

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: P299995

Luminaire Tested: **GLNA-AF-03-LED-E1-SL3-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194479)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-03-LED-E1-SL3-7030-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11020.3 lumens
Efficiency: N/A
Efficacy: 88.9 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

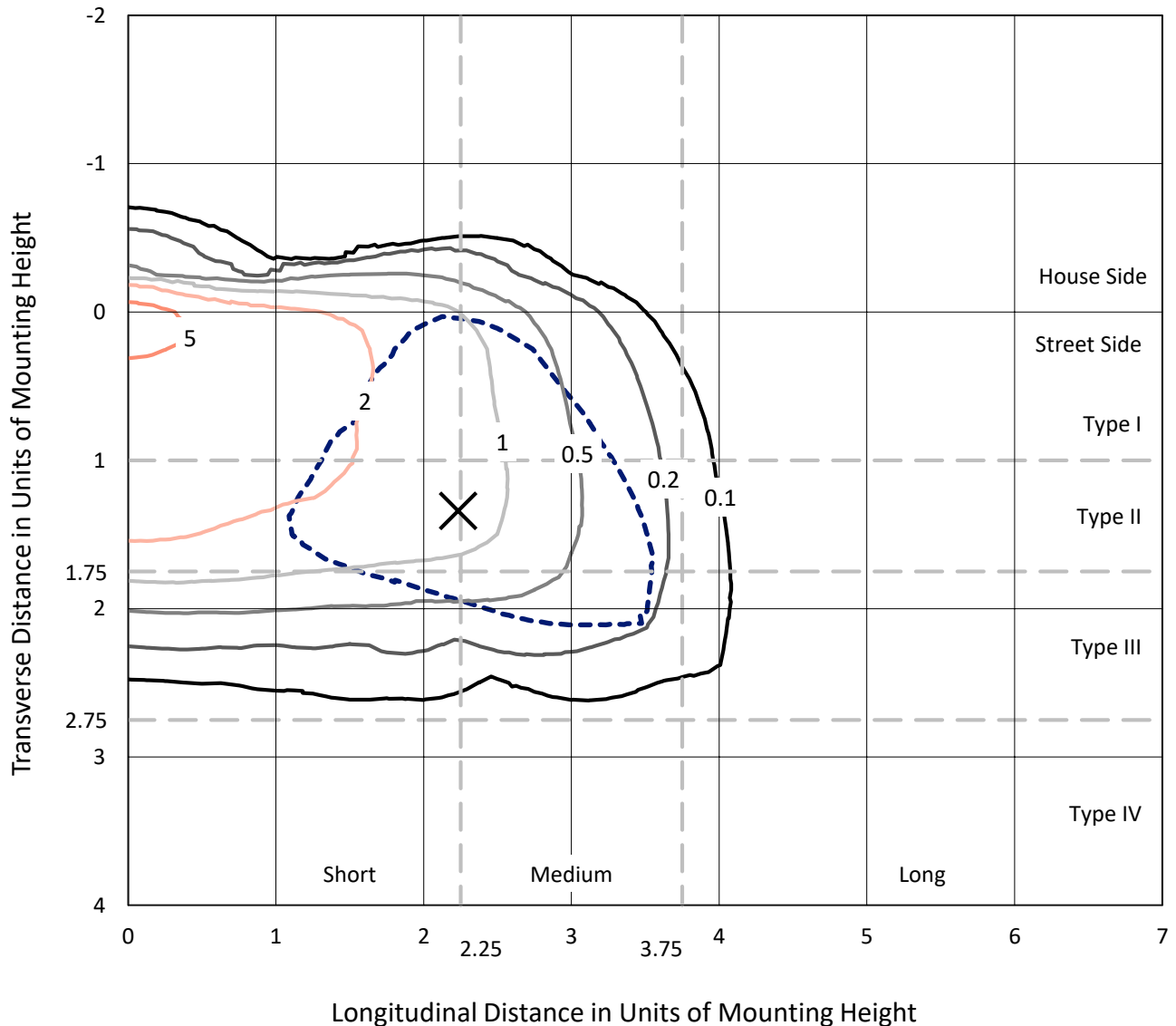


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

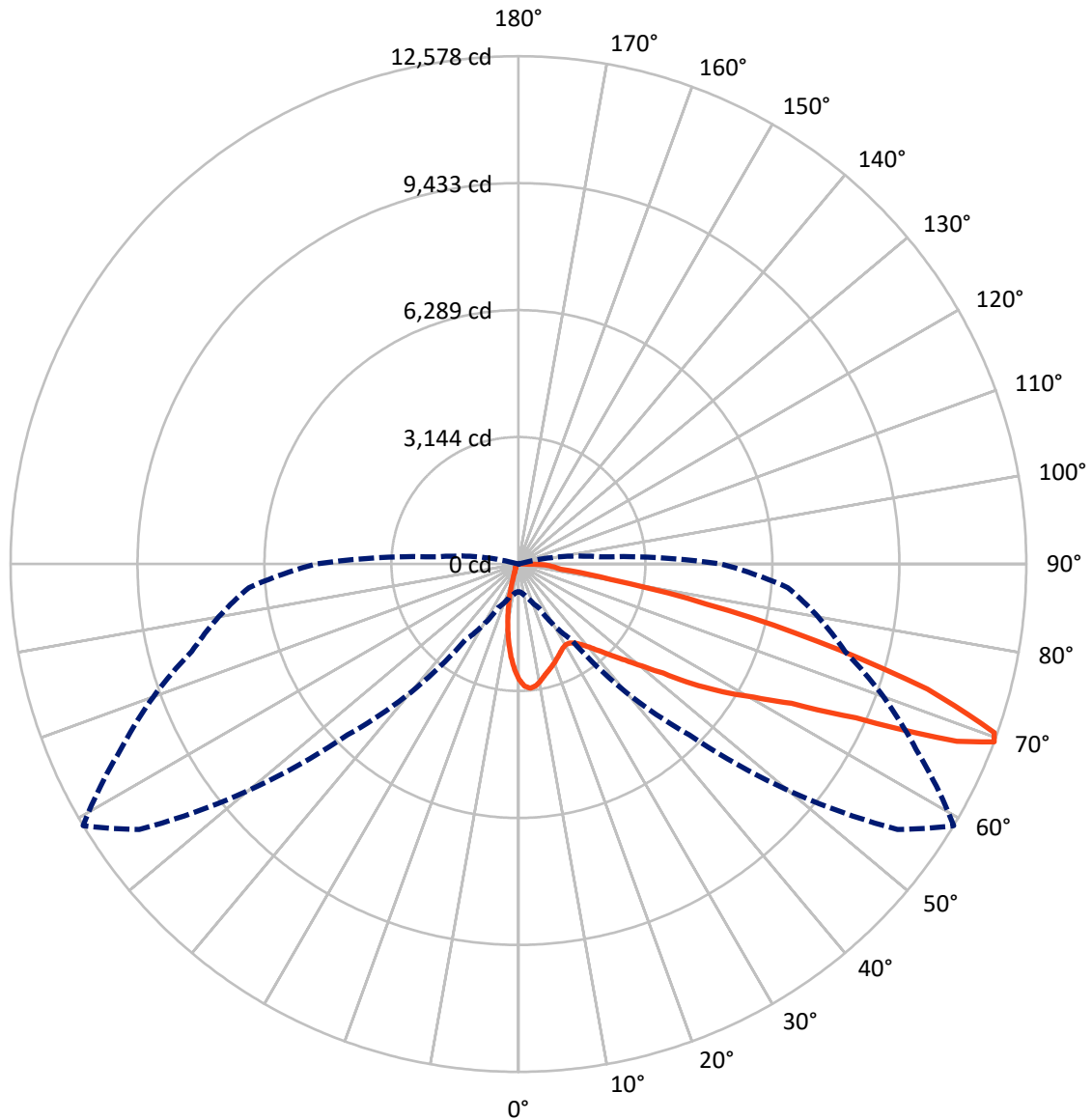


Based on 20 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - Non-Cutoff

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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	897.4	0.0	897.4
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	10122.8	0.0	10122.8
	% Fixture	91.9	0.0	91.9
Total	Lumens	11020.3	0.0	11020.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.8	2.1
10°-20°	481.1	4.4
20°-30°	647.4	5.9
30°-40°	939.9	8.5
40°-50°	1565.1	14.2
50°-60°	2441.5	22.2
60°-70°	3021.2	27.4
70°-80°	1531.1	13.9
80°-90°	160.2	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°	11020.3	100.0
0°-180°	11020.3	100.0



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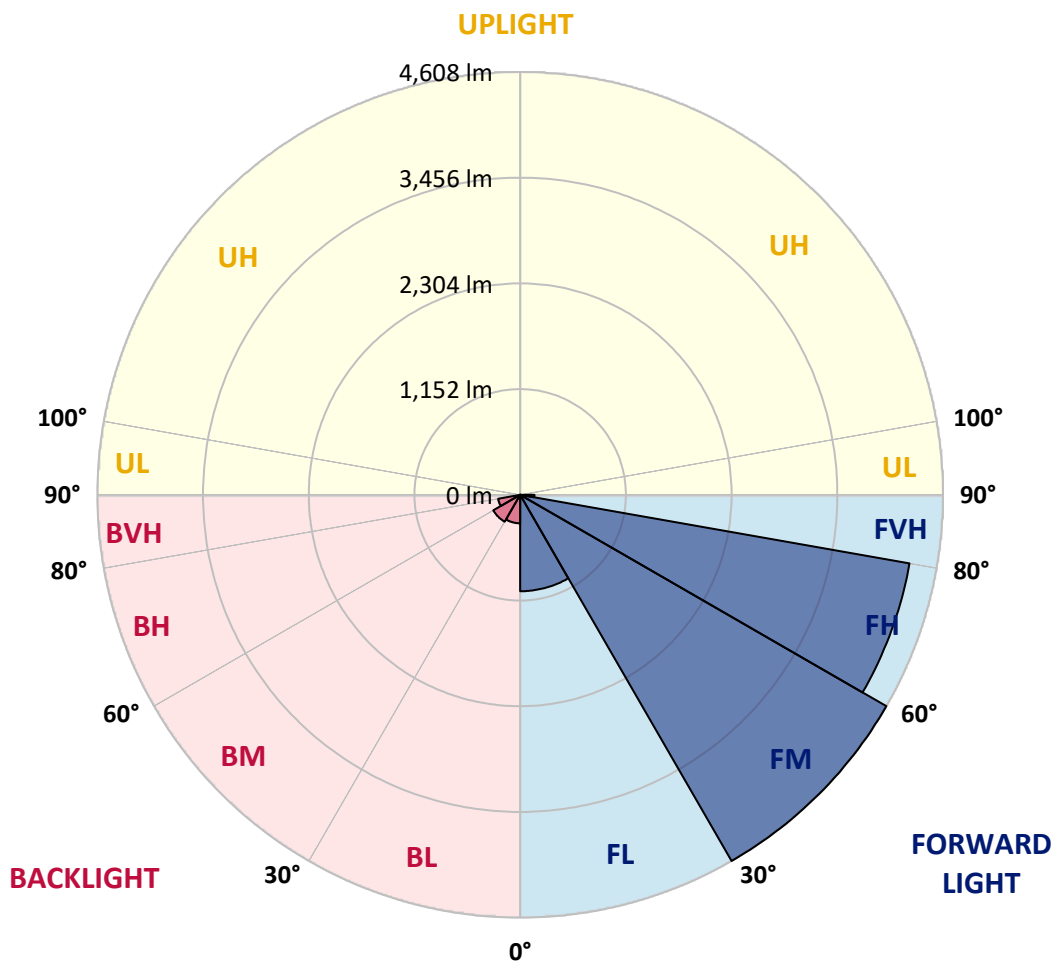
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1050.7	9.5			
FM	(30°-60°)	4608.3	41.8			
FH	(60°-80°)	4308.5	39.1			G2/5000
FVH	(80°-90°)	155.3	1.4			G2/225
