

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: P191940

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191940
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-02-LED-E1-SL3-7050-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1200mA 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: 11414 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

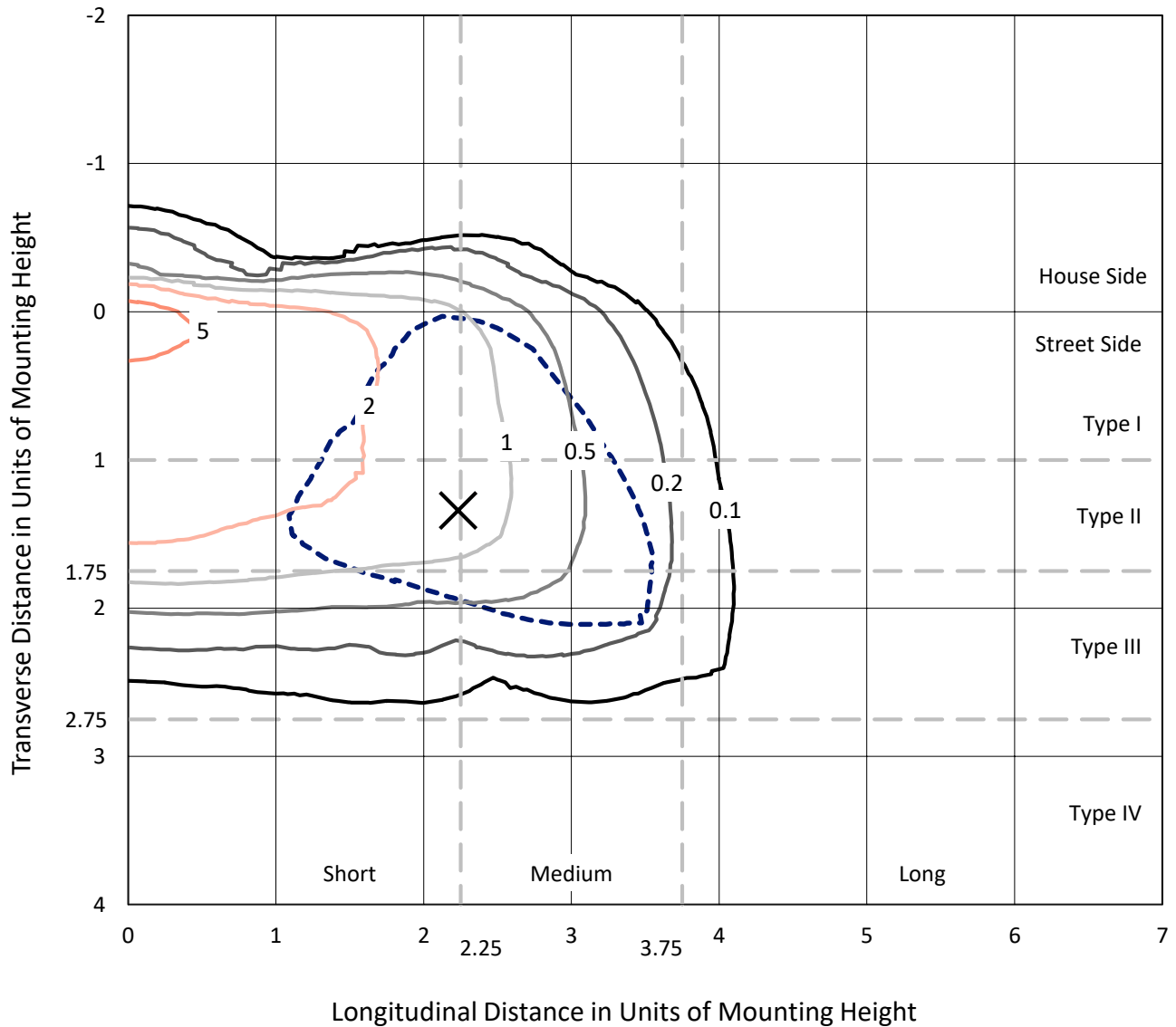
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

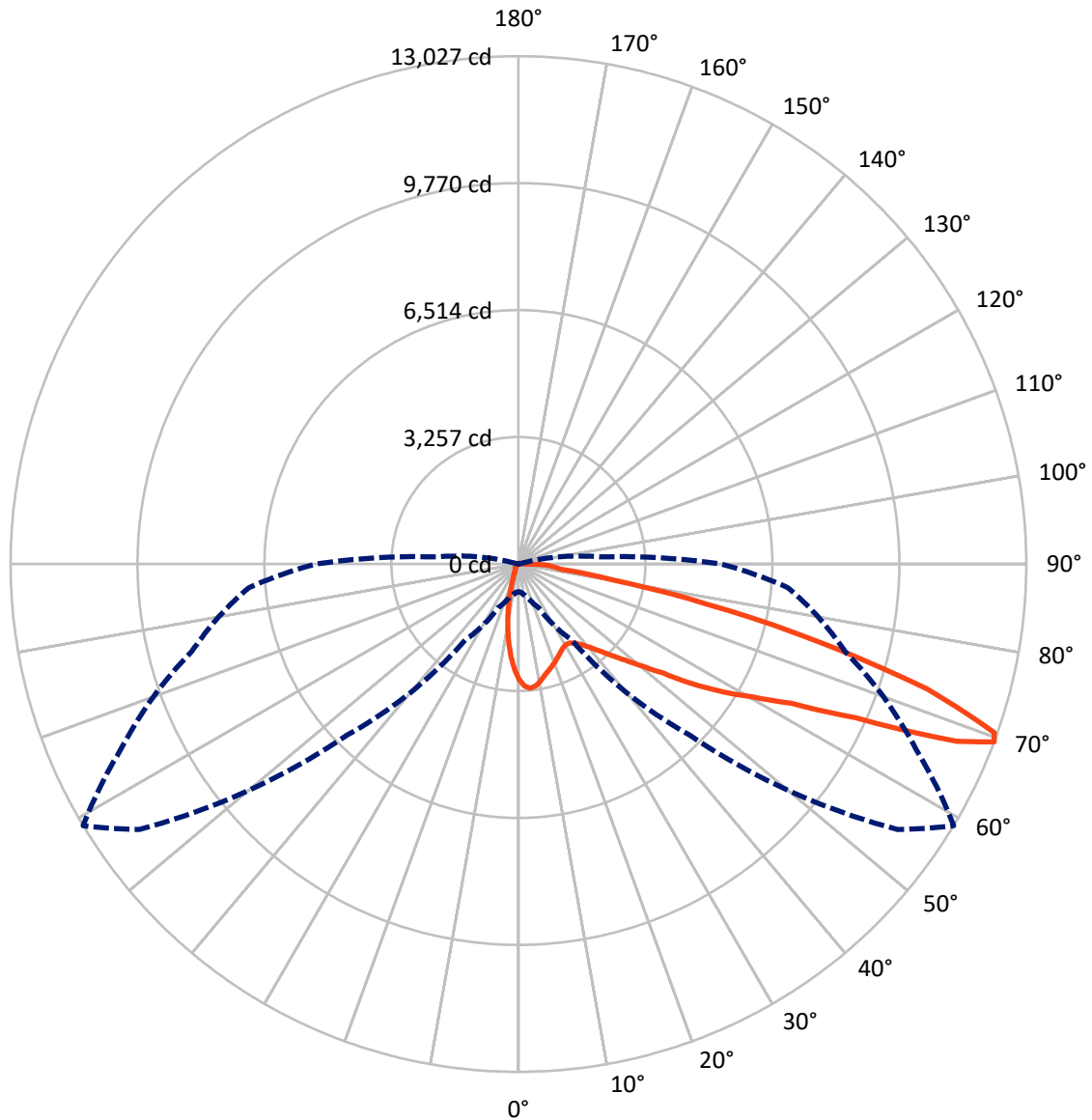


Based on 20 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - Non-Cutoff

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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	929.5	0.0	929.5
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	10484.5	0.0	10484.5
	% Fixture	91.9	0.0	91.9
Total	Lumens	11414.0	0.0	11414.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.2	2.1
10°-20°	498.3	4.4
20°-30°	670.5	5.9
30°-40°	973.5	8.5
40°-50°	1621.0	14.2
50°-60°	2528.7	22.2
60°-70°	3129.1	27.4
70°-80°	1585.8	13.9
80°-90°	165.9	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°	11414.0	100.0
0°-180°	11414.0	100.0



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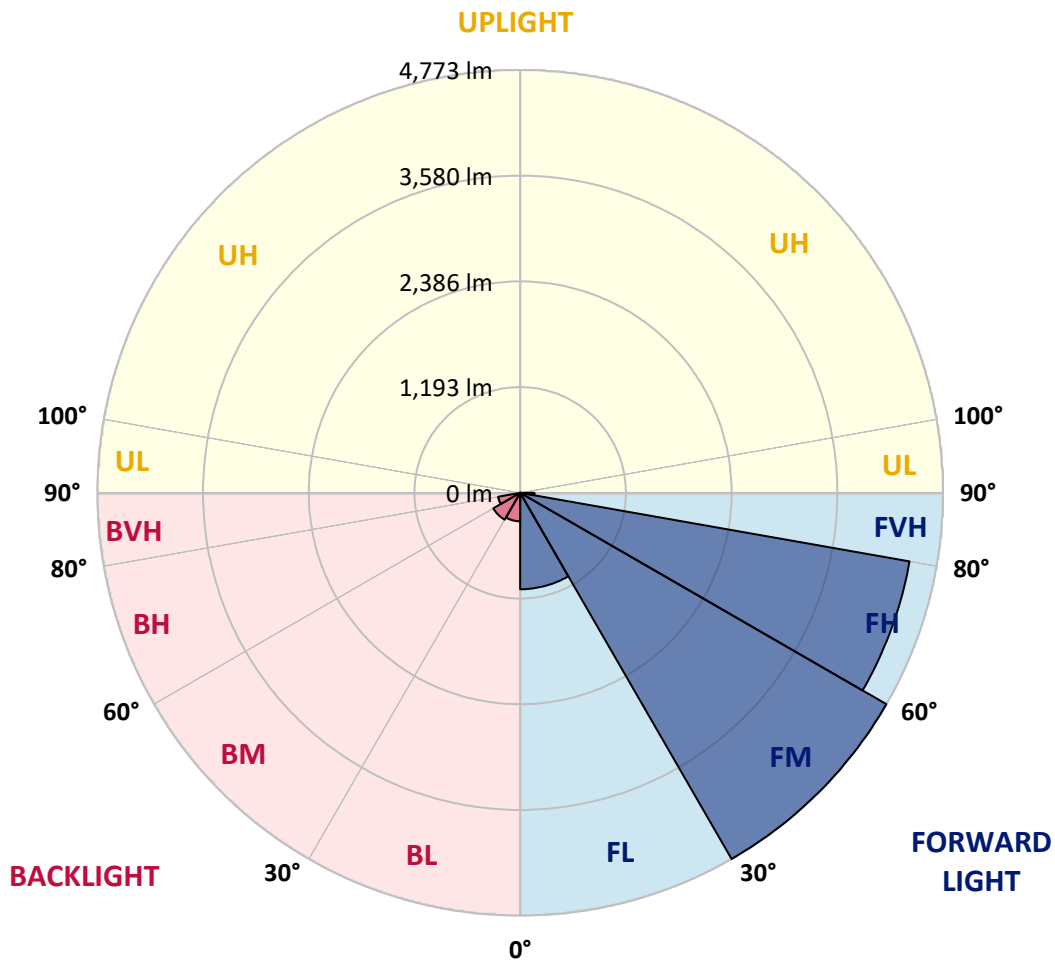
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1088.2	9.5			
FM (30°-60°)	4773.0	41.8			
FH (60°-80°)	4462.5	39.1			G2/5000
FVH (80°-90°)	160.8	1.4			G2/225
BL (0°-30°)	321.7	2.8	B1/500		
