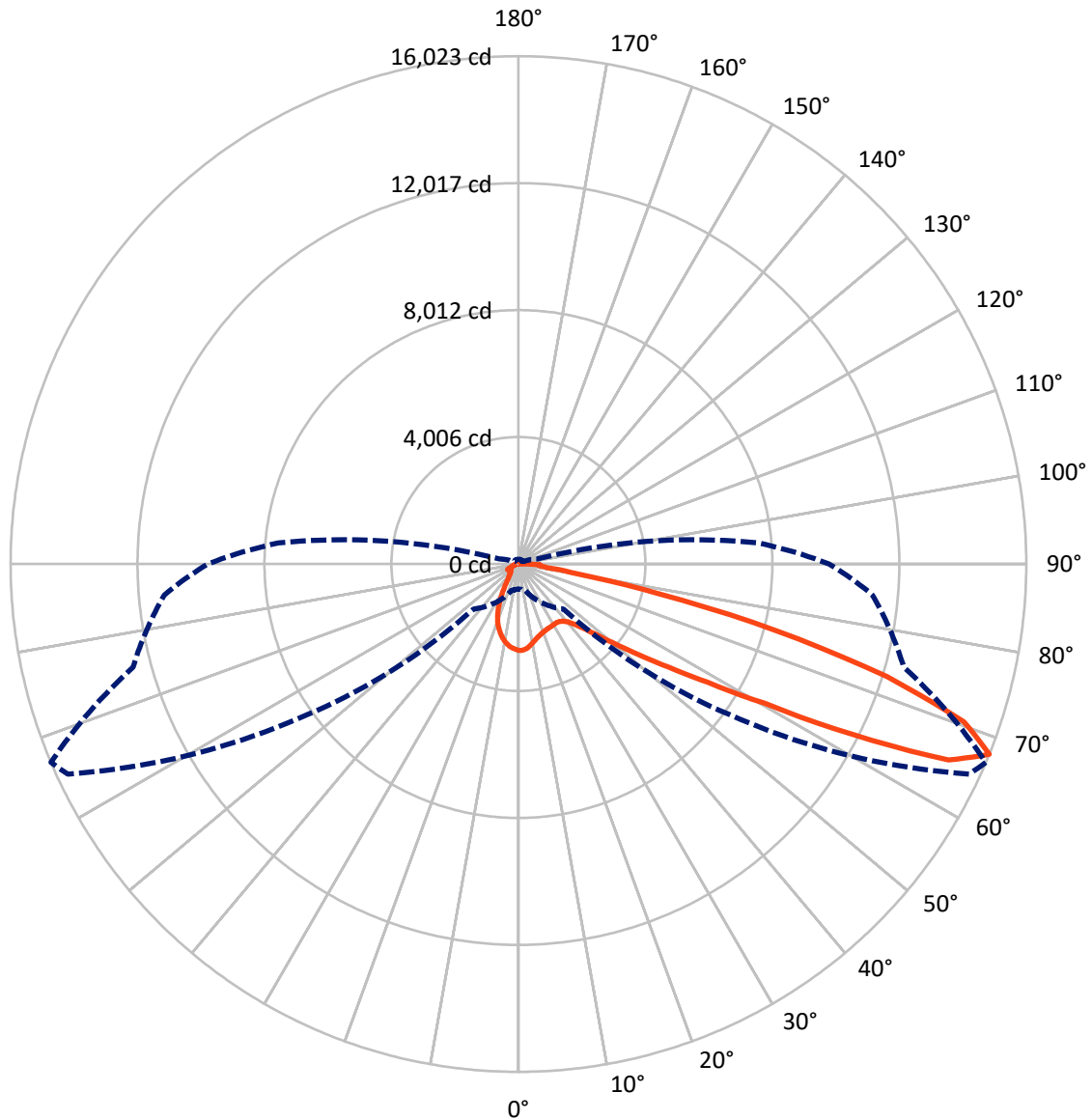
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 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	2095.3	0.0	2095.3
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	10550.7	0.0	10550.7
	% Fixture	83.4	0.0	83.4
Total	Lumens	12646.0	0.0	12646.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.7	1.8
10°-20°	538.5	4.3
20°-30°	729.9	5.8
30°-40°	1037.6	8.2
40°-50°	1736.0	13.7
50°-60°	2746.3	21.7
60°-70°	3498.5	27.7
70°-80°	1832.5	14.5
80°-90°	293.9	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°	12646.0	100.0
0°-180°	12646.0	100.0



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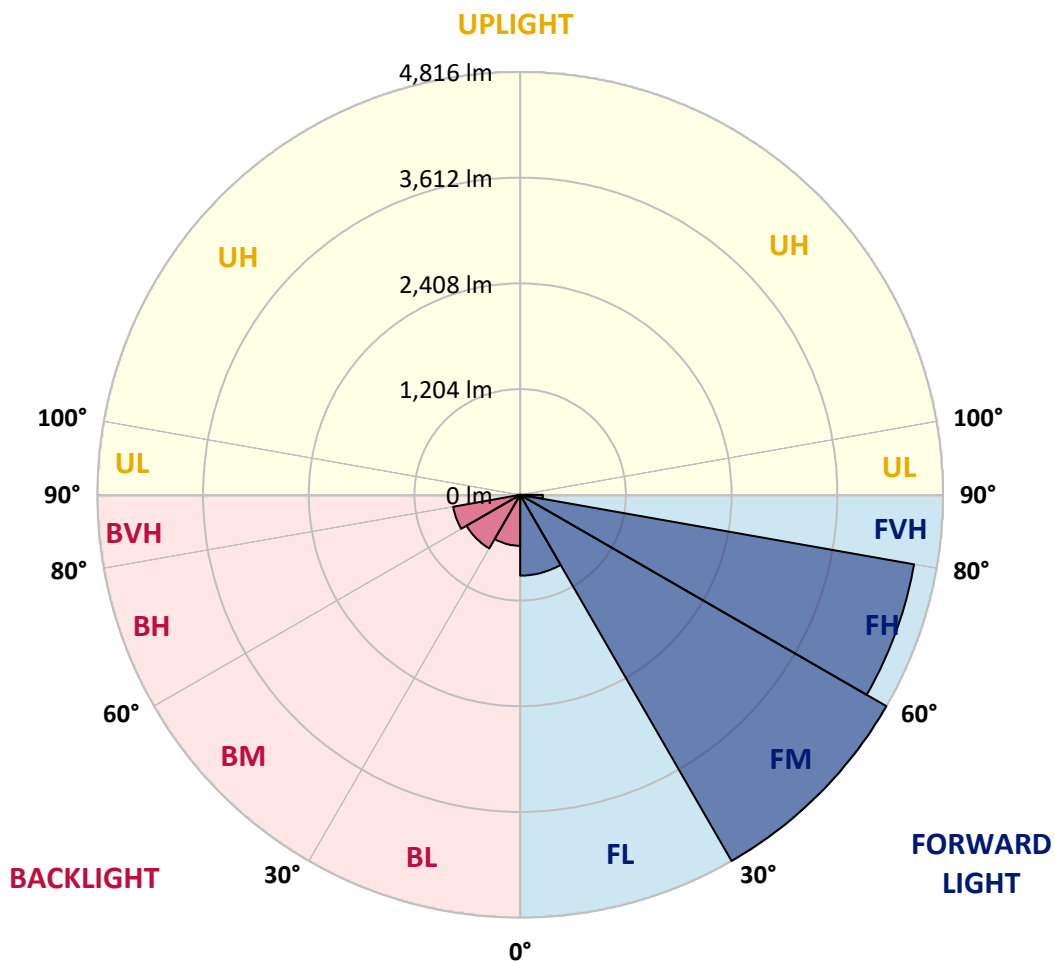
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	920.3	7.3			
FM (30°-60°)	4815.9	38.1			
FH (60°-80°)	4556.1	36.0			G2/5000
FVH (80°-90°)	258.4	2.0			G3/500
BL (0°-30°)	580.8	4.6	B2/1000		
BM (30°-60°)	704.1	5.6	B1/1000		
BH (60°-80°)	775.0	6.1	B2/1000		G2/1000
BVH (80°-90°)	35.5	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°	2727.7	2727.7	2727.7	2727.7	2727.7	2727.7	2727.7	2727.7	2727.7	2727.7	2727.7
2.5°	2615.5	2619.8	2633.5	2642.3	2681.6	2698.4	2710.2	2722.1	2724.0	2729.6	2724.0
5°	2341.1	2350.4	2376.0	2404.7	2480.8	2540.6	2603.6	2669.1	2680.9	2723.3	2735.2
7.5°	2128.4	2125.9	2147.1	2181.4	2259.4	2342.3	2452.7	2583.0	2608.6	2704.0	2750.2
10°	1973.1	1971.3	1993.7	2029.3	2103.5	2182.0	2306.8	2485.1	2521.3	2673.5	2764.5
12.5°	1858.4	1859.0	1881.5	1920.7	1996.2	2075.4	2202.0	2390.3	2436.5	2637.9	2779.5
15°	1782.3	1787.3	1805.4	1847.2	1920.7	1999.9	2124.0	2319.2	2371.0	2609.8	2796.3
17.5°	1756.7	1764.8	1771.1	1801.6	1864.6	1943.8	2065.4	2266.9	2321.7	2590.5	2811.3