BL	(0°-30°)	310.6	2.8	B1/500		
BM	(30°-60°)	338.2	3.1	B1/1000		
BH	(60°-80°)	243.7	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°	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4
2.5°	3143.8	3142.7	3128.9	3122.7	3111.4	3087.8	3051.0	3031.8	3000.6	2946.3	2873.5
5°	3115.1	3130.2	3138.2	3138.9	3147.0	3138.2	3105.1	3089.1	3046.1	2958.7	2828.0
7.5°	2920.8	2926.3	2949.5	2969.3	3008.0	3044.8	3056.7	3049.7	3024.2	2930.8	2756.9
10°	2712.7	2718.2	2745.7	2771.8	2824.2	2880.8	2940.6	2953.3	2963.8	2890.8	2688.4
12.5°	2533.1	2538.8	2566.9	2601.0	2662.1	2732.0	2824.8	2845.3	2892.1	2852.9	2633.5
15°	2378.6	2381.0	2408.6	2450.8	2523.8	2613.5	2718.9	2752.0	2823.6	2826.1	2585.5
17.5°	2247.1	2253.3	2270.3	2310.7	2390.5	2501.4	2624.2	2671.6	2755.5	2803.6	2538.8
20°	2166.7	2172.9	2172.4	2194.8	2266.5	2384.8	2529.5	2586.1	2688.4	2780.6	2497.1
22.5°	2151.2	2151.2	2135.0	2131.8	2174.2	2273.3	2431.0	2500.1	2627.8	2770.6	2467.8
25°	2206.7	2204.1	2163.7	2130.7	2132.5	2191.6	2335.6	2417.8	2576.9	2777.4	2452.2
27.5°	2323.9	2320.7	2269.5	2206.7	2156.1	2155.6	2263.3	2351.8	2536.3	2809.9	2458.4
30°	2485.7	2484.6	2429.1	2349.9	2258.4	2174.2	2238.4	2318.8	2510.1	2868.4	2472.7
32.5°	2662.7	2660.8	2619.1	2535.7	2419.7	2258.4	2264.6	2332.0	2517.6	2946.3	2507.6
35°	2850.4	2847.2	2829.1	2756.3	2628.6	2413.5	2350.6	2402.9	2565.0	3062.9	2576.1
37.5°	3053.4	3056.7	3069.7	2999.9	2865.9	2631.0	2494.6	2530.1	2660.3	3221.2	2687.6