BM (30°-60°)	350.2	3.1	B1/1000		
BH (60°-80°)	252.4	2.2	B1/500		G1/500
BVH (80°-90°)	5.1	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°	2970.9	2970.9	2970.9	2970.9	2970.9	2970.9	2970.9	2970.9	2970.9	2970.9	2970.9
2.5°	3256.2	3254.9	3240.7	3234.2	3222.6	3198.1	3160.0	3140.0	3107.7	3051.6	2976.1
5°	3226.5	3242.0	3250.4	3251.0	3259.4	3250.4	3216.2	3199.4	3154.9	3064.5	2929.0
7.5°	3025.1	3030.9	3054.8	3075.5	3115.5	3153.6	3165.8	3158.7	3132.3	3035.4	2855.4
10°	2809.5	2815.4	2843.8	2870.9	2925.1	2983.8	3045.8	3058.7	3069.7	2994.1	2784.4
12.5°	2623.7	2629.5	2658.5	2694.0	2757.3	2829.6	2925.7	2947.0	2995.4	2954.8	2727.6
15°	2463.6	2466.2	2494.6	2538.5	2614.0	2706.9	2816.0	2850.2	2924.4	2927.0	2677.9
17.5°	2327.4	2333.9	2351.3	2393.2	2475.9	2590.7	2717.9	2767.0	2854.1	2903.8	2629.5
20°	2244.2	2250.6	2250.0	2273.2	2347.4	2470.1	2619.8	2678.5	2784.4	2879.9	2586.2
22.5°	2228.0	2228.0	2211.2	2208.0	2251.9	2354.5	2517.8	2589.5	2721.8	2869.6	2555.9
25°	2285.5	2282.9	2240.9	2206.7	2208.7	2270.0	2419.1	2504.3	2668.8	2876.7	2539.8
27.5°	2406.8	2403.6	2350.6	2285.5	2233.2	2232.5	2344.2	2435.8	2626.9	2910.2	2546.2
30°	2574.6	2573.3	2515.9	2433.9	2339.0	2251.9	2318.4	2401.6	2599.8	2970.9	2561.1
32.5°	2757.9	2756.0	2712.7	2626.2	2506.2	2339.0	2345.5	2415.2	2607.5	3051.6	2597.2
35°	2952.2	2949.0	2930.2	2854.7	2722.4	2499.7	2434.6	2488.8	2656.6	3172.3	2668.2
37.5°	3162.6	3165.8	3179.4	3107.1	2968.3	2725.0	2583.6	2620.4	2755.3	3336.2	2783.7
