

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: P193573

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL2-8030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13249 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 162
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

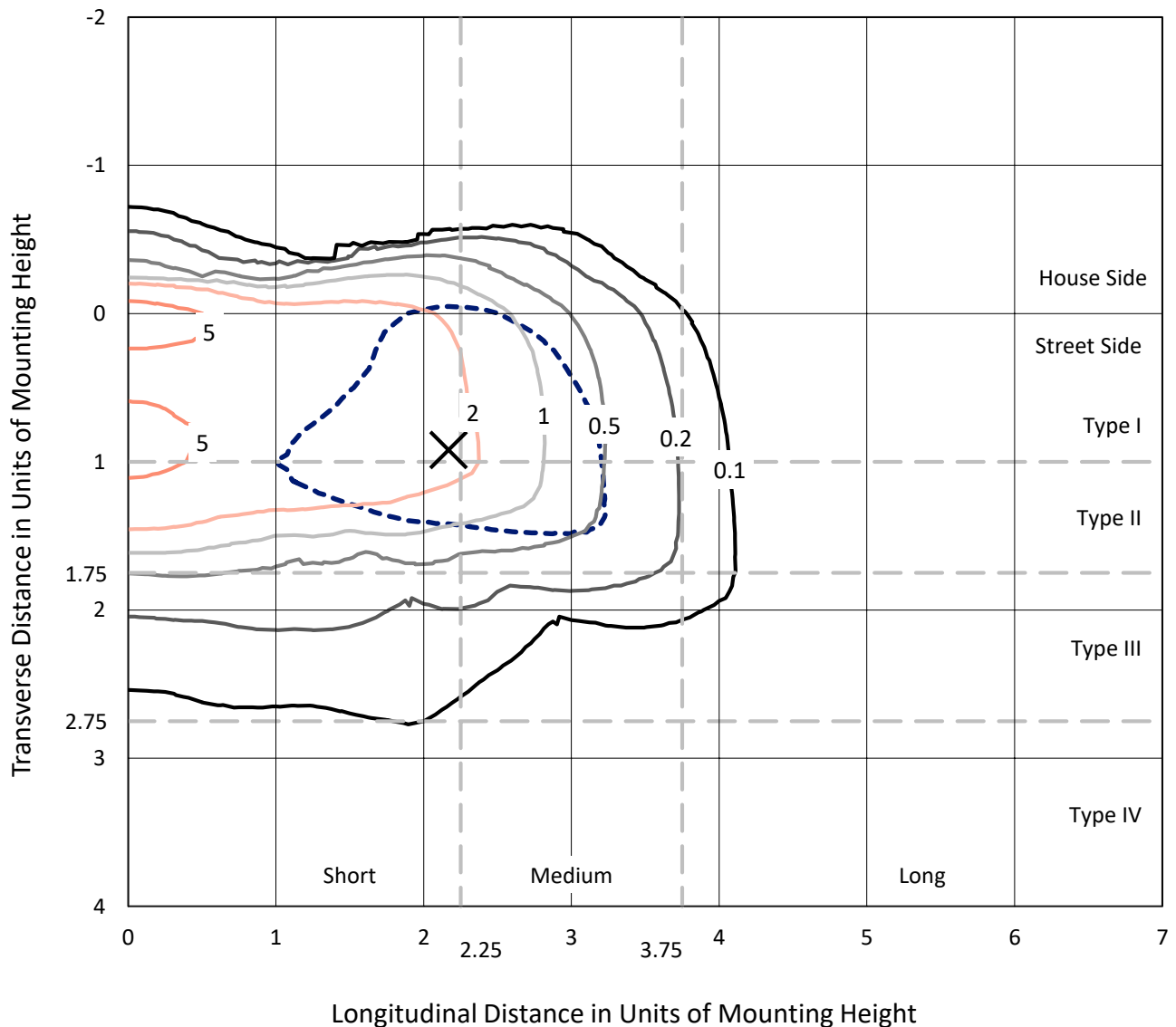


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Iso-Footcandle Lines of Horizontal Illumination

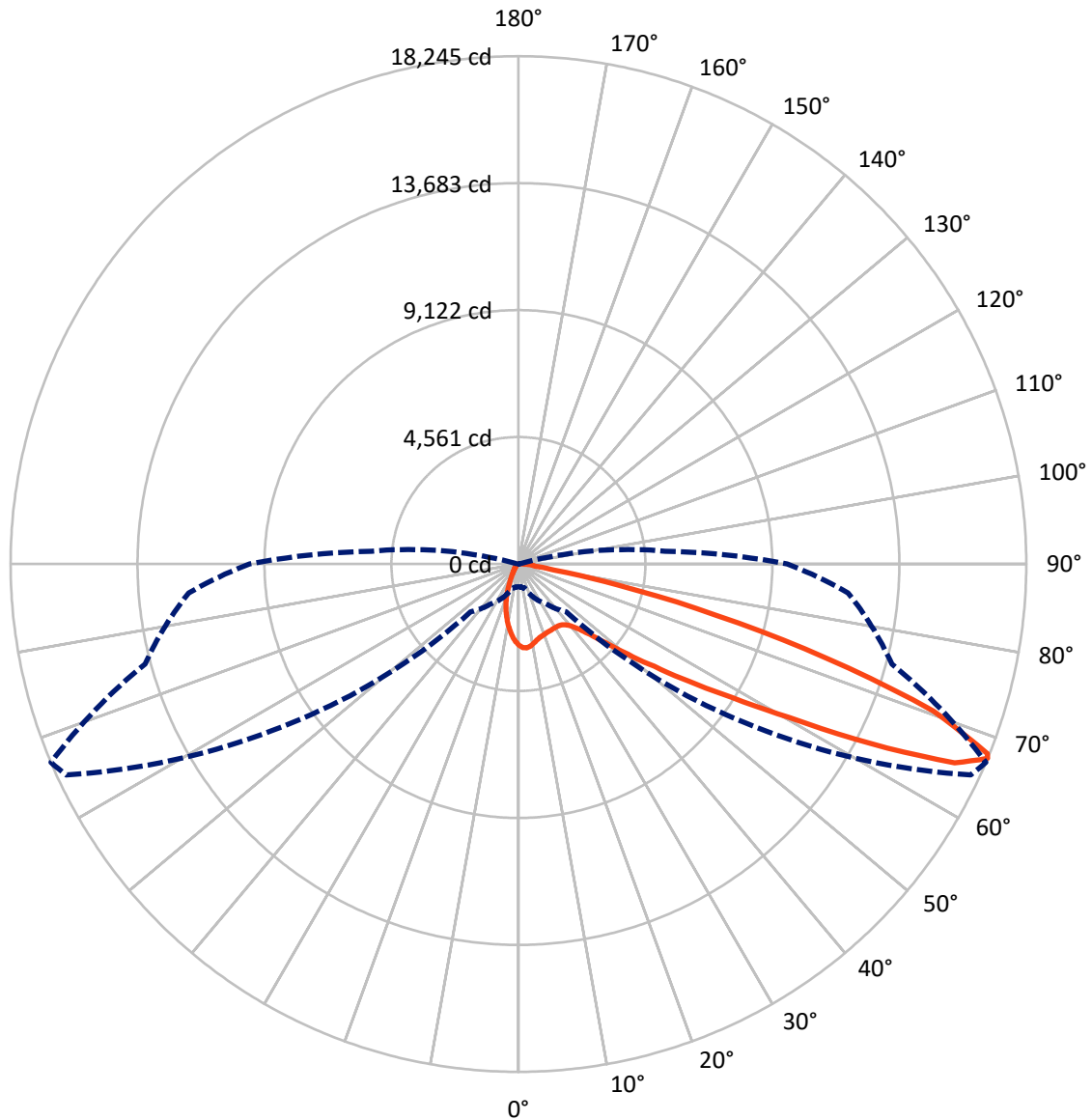
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1375.6	0.0	1375.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	11873.4	0.0	11873.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	13249.0	0.0	13249.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.8	1.8
10°-20°	506.0	3.8
20°-30°	735.7	5.6
30°-40°	1147.7	8.7
40°-50°	2033.2	15.3
50°-60°	3217.3	24.3
60°-70°	3684.9	27.8
70°-80°	1528.5	11.5
80°-90°	157.9	1.2
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°	13249.0	100.0
0°-180°	13249.0	100.0

Coefficient of Utilization



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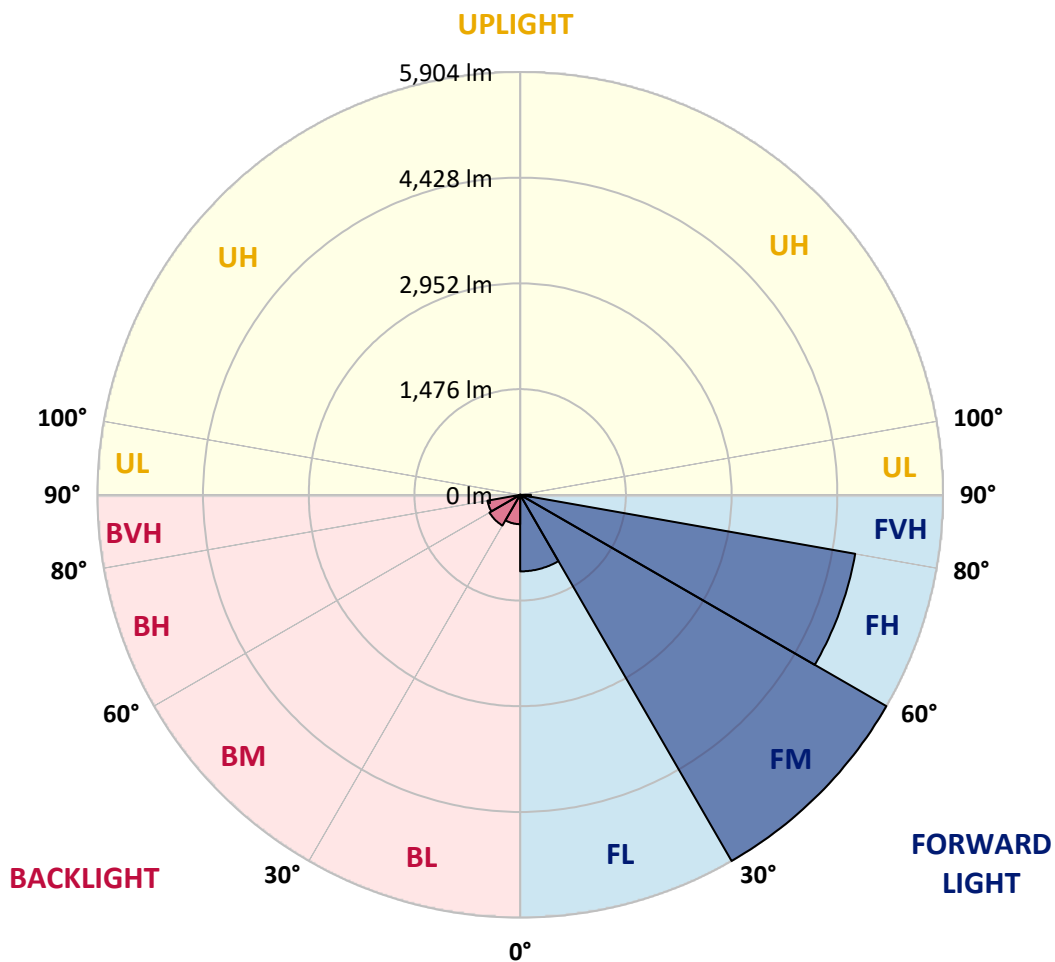
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1069.0	8.1			
FM (30°-60°)	5903.8	44.6			
FH (60°-80°)	4749.8	35.9			G2/5000
FVH (80°-90°)	150.8	1.1			G2/225
BL (0°-30°)	410.5	3.1	B1/500		
BM (30°-60°)	494.4	3.7	B1/1000		
BH (60°-80°)	463.6	3.5	B1/500		G1/500
