

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: P193652

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193652
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-04-LED-E1-SL3-8030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA 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: 11029 lumens
Efficiency: N/A
Efficacy: 85.5 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): 129
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

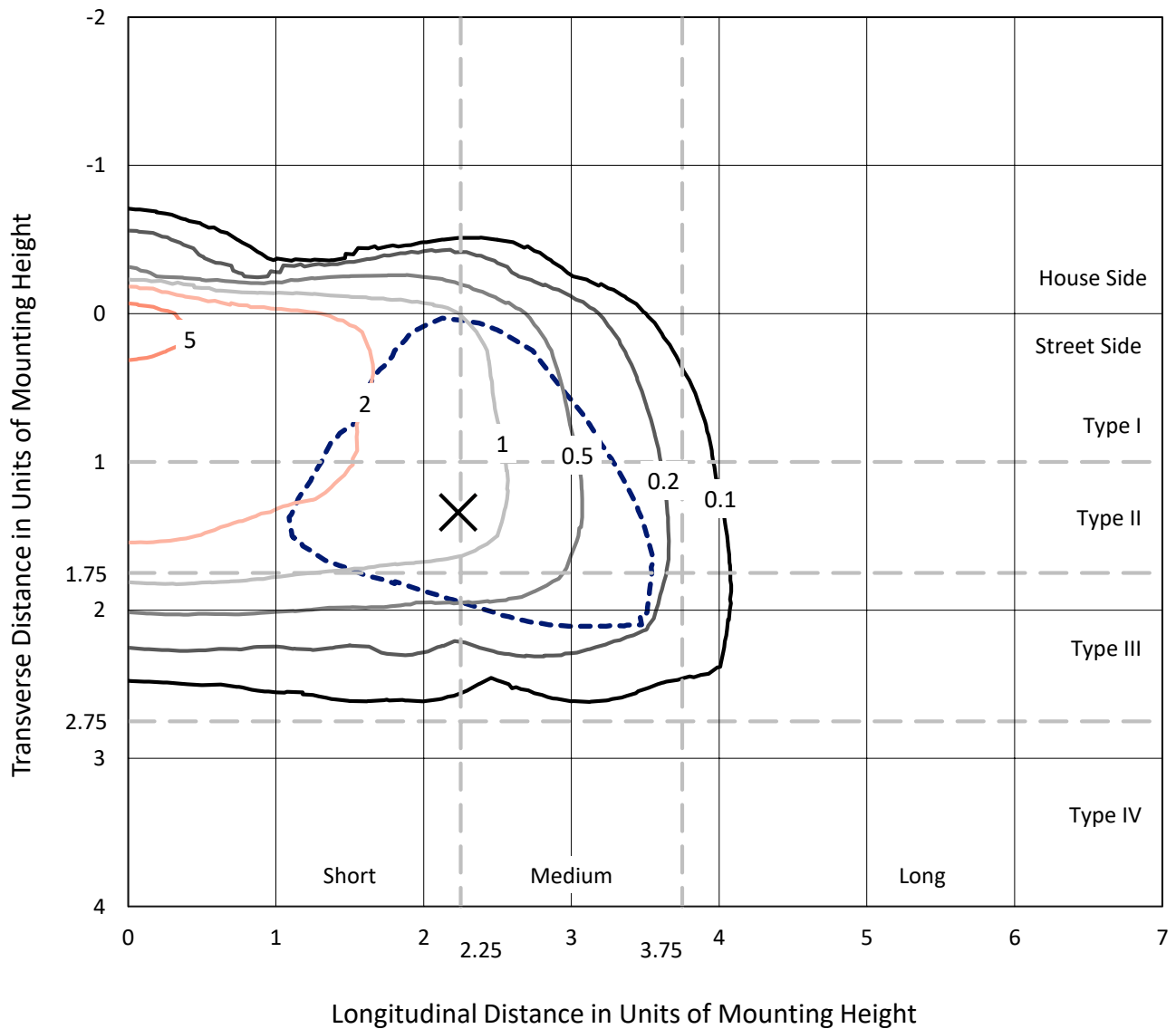


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

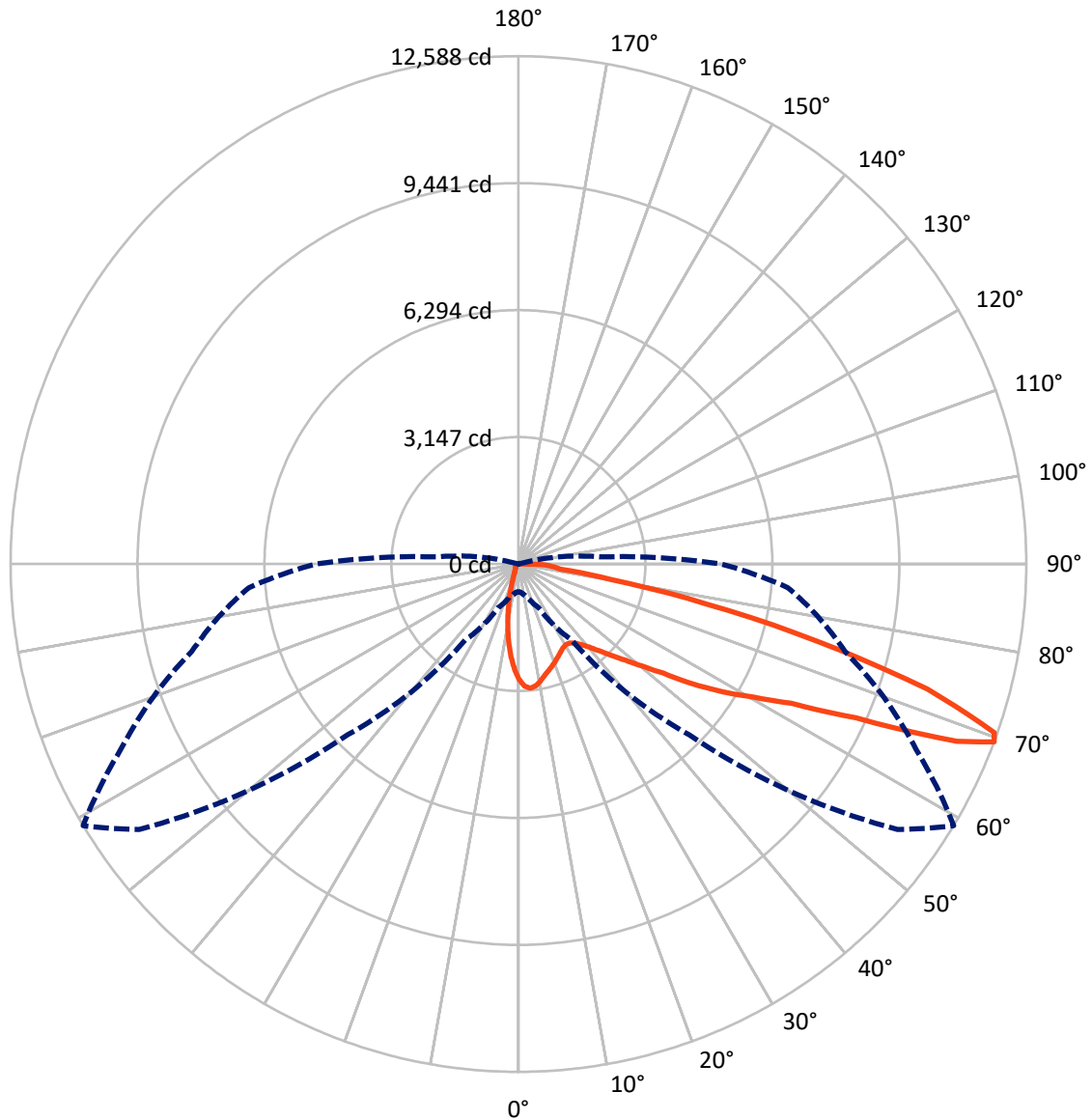


Based on 20 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - Non-Cutoff

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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	898.2	0.0	898.2
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	10130.8	0.0	10130.8
	% Fixture	91.9	0.0	91.9
Total	Lumens	11029.0	0.0	11029.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.0	2.1
10°-20°	481.5	4.4
20°-30°	647.9	5.9
30°-40°	940.7	8.5
40°-50°	1566.3	14.2
50°-60°	2443.4	22.2
60°-70°	3023.6	27.4
70°-80°	1532.3	13.9
80°-90°	160.3	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°	11029.0	100.0
0°-180°	11029.0	100.0



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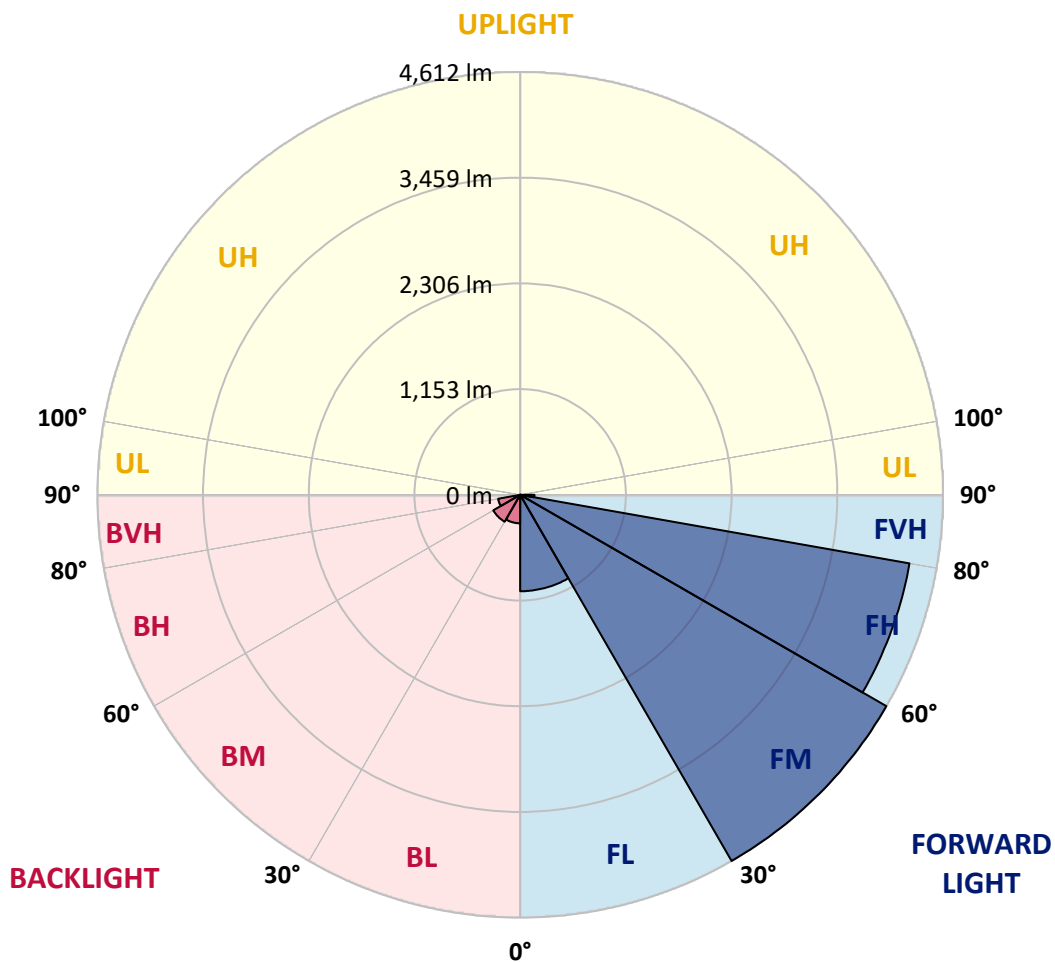
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1051.5	9.5			
FM	(30°-60°)	4612.0	41.8			