40°	3473.0	3472.4	3476.9	3382.0	3248.4	3000.6	2792.1	2803.7	2920.6	3553.7	2959.3
42.5°	4036.5	3997.1	3877.7	3684.1	3549.9	3315.6	3054.8	3042.5	3122.6	3822.9	3205.2
45°	4793.6	4709.7	4399.9	4028.8	3857.1	3670.6	3378.2	3338.8	3389.8	4146.2	3508.5
47.5°	5444.8	5357.7	4919.5	4387.6	4183.0	4007.5	3757.0	3686.0	3702.8	4508.3	3893.2
50°	5666.2	5623.6	5240.9	4700.0	4498.6	4431.5	4196.6	4110.1	4086.2	4927.2	4339.2
52.5°	5589.4	5586.2	5331.2	4902.7	4787.8	4870.4	4749.7	4649.7	4561.9	5368.7	4793.0
55°	5466.1	5482.3	5368.0	5080.2	5076.3	5271.2	5506.1	5422.9	5168.6	5848.2	5184.1
57.5°	5126.0	5195.1	5347.4	5415.8	5574.6	5774.0	6136.1	6185.1	5884.4	6215.5	5508.7
60°	4159.1	4310.8	4809.1	5464.2	6216.8	6713.7	6896.4	6938.4	6471.7	6520.8	5947.0
62.5°	2952.2	3107.1	3739.0	4847.2	6226.4	7948.4	8029.1	7864.5	7118.4	6973.2	6702.8
65°	1567.1	1686.5	2202.8	3498.9	5398.4	8235.0	10009.9	9519.4	8259.5	7863.3	7679.3
67.5°	801.6	837.8	1043.0	1712.3	3711.2	7314.6	11785.5	12130.8	10226.2	8746.2	7632.2
69°	709.3	730.6	866.8	1237.9	2376.5	6195.5	11872.0	13027.3	11255.6	8672.6	6935.8
70°	686.7	705.5	829.4	1120.5	1857.5	5195.7	11540.9	12948.6	11519.0	8392.5	6415.6
72.5°	582.8	599.0	738.4	990.1	1509.7	2579.1	9374.8	10972.3	10336.5	6991.3	4643.9
75°	389.8	442.8	708.7	928.1	1404.5	1465.1	6180.6	7929.1	7365.6	4715.5	2419.1
77.5°	93.6	100.7	200.1	738.4	1284.4	1289.6	3178.7	4929.1	4020.4	1680.7	571.8
