

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: P191951

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11974 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

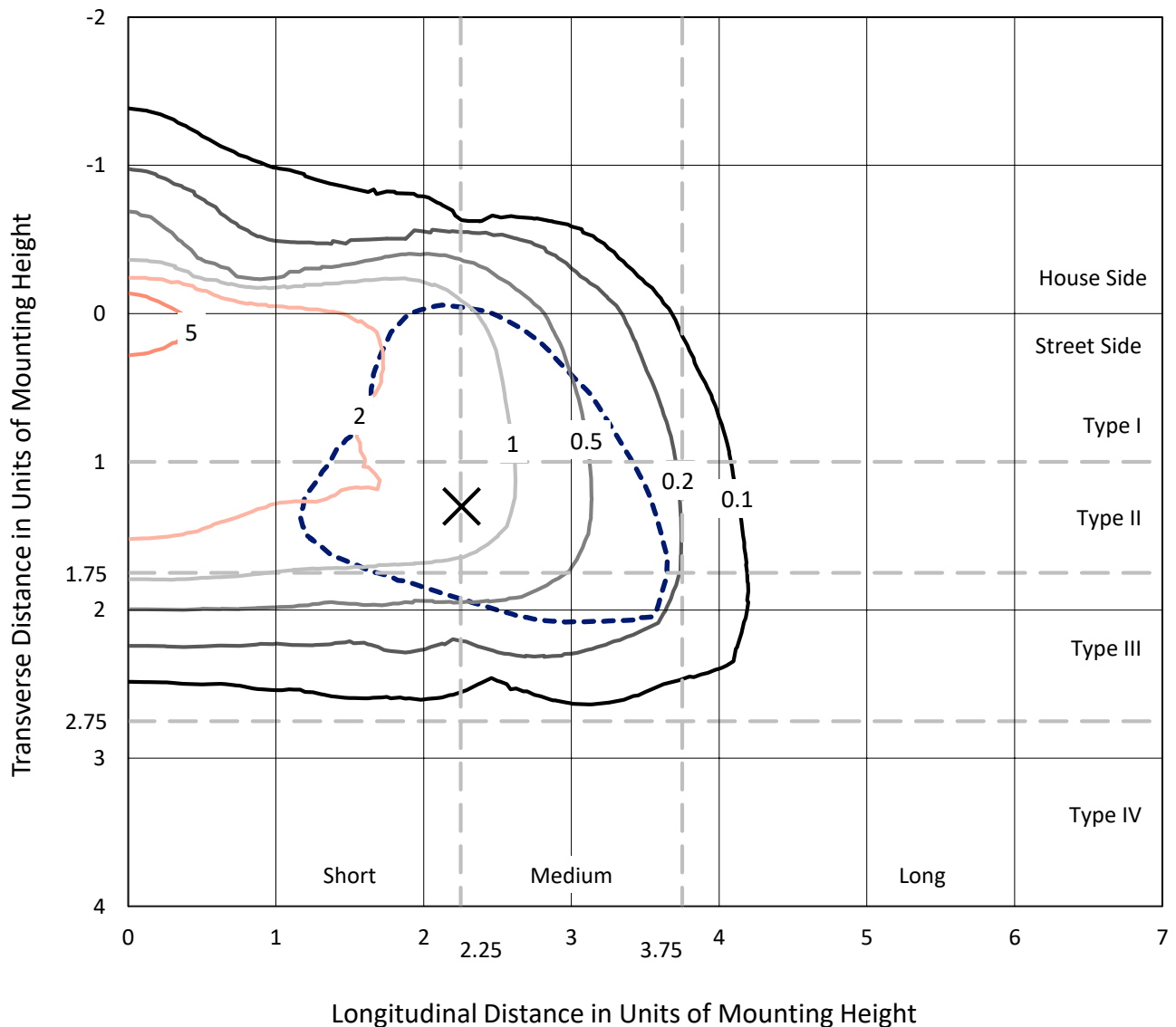
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

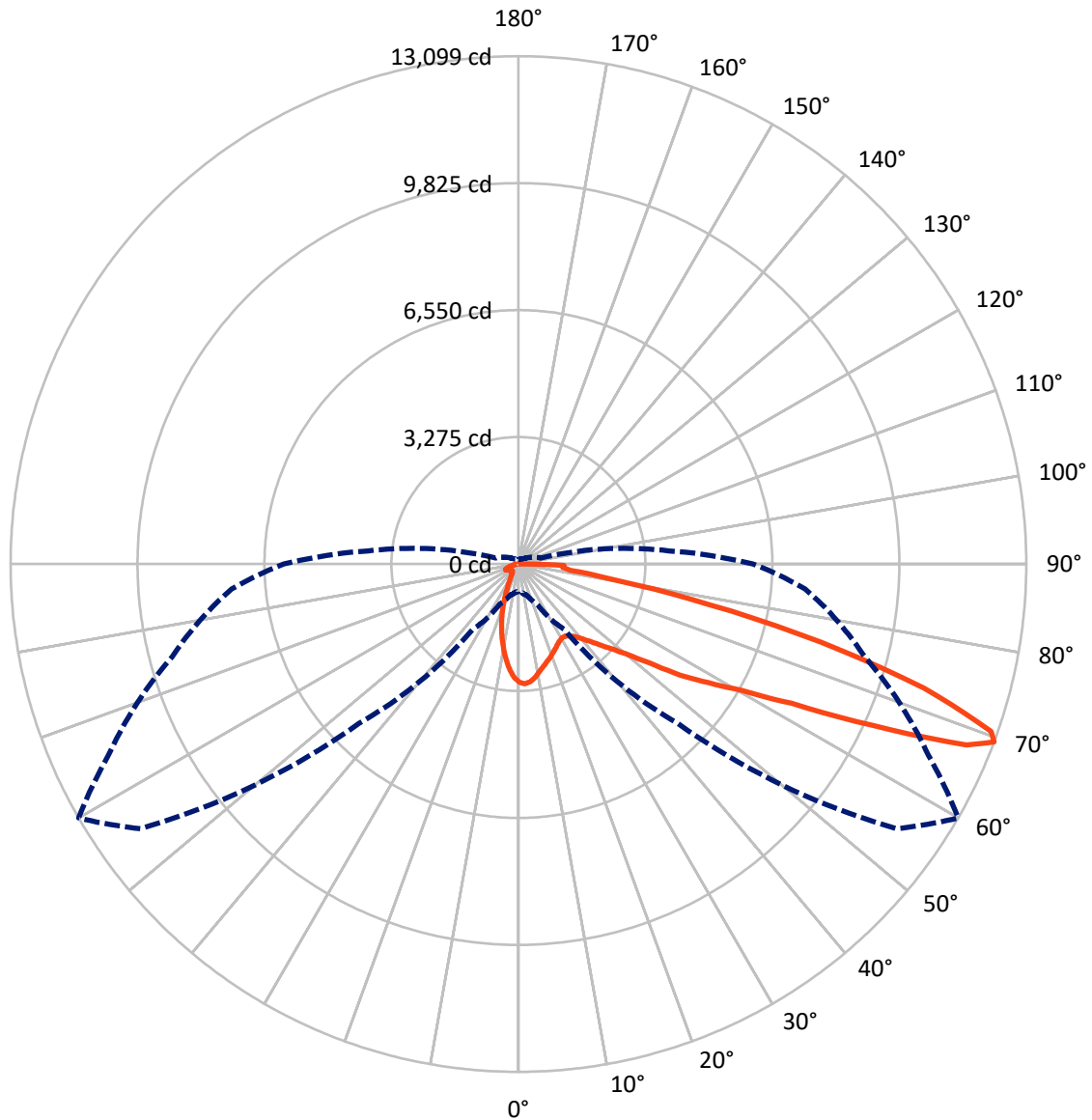
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1703.5	0.0	1703.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	10270.5	0.0	10270.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	11974.0	0.0	11974.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.0	2.2
10°-20°	549.7	4.6
20°-30°	700.4	5.8
30°-40°	962.8	8.0
40°-50°	1562.3	13.0
50°-60°	2505.5	20.9
60°-70°	3334.6	27.8
70°-80°	1800.4	15.0
80°-90°	300.4	2.5
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°	11974.0	100.0
0°-180°	11974.0	100.0

Coefficient of Utilization



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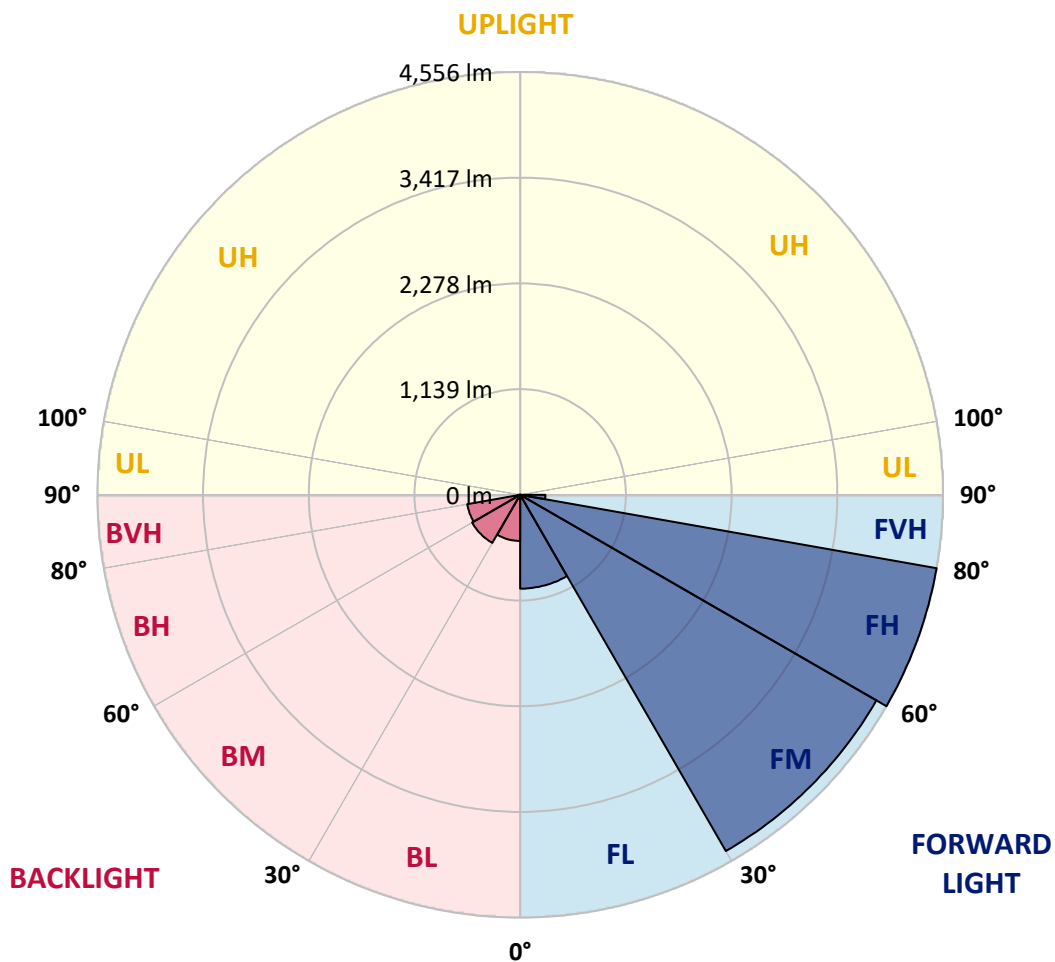
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1011.0	8.4			
FM (30°-60°)	4432.1	37.0			
FH (60°-80°)	4555.9	38.0			G2/5000
FVH (80°-90°)	271.5	2.3			G3/500
BL (0°-30°)	497.0	4.2	B1/500		
BM (30°-60°)	598.5	5.0	B1/1000		
BH (60°-80°)	579.1	4.8	B2/1000		G2/1000
BVH (80°-90°)	28.9	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	3051.2	3051.2	3051.2	3051.2	3051.2	3051.2	3051.2	3051.2	3051.2	3051.2	3051.2
2.5°	3113.6	3120.6	3117.7	3115.9	3121.1	3113.0	3096.3	3091.1	3083.0	3063.9	3031.5
