

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: P191890

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191890
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-02-LED-E1-SL2-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1050mA 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: 11931 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

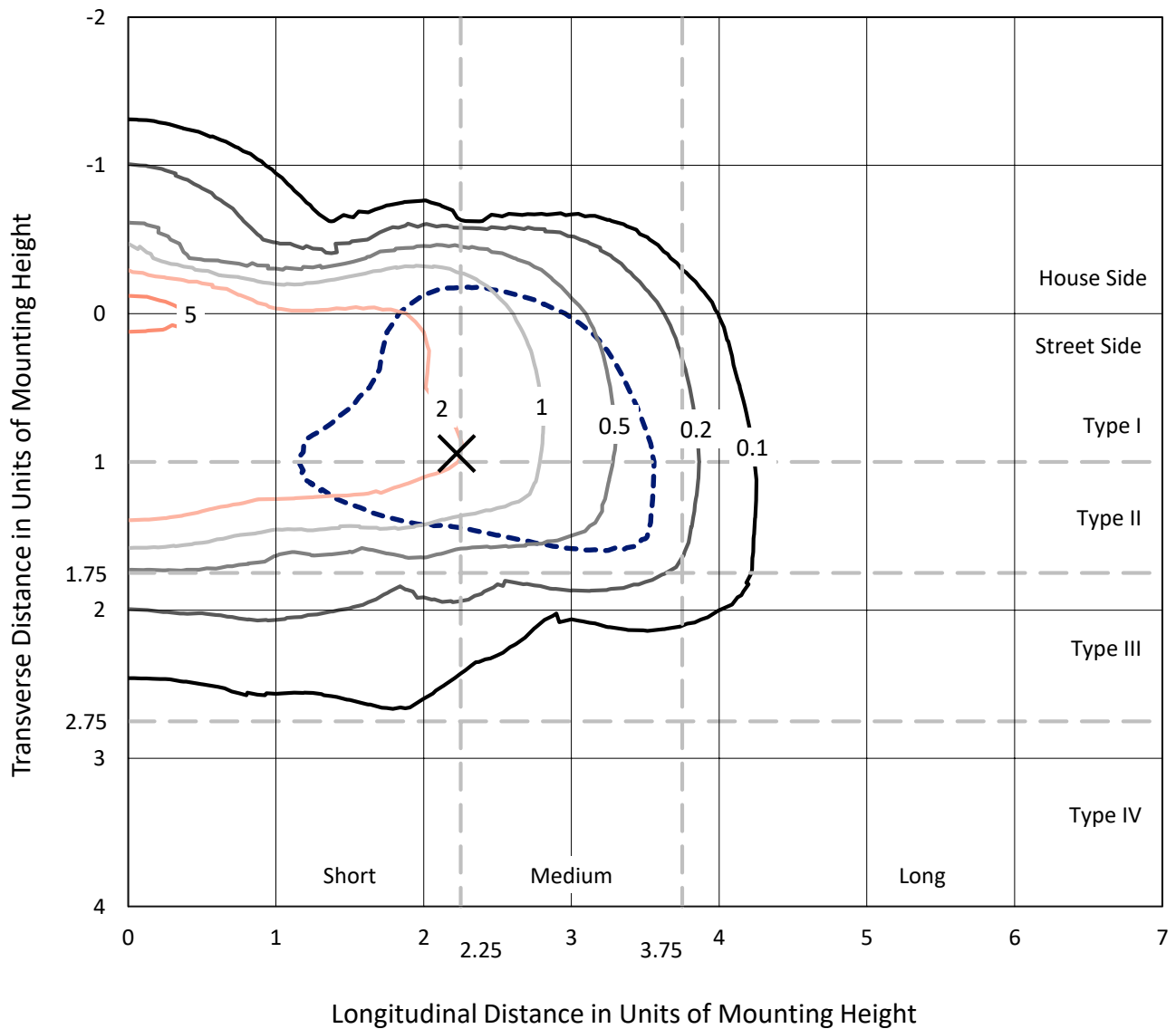
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

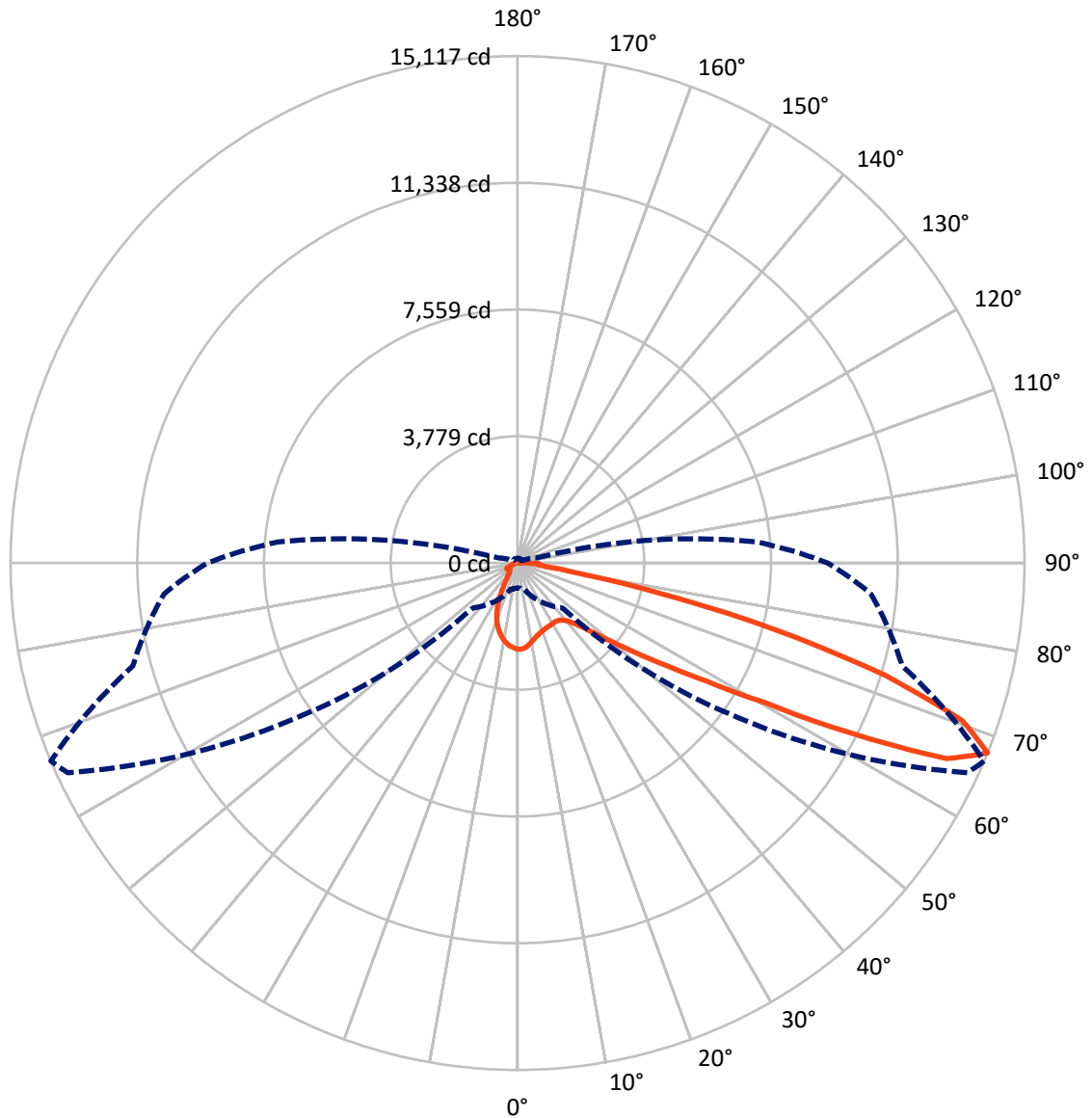
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 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	1976.8	0.0	1976.8
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	9954.2	0.0	9954.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	11931.0	0.0	11931.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.6	1.8
10°-20°	508.0	4.3
20°-30°	688.6	5.8
30°-40°	979.0	8.2
40°-50°	1637.8	13.7
50°-60°	2591.0	21.7
60°-70°	3300.7	27.7
70°-80°	1728.9	14.5
80°-90°	277.3	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°	11931.0	100.0
0°-180°	11931.0	100.0

Coefficient of Utilization



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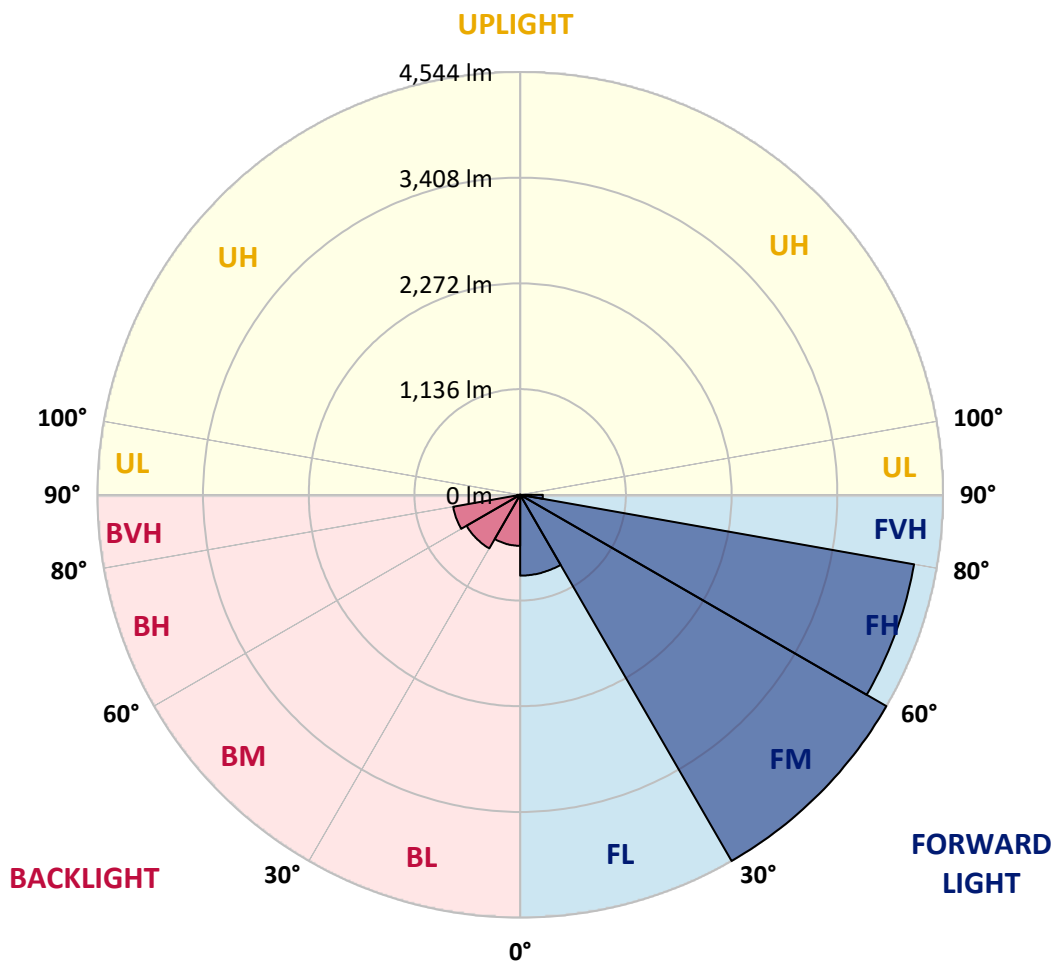
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	868.3	7.3			
FM	(30°-60°)	4543.6	38.1			
FH	(60°-80°)	4298.5	36.0			G2/5000
FVH	(80°-90°)	243.8	2.0			G3/500
BL	(0°-30°)	547.9	4.6	B2/1000		
BM	(30°-60°)	664.3	5.6	B1/1000		