40°	3353.2	3352.7	3357.0	3265.3	3136.5	2897.0	2695.7	2707.0	2819.9	3431.2	2857.2
42.5°	3897.2	3859.3	3744.0	3557.0	3427.4	3201.2	2949.5	2937.6	3015.0	3691.0	3094.6
45°	4628.3	4547.2	4248.1	3889.8	3724.0	3544.0	3261.6	3223.6	3272.9	4003.2	3387.6
47.5°	5256.9	5172.8	4749.8	4236.2	4038.7	3869.3	3627.4	3558.9	3575.1	4352.8	3758.9
50°	5470.7	5429.6	5060.1	4537.9	4343.4	4278.7	4051.9	3968.3	3945.3	4757.1	4189.4
52.5°	5396.5	5393.5	5147.3	4733.6	4622.6	4702.4	4585.8	4489.2	4404.5	5183.5	4627.5
55°	5277.5	5293.2	5182.8	4904.9	4901.1	5089.4	5316.2	5235.8	4990.3	5646.5	5005.2
57.5°	4949.2	5015.8	5163.0	5229.0	5382.2	5574.8	5924.5	5971.8	5681.4	6001.1	5318.6
60°	4015.7	4162.1	4643.2	5275.6	6002.4	6482.2	6658.6	6698.9	6248.4	6295.8	5741.8
62.5°	2850.4	2999.9	3610.0	4680.0	6011.6	7674.2	7752.1	7593.2	6872.9	6732.7	6471.6
65°	1513.0	1628.4	2126.9	3378.1	5212.2	7951.0	9664.7	9191.1	7974.5	7591.9	7414.4
67.5°	773.9	808.8	1007.1	1653.3	3583.2	7062.3	11378.9	11712.3	9873.3	8444.5	7368.9
69°	684.9	705.4	836.9	1195.2	2294.4	5981.8	11462.5	12577.9	10867.4	8373.4	6696.5
70°	663.0	681.1	800.7	1081.8	1793.5	5016.4	11142.7	12501.9	11121.6	8103.0	6194.2
72.5°	562.8	578.3	713.0	956.0	1457.7	2490.1	9051.5	10593.9	9979.9	6750.1	4483.6
75°	376.4	427.5	684.3	896.2	1356.0	1414.7	5967.5	7655.5	7111.6	4552.8	2335.6
77.5°	90.4	97.2	193.2	713.0	1240.1	1245.0	3069.1	4759.0	3881.7	1622.8	552.1