80°	50.3	48.4	56.2	146.5	1196.0	1210.2	1430.9	2392.6	1435.4	278.8	188.5
82.5°	35.5	33.6	36.1	61.3	376.3	1102.4	1035.3	1083.0	595.1	107.1	84.6
85°	12.9	12.3	20.0	55.5	118.1	633.8	1063.7	893.3	482.1	49.1	62.0
87.5°	4.5	3.9	7.7	30.3	36.1	269.8	656.4	675.1	189.8	29.7	29.0
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°	2970.9	2970.9	2970.9	2970.9	2970.9	2970.9	2970.9	2970.9	2970.9	2970.9	2970.9
2.5°	2944.4	2904.4	2830.8	2755.3	2685.6	2601.7	2559.8	2518.5	2501.0	2494.6	2464.2
5°	2859.2	2791.5	2635.3	2478.4	2333.9	2180.3	2078.9	1997.6	1949.8	1926.6	1889.8
7.5°	2750.2	2639.2	2402.3	2160.2	1935.0	1713.0	1548.4	1421.9	1334.7	1292.8	1254.7
10°	2644.3	2496.5	2159.6	1829.8	1523.9	1229.5	1002.4	837.8	732.6	684.2	653.2
12.5°	2549.4	2357.7	1925.3	1507.7	1123.7	779.0	548.0	416.9	351.8	329.2	318.2
15°	2464.9	2230.0	1703.9	1201.8	761.0	445.3	299.5	254.9	244.6	244.6	243.3
17.5°	2384.9	2104.7	1490.3	914.6	477.6	272.4	227.8	222.0	222.0	224.6	224.6
20°	2308.1	1985.3	1283.8	656.4	300.8	216.2	205.9	204.6	205.9	209.1	209.1
22.5°	2242.2	1876.9	1090.8	450.5	223.3	194.9	189.8	187.8	188.5	190.4	191.7
25°	2193.2	1785.3	908.8	305.3	192.3	177.5	171.7	168.5	165.9	165.9	167.2
27.5°	2162.2	1707.8	732.6	222.0	173.0	161.4	152.3	147.2	141.3	138.1	139.4
30°	2139.6	1634.2	567.3	181.4	154.9	143.3	131.7	123.3	114.9	111.0	112.3
32.5°	2131.2	1574.8	424.0	160.1	138.8	125.9	111.7	100.7	91.7	88.4	89.1
35°	2153.8	1527.7	310.5	144.6	125.9	109.7	93.6	81.3	74.2	72.3	72.9
