

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: P191921

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-7050-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191921  
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-SL3-7050-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 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: 12544 lumens  
Efficiency: N/A  
Efficacy: 101.2 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

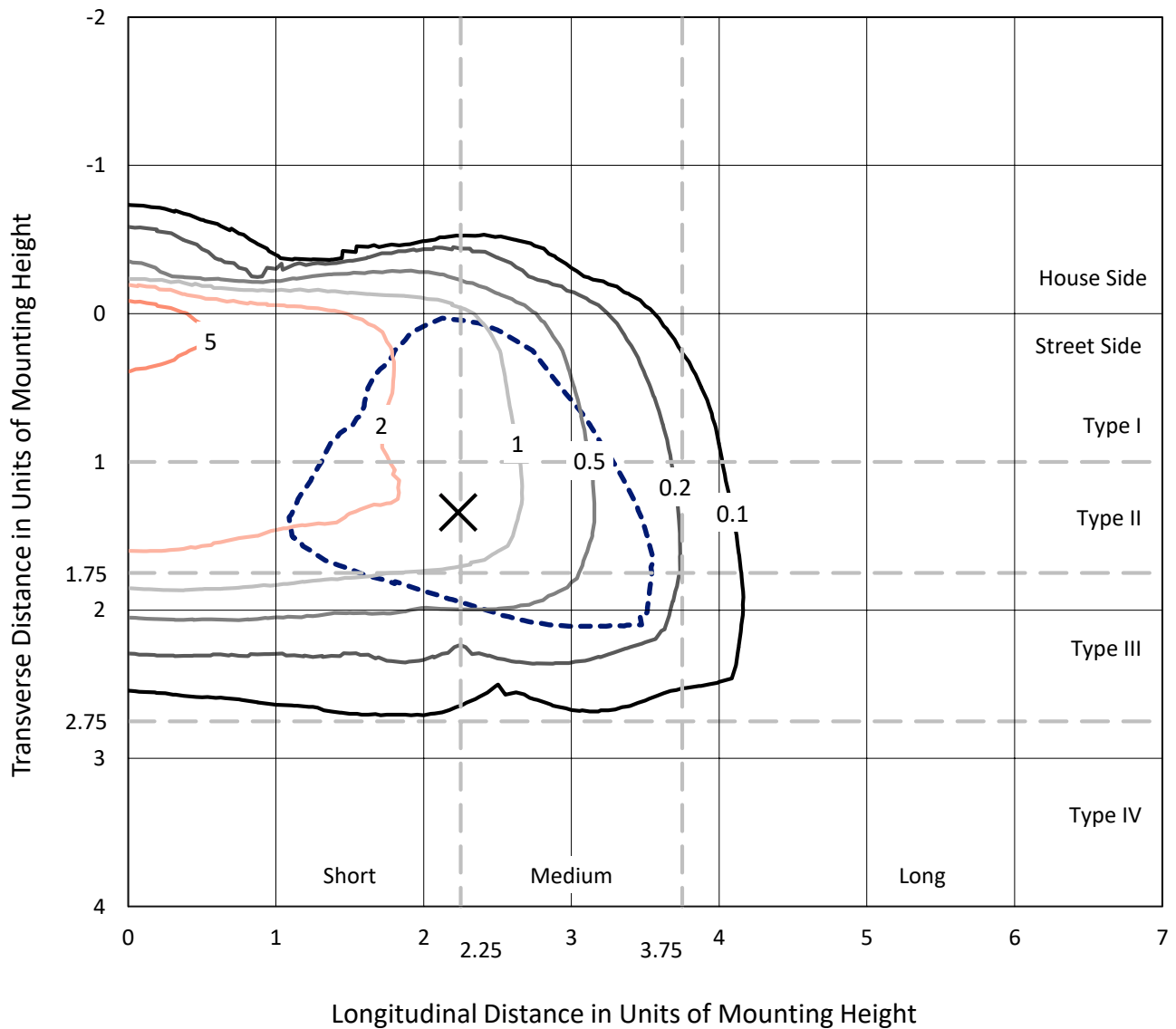


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

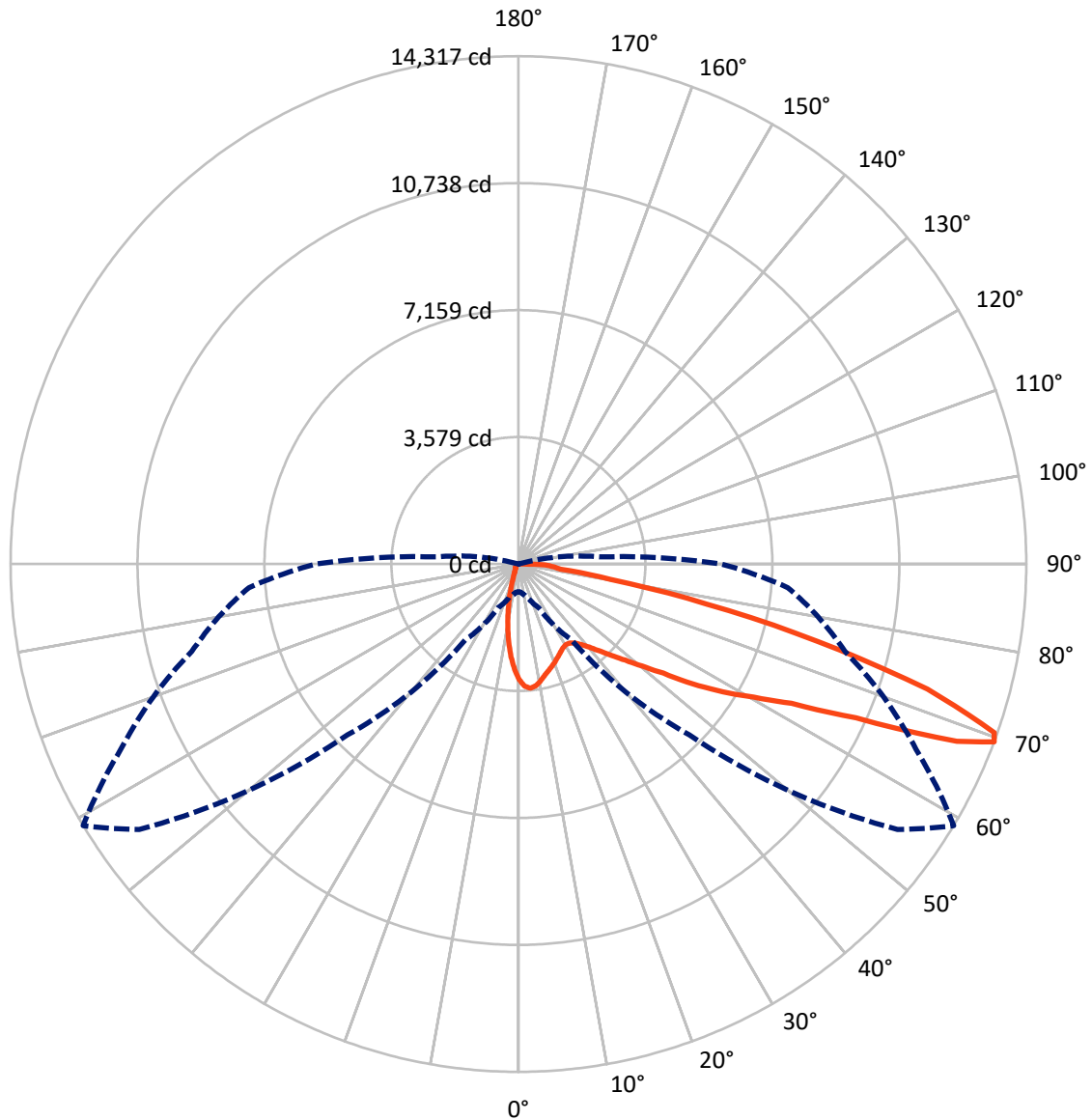


Based on 20 foot mounting height. Maximum calculated value = 8.2 fc  
 Type III - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	1021.5	0.0	1021.5
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	11522.5	0.0	11522.5
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	12544.0	0.0	12544.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.0	2.1
10°-20°	547.6	4.4
20°-30°	736.9	5.9
30°-40°	1069.9	8.5
40°-50°	1781.5	14.2
50°-60°	2779.1	22.2
60°-70°	3438.9	27.4
70°-80°	1742.8	13.9
80°-90°	182.4	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°	12544.0	100.0
0°-180°	12544.0	100.0



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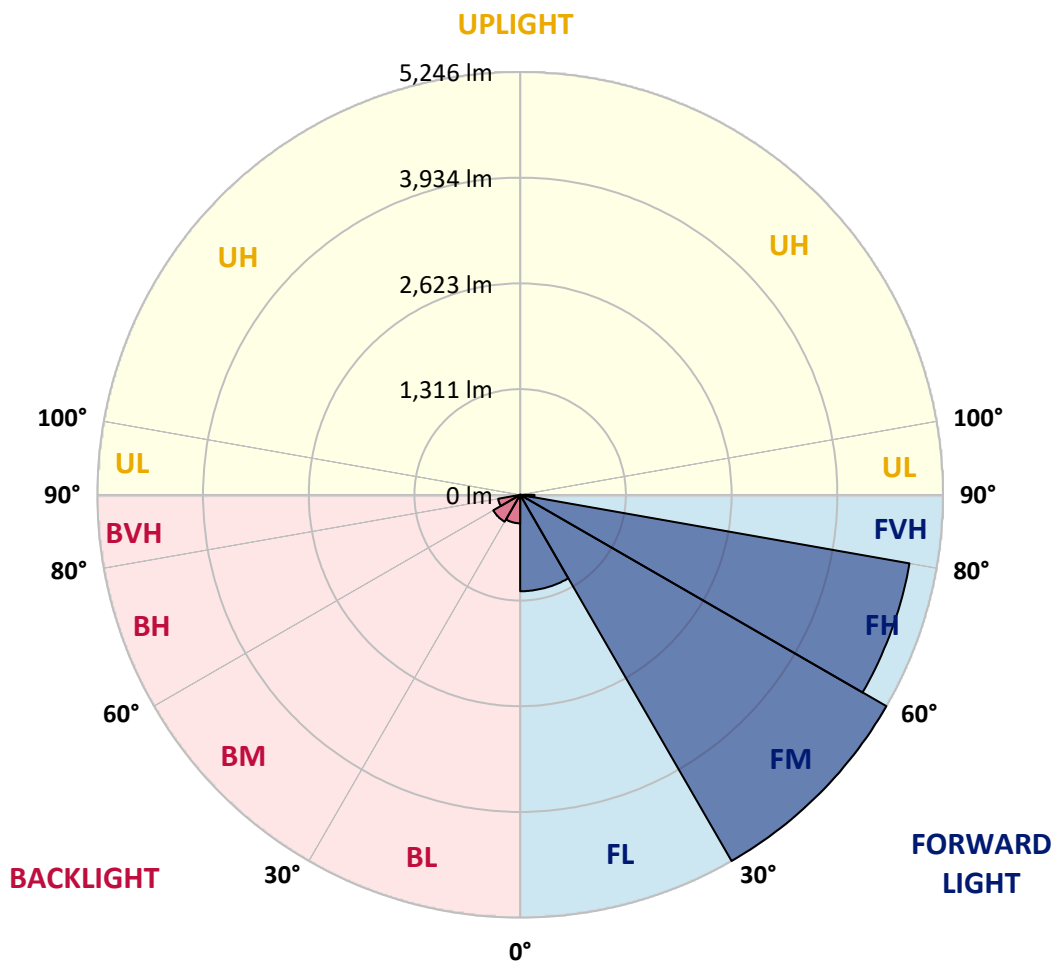
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1195.9	9.5			
FM (30°-60°)	5245.5	41.8			
FH (60°-80°)	4904.2	39.1			G2/5000