80°	48.7	46.8	54.1	141.5	1154.7	1168.4	1381.6	2310.1	1386.0	269.2	181.9
82.5°	34.3	32.5	34.9	59.2	363.4	1064.3	999.6	1045.6	574.5	103.4	81.7
85°	12.5	11.9	19.2	53.6	114.0	611.9	1026.9	862.4	465.5	47.4	59.8
87.5°	4.3	3.8	7.5	29.2	34.9	260.6	633.7	651.9	183.2	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°	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4
2.5°	2842.9	2804.2	2733.3	2660.3	2592.9	2512.0	2471.4	2431.6	2414.8	2408.6	2379.3
5°	2760.6	2695.2	2544.4	2392.9	2253.3	2105.0	2007.3	1928.8	1882.6	1860.1	1824.6
7.5°	2655.4	2548.2	2319.3	2085.8	1868.2	1653.9	1495.0	1372.8	1288.6	1248.2	1211.5
10°	2553.1	2410.5	2085.2	1766.7	1471.3	1187.1	967.7	808.8	707.3	660.5	630.7
12.5°	2461.6	2276.5	1859.0	1455.8	1084.9	752.2	529.0	402.6	339.6	317.7	307.2
15°	2379.9	2153.1	1645.2	1160.3	734.7	430.0	289.2	246.2	236.2	236.2	234.9
17.5°	2302.5	2032.2	1438.8	883.0	461.1	263.0	220.0	214.3	214.3	216.8	216.8
20°	2228.4	1916.9	1239.4	633.7	290.4	208.7	198.9	197.5	198.9	201.9	201.9
22.5°	2164.8	1812.2	1053.2	434.9	215.7	188.1	183.2	181.3	181.9	183.8	185.1
25°	2117.5	1723.7	877.5	294.7	185.7	171.3	165.8	162.6	160.2	160.2	161.3
27.5°	2087.6	1649.0	707.3	214.3	167.0	155.8	147.0	142.1	136.4	133.4	134.5
30°	2065.8	1577.9	547.7	175.1	149.6	138.3	127.2	119.1	110.9	107.2	108.5
32.5°	2057.6	1520.5	409.4	154.5	134.0	121.5	107.7	97.2	88.5	85.3	86.0
35°	2079.5	1475.0	299.8	139.6	121.5	105.8	90.4	78.5	71.7	69.8	70.4