BH	(60°-80°)	731.2	6.1	B2/1000		G2/1000
BVH	(80°-90°)	33.5	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°	2573.5	2573.5	2573.5	2573.5	2573.5	2573.5	2573.5	2573.5	2573.5	2573.5	2573.5
2.5°	2467.6	2471.7	2484.6	2492.9	2529.9	2545.8	2557.0	2568.2	2570.0	2575.3	2570.0
5°	2208.7	2217.5	2241.7	2268.7	2340.5	2397.0	2456.4	2518.2	2529.4	2569.4	2580.5
7.5°	2008.1	2005.7	2025.7	2058.1	2131.6	2209.9	2314.0	2437.0	2461.1	2551.1	2594.7
10°	1861.6	1859.8	1881.0	1914.5	1984.5	2058.7	2176.3	2344.6	2378.7	2522.3	2608.2
12.5°	1753.3	1753.9	1775.1	1812.1	1883.3	1958.1	2077.5	2255.2	2298.7	2488.8	2622.3
15°	1681.5	1686.2	1703.3	1742.7	1812.1	1886.9	2004.0	2188.1	2236.9	2462.3	2638.2
17.5°	1657.4	1665.1	1670.9	1699.8	1759.2	1833.9	1948.6	2138.7	2190.5	2444.0	2652.3
20°	1679.8	1688.6	1677.4	1687.4	1725.1	1791.0	1905.1	2099.9	2152.8	2423.5	2654.1
22.5°	1775.7	1783.9	1751.0	1722.1	1719.8	1759.8	1869.2	2069.3	2124.0	2408.2	2654.7
25°	1944.5	1949.8	1894.5	1827.4	1762.1	1748.6	1843.9	2048.1	2106.3	2394.6	2643.5
27.5°	2151.6	2155.8	2092.2	1993.4	1862.2	1775.1	1835.1	2035.7	2096.3	2382.9	2624.7
30°	2403.5	2422.9	2337.6	2212.8	2021.6	1853.3	1852.7	2029.3	2085.1	2362.9	2587.6
32.5°	2661.2	2669.4	2610.6	2484.1	2236.4	1991.0	1902.2	2034.0	2082.2	2338.7	2540.5
35°	2922.4	2933.0	2894.7	2792.9	2529.9	2192.8	1998.7	2061.6	2100.4	2330.5	2507.6
37.5°	3260.7	3274.8	3221.9	3104.2	2887.1	2466.4	2159.3	2131.0	2156.3	2354.0	2497.6