20°	1780.4	1789.8	1777.9	1788.5	1828.5	1898.3	2019.3	2225.7	2281.8	2568.7	2813.1
22.5°	1882.1	1890.8	1855.9	1825.3	1822.8	1865.2	1981.2	2193.3	2251.3	2552.5	2813.8
25°	2061.1	2066.7	2008.1	1937.0	1867.7	1853.4	1954.4	2170.8	2232.6	2538.1	2801.9
27.5°	2280.6	2284.9	2217.6	2112.8	1973.8	1881.5	1945.1	2157.7	2222.0	2525.7	2782.0
30°	2547.5	2568.1	2477.6	2345.4	2142.8	1964.4	1963.8	2150.9	2210.1	2504.5	2742.7
32.5°	2820.6	2829.4	2767.0	2632.9	2370.4	2110.3	2016.2	2155.9	2207.0	2478.9	2692.8
35°	3097.5	3108.7	3068.2	2960.3	2681.6	2324.2	2118.4	2185.2	2226.3	2470.2	2657.9
37.5°	3456.1	3471.1	3414.9	3290.2	3060.1	2614.2	2288.7	2258.7	2285.6	2495.1	2647.3
40°	4023.0	4016.1	3852.1	3666.3	3474.2	2985.3	2531.9	2383.5	2399.1	2575.5	2679.7
42.5°	4682.8	4665.9	4383.4	4091.6	3929.4	3434.3	2853.7	2599.9	2596.8	2733.9	2793.8
45°	5209.1	5195.4	4940.9	4581.1	4451.4	3945.6	3269.6	2922.3	2899.2	2985.3	3004.6
47.5°	5494.1	5494.7	5348.2	5054.4	5051.3	4595.5	3804.1	3388.7	3348.8	3389.4	3368.8
50°	5394.3	5407.4	5391.8	5298.3	5598.9	5447.3	4501.9	4039.2	3958.7	3998.6	3919.4
52.5°	4911.6	4928.5	5020.8	5164.2	5829.0	6476.9	5527.1	4847.4	4753.9	4739.5	4651.6
55°	4056.0	4076.6	4264.9	4654.7	5637.5	7168.5	7144.8	5877.6	5728.6	5593.2	5555.8
57.5°	2795.7	2830.0	3133.1	3711.8	5018.3	7377.4	9071.2	7346.2	7043.2	6570.5	6579.2
60°	1575.9	1615.8	1973.1	2498.8	3768.5	7150.4	10536.7	9570.7	8930.9	7714.8	7779.7
62.5°	1002.2	1045.2	1316.5	1736.2	2261.2	5928.1	11137.2	12663.2	11850.6	9125.4	9189.0
65°	811.3	830.0	957.9	1433.1	1642.0	3571.5	10681.4	15210.7	14907.6	10915.8	10619.0
67.5°	792.0	798.2	864.3	1203.0	1574.6	2007.4	8519.9	15687.1	16023.3	12587.8	11214.5