37.5°	2213.2	1502.6	232.4	131.7	114.2	96.2	78.1	66.5	62.0	62.0	62.6
40°	2325.5	1501.9	186.5	122.6	103.9	83.3	64.5	56.2	53.6	54.9	55.5
42.5°	2489.4	1536.1	162.6	114.2	94.9	71.0	53.6	47.8	47.1	48.4	49.1
45°	2713.4	1598.7	149.7	107.1	85.2	59.4	45.2	41.3	41.3	43.2	43.9
47.5°	2987.7	1690.4	138.8	100.0	75.5	49.7	38.7	36.1	36.8	38.7	39.4
50°	3318.1	1805.9	127.8	92.3	68.4	41.3	33.6	31.6	32.3	34.9	35.5
52.5°	3694.4	1961.5	118.8	85.2	59.4	34.2	28.4	27.1	28.4	31.0	31.6
55°	4017.1	2100.9	107.8	79.4	47.8	28.4	23.2	23.2	24.5	27.8	28.4
57.5°	4327.6	2246.7	98.1	68.4	37.4	22.6	19.4	20.0	21.9	25.2	25.8
60°	4783.3	2493.9	86.5	57.4	28.4	18.1	16.1	16.8	19.4	22.6	23.2
62.5°	5557.1	2870.2	74.9	47.8	21.9	14.2	12.9	14.2	17.4	21.3	21.9
65°	6255.5	3023.2	61.3	40.0	16.8	11.0	11.0	12.9	16.8	20.7	21.3
67.5°	5866.3	2544.9	47.8	31.6	12.9	8.4	9.0	12.3	16.1	20.7	21.3
69°	5188.0	2080.9	40.7	25.2	11.0	7.7	8.4	12.3	16.1	20.0	20.7
70°	4659.3	1756.9	36.1	21.3	9.7	7.7	8.4	11.6	16.1	20.0	20.7
72.5°	3120.6	948.8	29.0	15.5	9.0	7.1	7.1	11.6	15.5	19.4	20.0
75°	1341.2	262.0	23.2	11.0	7.7	6.5	6.5	11.0	14.8	18.7	20.0
77.5°	245.3	66.5	18.7	9.7	7.7	6.5	5.8	10.3	14.2	18.1	18.7
80°	97.5	32.9	14.8	8.4	7.1	5.8	5.2	9.7	13.6	17.4	18.1
82.5°	58.7	18.7	12.3	7.7	7.1	5.2	4.5	8.4	12.9	16.8	17.4
85°	47.8	12.9	9.7	7.7	6.5	5.2	3.9	7.7	11.6	16.1	16.8
87.5°	23.2	9.0	9.0	7.1	6.5	5.2	3.9	7.1	11.0	15.5	16.1
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)