

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: P200290

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200290
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: GPC-AF-02-LED-E1-SL3-7050-1200-HSS
Description: GALLEON PEDESTRIAN 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: 11642 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' 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

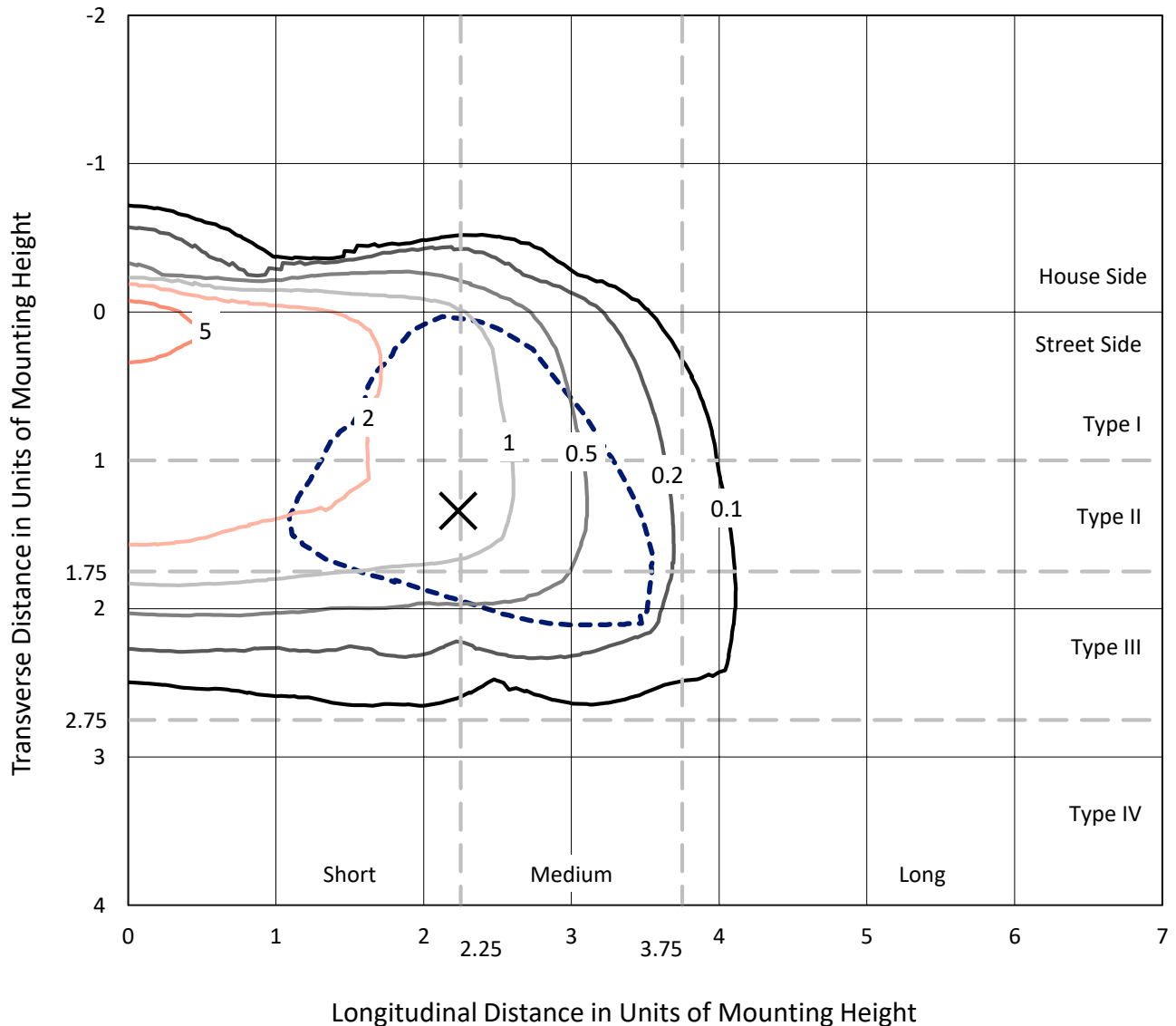


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Iso-Footcandle Lines of Horizontal Illumination

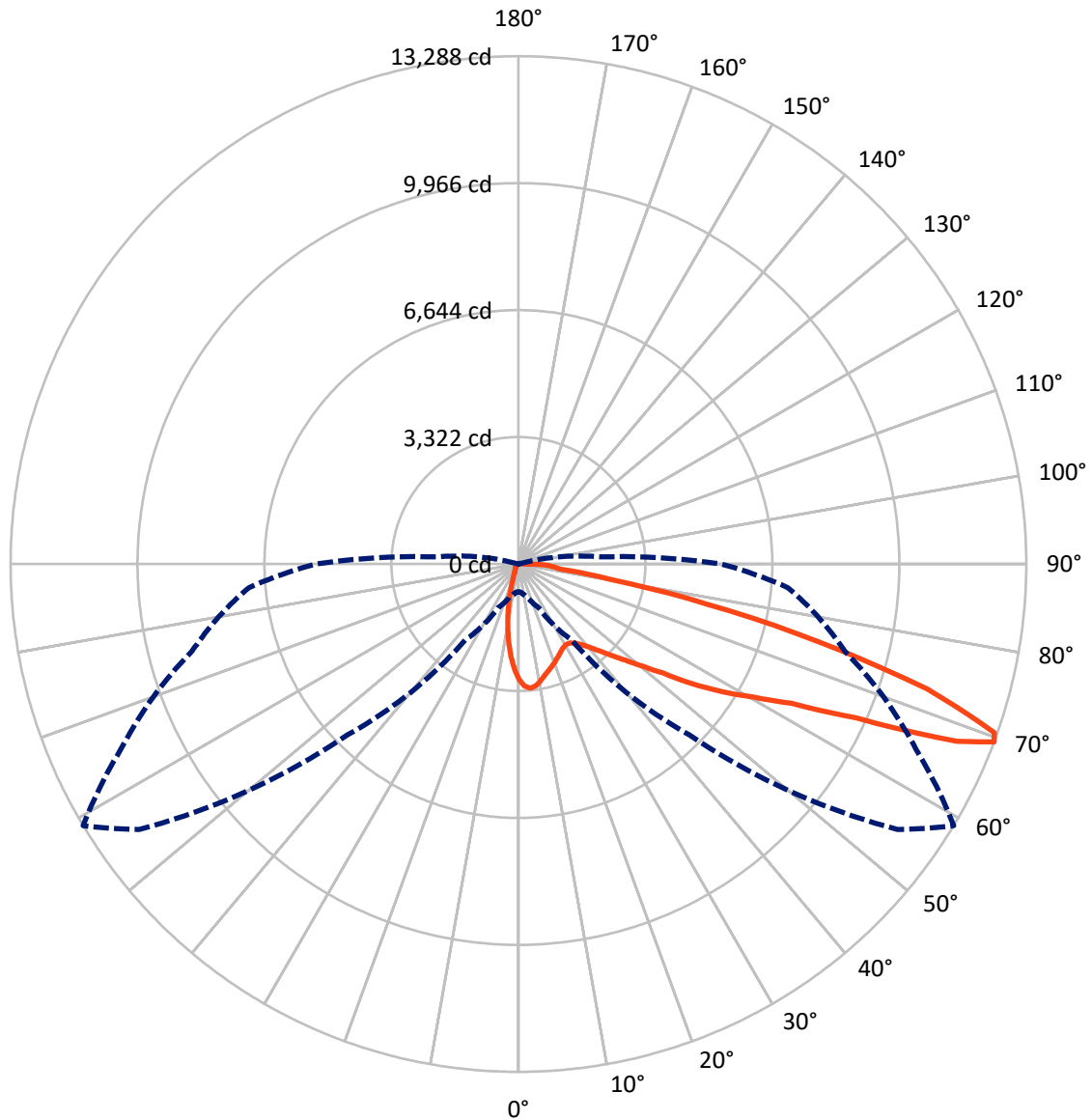
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 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	948.1	0.0	948.1
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	10693.9	0.0	10693.9
	% Fixture	91.9	0.0	91.9
Total	Lumens	11642.0	0.0	11642.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.0	2.1
10°-20°	508.2	4.4
20°-30°	683.9	5.9
30°-40°	993.0	8.5
40°-50°	1653.4	14.2
50°-60°	2579.2	22.2
60°-70°	3191.6	27.4
70°-80°	1617.5	13.9
80°-90°	169.2	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°	11642.0	100.0
0°-180°	11642.0	100.0



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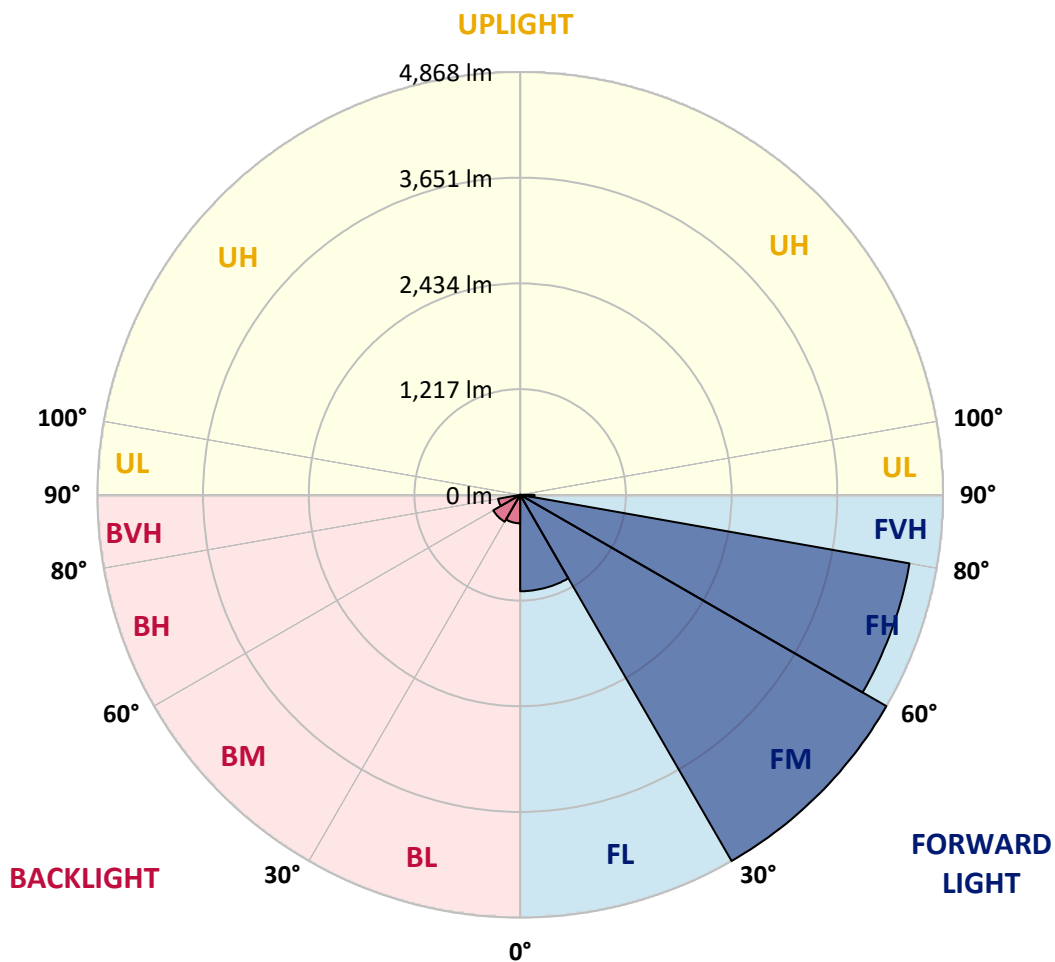
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1109.9	9.5			
FM (30°-60°)	4868.3	41.8			
FH (60°-80°)	4551.6	39.1			G2/5000
FVH (80°-90°)	164.0	1.4			G2/225