FVH (80°-90°)	176.7	1.4			G2/225
BL (0°-30°)	353.6	2.8	B1/500		
BM (30°-60°)	384.9	3.1	B1/1000		
BH (60°-80°)	277.4	2.2	B1/500		G1/500
BVH (80°-90°)	5.6	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°	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0
2.5°	3578.6	3577.1	3561.5	3554.4	3541.7	3514.7	3472.9	3450.9	3415.4	3353.7	3270.7
5°	3545.9	3562.9	3572.2	3572.9	3582.1	3572.2	3534.6	3516.1	3467.2	3367.9	3218.9
7.5°	3324.6	3331.0	3357.2	3379.9	3423.9	3465.8	3479.2	3471.4	3442.4	3336.0	3138.1
10°	3087.7	3094.1	3125.3	3155.1	3214.7	3279.2	3347.3	3361.5	3373.6	3290.6	3060.0
12.5°	2883.4	2889.8	2921.7	2960.7	3030.2	3109.7	3215.4	3238.8	3292.0	3247.3	2997.6
15°	2707.5	2710.3	2741.5	2789.8	2872.8	2974.9	3094.8	3132.4	3214.0	3216.8	2943.0
17.5°	2557.8	2564.9	2584.1	2630.2	2721.0	2847.2	2987.0	3040.9	3136.6	3191.3	2889.8
20°	2466.3	2473.4	2472.7	2498.2	2579.8	2714.6	2879.2	2943.7	3060.0	3165.0	2842.3
22.5°	2448.6	2448.6	2430.2	2426.6	2474.8	2587.6	2767.1	2845.8	2991.2	3153.7	2808.9
25°	2511.7	2508.9	2462.8	2425.2	2427.3	2494.7	2658.6	2752.2	2933.1	3161.5	2791.2
27.5°	2645.1	2641.5	2583.4	2511.7	2454.3	2453.6	2576.3	2677.0	2887.0	3198.4	2798.3
30°	2829.5	2828.1	2765.0	2674.9	2570.6	2474.8	2547.9	2639.4	2857.2	3265.0	2814.6
32.5°	3031.0	3028.8	2981.3	2886.2	2754.3	2570.6	2577.7	2654.3	2865.7	3353.7	2854.3
35°	3244.5	3240.9	3220.3	3137.4	2991.9	2747.2	2675.6	2735.2	2919.6	3486.3	2932.4