5°	2996.8	3017.6	3016.5	3032.1	3058.1	3065.0	3057.5	3058.7	3043.6	3019.9	2966.1
7.5°	2794.9	2803.6	2808.2	2842.3	2889.8	2928.0	2960.3	2970.8	2963.8	2943.6	2874.2
10°	2586.7	2593.6	2604.6	2644.5	2704.7	2757.3	2818.6	2853.9	2869.0	2865.5	2788.0
12.5°	2408.0	2414.9	2429.4	2474.5	2546.2	2611.0	2700.1	2744.0	2779.9	2801.3	2718.0
15°	2247.7	2262.8	2276.7	2328.7	2409.1	2494.1	2594.8	2650.3	2705.8	2753.8	2656.1
17.5°	2122.8	2137.8	2145.9	2193.4	2279.0	2383.1	2501.1	2566.4	2635.9	2714.5	2594.8
20°	2050.5	2057.4	2054.0	2080.6	2157.5	2268.0	2408.0	2483.7	2567.6	2677.5	2533.5
22.5°	2030.2	2030.8	2018.1	2015.2	2065.0	2158.1	2308.5	2400.4	2503.4	2653.2	2480.8
25°	2079.4	2077.7	2043.0	2014.6	2019.8	2074.2	2212.5	2319.5	2449.6	2648.0	2440.3
27.5°	2188.7	2193.9	2142.5	2089.2	2036.6	2034.9	2139.6	2252.4	2405.6	2671.7	2423.0
30°	2342.0	2350.7	2295.7	2228.1	2129.2	2047.6	2111.2	2212.5	2378.5	2720.9	2420.1
32.5°	2509.8	2519.0	2477.4	2406.2	2276.7	2126.3	2130.9	2215.9	2377.3	2789.7	2439.8
35°	2688.5	2698.9	2677.5	2617.3	2473.3	2271.4	2206.1	2272.0	2414.9	2895.0	2492.4
37.5°	2888.0	2904.2	2910.0	2852.8	2698.9	2462.9	2329.3	2378.5	2499.9	3041.3	2589.0
40°	3175.5	3198.1	3196.3	3114.2	2957.5	2721.5	2519.6	2532.3	2632.4	3236.8	2743.4
42.5°	3726.2	3730.8	3586.8	3408.0	3242.0	2993.3	2744.0	2733.6	2815.2	3484.4	2970.8
45°	4426.6	4407.5	4087.1	3741.8	3539.3	3305.7	3036.1	2985.2	3047.1	3786.3	3255.3
