

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: P269235

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-7027-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269235  
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-SL3-7027-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 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: 11742.4 lumens  
Efficiency: N/A  
Efficacy: 91.0 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

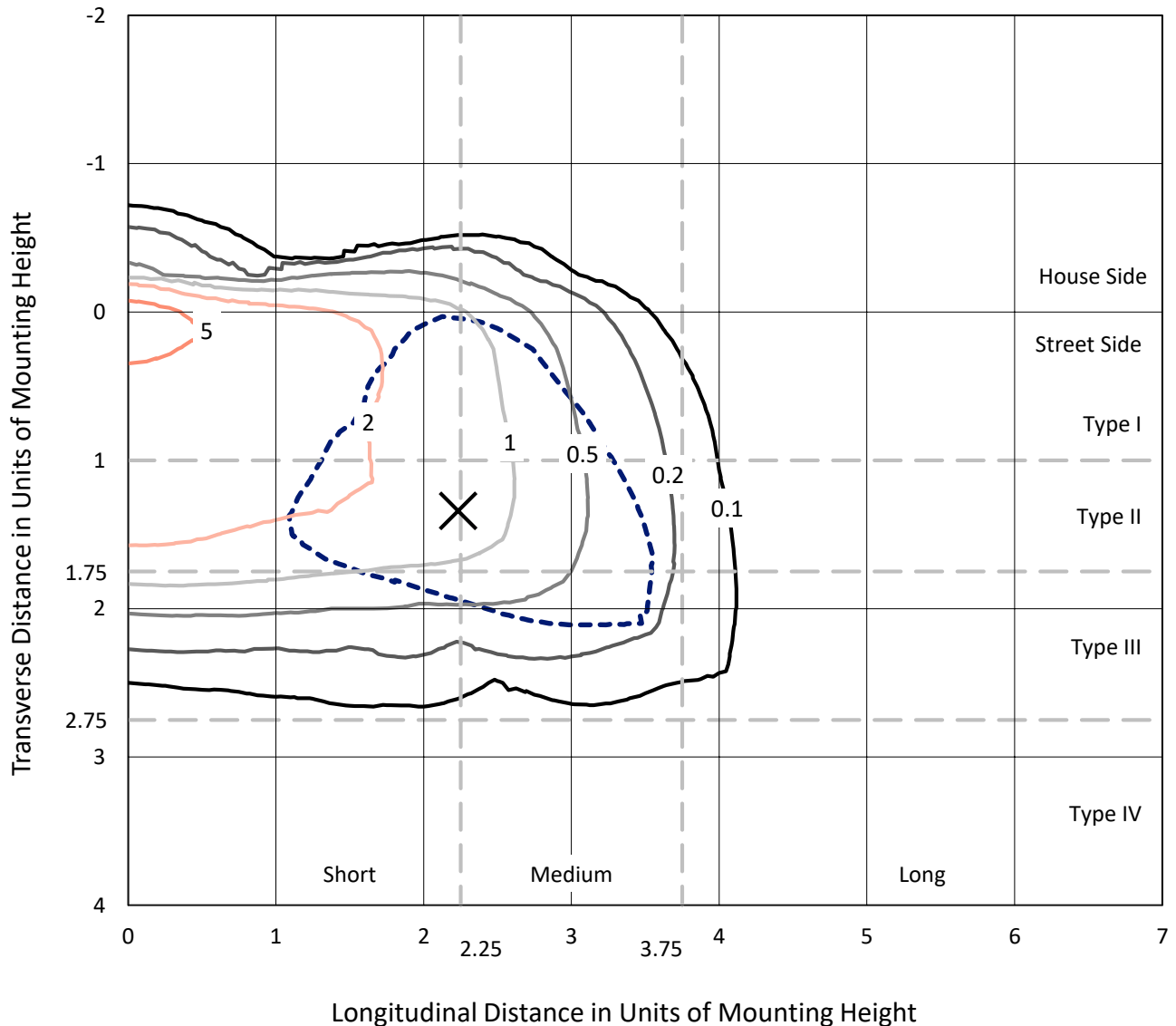


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### Iso-Footcandle Lines of Horizontal Illumination

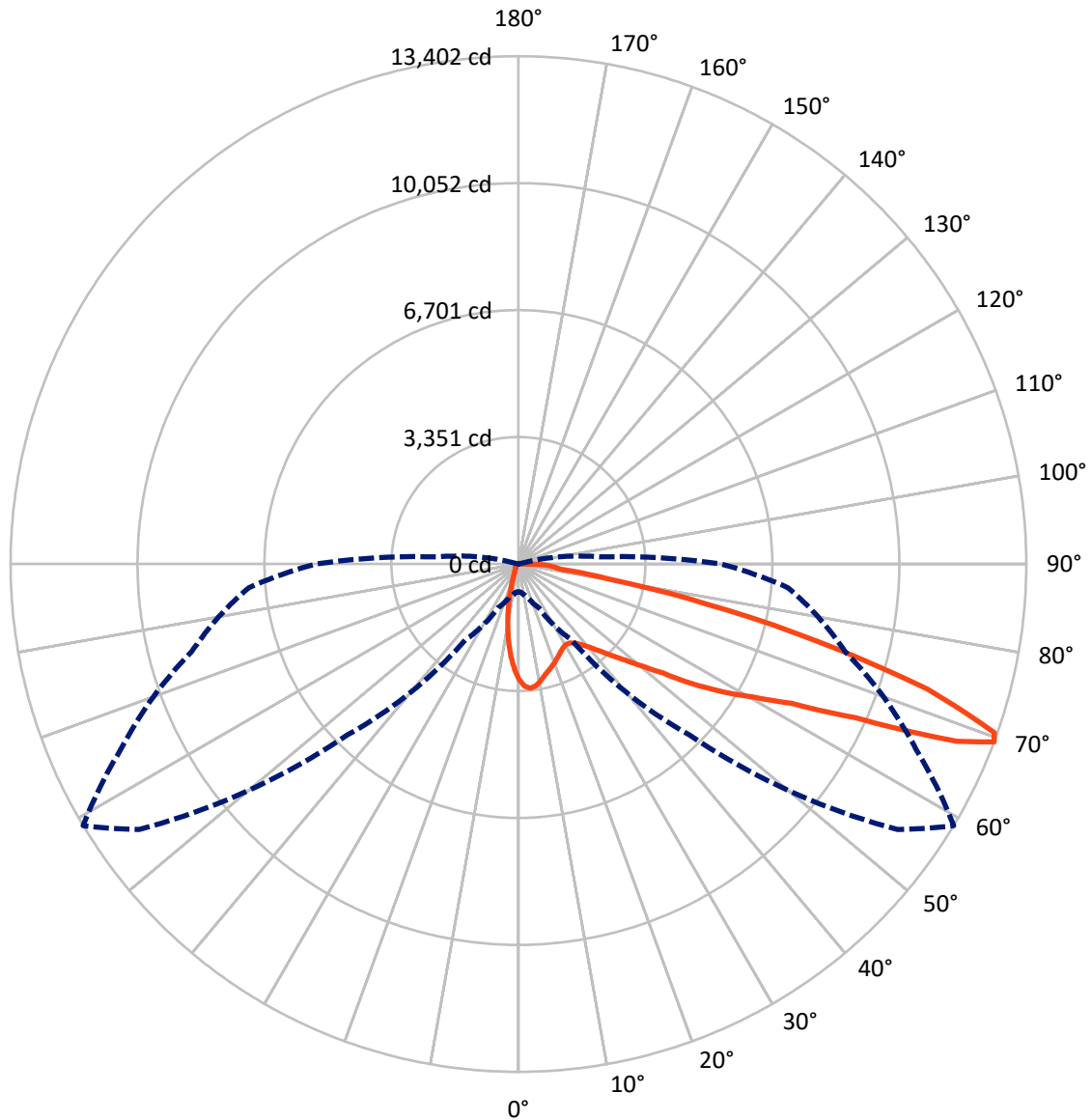
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.7 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	956.3	0.0	956.3
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	10786.2	0.0	10786.2
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	11742.4	0.0	11742.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.1	2.1
10°-20°	512.6	4.4
20°-30°	689.8	5.9
30°-40°	1001.5	8.5
40°-50°	1667.6	14.2
50°-60°	2601.5	22.2
60°-70°	3219.1	27.4
70°-80°	1631.4	13.9
80°-90°	170.7	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°	11742.4	100.0