37.5°	3475.7	3479.2	3494.1	3414.7	3262.2	2994.8	2839.4	2879.9	3028.1	3666.5	3059.3
40°	3816.9	3816.2	3821.1	3716.9	3570.0	3297.7	3068.5	3081.3	3209.7	3905.6	3252.3
42.5°	4436.1	4392.9	4261.6	4048.8	3901.3	3643.8	3357.2	3343.8	3431.7	4201.3	3522.5
45°	5268.2	5176.0	4835.5	4427.6	4238.9	4033.9	3712.6	3669.3	3725.4	4556.7	3855.9
47.5°	5983.9	5888.1	5406.5	4822.0	4597.1	4404.2	4129.0	4051.0	4069.4	4954.6	4278.7
50°	6227.2	6180.4	5759.7	5165.3	4944.0	4870.2	4612.0	4517.0	4490.7	5415.0	4768.8
52.5°	6142.8	6139.2	5859.0	5388.0	5261.8	5352.6	5219.9	5110.0	5013.5	5900.2	5267.5
55°	6007.3	6025.0	5899.5	5583.1	5578.9	5793.1	6051.3	5959.8	5680.3	6427.2	5697.3
57.5°	5633.5	5709.4	5876.8	5952.0	6126.5	6345.6	6743.6	6797.5	6466.9	6830.8	6054.1
60°	4570.9	4737.6	5285.2	6005.2	6832.2	7378.4	7579.2	7625.3	7112.4	7166.3	6535.7
62.5°	3244.5	3414.7	4109.1	5327.0	6842.9	8735.4	8824.0	8643.1	7823.2	7663.6	7366.4
65°	1722.2	1853.5	2420.9	3845.3	5932.8	9050.3	11000.9	10461.9	9077.3	8641.7	8439.6
67.5°	881.0	920.7	1146.3	1881.8	4078.6	8038.8	12952.3	13331.8	11238.6	9612.1	8387.8
69°	779.5	803.0	952.6	1360.5	2611.7	6808.8	13047.4	14317.0	12369.9	9531.2	7622.4
70°	754.7	775.3	911.5	1231.4	2041.4	5710.1	12683.5	14230.5	12659.3	9223.4	7050.7
72.5°	640.5	658.3	811.5	1088.1	1659.1	2834.5	10303.0	12058.6	11359.9	7683.4	5103.6
75°	428.4	486.6	778.8	1020.0	1543.5	1610.2	6792.5	8714.1	8094.8	5182.3	2658.6
77.5°	102.9	110.7	219.9	811.5	1411.6	1417.2	3493.4	5417.1	4418.4	1847.1	628.5
