

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: P193661

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10236 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 124
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

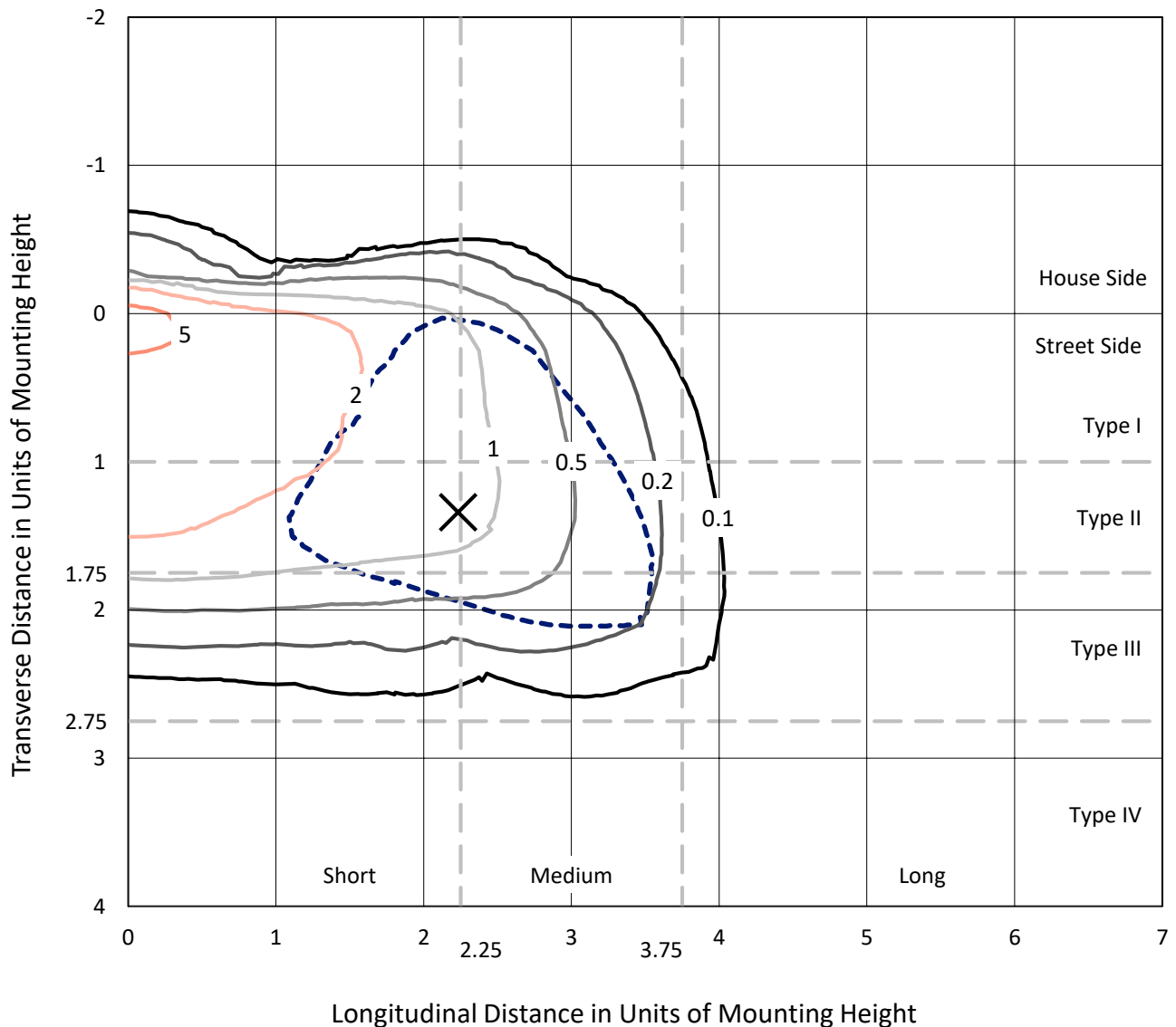


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

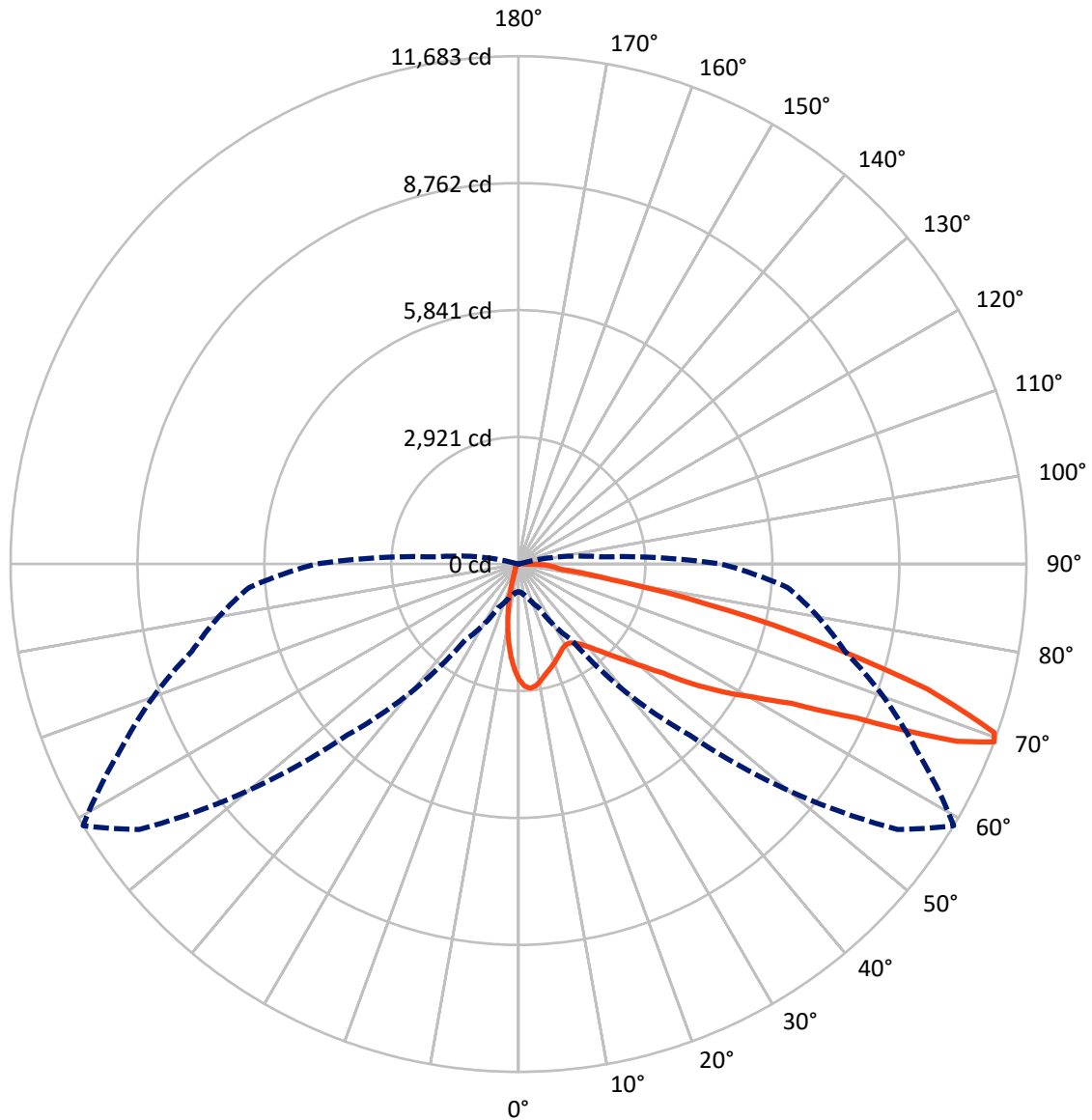


Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	833.6	0.0	833.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	9402.4	0.0	9402.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	10236.0	0.0	10236.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.3	2.1
10°-20°	446.9	4.4
20°-30°	601.3	5.9
30°-40°	873.1	8.5
40°-50°	1453.7	14.2
50°-60°	2267.7	22.2
60°-70°	2806.2	27.4
70°-80°	1422.1	13.9
80°-90°	148.8	1.5
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°	10236.0	100.0
0°-180°	10236.0	100.0



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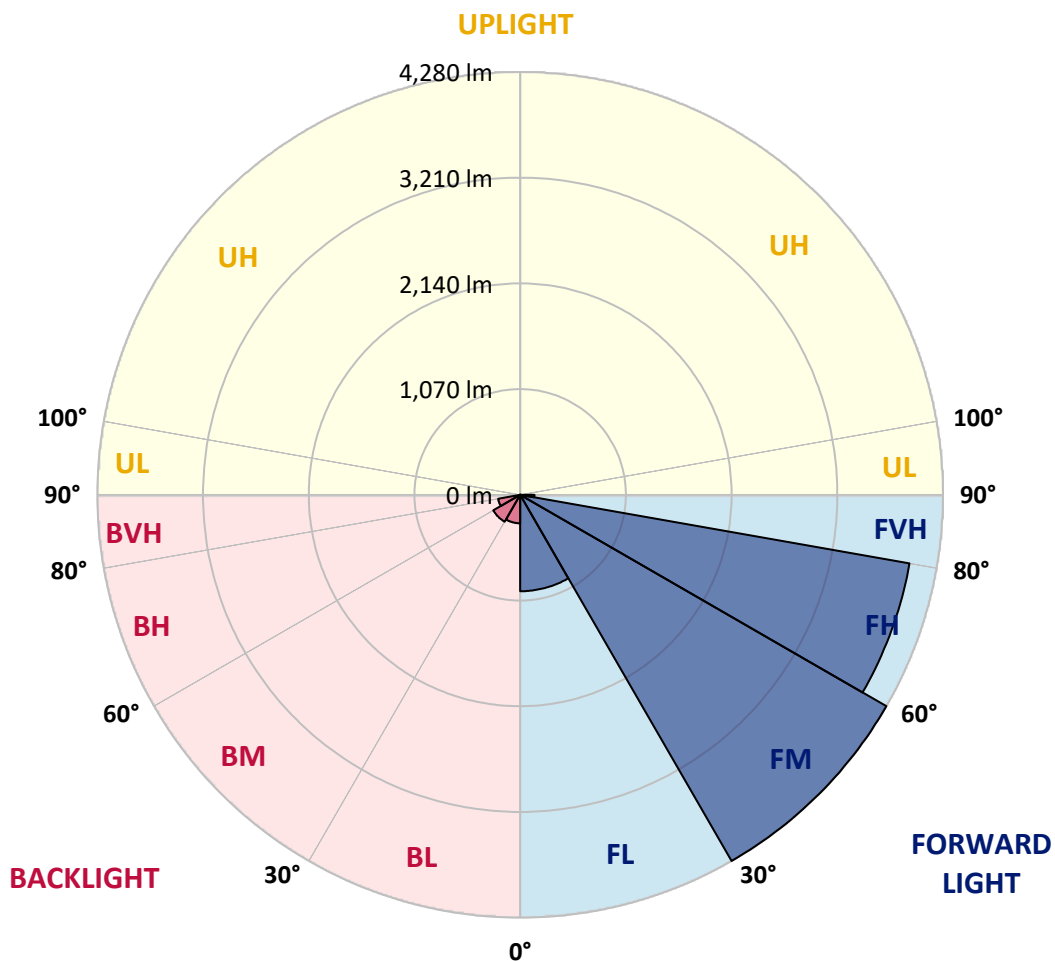
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	975.9	9.5			
FM (30°-60°)	4280.4	41.8			
FH (60°-80°)	4001.9	39.1			G2/5000
FVH (80°-90°)	144.2	1.4			G2/225
BL (0°-30°)	288.5	2.8	B1/500		
BM (30°-60°)	314.1	3.1	B1/1000		
BH (60°-80°)	226.4	2.2	B1/500		G1/500
BVH (80°-90°)	4.6	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3