BVH (80°-90°)	7.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2921.9	2921.9	2921.9	2921.9	2921.9	2921.9	2921.9	2921.9	2921.9	2921.9	2921.9
2.5°	3020.8	3027.0	3026.2	3030.9	3041.7	3042.4	3031.6	3010.8	3006.1	2979.1	2931.9
5°	2785.9	2803.7	2814.5	2858.5	2908.0	2967.5	3012.3	3028.5	3026.2	3006.9	2935.8
7.5°	2517.7	2535.5	2547.9	2599.6	2665.3	2767.3	2884.0	2979.9	2988.4	3009.2	2932.7
10°	2339.2	2342.3	2359.3	2408.8	2477.5	2581.9	2721.0	2888.7	2914.2	2990.7	2925.0
12.5°	2192.4	2194.7	2217.1	2270.4	2343.9	2449.0	2595.0	2789.0	2828.4	2967.5	2923.4
15°	2088.1	2096.6	2116.7	2172.3	2250.3	2354.7	2504.6	2715.6	2762.7	2959.0	2937.3
17.5°	2053.3	2062.6	2068.7	2108.9	2180.0	2282.0	2435.8	2667.6	2721.0	2963.6	2964.4
20°	2089.6	2096.6	2082.7	2092.7	2136.7	2227.9	2377.9	2626.7	2690.1	2969.0	2999.2
22.5°	2224.8	2227.9	2190.1	2146.0	2138.3	2188.5	2332.3	2594.2	2662.2	2983.7	3040.1
25°	2456.7	2451.3	2389.4	2294.4	2204.8	2181.6	2305.2	2574.1	2648.3	2999.2	3082.6
27.5°	2736.4	2744.2	2659.1	2520.8	2350.0	2227.9	2301.3	2565.6	2642.1	3010.0	3119.7
30°	3076.5	3087.3	2989.9	2816.0	2571.1	2342.3	2336.9	2564.1	2638.3	3003.0	3122.8
32.5°	3423.4	3436.6	3360.1	3180.8	2866.3	2534.0	2417.3	2581.1	2646.0	2979.1	3105.0
35°	3786.6	3805.2	3754.2	3600.4	3266.6	2810.6	2558.7	2632.9	2682.3	2976.8	3087.3
37.5°	4288.2	4305.2	4209.4	4046.3	3751.1	3181.5	2785.9	2730.2	2768.1	3013.9	3091.9
40°	5037.0	5034.7	4787.4	4537.8	4283.5	3652.9	3105.0	2906.4	2925.8	3125.9	3149.1