0°-180°	11742.4	100.0



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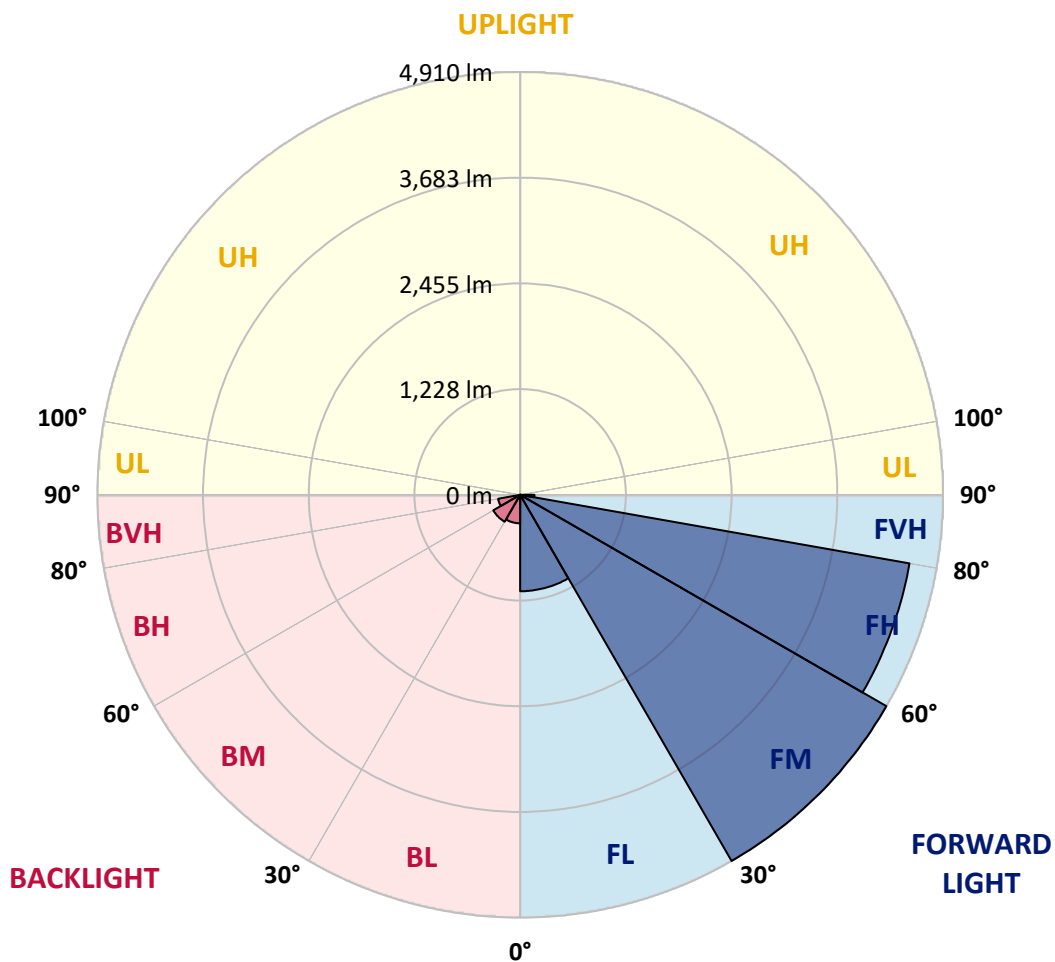
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1119.5	9.5			
FM (30°-60°)	4910.3	41.8			
FH (60°-80°)	4590.9	39.1			G2/5000
FVH (80°-90°)	165.5	1.4			G2/225
BL (0°-30°)	331.0	2.8	B1/500		
BM (30°-60°)	360.3	3.1	B1/1000		
BH (60°-80°)	259.7	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°	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5
2.5°	3349.9	3348.5	3334.0	3327.3	3315.4	3290.1	3251.0	3230.3	3197.2	3139.3	3061.8
5°	3319.3	3335.2	3343.9	3344.6	3353.3	3343.9	3308.6	3291.5	3245.7	3152.7	3013.3
7.5°	3112.2	3118.1	3142.7	3164.0	3205.2	3244.3	3257.0	3249.6	3222.4	3122.8	2937.5
10°	2890.3	2896.3	2925.6	2953.4	3009.2	3069.7	3133.4	3146.8	3158.0	3080.3	2864.4
12.5°	2699.1	2705.2	2735.0	2771.5	2836.6	2911.0	3010.0	3031.8	3081.6	3039.9	2806.0
15°	2534.5	2537.2	2566.4	2611.6	2689.2	2784.8	2897.0	2932.2	3008.7	3011.3	2754.9
17.5°	2394.4	2401.0	2419.0	2462.2	2547.1	2665.4	2796.2	2846.5	2936.2	2987.4	2705.2
20°	2308.7	2315.4	2314.8	2338.6	2415.0	2541.1	2695.2	2755.6	2864.4	2962.8	2660.7
22.5°	2292.1	2292.1	2274.9	2271.5	2316.6	2422.3	2590.3	2664.0	2800.0	2952.1	2629.5