FH	(60°-80°)	4311.9	39.1			G2/5000
FVH	(80°-90°)	155.4	1.4			G2/225
BL	(0°-30°)	310.9	2.8	B1/500		
BM	(30°-60°)	338.4	3.1	B1/1000		
BH	(60°-80°)	243.9	2.2	B1/500		G1/500
BVH	(80°-90°)	4.9	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°	2870.7	2870.7	2870.7	2870.7	2870.7	2870.7	2870.7	2870.7	2870.7	2870.7	2870.7
2.5°	3146.4	3145.1	3131.4	3125.1	3113.9	3090.2	3053.4	3034.1	3002.9	2948.7	2875.7
5°	3117.7	3132.6	3140.7	3141.4	3149.5	3140.7	3107.7	3091.5	3048.4	2961.1	2830.2
7.5°	2923.1	2928.7	2951.8	2971.7	3010.4	3047.2	3059.0	3052.2	3026.6	2933.1	2759.1
10°	2714.8	2720.4	2747.8	2774.0	2826.4	2883.2	2943.0	2955.5	2966.1	2893.1	2690.5
12.5°	2535.2	2540.8	2568.8	2603.1	2664.3	2734.1	2827.0	2847.6	2894.4	2855.1	2635.6
15°	2380.5	2383.0	2410.4	2452.8	2525.8	2615.6	2721.0	2754.1	2825.8	2828.3	2587.6
17.5°	2248.9	2255.1	2272.0	2312.5	2392.4	2503.4	2626.2	2673.6	2757.8	2805.8	2540.8
20°	2168.5	2174.7	2174.1	2196.5	2268.2	2386.7	2531.4	2588.2	2690.5	2782.8	2499.0
22.5°	2152.9	2152.9	2136.7	2133.5	2175.9	2275.1	2432.9	2502.1	2630.0	2772.8	2469.7
25°	2208.4	2205.9	2165.3	2132.3	2134.2	2193.4	2337.5	2419.8	2578.8	2779.6	2454.1
27.5°	2325.6	2322.5	2271.4	2208.4	2157.9	2157.2	2265.1	2353.7	2538.3	2812.1	2460.3
30°	2487.8	2486.5	2431.0	2351.8	2260.1	2175.9	2240.2	2320.6	2512.1	2870.7	2474.7
32.5°	2664.9	2663.0	2621.2	2537.7	2421.7	2260.1	2266.4	2333.7	2519.6	2948.7	2509.6
35°	2852.6	2849.5	2831.4	2758.4	2630.6	2415.4	2352.4	2404.8	2567.0	3065.3	2578.2