2.5°	2920.1	2919.0	2906.2	2900.4	2890.0	2868.0	2833.9	2815.9	2787.0	2736.6	2668.9
5°	2893.5	2907.4	2914.9	2915.5	2923.0	2914.9	2884.2	2869.2	2829.3	2748.2	2626.7
7.5°	2712.9	2718.1	2739.5	2758.1	2793.9	2828.1	2839.1	2832.7	2809.0	2722.2	2560.7
10°	2519.6	2524.8	2550.3	2574.6	2623.2	2675.9	2731.4	2743.0	2752.8	2685.1	2497.0
12.5°	2352.9	2358.1	2384.1	2416.0	2472.7	2537.5	2623.8	2642.9	2686.3	2649.8	2446.1
15°	2209.3	2211.7	2237.1	2276.5	2344.2	2427.6	2525.4	2556.1	2622.6	2624.9	2401.5
17.5°	2087.2	2093.0	2108.6	2146.2	2220.3	2323.4	2437.4	2481.4	2559.5	2604.1	2358.1
20°	2012.5	2018.3	2017.8	2038.6	2105.2	2215.1	2349.4	2402.1	2497.0	2582.7	2319.3
22.5°	1998.1	1998.1	1983.0	1980.1	2019.5	2111.5	2258.0	2322.2	2440.9	2573.4	2292.1
25°	2049.6	2047.3	2009.6	1979.0	1980.7	2035.7	2169.4	2245.8	2393.4	2579.8	2277.6
27.5°	2158.4	2155.5	2108.0	2049.6	2002.7	2002.1	2102.3	2184.5	2355.8	2609.9	2283.4
30°	2308.9	2307.7	2256.2	2182.7	2097.6	2019.5	2079.1	2153.8	2331.5	2664.3	2296.7
32.5°	2473.3	2471.5	2432.8	2355.2	2247.5	2097.6	2103.4	2165.9	2338.4	2736.6	2329.2
35°	2647.5	2644.6	2627.8	2560.1	2441.4	2241.8	2183.3	2231.9	2382.4	2844.9	2392.8
37.5°	2836.2	2839.1	2851.2	2786.4	2662.0	2443.8	2317.0	2350.0	2471.0	2991.9	2496.4
40°	3114.6	3114.0	3118.1	3033.0	2913.2	2690.9	2504.0	2514.4	2619.1	3187.0	2653.9
42.5°	3619.9	3584.6	3477.5	3303.9	3183.5	2973.4	2739.5	2728.5	2800.3	3428.3	2874.4