47.5°	5007.9	4964.0	4559.1	4082.5	3854.0	3645.2	3379.1	3290.0	3324.2	4128.8	3623.2
50°	5209.8	5176.8	4841.4	4365.9	4151.9	4059.3	3801.4	3675.3	3684.5	4537.1	4054.1
52.5°	5166.4	5161.8	4938.0	4552.7	4430.7	4494.3	4399.5	4228.8	4138.6	4990.6	4519.2
55°	5064.1	5073.9	4992.9	4770.2	4749.4	4914.2	5180.9	5054.8	4774.3	5448.1	4999.8
57.5°	4708.3	4733.8	4911.9	5043.8	5262.5	5507.7	5810.2	5774.4	5458.5	5942.7	5571.3
60°	3793.3	3852.3	4330.0	4990.6	5790.5	6557.5	6692.9	6609.6	6164.2	6556.4	6326.2
62.5°	2657.8	2719.1	3287.2	4320.8	5703.8	7743.3	8270.8	7911.6	7177.6	7460.4	7303.1
65°	1422.9	1452.4	1886.2	2997.9	4815.3	7988.0	10577.0	10030.4	8782.1	8575.1	8138.9
67.5°	784.9	801.1	967.1	1513.7	3084.1	7034.1	12046.1	12459.1	10787.5	9317.2	7986.8
69°	709.7	724.8	833.5	1146.4	2063.8	5816.0	11902.7	13099.4	11666.7	9243.7	7424.6
70°	694.1	708.0	805.7	1056.8	1670.5	4793.9	11422.0	12935.7	11876.1	8980.5	6934.1
72.5°	624.7	639.7	734.6	949.2	1427.5	2390.0	9047.6	10937.3	10782.3	7786.7	5259.6
75°	582.5	596.3	757.1	929.5	1366.8	1512.6	5964.7	8060.8	7926.1	5447.0	2836.0
77.5°	249.3	248.1	351.1	786.6	1387.0	1464.6	3205.0	5035.7	4594.4	2328.1	814.4
80°	166.6	163.7	166.6	231.4	1271.9	1472.7	1679.1	2556.0	1930.8	593.5	401.4
82.5°	143.4	141.1	146.3	141.1	447.1	1680.9	1427.5	1359.3	917.9	337.2	199.0
85°	96.6	92.5	126.1	126.7	211.1	1493.5	1608.0	1148.2	742.7	200.1	98.3
87.5°	46.3	45.1	73.5	89.7	123.8	606.8	1804.1	1176.5	749.1	102.4	46.9