37.5°	2136.9	1450.7	224.3	127.2	110.4	92.8	75.5	64.1	59.8	59.8	60.4
40°	2245.2	1450.1	180.2	118.5	100.4	80.4	62.3	54.1	51.7	53.0	53.6
42.5°	2403.5	1483.1	157.0	110.4	91.7	68.5	51.7	46.0	45.5	46.8	47.4
45°	2619.7	1543.5	144.5	103.4	82.3	57.4	43.6	39.8	39.8	41.7	42.5
47.5°	2884.6	1632.0	134.0	96.6	72.8	47.9	37.4	34.9	35.5	37.4	37.9
50°	3203.6	1743.7	123.4	89.1	66.0	39.8	32.5	30.6	31.1	33.6	34.3
52.5°	3567.0	1893.9	114.7	82.3	57.4	33.0	27.4	26.2	27.4	30.0	30.6
55°	3878.5	2028.4	104.1	76.6	46.0	27.4	22.5	22.5	23.8	26.8	27.4
57.5°	4178.3	2169.1	94.7	66.0	36.2	21.9	18.7	19.2	21.1	24.3	24.9
60°	4618.3	2407.8	83.6	55.5	27.4	17.4	15.7	16.2	18.7	21.9	22.5
62.5°	5365.4	2771.2	72.3	46.0	21.1	13.8	12.5	13.8	16.8	20.6	21.1
65°	6039.7	2918.9	59.2	38.7	16.2	10.6	10.6	12.5	16.2	20.0	20.6
67.5°	5663.9	2457.1	46.0	30.6	12.5	8.1	8.7	11.9	15.7	20.0	20.6
69°	5009.0	2009.2	39.2	24.3	10.6	7.5	8.1	11.9	15.7	19.2	20.0
70°	4498.7	1696.3	34.9	20.6	9.4	7.5	8.1	11.1	15.7	19.2	20.0
72.5°	3013.1	916.0	28.1	14.9	8.7	6.8	6.8	11.1	14.9	18.7	19.2
75°	1294.8	253.0	22.5	10.6	7.5	6.2	6.2	10.6	14.3	18.1	19.2
77.5°	236.8	64.1	18.1	9.4	7.5	6.2	5.7	10.0	13.8	17.4	18.1
80°	94.1	31.7	14.3	8.1	6.8	5.7	4.9	9.4	13.0	16.8	17.4
82.5°	56.8	18.1	11.9	7.5	6.8	4.9	4.3	8.1	12.5	16.2	16.8
85°	46.0	12.5	9.4	7.5	6.2	4.9	3.8	7.5	11.1	15.7	16.2
87.5°	22.5	8.7	8.7	6.8	6.2	4.9	3.8	6.8	10.6	14.9	15.7
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)