42.5°	5853.1	5849.2	5483.7	5104.2	4874.7	4233.3	3524.7	3210.9	3197.8	3332.2	3297.5
45°	6482.1	6481.3	6183.0	5755.7	5586.5	4899.4	4067.2	3634.4	3614.3	3667.6	3571.0
47.5°	6750.3	6754.9	6605.0	6304.4	6375.5	5800.5	4751.1	4248.0	4217.9	4196.2	4049.4
50°	6541.6	6550.9	6563.2	6504.5	6954.3	7011.5	5668.4	5112.7	5098.1	5001.5	4771.9
52.5°	5860.0	5907.2	6052.4	6238.7	7155.2	8173.7	7106.5	6186.9	6108.1	6005.3	5752.6
55°	4711.7	4763.4	5039.3	5491.4	6856.1	8937.2	9121.9	7571.7	7440.4	7133.6	6768.8
57.5°	3118.2	3198.6	3598.9	4173.8	5987.5	9060.1	11132.7	9493.6	9036.2	8196.1	7785.0
60°	1717.9	1795.2	2229.5	2750.3	4324.5	8452.7	12485.1	11995.9	11187.6	9383.9	9019.2
62.5°	1057.9	1099.7	1420.4	1904.9	2593.5	6671.4	12764.8	15140.4	14204.5	10913.2	10509.9
65°	842.3	860.1	1017.0	1557.2	1859.3	3968.2	11861.5	17537.5	17225.3	12764.8	11844.5
67°	817.6	824.6	898.7	1336.9	1752.7	2432.7	9937.2	17927.8	18244.6	13885.4	11886.2
67.5°	823.0	830.7	901.1	1275.9	1749.6	2235.7	9274.2	17774.0	18174.3	13974.2	11701.5
70°	793.6	817.6	1031.7	1275.1	1663.8	1857.8	5554.0	15400.0	15816.6	12984.3	9928.7
72.5°	281.3	282.8	445.9	1031.7	1809.1	1877.9	2789.0	11289.6	11597.9	9932.6	7158.3
75°	166.9	142.2	148.4	293.7	1728.7	1823.8	1608.9	7213.9	7329.1	5691.5	3625.1
77.5°	115.1	100.5	103.6	129.8	658.4	1798.3	1278.2	3761.9	3639.0	1996.1	772.0
80°	65.7	58.0	61.8	113.6	239.6	1677.7	1205.5	1525.5	1300.6	338.5	213.3
