

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: P192830

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192830
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-SL2-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 11538.9 lumens
Efficiency: N/A
Efficacy: 102.1 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

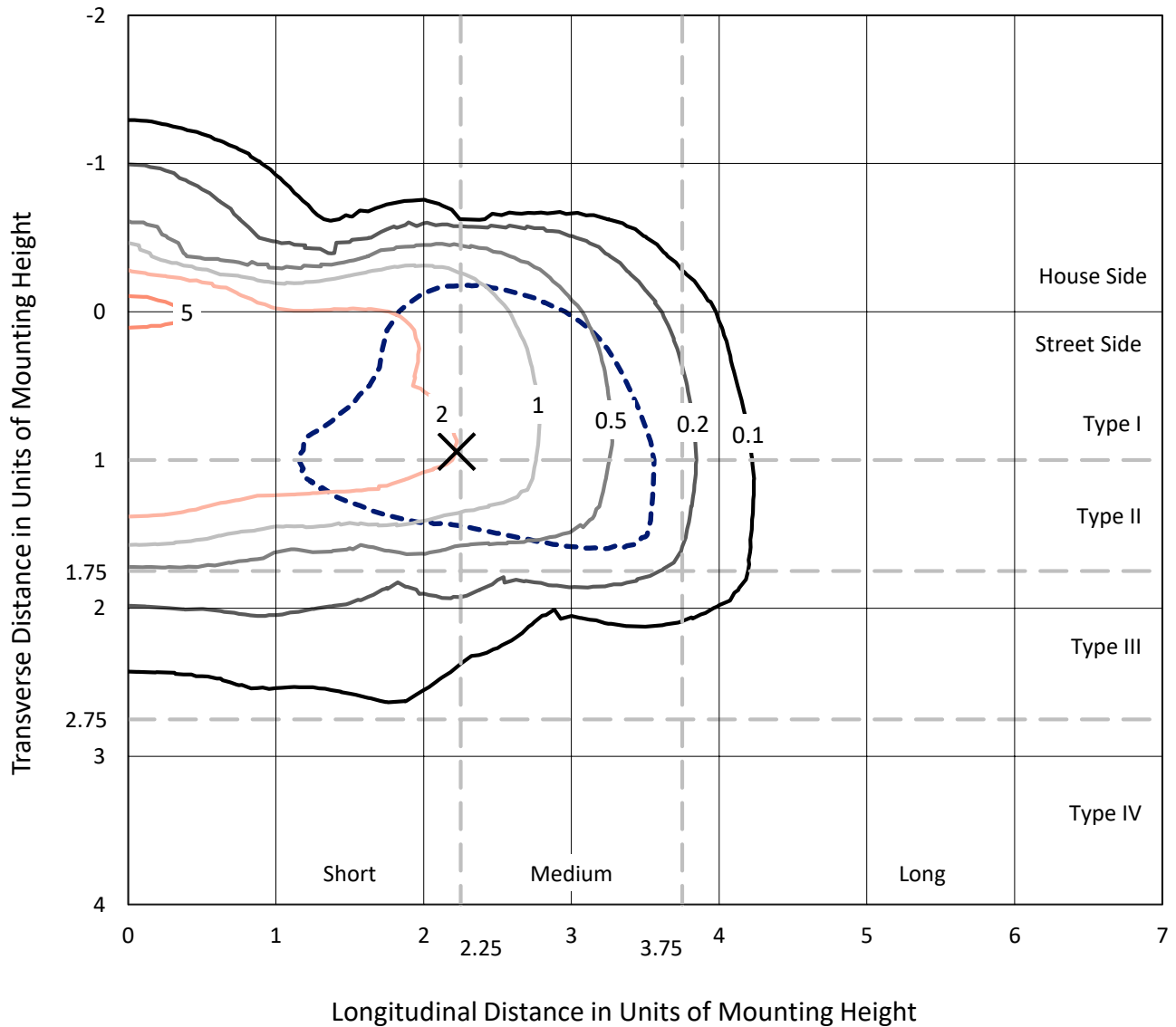
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

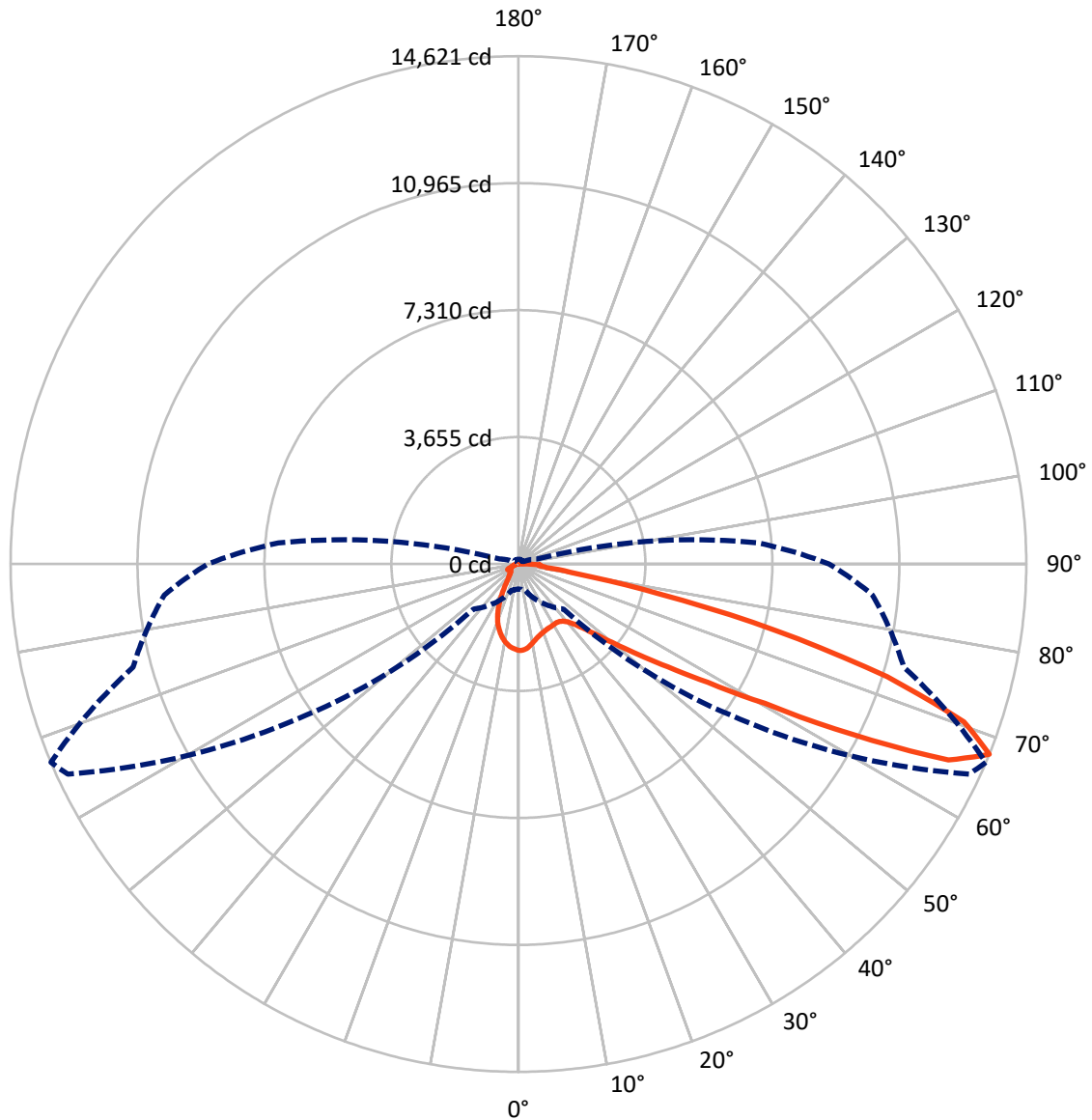
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 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	1911.9	0.0	1911.9
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	9627.0	0.0	9627.0
	% Fixture	83.4	0.0	83.4
Total	Lumens	11538.9	0.0	11538.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.3	1.8
10°-20°	491.3	4.3
20°-30°	666.0	5.8
30°-40°	946.8	8.2
40°-50°	1584.0	13.7
50°-60°	2505.9	21.7
60°-70°	3192.3	27.7
70°-80°	1672.1	14.5
80°-90°	268.2	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°	11538.9	100.0
0°-180°	11538.9	100.0

Coefficient of Utilization



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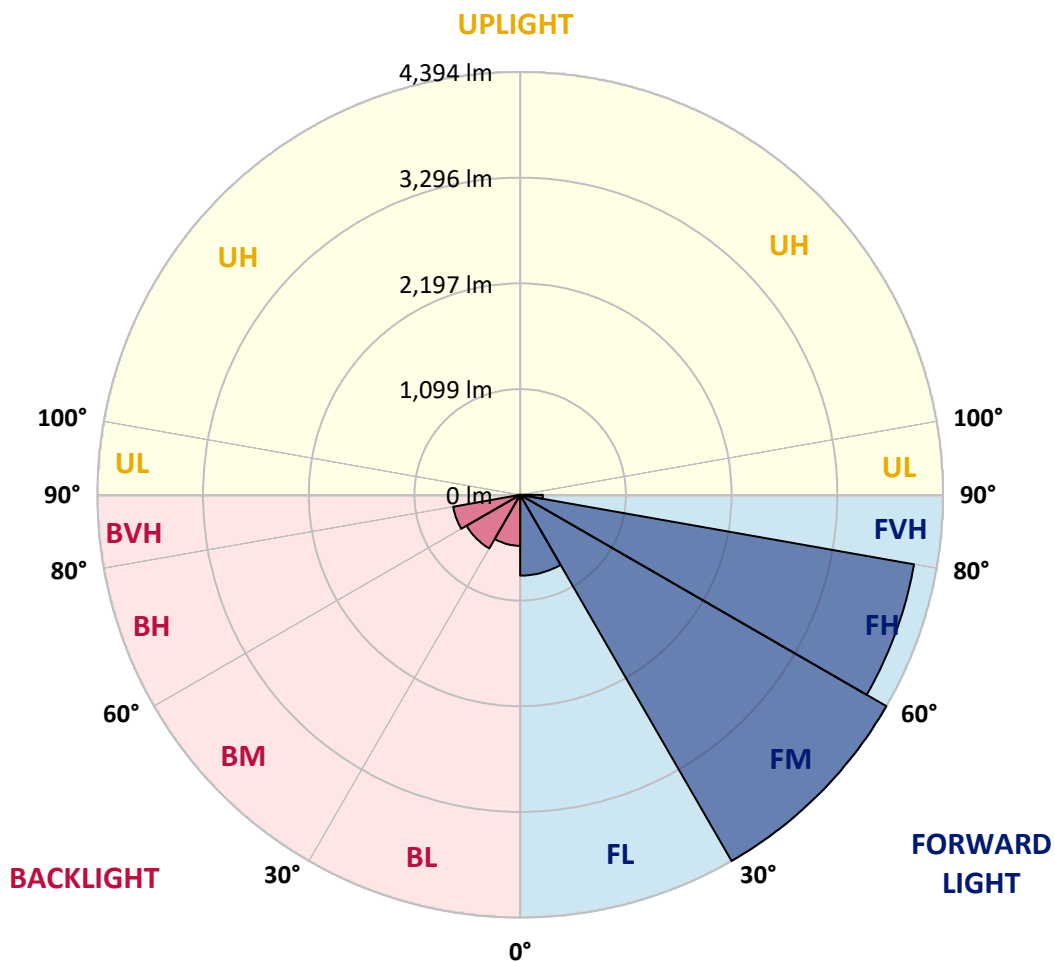
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	839.8	7.3			
FM (30°-60°)	4394.2	38.1			
FH (60°-80°)	4157.2	36.0			G2/5000
FVH (80°-90°)	235.8	2.0			G3/500
BL (0°-30°)	529.9	4.6	B2/1000		
BM (30°-60°)	642.4	5.6	B1/1000		
BH (60°-80°)	707.1	6.1	B2/1000		G2/1000