40°	3795.5	3789.0	3634.3	3459.0	3277.8	2816.5	2388.7	2248.7	2263.4	2429.9	2528.2
42.5°	4418.0	4402.1	4135.6	3860.2	3707.3	3240.1	2692.3	2452.9	2449.9	2579.4	2635.9
45°	4914.6	4901.6	4661.6	4322.1	4199.7	3722.6	3084.8	2757.1	2735.3	2816.5	2834.7
47.5°	5183.5	5184.0	5045.8	4768.7	4765.7	4335.6	3589.0	3197.1	3159.5	3197.7	3178.3
50°	5089.3	5101.7	5087.0	4998.7	5282.3	5139.3	4247.4	3810.8	3734.9	3772.6	3697.8
52.5°	4633.9	4649.8	4736.9	4872.2	5499.4	6110.7	5214.6	4573.3	4485.1	4471.5	4388.6
55°	3826.7	3846.1	4023.8	4391.5	5318.8	6763.2	6740.8	5545.3	5404.7	5277.0	5241.7
57.5°	2637.6	2670.0	2955.9	3501.9	4734.5	6960.3	8558.3	6930.9	6644.9	6199.0	6207.2
60°	1486.8	1524.4	1861.6	2357.6	3555.5	6746.1	9940.9	9029.6	8425.9	7278.6	7339.8
62.5°	945.5	986.1	1242.0	1638.0	2133.4	5593.0	10507.5	11947.2	11180.6	8609.5	8669.5
65°	765.5	783.1	903.7	1352.1	1549.2	3369.5	10077.4	14350.7	14064.8	10298.7	10018.6
67.5°	747.2	753.1	815.5	1134.9	1485.6	1893.9	8038.2	14800.2	15117.3	11876.1	10580.5
70°	738.4	759.0	919.0	1083.2	1422.7	1597.4	4830.4	13568.2	14068.9	12288.5	9832.7
72.5°	358.3	357.1	462.5	979.6	1602.7	1656.8	2481.7	10978.2	11480.7	10646.4	8080.0
75°	288.9	264.2	252.4	358.9	1540.9	1711.0	1581.5	7554.0	7917.6	7138.0	4966.9
77.5°	274.2	244.8	224.2	224.8	651.3	1814.5	1339.7	4180.9	4286.8	3224.2	1360.9
80°	227.1	200.0	185.3	208.9	315.4	1728.0	1448.5	1892.2	1736.3	791.9	453.0
82.5°	157.7	143.6	139.4	175.3	252.4	1231.4	1684.5	1016.7	852.5	396.6	279.5