82.5°	34.8	29.4	35.5	93.5	166.9	1045.6	1207.9	737.2	584.2	114.4	145.3
85°	12.4	10.0	17.0	64.1	111.3	320.7	1119.8	619.8	486.9	55.6	110.5
87.5°	2.3	2.3	7.0	26.3	44.8	98.1	662.3	367.8	246.5	33.2	75.7
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°	2921.9	2921.9	2921.9	2921.9	2921.9	2921.9	2921.9	2921.9	2921.9	2921.9	2921.9
2.5°	2912.6	2879.4	2834.6	2779.7	2714.8	2657.6	2615.1	2571.1	2561.8	2546.3	2544.0
5°	2893.3	2836.1	2724.8	2597.3	2461.3	2338.4	2238.8	2149.9	2110.5	2076.5	2072.6
7.5°	2864.7	2778.9	2589.6	2384.0	2171.5	1978.3	1814.5	1698.6	1591.9	1540.9	1533.2
10°	2831.5	2708.6	2437.4	2152.2	1858.5	1585.8	1342.3	1138.3	1014.7	941.3	932.0
12.5°	2800.6	2639.8	2282.0	1911.9	1521.6	1156.9	843.9	649.1	519.3	466.8	460.6
15°	2785.9	2584.2	2136.7	1666.1	1169.2	736.5	461.4	357.0	314.5	302.2	301.4
17.5°	2784.3	2537.0	1994.6	1411.9	819.2	428.1	300.6	274.3	265.8	262.7	262.7
20°	2783.6	2492.2	1852.4	1148.4	520.1	285.2	250.4	244.2	238.0	234.2	234.2
22.5°	2792.1	2452.0	1704.0	879.4	327.7	231.1	220.2	214.1	206.3	200.9	200.2
25°	2800.6	2421.1	1552.5	626.0	237.2	200.9	190.1	181.6	170.8	163.8	163.1
27.5°	2802.1	2382.5	1390.2	418.8	198.6	175.4	161.5	148.4	136.0	129.1	128.3
30°	2778.9	2317.6	1210.2	282.8	175.4	152.2	133.7	119.8	108.2	102.8	102.8
32.5°	2733.3	2237.2	1012.3	213.3	156.1	130.6	110.5	97.4	89.6	87.3	86.6
35°	2692.4	2150.7	809.1	180.8	139.9	110.5	90.4	81.9	77.3	76.5	75.7