45°	4298.9	4223.6	3945.8	3613.0	3459.0	3291.7	3029.5	2994.2	3039.9	3718.3	3146.4
47.5°	4882.9	4804.8	4411.7	3934.8	3751.3	3593.9	3369.3	3305.6	3320.7	4043.0	3491.4
50°	5081.4	5043.2	4700.0	4214.9	4034.3	3974.1	3763.5	3685.9	3664.5	4418.7	3891.4
52.5°	5012.5	5009.7	4781.0	4396.7	4293.7	4367.7	4259.5	4169.8	4091.1	4814.6	4298.3
55°	4902.0	4916.5	4814.0	4555.9	4552.4	4727.2	4937.9	4863.2	4635.2	5244.7	4649.0
57.5°	4597.0	4658.9	4795.5	4856.8	4999.2	5178.1	5502.8	5546.8	5277.1	5574.0	4940.2
60°	3729.9	3865.9	4312.8	4900.3	5575.2	6020.8	6184.6	6222.3	5803.8	5847.8	5333.2
62.5°	2647.5	2786.4	3353.1	4346.9	5583.8	7128.1	7200.5	7052.9	6383.8	6253.5	6011.0
65°	1405.4	1512.4	1975.5	3137.8	4841.2	7385.1	8976.9	8537.0	7407.1	7051.7	6886.8
67.5°	718.9	751.3	935.4	1535.6	3328.2	6559.7	10569.2	10878.8	9170.8	7843.5	6844.5
69°	636.1	655.2	777.3	1110.2	2131.2	5556.1	10646.7	11682.8	10094.0	7777.5	6220.0
70°	615.9	632.6	743.8	1004.8	1665.8	4659.5	10349.8	11612.2	10330.1	7526.3	5753.4
72.5°	522.7	537.1	662.2	887.9	1353.9	2312.9	8407.3	9839.9	9269.7	6269.7	4164.6
75°	349.6	397.1	635.5	832.3	1259.5	1313.9	5542.7	7110.8	6605.4	4228.8	2169.4
77.5°	83.9	90.3	179.4	662.2	1151.8	1156.5	2850.7	4420.4	3605.4	1507.2	512.8
80°	45.1	43.4	50.4	131.4	1072.5	1085.3	1283.2	2145.7	1287.3	250.0	169.0
82.5°	31.8	30.1	32.4	55.0	337.4	988.6	928.4	971.3	533.7	96.1	75.8