25°	2351.3	2348.6	2305.4	2270.2	2272.3	2335.4	2488.7	2576.2	2745.6	2959.5	2612.8
27.5°	2476.1	2472.8	2418.2	2351.3	2297.4	2296.7	2411.7	2505.9	2702.6	2994.1	2619.5
30°	2648.7	2647.3	2588.2	2503.9	2406.3	2316.6	2385.1	2470.8	2674.7	3056.5	2634.8
32.5°	2837.2	2835.3	2790.9	2701.8	2578.3	2406.3	2412.9	2484.7	2682.6	3139.3	2672.0
35°	3037.1	3033.8	3014.5	2936.9	2800.7	2571.7	2504.7	2560.3	2733.1	3263.5	2745.0
37.5°	3253.7	3257.0	3270.9	3196.4	3053.8	2803.4	2657.9	2695.9	2834.6	3432.2	2863.8
40°	3573.0	3572.3	3577.1	3479.3	3342.0	3086.9	2872.5	2884.4	3004.7	3656.0	3044.4
42.5°	4152.7	4112.1	3989.4	3790.0	3652.0	3411.0	3142.7	3130.1	3212.3	3932.9	3297.4
45°	4931.5	4845.2	4526.5	4144.7	3968.1	3776.1	3475.5	3434.8	3487.3	4265.5	3609.5
47.5°	5601.6	5511.9	5061.1	4513.9	4303.4	4122.9	3865.1	3792.1	3809.4	4638.0	4005.3
50°	5829.2	5785.4	5391.6	4835.2	4628.1	4559.0	4317.3	4228.3	4203.8	5069.0	4464.0
52.5°	5750.2	5746.9	5484.6	5043.8	4925.5	5010.6	4886.4	4783.5	4693.1	5523.1	4930.8
55°	5623.4	5640.0	5522.5	5226.3	5222.3	5422.9	5664.6	5579.0	5317.2	6016.5	5333.2
57.5°	5273.5	5344.6	5501.2	5571.6	5735.0	5940.1	6312.7	6363.1	6053.7	6394.3	5667.2
60°	4278.8	4434.8	4947.4	5621.5	6395.7	6907.0	7094.9	7138.0	6658.0	6708.5	6118.0