BL (0°-30°)	328.2	2.8	B1/500		
BM (30°-60°)	357.2	3.1	B1/1000		
BH (60°-80°)	257.5	2.2	B1/500		G1/500
BVH (80°-90°)	5.2	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°	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3
2.5°	3321.2	3319.9	3305.4	3298.8	3287.0	3262.0	3223.1	3202.7	3169.8	3112.5	3035.5
5°	3290.9	3306.7	3315.3	3316.0	3324.5	3315.3	3280.4	3263.3	3217.9	3125.7	2987.5
7.5°	3085.6	3091.5	3115.8	3136.9	3177.7	3216.6	3229.1	3221.8	3194.8	3096.1	2912.4
10°	2865.7	2871.6	2900.6	2928.2	2983.5	3043.4	3106.6	3119.8	3131.0	3054.0	2840.0
12.5°	2676.1	2682.0	2711.6	2747.8	2812.3	2886.1	2984.2	3005.9	3055.3	3013.8	2782.1
15°	2512.8	2515.4	2544.4	2589.2	2666.2	2761.0	2872.3	2907.1	2982.9	2985.5	2731.4
17.5°	2373.9	2380.5	2398.3	2441.1	2525.3	2642.5	2772.2	2822.2	2911.1	2961.8	2682.0
20°	2289.0	2295.6	2294.9	2318.6	2394.3	2519.4	2672.1	2732.0	2840.0	2937.4	2637.9
22.5°	2272.5	2272.5	2255.4	2252.1	2296.9	2401.6	2568.1	2641.2	2776.1	2926.9	2607.0
25°	2331.1	2328.5	2285.7	2250.8	2252.8	2315.3	2467.4	2554.3	2722.2	2934.1	2590.5
27.5°	2454.9	2451.6	2397.6	2331.1	2277.8	2277.1	2391.0	2484.5	2679.4	2968.4	2597.1
30°	2626.0	2624.7	2566.1	2482.5	2385.8	2296.9	2364.7	2449.6	2651.7	3030.3	2612.2
32.5°	2813.0	2811.0	2766.9	2678.7	2556.3	2385.8	2392.3	2463.4	2659.6	3112.5	2649.1
35°	3011.2	3007.9	2988.8	2911.8	2776.8	2549.7	2483.2	2538.5	2709.6	3235.6	2721.5
37.5°	3225.8	3229.1	3242.9	3169.2	3027.6	2779.4	2635.3	2672.8	2810.4	3402.9	2839.3