85°	11.6	11.0	17.9	49.8	105.9	568.4	953.9	801.1	432.4	44.0	55.6
87.5°	4.1	3.5	6.9	27.2	32.4	241.9	588.7	605.4	170.2	26.6	26.0
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°	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3	2664.3
2.5°	2640.6	2604.7	2538.7	2471.0	2408.5	2333.2	2295.6	2258.5	2242.9	2237.1	2209.9
5°	2564.2	2503.4	2363.3	2222.7	2093.0	1955.2	1864.4	1791.4	1748.6	1727.8	1694.8
7.5°	2466.3	2366.8	2154.4	1937.3	1735.3	1536.2	1388.6	1275.1	1197.0	1159.4	1125.2
10°	2371.4	2238.9	1936.7	1640.9	1366.6	1102.6	898.9	751.3	657.0	613.5	585.8
12.5°	2286.3	2114.4	1726.6	1352.1	1007.7	698.6	491.4	373.9	315.5	295.2	285.4
15°	2210.5	1999.8	1528.1	1077.8	682.4	399.4	268.6	228.6	219.4	219.4	218.2
17.5°	2138.7	1887.5	1336.5	820.2	428.3	244.3	204.3	199.1	199.1	201.4	201.4
20°	2069.8	1780.4	1151.3	588.7	269.7	193.9	184.6	183.5	184.6	187.5	187.5
22.5°	2010.8	1683.2	978.2	404.0	200.3	174.8	170.2	168.4	169.0	170.8	171.9
25°	1966.8	1601.0	815.0	273.8	172.5	159.2	154.0	151.1	148.8	148.8	149.9
27.5°	1939.0	1531.5	657.0	199.1	155.1	144.7	136.6	132.0	126.8	123.9	125.0
30°	1918.8	1465.6	508.8	162.6	138.9	128.5	118.1	110.6	103.0	99.6	100.7
32.5°	1911.2	1412.3	380.3	143.5	124.4	112.9	100.1	90.3	82.2	79.3	79.9
35°	1931.5	1370.1	278.4	129.7	112.9	98.4	83.9	72.9	66.6	64.8	65.4
37.5°	1984.8	1347.5	208.4	118.1	102.5	86.2	70.0	59.6	55.6	55.6	56.1