BVH (80°-90°)	32.4	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°	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9
2.5°	2386.4	2390.5	2402.9	2411.0	2446.8	2462.1	2473.0	2483.8	2485.5	2490.6	2485.5
5°	2136.1	2144.6	2168.0	2194.2	2263.6	2318.2	2375.7	2435.4	2446.2	2484.9	2495.7
7.5°	1942.1	1939.8	1959.1	1990.4	2061.6	2137.2	2237.9	2356.9	2380.2	2467.3	2509.3
10°	1800.4	1798.7	1819.1	1851.6	1919.3	1991.0	2104.8	2267.5	2300.6	2439.4	2522.5
12.5°	1695.7	1696.2	1716.8	1752.6	1821.5	1893.7	2009.2	2181.1	2223.2	2407.0	2536.1
15°	1626.3	1630.8	1647.3	1685.5	1752.6	1824.8	1938.0	2116.3	2163.5	2381.5	2551.5
17.5°	1603.0	1610.4	1616.1	1644.0	1701.3	1773.6	1884.6	2068.4	2118.4	2363.8	2565.2
20°	1624.5	1633.1	1622.3	1632.0	1668.4	1732.1	1842.5	2030.8	2082.1	2343.8	2566.8
22.5°	1717.3	1725.3	1693.4	1665.5	1663.3	1701.9	1807.8	2001.3	2054.2	2329.0	2567.5
25°	1880.6	1885.7	1832.3	1767.4	1704.2	1691.2	1783.3	1980.8	2037.1	2316.0	2556.6
27.5°	2081.0	2084.8	2023.5	1927.9	1800.9	1716.8	1774.8	1968.9	2027.5	2304.5	2538.4
30°	2324.5	2343.3	2260.7	2140.1	1955.2	1792.4	1791.9	1962.6	2016.6	2285.1	2502.6
32.5°	2573.7	2581.7	2524.8	2402.4	2162.9	1925.5	1839.6	1967.1	2013.7	2261.8	2457.0
35°	2826.3	2836.6	2799.5	2701.1	2446.8	2120.7	1933.1	1993.9	2031.4	2253.9	2425.2
37.5°	3153.5	3167.2	3116.0	3002.1	2792.2	2385.3	2088.3	2060.9	2085.4	2276.6	2415.5
40°	3670.8	3664.5	3514.9	3345.3	3170.0	2724.0	2310.3	2174.8	2189.0	2350.0	2445.1