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°	3051.2	3051.2	3051.2	3051.2	3051.2	3051.2	3051.2	3051.2	3051.2	3051.2	3051.2
2.5°	3021.7	2997.9	2974.8	2947.0	2918.1	2885.7	2869.5	2853.3	2849.3	2844.7	2828.5
5°	2938.4	2904.8	2847.0	2783.3	2716.3	2650.9	2601.1	2569.9	2546.2	2534.1	2512.6
7.5°	2830.8	2781.6	2680.4	2570.5	2457.7	2354.7	2265.7	2209.6	2156.3	2131.5	2103.1
10°	2728.4	2654.9	2497.6	2335.7	2173.7	2018.1	1871.8	1768.2	1676.3	1624.8	1588.3
12.5°	2640.5	2539.8	2321.8	2102.6	1880.4	1658.9	1439.7	1267.3	1123.3	1047.5	1008.8
15°	2554.9	2433.4	2154.6	1876.4	1591.2	1289.9	1001.8	806.3	687.2	639.7	623.5
17.5°	2477.4	2321.8	1986.9	1648.5	1292.8	928.4	673.3	565.7	520.0	504.4	499.2
20°	2393.5	2209.0	1812.8	1410.2	981.6	649.0	525.8	478.4	459.8	455.2	452.9
22.5°	2312.5	2097.9	1646.2	1155.1	705.1	500.9	451.7	432.1	429.2	433.2	433.2
25°	2243.7	1998.4	1466.3	888.5	517.7	421.7	404.3	399.7	410.7	425.7	428.6
27.5°	2192.2	1916.9	1274.8	655.9	412.4	366.7	366.1	373.7	400.8	429.8	435.5
30°	2156.9	1839.4	1070.1	473.1	345.9	322.8	332.0	348.2	388.1	429.2	440.2
32.5°	2139.0	1782.1	856.6	366.1	296.2	283.4	299.0	318.7	358.0	396.2	410.7
35°	2152.9	1739.9	655.3	305.4	261.4	251.6	267.8	286.9	310.0	326.2	337.2
37.5°	2204.9	1723.1	494.5	273.6	237.7	228.5	241.2	252.2	261.4	266.1	271.3
40°	2317.1	1741.0	396.2	257.4	224.4	212.9	218.1	222.1	227.9	232.5	234.8
42.5°	2482.6	1794.8	355.1	251.0	217.5	200.7	199.6	201.3	208.8	217.5	219.2