85°	100.6	85.9	95.3	127.7	196.5	568.4	1735.1	792.5	630.1	251.8	157.7
87.5°	46.5	37.7	47.1	70.6	128.3	195.9	1650.9	890.2	649.0	133.0	99.4
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°	2573.5	2573.5	2573.5	2573.5	2573.5	2573.5	2573.5	2573.5	2573.5	2573.5	2573.5
2.5°	2574.7	2563.5	2554.7	2538.2	2519.9	2502.3	2486.4	2466.4	2460.5	2455.2	2463.5
5°	2582.9	2571.7	2539.4	2488.8	2432.9	2380.5	2328.1	2283.4	2255.8	2240.5	2249.3
7.5°	2595.3	2579.4	2512.3	2419.3	2318.7	2226.9	2132.2	2056.3	2000.4	1973.9	1981.6
10°	2606.4	2575.8	2466.4	2327.0	2179.9	2043.4	1893.9	1770.4	1678.6	1630.3	1642.1
12.5°	2611.1	2562.3	2402.3	2211.6	2009.8	1809.8	1589.7	1405.0	1273.2	1225.0	1215.0
15°	2615.8	2547.0	2331.7	2080.4	1804.5	1521.5	1213.2	992.0	882.5	858.4	853.1
17.5°	2617.0	2520.5	2251.7	1938.1	1563.9	1178.5	829.6	689.0	689.6	728.4	733.1
20°	2604.7	2481.1	2154.6	1761.0	1275.6	814.9	569.5	545.4	634.3	731.3	743.1
22.5°	2576.4	2428.8	2044.6	1554.4	945.5	536.6	440.7	467.2	581.9	700.7	714.3
25°	2540.5	2365.2	1914.5	1315.0	626.0	383.6	369.5	401.9	479.5	558.9	566.6
27.5°	2491.7	2289.9	1768.6	1040.8	406.6	315.9	325.4	347.1	378.9	414.2	417.7
30°	2428.8	2199.9	1612.7	759.0	307.1	284.2	297.7	309.5	323.0	343.0	344.8
32.5°	2356.4	2113.4	1452.7	524.2	272.4	267.7	278.3	284.2	294.8	307.1	308.3
35°	2295.8	2031.0	1286.7	370.7	257.7	255.3	262.4	264.8	274.8	288.3	289.5
37.5°	2261.1	1963.9	1115.5	298.9	247.7	244.2	248.3	248.3	262.4	282.4	285.4