42.5°	4272.8	4257.4	3999.7	3733.4	3585.5	3133.5	2603.8	2372.2	2369.4	2494.6	2549.2
45°	4753.0	4740.5	4508.4	4180.0	4061.7	3600.2	2983.5	2666.5	2645.3	2724.0	2741.6
47.5°	5013.2	5013.7	4879.9	4612.0	4609.1	4193.2	3471.0	3092.0	3055.7	3092.7	3073.9
50°	4922.0	4934.0	4919.7	4834.4	5108.6	4970.4	4107.8	3685.6	3612.1	3648.6	3576.3
52.5°	4481.6	4497.0	4581.2	4712.1	5318.6	5909.9	5043.3	4423.1	4337.7	4324.6	4244.4
55°	3700.9	3719.7	3891.6	4247.2	5143.9	6541.0	6519.3	5363.0	5227.1	5103.6	5069.4
57.5°	2550.8	2582.3	2858.8	3386.8	4578.9	6731.6	8277.1	6703.0	6426.5	5995.3	6003.1
60°	1438.0	1474.4	1800.4	2280.0	3438.6	6524.4	9614.2	8732.8	8149.0	7039.3	7098.6
62.5°	914.4	953.8	1201.2	1584.1	2063.3	5409.1	10162.2	11554.6	10813.2	8326.5	8384.5
65°	740.3	757.3	874.0	1307.7	1498.3	3258.7	9746.3	13878.9	13602.4	9960.2	9689.3
67.5°	722.6	728.3	788.7	1097.6	1436.8	1831.7	7774.1	14313.7	14620.5	11485.8	10232.7
70°	714.1	734.0	888.9	1047.6	1375.9	1544.9	4671.7	13122.2	13606.5	11884.5	9509.5
72.5°	346.6	345.4	447.2	947.4	1550.1	1602.4	2400.1	10617.4	11103.4	10296.5	7814.4
75°	279.3	255.4	244.0	347.1	1490.3	1654.7	1529.5	7305.7	7657.3	6903.4	4803.7
77.5°	265.2	236.8	216.8	217.3	629.9	1754.8	1295.7	4043.4	4146.0	3118.3	1316.1
80°	219.6	193.5	179.3	202.0	305.0	1671.2	1400.9	1830.0	1679.2	765.9	438.1
82.5°	152.5	138.9	134.8	169.6	244.0	1190.9	1629.2	983.3	824.5	383.5	270.3