37.5°	3055.9	3059.0	3072.1	3002.3	2868.2	2633.1	2496.5	2532.1	2662.4	3223.7	2689.8
40°	3355.9	3355.3	3359.6	3268.0	3138.9	2899.4	2697.9	2709.2	2822.1	3433.9	2859.5
42.5°	3900.4	3862.3	3746.9	3559.8	3430.1	3203.7	2951.8	2939.9	3017.3	3693.9	3097.1
45°	4631.9	4550.8	4251.5	3892.9	3727.0	3546.7	3264.2	3226.2	3275.5	4006.4	3390.2
47.5°	5261.2	5177.0	4753.5	4239.6	4041.9	3872.3	3630.3	3561.7	3577.9	4356.2	3761.9
50°	5475.1	5433.9	5064.1	4541.5	4346.9	4282.0	4055.0	3971.5	3948.4	4761.0	4192.9
52.5°	5400.9	5397.8	5151.4	4737.3	4626.3	4706.1	4589.5	4492.8	4408.0	5187.6	4631.3
55°	5281.8	5297.3	5187.0	4908.8	4905.1	5093.4	5320.4	5240.0	4994.3	5651.0	5009.2
57.5°	4953.1	5019.8	5167.0	5233.1	5386.5	5579.2	5929.1	5976.5	5685.9	6005.8	5322.9
60°	4018.8	4165.4	4646.9	5279.9	6007.1	6487.3	6663.8	6704.3	6253.4	6300.8	5746.4
62.5°	2852.6	3002.3	3612.8	4683.7	6016.4	7680.3	7758.3	7599.3	6878.3	6738.0	6476.7
65°	1514.2	1629.6	2128.5	3380.8	5216.3	7957.2	9672.3	9198.3	7980.9	7598.0	7420.3
67.5°	774.6	809.5	1007.8	1654.6	3586.0	7067.9	11388.0	11721.6	9881.2	8451.2	7374.8
69°	685.4	706.0	837.6	1196.2	2296.3	5986.5	11471.6	12587.9	10876.0	8380.1	6701.8
70°	663.6	681.7	801.4	1082.7	1794.9	5020.4	11151.6	12511.8	11130.4	8109.4	6199.2
72.5°	563.2	578.8	713.5	956.7	1458.7	2492.1	9058.6	10602.2	9987.9	6755.5	4487.2
75°	376.7	427.8	684.8	896.8	1357.1	1415.7	5972.1	7661.6	7117.2	4556.4	2337.5
77.5°	90.4	97.3	193.3	713.5	1241.1	1246.1	3071.5	4762.9	3884.8	1624.0	552.6