70°	782.6	804.5	974.1	1148.1	1507.9	1693.1	5119.9	14381.3	14912.0	13024.9	10421.9
72.5°	379.8	378.5	490.2	1038.3	1698.7	1756.1	2630.4	11636.1	12168.7	11284.4	8564.2
75°	306.2	280.0	267.5	380.4	1633.3	1813.5	1676.3	8006.6	8392.0	7565.8	5264.6
77.5°	290.6	259.4	237.6	238.2	690.3	1923.2	1420.0	4431.4	4543.7	3417.4	1442.4
80°	240.7	212.0	196.4	221.4	334.3	1831.6	1535.4	2005.6	1840.3	839.4	480.2
82.5°	167.1	152.2	147.8	185.8	267.5	1305.2	1785.4	1077.6	903.6	420.3	296.2
85°	106.6	91.0	101.0	135.3	208.3	602.4	1839.1	840.0	667.9	266.9	167.1
87.5°	49.3	39.9	49.9	74.8	135.9	207.7	1749.9	943.5	687.9	140.9	105.4
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°	2727.7	2727.7	2727.7	2727.7	2727.7	2727.7	2727.7	2727.7	2727.7	2727.7	2727.7
2.5°	2729.0	2717.1	2707.8	2690.3	2671.0	2652.3	2635.4	2614.2	2608.0	2602.4	2611.1
5°	2737.7	2725.8	2691.5	2637.9	2578.7	2523.2	2467.7	2420.3	2391.0	2374.7	2384.1
7.5°	2750.8	2733.9	2662.9	2564.3	2457.7	2360.4	2260.0	2179.5	2120.3	2092.2	2100.4
10°	2762.6	2730.2	2614.2	2466.4	2310.5	2165.8	2007.4	1876.5	1779.2	1728.0	1740.5
12.5°	2767.6	2715.9	2546.2	2344.2	2130.3	1918.3	1685.0	1489.2	1349.5	1298.4	1287.8
15°	2772.6	2699.6	2471.4	2205.1	1912.6	1612.7	1285.9	1051.4	935.4	909.9	904.2
17.5°	2773.9	2671.6	2386.6	2054.2	1657.6	1249.1	879.3	730.3	730.9	772.0	777.0
20°	2760.8	2629.8	2283.7	1866.5	1352.0	863.7	603.7	578.1	672.3	775.2	787.6
22.5°	2730.8	2574.3	2167.1	1647.6	1002.2	568.7	467.1	495.2	616.8	742.7	757.1
25°	2692.8	2506.9	2029.3	1393.8	663.5	406.6	391.6	425.9	508.2	592.4	600.5
27.5°	2641.0	2427.1	1874.6	1103.2	430.9	334.9	344.9	367.9	401.6	439.0	442.8
30°	2574.3	2331.7	1709.3	804.5	325.5	301.2	315.6	328.0	342.4	363.6	365.4