40°	3542.4	3541.8	3546.4	3449.6	3313.3	3060.5	2847.9	2859.7	2978.9	3624.7	3018.4
42.5°	4117.1	4077.0	3955.2	3757.7	3620.8	3381.8	3115.8	3103.3	3185.0	3899.2	3269.2
45°	4889.4	4803.8	4487.8	4109.2	3934.1	3743.9	3445.7	3405.5	3457.5	4229.1	3578.6
47.5°	5553.6	5464.7	5017.7	4475.3	4266.6	4087.5	3832.1	3759.7	3776.8	4598.4	3971.0
50°	5779.4	5736.0	5345.6	4793.9	4588.5	4520.0	4280.4	4192.2	4167.8	5025.6	4425.9
52.5°	5701.1	5697.8	5437.7	5000.6	4883.4	4967.7	4844.6	4742.5	4653.0	5475.9	4888.7
55°	5575.3	5591.8	5475.3	5181.6	5177.7	5376.5	5616.1	5531.2	5271.8	5965.0	5287.6
57.5°	5228.4	5298.8	5454.2	5524.0	5685.9	5889.3	6258.7	6308.7	6001.9	6339.6	5618.8
60°	4242.2	4396.9	4905.1	5573.3	6340.9	6847.9	7034.2	7077.0	6601.0	6651.0	6065.8
62.5°	3011.2	3169.2	3813.7	4944.0	6350.8	8107.2	8189.5	8021.6	7260.6	7112.5	6836.7
65°	1598.4	1720.2	2246.8	3568.8	5506.2	8399.5	10209.9	9709.6	8424.5	8020.3	7832.7
67.5°	817.6	854.5	1063.8	1746.5	3785.3	7460.8	12020.9	12373.1	10430.4	8920.9	7784.6
69°	723.5	745.2	884.1	1262.7	2423.9	6319.2	12109.2	13287.6	11480.5	8845.9	7074.3
70°	700.5	719.5	845.9	1142.8	1894.6	5299.5	11771.4	13207.2	11749.1	8560.1	6543.7
72.5°	594.5	610.9	753.1	1009.9	1539.8	2630.7	9562.1	11191.5	10543.0	7130.9	4736.6
75°	397.6	451.6	722.8	946.7	1432.5	1494.4	6304.1	8087.5	7512.8	4809.7	2467.4
77.5°	95.5	102.7	204.1	753.1	1310.1	1315.3	3242.2	5027.6	4100.7	1714.3	583.3