80°	48.6	46.8	54.3	141.6	1155.6	1169.4	1382.6	2311.9	1387.0	269.4	182.1
82.5°	34.3	32.4	34.9	59.2	363.6	1065.2	1000.3	1046.5	575.0	103.5	81.7
85°	12.5	11.8	19.3	53.6	114.1	612.4	1027.8	863.1	465.9	47.4	59.9
87.5°	4.4	3.7	7.5	29.3	34.9	260.7	634.3	652.3	183.4	28.7	28.1
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°	2870.7	2870.7	2870.7	2870.7	2870.7	2870.7	2870.7	2870.7	2870.7	2870.7	2870.7
2.5°	2845.1	2806.5	2735.4	2662.4	2595.0	2514.0	2473.4	2433.5	2416.7	2410.4	2381.1
5°	2762.8	2697.3	2546.4	2394.8	2255.1	2106.7	2008.8	1930.2	1884.1	1861.6	1826.1
7.5°	2657.4	2550.1	2321.3	2087.4	1869.7	1655.2	1496.2	1373.9	1289.7	1249.2	1212.4
10°	2555.1	2412.3	2086.8	1768.1	1472.5	1188.1	968.5	809.5	707.9	661.1	631.1
12.5°	2463.4	2278.2	1860.4	1456.9	1085.8	752.8	529.5	402.9	339.9	318.1	307.5
15°	2381.7	2154.7	1646.5	1161.3	735.3	430.3	289.4	246.3	236.4	236.4	235.1
17.5°	2304.4	2033.7	1440.0	883.7	461.5	263.2	220.2	214.5	214.5	217.0	217.0
20°	2230.2	1918.4	1240.5	634.3	290.6	208.9	198.9	197.7	198.9	202.1	202.1
22.5°	2166.6	1813.6	1054.0	435.3	215.8	188.3	183.4	181.5	182.1	184.0	185.2
25°	2119.2	1725.0	878.1	295.0	185.8	171.5	165.9	162.8	160.3	160.3	161.5
27.5°	2089.3	1650.2	707.9	214.5	167.1	155.9	147.2	142.2	136.6	133.5	134.7
30°	2067.4	1579.1	548.2	175.2	149.7	138.5	127.2	119.1	111.0	107.3	108.5
32.5°	2059.3	1521.7	409.7	154.7	134.1	121.6	107.9	97.3	88.6	85.4	86.1
35°	2081.1	1476.2	300.0	139.7	121.6	106.0	90.4	78.6	71.7	69.8	70.5