80°	55.3	53.2	61.7	161.0	1314.4	1330.0	1572.6	2629.5	1577.5	306.4	207.1
82.5°	39.0	36.9	39.7	67.4	413.5	1211.5	1137.8	1190.2	654.0	117.7	92.9
85°	14.2	13.5	22.0	61.0	129.8	696.6	1169.0	981.7	529.9	53.9	68.1
87.5°	5.0	4.3	8.5	33.3	39.7	296.5	721.4	742.0	208.5	32.6	31.9
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°	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0	3265.0
2.5°	3235.9	3192.0	3111.1	3028.1	2951.5	2859.3	2813.2	2767.8	2748.6	2741.5	2708.2
5°	3142.3	3067.8	2896.2	2723.8	2564.9	2396.1	2284.7	2195.4	2142.9	2117.3	2076.9
7.5°	3022.4	2900.4	2640.1	2374.1	2126.6	1882.6	1701.7	1562.6	1466.9	1420.8	1378.9
10°	2906.1	2743.7	2373.4	2010.9	1674.7	1351.3	1101.6	920.7	805.1	751.9	717.8
12.5°	2801.8	2591.2	2115.9	1657.0	1234.9	856.2	602.2	458.2	386.6	361.8	349.7
15°	2708.9	2450.7	1872.6	1320.8	836.3	489.4	329.1	280.2	268.8	268.8	267.4
17.5°	2621.0	2313.1	1637.8	1005.1	524.9	299.3	250.4	244.0	244.0	246.8	246.8
20°	2536.6	2181.9	1410.9	721.4	330.5	237.6	226.3	224.9	226.3	229.8	229.8
22.5°	2464.2	2062.7	1198.8	495.1	245.4	214.2	208.5	206.4	207.1	209.3	210.7
25°	2410.3	1962.0	998.7	335.5	211.4	195.1	188.7	185.1	182.3	182.3	183.7
27.5°	2376.2	1876.9	805.1	244.0	190.1	177.3	167.4	161.7	155.3	151.8	153.2
30°	2351.4	1796.0	623.5	199.3	170.2	157.5	144.7	135.5	126.3	122.0	123.4
32.5°	2342.2	1730.8	466.0	175.9	152.5	138.3	122.7	110.7	100.7	97.2	97.9
35°	2367.0	1679.0	341.2	158.9	138.3	120.6	102.9	89.4	81.6	79.4	80.2