85°	97.4	83.0	92.3	123.5	190.0	549.7	1678.0	766.5	609.4	243.5	152.5
87.5°	44.9	36.4	45.6	68.3	124.0	189.4	1596.8	861.0	627.5	128.6	96.1
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°	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9	2488.9
2.5°	2490.0	2479.2	2470.7	2454.7	2437.1	2420.1	2404.7	2385.3	2379.6	2374.5	2382.5
5°	2498.0	2487.2	2455.9	2407.0	2352.9	2302.3	2251.7	2208.3	2181.6	2166.8	2175.4
7.5°	2510.0	2494.6	2429.7	2339.8	2242.5	2153.7	2062.2	1988.7	1934.7	1909.1	1916.5
10°	2520.7	2491.2	2385.3	2250.5	2108.2	1976.2	1831.7	1712.2	1623.4	1576.7	1588.2
12.5°	2525.3	2478.1	2323.3	2139.0	1943.8	1750.4	1537.5	1358.8	1231.4	1184.7	1175.1
15°	2529.9	2463.2	2255.0	2012.1	1745.2	1471.5	1173.3	959.4	853.6	830.2	825.1
17.5°	2531.0	2437.7	2177.6	1874.4	1512.4	1139.8	802.3	666.4	666.9	704.5	709.0
20°	2519.1	2399.6	2083.8	1703.2	1233.6	788.1	550.7	527.5	613.4	707.4	718.7
22.5°	2491.7	2349.0	1977.4	1503.4	914.4	519.0	426.2	451.8	562.8	677.7	690.8
25°	2457.0	2287.5	1851.6	1271.8	605.4	371.1	357.4	388.6	463.8	540.7	547.9
27.5°	2409.8	2214.6	1710.5	1006.6	393.3	305.6	314.6	335.8	366.4	400.6	404.0
30°	2349.0	2127.6	1559.6	734.0	297.0	274.8	287.9	299.3	312.4	331.7	333.5
32.5°	2278.9	2043.9	1405.0	507.0	263.5	259.0	269.1	274.8	285.0	297.0	298.2
35°	2220.3	1964.3	1244.5	358.5	249.2	246.9	253.8	256.1	265.7	278.8	279.9
37.5°	2186.8	1899.4	1078.8	289.1	239.6	236.1	240.2	240.2	253.8	273.1	276.0
40°	2189.0	1863.5	913.3	261.1	231.6	227.0	227.6	227.6	245.3	266.3	268.0