37.5°	2138.5	1451.9	224.5	127.2	110.4	92.9	75.5	64.2	59.9	59.9	60.5
40°	2247.0	1451.3	180.2	118.5	100.4	80.5	62.4	54.3	51.8	53.0	53.6
42.5°	2405.4	1484.3	157.2	110.4	91.7	68.6	51.8	46.2	45.5	46.8	47.4
45°	2621.9	1544.8	144.7	103.5	82.3	57.4	43.7	39.9	39.9	41.8	42.4
47.5°	2886.9	1633.4	134.1	96.7	73.0	48.0	37.4	34.9	35.5	37.4	38.0
50°	3206.2	1745.0	123.5	89.2	66.1	39.9	32.4	30.6	31.2	33.7	34.3
52.5°	3569.8	1895.3	114.8	82.3	57.4	33.1	27.4	26.2	27.4	29.9	30.6
55°	3881.6	2030.0	104.2	76.7	46.2	27.4	22.5	22.5	23.7	26.8	27.4
57.5°	4181.6	2171.0	94.8	66.1	36.2	21.8	18.7	19.3	21.2	24.3	24.9
60°	4621.9	2409.8	83.6	55.5	27.4	17.5	15.6	16.2	18.7	21.8	22.5
62.5°	5369.7	2773.4	72.3	46.2	21.2	13.7	12.5	13.7	16.8	20.6	21.2
65°	6044.5	2921.2	59.2	38.7	16.2	10.6	10.6	12.5	16.2	20.0	20.6
67.5°	5668.4	2459.1	46.2	30.6	12.5	8.1	8.7	11.8	15.6	20.0	20.6
69°	5013.0	2010.7	39.3	24.3	10.6	7.5	8.1	11.8	15.6	19.3	20.0
70°	4502.2	1697.6	34.9	20.6	9.4	7.5	8.1	11.2	15.6	19.3	20.0
72.5°	3015.4	916.8	28.1	15.0	8.7	6.9	6.9	11.2	15.0	18.7	19.3
75°	1296.0	253.2	22.5	10.6	7.5	6.2	6.2	10.6	14.3	18.1	19.3
77.5°	237.0	64.2	18.1	9.4	7.5	6.2	5.6	10.0	13.7	17.5	18.1
80°	94.2	31.8	14.3	8.1	6.9	5.6	5.0	9.4	13.1	16.8	17.5
82.5°	56.8	18.1	11.8	7.5	6.9	5.0	4.4	8.1	12.5	16.2	16.8
85°	46.2	12.5	9.4	7.5	6.2	5.0	3.7	7.5	11.2	15.6	16.2
87.5°	22.5	8.7	8.7	6.9	6.2	5.0	3.7	6.9	10.6	15.0	15.6
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)