37.5°	2432.3	1651.3	255.4	144.7	125.6	105.7	85.8	73.1	68.1	68.1	68.8
40°	2555.7	1650.6	205.0	134.8	114.2	91.5	70.9	61.7	58.9	60.3	61.0
42.5°	2735.9	1688.2	178.8	125.6	104.3	78.0	58.9	52.5	51.8	53.2	53.9
45°	2982.0	1757.0	164.6	117.7	93.6	65.3	49.7	45.4	45.4	47.5	48.2
47.5°	3283.5	1857.7	152.5	109.9	83.0	54.6	42.6	39.7	40.4	42.6	43.3
50°	3646.6	1984.7	140.4	101.4	75.2	45.4	36.9	34.8	35.5	38.3	39.0
52.5°	4060.2	2155.6	130.5	93.6	65.3	37.6	31.2	29.8	31.2	34.0	34.8
55°	4414.8	2308.9	118.5	87.2	52.5	31.2	25.5	25.5	27.0	30.5	31.2
57.5°	4756.0	2469.2	107.8	75.2	41.1	24.8	21.3	22.0	24.1	27.7	28.4
60°	5256.8	2740.8	95.0	63.1	31.2	19.9	17.7	18.4	21.3	24.8	25.5
62.5°	6107.3	3154.4	82.3	52.5	24.1	15.6	14.2	15.6	19.2	23.4	24.1
65°	6874.8	3322.5	67.4	44.0	18.4	12.1	12.1	14.2	18.4	22.7	23.4
67.5°	6447.1	2796.9	52.5	34.8	14.2	9.2	9.9	13.5	17.7	22.7	23.4
69°	5701.6	2286.9	44.7	27.7	12.1	8.5	9.2	13.5	17.7	22.0	22.7
70°	5120.6	1930.8	39.7	23.4	10.6	8.5	9.2	12.8	17.7	22.0	22.7
72.5°	3429.6	1042.7	31.9	17.0	9.9	7.8	7.8	12.8	17.0	21.3	22.0
75°	1474.0	288.0	25.5	12.1	8.5	7.1	7.1	12.1	16.3	20.6	22.0
77.5°	269.5	73.1	20.6	10.6	8.5	7.1	6.4	11.3	15.6	19.9	20.6
80°	107.1	36.2	16.3	9.2	7.8	6.4	5.7	10.6	14.9	19.2	19.9
82.5°	64.5	20.6	13.5	8.5	7.8	5.7	5.0	9.2	14.2	18.4	19.2
85°	52.5	14.2	10.6	8.5	7.1	5.7	4.3	8.5	12.8	17.7	18.4
87.5°	25.5	9.9	9.9	7.8	7.1	5.7	4.3	7.8	12.1	17.0	17.7
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)