37.5°	2668.4	2081.1	618.2	163.8	124.4	92.7	76.5	70.3	68.0	66.5	67.2
40°	2687.0	2023.1	456.7	149.9	109.0	77.3	64.9	61.8	59.5	58.7	58.7
42.5°	2768.1	2013.1	339.3	137.6	94.3	64.1	56.4	54.1	52.5	51.8	52.5
45°	2981.4	2074.9	263.5	126.0	79.6	54.1	47.9	47.1	46.4	46.4	46.4
47.5°	3302.1	2202.4	219.5	112.8	66.5	46.4	41.7	41.0	40.2	41.0	41.0
50°	3845.4	2435.8	196.3	99.7	54.9	39.4	35.5	35.5	35.5	35.5	36.3
52.5°	4671.5	2894.8	180.8	86.6	44.8	33.2	30.1	30.1	30.9	30.9	31.7
55°	5591.9	3503.8	166.9	73.4	37.9	27.8	24.7	25.5	26.3	27.0	27.0
57.5°	6590.3	4178.4	155.3	60.3	32.5	22.4	20.9	21.6	22.4	24.0	24.0
60°	7795.1	4908.7	138.3	47.1	27.0	17.8	16.2	17.8	20.1	21.6	22.4
62.5°	9118.1	5615.0	116.7	37.1	22.4	13.9	13.1	16.2	19.3	20.9	21.6
65°	10022.2	5836.8	89.6	30.1	17.0	10.0	10.8	14.7	18.5	20.9	20.9
67°	9655.9	5292.0	73.4	25.5	13.9	7.7	10.0	14.7	18.5	20.1	20.9
67.5°	9401.7	5078.7	70.3	24.7	13.1	7.7	10.0	14.7	18.5	20.9	20.9
70°	7649.8	3815.2	58.7	18.5	10.8	7.0	8.5	13.9	17.8	20.1	20.1
72.5°	5315.2	2352.4	52.5	13.1	9.3	6.2	7.7	13.1	17.0	19.3	20.1
75°	2527.0	851.6	44.8	10.0	8.5	5.4	7.0	13.1	17.0	19.3	19.3
77.5°	515.4	197.8	36.3	8.5	7.0	5.4	6.2	12.4	16.2	18.5	18.5
80°	169.2	76.5	27.0	7.7	7.0	5.4	6.2	11.6	16.2	17.8	18.5
82.5°	122.1	38.6	17.8	7.7	7.0	5.4	5.4	11.6	15.5	17.8	17.8
85°	93.5	27.0	11.6	7.7	7.0	5.4	5.4	10.8	14.7	17.0	17.0
87.5°	61.8	10.8	9.3	7.7	7.0	5.4	5.4	10.8	13.9	16.2	17.0
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)