40°	2263.4	1926.9	944.3	270.1	239.5	234.8	235.3	235.3	253.6	275.4	277.1
42.5°	2327.6	1936.3	792.5	258.9	233.0	227.7	224.8	226.5	241.8	255.9	257.1
45°	2478.2	2002.8	650.1	251.8	226.5	224.8	218.3	217.7	223.6	230.0	230.0
47.5°	2725.3	2134.0	553.6	247.1	221.2	220.6	213.0	205.3	204.7	207.1	207.1
50°	3127.1	2359.9	488.9	241.8	217.7	213.0	204.2	192.4	188.3	190.0	190.0
52.5°	3729.6	2762.9	464.2	234.8	210.0	202.4	192.4	180.6	177.1	177.7	177.7
55°	4519.8	3381.9	460.7	226.5	201.8	189.5	181.2	172.4	168.3	169.4	169.4
57.5°	5485.3	4238.0	523.6	213.6	190.6	176.5	171.8	165.9	163.0	164.7	164.2
60°	6659.1	5358.2	776.6	200.0	179.4	164.7	164.7	160.0	157.7	159.4	158.9
62.5°	8011.1	6644.9	1092.0	190.0	167.7	155.3	157.7	155.3	153.0	154.2	153.6
65°	9210.2	7483.4	1022.6	182.4	155.9	146.5	150.6	149.4	147.7	148.9	148.3
67.5°	9244.9	7172.7	574.2	174.2	144.7	137.7	143.6	143.0	141.8	143.0	142.4
70°	8250.6	6056.6	323.6	158.9	133.0	127.1	135.3	134.7	133.6	135.9	135.3
72.5°	6610.2	4395.1	236.5	140.0	121.2	115.9	125.3	124.7	124.7	128.3	126.5
75°	3803.7	2261.7	188.9	120.0	108.8	104.7	113.0	113.6	114.7	119.4	115.9
77.5°	1084.3	704.9	154.2	101.8	93.5	91.8	100.0	101.2	101.8	107.1	102.4
80°	403.0	324.8	127.1	85.3	76.5	77.1	84.7	86.5	87.1	92.4	86.5
82.5°	257.1	214.2	103.0	65.9	60.0	59.4	68.8	71.2	71.2	71.8	68.2
85°	150.0	128.3	77.7	47.7	42.4	40.6	51.2	55.3	53.5	52.4	50.0
87.5°	100.6	88.3	47.7	26.5	22.9	21.8	30.0	32.9	31.8	30.0	28.2
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)