42.5°	2251.1	1872.7	766.5	250.4	225.3	220.1	217.3	219.1	233.9	247.5	248.7
45°	2396.7	1936.9	628.8	243.5	219.1	217.3	211.1	210.6	216.3	222.5	222.5
47.5°	2635.7	2063.8	535.5	239.0	213.9	213.4	206.0	198.7	198.0	200.3	200.3
50°	3024.4	2282.3	472.9	233.9	210.6	206.0	197.4	186.1	182.1	183.8	183.8
52.5°	3607.0	2672.2	448.9	227.0	203.1	195.8	186.1	174.7	171.3	171.9	171.9
55°	4371.3	3270.7	445.6	219.1	195.1	183.2	175.3	166.7	162.7	163.9	163.9
57.5°	5305.0	4098.7	506.4	206.6	184.3	170.7	166.2	160.5	157.7	159.3	158.8
60°	6440.2	5182.0	751.1	193.5	173.5	159.3	159.3	154.8	152.5	154.2	153.6
62.5°	7747.8	6426.5	1056.1	183.8	162.1	150.2	152.5	150.2	147.9	149.0	148.5
65°	8907.5	7237.5	989.1	176.4	150.8	141.7	145.7	144.5	142.8	144.0	143.3
67.5°	8941.0	6937.0	555.4	168.5	140.0	133.2	138.9	138.3	137.1	138.3	137.6
70°	7979.4	5857.5	312.9	153.6	128.6	122.9	130.9	130.3	129.2	131.4	130.9
72.5°	6393.0	4250.6	228.8	135.5	117.2	112.1	121.2	120.6	120.6	124.0	122.4
75°	3678.8	2187.4	182.7	116.1	105.2	101.3	109.3	109.8	111.0	115.5	112.1
77.5°	1048.7	681.7	149.0	98.5	90.4	88.7	96.7	97.9	98.5	103.6	99.0
80°	389.7	314.1	122.9	82.5	74.0	74.6	82.0	83.7	84.2	89.4	83.7
82.5°	248.7	207.1	99.5	63.7	58.0	57.5	66.5	68.9	68.9	69.4	66.0
85°	145.1	124.0	75.1	46.1	41.0	39.3	49.5	53.5	51.8	50.7	48.4
87.5°	97.4	85.3	46.1	25.5	22.2	21.1	29.1	31.9	30.7	29.1	27.4
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)