80°	51.3	49.4	57.3	149.4	1219.9	1234.4	1459.5	2440.4	1464.1	284.4	192.2
82.5°	36.2	34.2	36.9	62.5	383.8	1124.4	1055.9	1104.7	607.0	109.3	86.2
85°	13.2	12.5	20.4	56.6	120.5	646.5	1084.9	911.1	491.8	50.0	63.2
87.5°	4.6	3.9	7.9	30.9	36.9	275.2	669.5	688.6	193.5	30.3	29.6
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°	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3
2.5°	3003.3	2962.4	2887.4	2810.4	2739.3	2653.7	2610.9	2568.8	2551.0	2544.4	2513.5
5°	2916.4	2847.2	2687.9	2528.0	2380.5	2223.8	2120.5	2037.5	1988.8	1965.1	1927.6
7.5°	2805.1	2691.9	2450.3	2203.4	1973.6	1747.2	1579.3	1450.3	1361.4	1318.6	1279.8
10°	2697.1	2546.4	2202.7	1866.3	1554.3	1254.1	1022.4	854.5	747.2	697.8	666.2
12.5°	2600.4	2404.8	1963.8	1537.8	1146.1	794.6	558.9	425.3	358.8	335.7	324.6
15°	2514.1	2274.5	1738.0	1225.8	776.2	454.2	305.5	260.0	249.5	249.5	248.2
17.5°	2432.5	2146.8	1520.1	932.8	487.2	277.8	232.4	226.5	226.5	229.1	229.1
20°	2354.2	2025.0	1309.4	669.5	306.8	220.5	210.0	208.7	210.0	213.3	213.3
22.5°	2287.0	1914.4	1112.6	459.5	227.8	198.8	193.5	191.6	192.2	194.2	195.5
25°	2237.0	1820.9	926.9	311.4	196.2	181.0	175.1	171.8	169.2	169.2	170.5
27.5°	2205.4	1741.9	747.2	226.5	176.4	164.6	155.4	150.1	144.2	140.9	142.2
30°	2182.3	1666.9	578.7	185.0	158.0	146.1	134.3	125.7	117.2	113.2	114.5
32.5°	2173.8	1606.3	432.5	163.3	141.5	128.4	113.9	102.7	93.5	90.2	90.8
35°	2196.8	1558.2	316.7	147.5	128.4	111.9	95.5	82.9	75.7	73.7	74.4