40°	2085.5	1346.9	167.3	110.0	93.2	74.7	57.9	50.4	48.0	49.2	49.8
42.5°	2232.5	1377.6	145.9	102.5	85.1	63.7	48.0	42.8	42.3	43.4	44.0
45°	2433.3	1433.7	134.3	96.1	76.4	53.3	40.5	37.0	37.0	38.8	39.4
47.5°	2679.3	1515.9	124.4	89.7	67.7	44.6	34.7	32.4	33.0	34.7	35.3
50°	2975.7	1619.5	114.6	82.8	61.4	37.0	30.1	28.4	28.9	31.3	31.8
52.5°	3313.1	1759.0	106.5	76.4	53.3	30.7	25.5	24.3	25.5	27.8	28.4
55°	3602.5	1884.0	96.7	71.2	42.8	25.5	20.8	20.8	22.0	24.9	25.5
57.5°	3881.0	2014.9	88.0	61.4	33.6	20.3	17.4	17.9	19.7	22.6	23.2
60°	4289.6	2236.5	77.6	51.5	25.5	16.2	14.5	15.0	17.4	20.3	20.8
62.5°	4983.6	2574.0	67.1	42.8	19.7	12.7	11.6	12.7	15.6	19.1	19.7
65°	5609.9	2711.2	55.0	35.9	15.0	9.8	9.8	11.6	15.0	18.5	19.1
67.5°	5260.9	2282.3	42.8	28.4	11.6	7.5	8.1	11.0	14.5	18.5	19.1
69°	4652.5	1866.1	36.5	22.6	9.8	6.9	7.5	11.0	14.5	17.9	18.5
70°	4178.5	1575.5	32.4	19.1	8.7	6.9	7.5	10.4	14.5	17.9	18.5
72.5°	2798.6	850.9	26.0	13.9	8.1	6.4	6.4	10.4	13.9	17.4	17.9
75°	1202.8	235.0	20.8	9.8	6.9	5.8	5.8	9.8	13.3	16.8	17.9
77.5°	220.0	59.6	16.8	8.7	6.9	5.8	5.2	9.3	12.7	16.2	16.8
80°	87.4	29.5	13.3	7.5	6.4	5.2	4.6	8.7	12.2	15.6	16.2
82.5°	52.7	16.8	11.0	6.9	6.4	4.6	4.1	7.5	11.6	15.0	15.6
85°	42.8	11.6	8.7	6.9	5.8	4.6	3.5	6.9	10.4	14.5	15.0
87.5°	20.8	8.1	8.1	6.4	5.8	4.6	3.5	6.4	9.8	13.9	14.5
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)