32.5°	2497.6	2240.0	1539.7	555.6	288.7	283.7	295.0	301.2	312.4	325.5	326.8
35°	2433.4	2152.7	1363.9	392.9	273.1	270.7	278.1	280.6	291.2	305.6	306.8
37.5°	2396.6	2081.6	1182.4	316.8	262.5	258.8	263.2	263.2	278.1	299.3	302.5
40°	2399.1	2042.4	1000.9	286.2	253.8	248.8	249.4	249.4	268.8	291.9	293.7
42.5°	2467.0	2052.3	840.0	274.4	247.0	241.3	238.2	240.1	256.3	271.3	272.5
45°	2626.7	2122.8	689.1	266.9	240.1	238.2	231.4	230.7	237.0	243.8	243.8
47.5°	2888.6	2261.9	586.8	261.9	234.5	233.9	225.8	217.6	217.0	219.5	219.5
50°	3314.5	2501.3	518.2	256.3	230.7	225.8	216.4	203.9	199.6	201.4	201.4
52.5°	3953.1	2928.5	492.0	248.8	222.6	214.5	203.9	191.5	187.7	188.3	188.3
55°	4790.6	3584.6	488.3	240.1	213.9	200.8	192.1	182.7	178.4	179.6	179.6
57.5°	5814.0	4491.9	555.0	226.4	202.1	187.1	182.1	175.9	172.7	174.6	174.0
60°	7058.1	5679.3	823.2	212.0	190.2	174.6	174.6	169.6	167.1	169.0	168.4
62.5°	8491.2	7043.2	1157.4	201.4	177.7	164.6	167.1	164.6	162.1	163.4	162.8
65°	9762.1	7931.8	1083.9	193.3	165.3	155.3	159.6	158.4	156.5	157.8	157.2
67.5°	9798.9	7602.5	608.7	184.6	153.4	145.9	152.2	151.5	150.3	151.5	150.9
70°	8745.0	6419.5	343.0	168.4	140.9	134.7	143.4	142.8	141.6	144.1	143.4
72.5°	7006.4	4658.4	250.7	148.4	128.5	122.9	132.8	132.2	132.2	135.9	134.1
75°	4031.7	2397.2	200.2	127.2	115.4	111.0	119.7	120.4	121.6	126.6	122.9
77.5°	1149.3	747.1	163.4	107.9	99.2	97.3	106.0	107.3	107.9	113.5	108.5
80°	427.2	344.2	134.7	90.4	81.1	81.7	89.8	91.7	92.3	97.9	91.7
82.5°	272.5	227.0	109.1	69.8	63.6	63.0	73.0	75.5	75.5	76.1	72.3
85°	159.0	135.9	82.3	50.5	44.9	43.0	54.3	58.6	56.7	55.5	53.0
87.5°	106.6	93.5	50.5	28.1	24.3	23.1	31.8	34.9	33.7	31.8	29.9
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)