37.5°	2257.4	1532.6	237.0	134.3	116.5	98.1	79.7	67.8	63.2	63.2	63.9
40°	2371.9	1531.9	190.3	125.1	106.0	84.9	65.8	57.3	54.6	56.0	56.6
42.5°	2539.1	1566.8	165.9	116.5	96.8	72.4	54.6	48.7	48.1	49.4	50.0
45°	2767.6	1630.7	152.7	109.3	86.9	60.6	46.1	42.1	42.1	44.1	44.8
47.5°	3047.4	1724.1	141.5	102.0	77.0	50.7	39.5	36.9	37.5	39.5	40.2
50°	3384.4	1842.0	130.3	94.1	69.8	42.1	34.2	32.3	32.9	35.5	36.2
52.5°	3768.2	2000.6	121.1	86.9	60.6	34.9	29.0	27.6	29.0	31.6	32.3
55°	4097.4	2142.8	109.9	81.0	48.7	29.0	23.7	23.7	25.0	28.3	29.0
57.5°	4414.0	2291.6	100.1	69.8	38.2	23.0	19.7	20.4	22.4	25.7	26.3
60°	4878.8	2543.8	88.2	58.6	29.0	18.4	16.5	17.1	19.7	23.0	23.7
62.5°	5668.1	2927.6	76.4	48.7	22.4	14.5	13.2	14.5	17.8	21.7	22.4
65°	6380.4	3083.6	62.5	40.8	17.1	11.2	11.2	13.2	17.1	21.1	21.7
67.5°	5983.5	2595.8	48.7	32.3	13.2	8.6	9.2	12.5	16.5	21.1	21.7
69°	5291.6	2122.4	41.5	25.7	11.2	7.9	8.6	12.5	16.5	20.4	21.1
70°	4752.4	1791.9	36.9	21.7	9.9	7.9	8.6	11.8	16.5	20.4	21.1
72.5°	3183.0	967.7	29.6	15.8	9.2	7.2	7.2	11.8	15.8	19.7	20.4
75°	1368.0	267.3	23.7	11.2	7.9	6.6	6.6	11.2	15.1	19.1	20.4
77.5°	250.2	67.8	19.1	9.9	7.9	6.6	5.9	10.5	14.5	18.4	19.1
80°	99.4	33.6	15.1	8.6	7.2	5.9	5.3	9.9	13.8	17.8	18.4
82.5°	59.9	19.1	12.5	7.9	7.2	5.3	4.6	8.6	13.2	17.1	17.8
85°	48.7	13.2	9.9	7.9	6.6	5.3	3.9	7.9	11.8	16.5	17.1
87.5°	23.7	9.2	9.2	7.2	6.6	5.3	3.9	7.2	11.2	15.8	16.5
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)