45°	2713.9	1889.7	352.3	255.1	214.0	190.9	185.7	188.0	199.6	212.9	215.2
47.5°	3009.5	2034.3	375.4	267.2	216.9	185.7	177.0	179.9	194.3	212.3	215.2
50°	3367.6	2236.2	414.1	285.2	229.6	186.8	174.1	175.8	190.9	210.5	213.4
52.5°	3790.4	2522.5	456.4	302.5	242.9	194.3	176.4	172.4	186.3	203.6	207.1
55°	4260.6	2889.8	499.8	318.1	249.9	203.6	181.0	167.7	177.6	192.0	194.9
57.5°	4837.9	3403.4	574.9	333.2	254.5	210.0	185.7	163.1	166.6	177.0	179.3
60°	5619.3	4129.9	707.4	358.0	264.9	212.3	185.1	159.1	155.6	161.4	162.5
62.5°	6555.8	4918.9	817.9	389.3	282.3	214.0	181.6	156.2	146.3	146.3	147.5
65°	7111.7	5130.0	756.6	415.3	296.7	212.3	177.6	153.3	139.4	133.0	133.6
67.5°	6640.2	4511.7	648.4	420.5	296.2	204.2	171.2	148.1	132.5	122.6	122.0
69°	6049.7	3892.8	599.8	406.6	282.3	193.8	163.1	142.3	127.3	116.8	116.3
70°	5573.6	3515.0	568.0	391.6	267.2	186.3	156.8	137.1	123.2	113.4	112.2
72.5°	4052.4	2303.3	485.3	336.6	220.4	156.2	135.3	120.3	109.9	104.1	103.0
75°	2025.0	1098.4	393.9	273.0	168.9	124.9	111.1	100.6	95.4	94.3	93.7
77.5°	665.2	503.2	281.7	203.6	125.5	97.8	89.7	82.1	81.0	84.4	83.3
80°	365.6	292.7	178.7	134.8	85.6	71.7	70.6	66.5	68.3	74.0	72.9
82.5°	186.3	152.1	110.5	81.0	57.8	51.5	56.1	53.8	56.1	61.3	60.7
85°	92.0	83.3	70.0	49.2	38.2	33.0	39.9	41.6	42.8	46.9	46.9
87.5°	53.2	49.2	37.0	23.1	19.1	17.4	23.1	22.6	26.6	28.9	28.3
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)