62.5°	3037.1	3196.4	3846.5	4986.6	6405.6	8177.2	8260.2	8090.9	7323.3	7173.9	6895.7
65°	1612.2	1735.0	2266.2	3599.6	5553.7	8471.9	10298.0	9793.3	8497.2	8089.5	7900.2
67.5°	824.6	861.8	1073.0	1761.5	3817.9	7525.1	12124.7	12480.0	10520.4	8997.9	7851.8
69°	729.8	751.6	891.7	1273.5	2444.8	6373.7	12213.6	13402.3	11579.5	8922.1	7135.3
70°	706.4	725.7	853.2	1152.7	1911.1	5345.3	11873.0	13321.1	11850.4	8634.0	6600.1
72.5°	599.6	616.1	759.5	1018.6	1553.1	2653.4	9644.7	11288.0	10634.0	7192.5	4777.5
75°	401.1	455.5	729.1	954.8	1444.8	1507.3	6358.5	8157.2	7577.7	4851.1	2488.7
77.5°	96.3	103.6	205.8	759.5	1321.3	1326.6	3270.2	5071.0	4136.1	1729.1	588.3
80°	51.8	49.8	57.9	150.7	1230.4	1245.1	1472.1	2461.4	1476.8	286.9	193.9
82.5°	36.6	34.6	37.2	63.2	387.1	1134.1	1065.1	1114.2	612.3	110.2	87.0
85°	13.2	12.7	20.7	57.1	121.5	652.1	1094.2	919.0	496.0	50.5	63.7
87.5°	4.6	4.0	7.9	31.3	37.2	277.5	675.3	694.5	195.2	30.5	29.9
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°	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5	3056.5
2.5°	3029.2	2988.0	2912.3	2834.6	2762.8	2676.6	2633.4	2590.9	2573.0	2566.4	2535.1
5°	2941.5	2871.8	2711.2	2549.7	2401.0	2243.0	2138.8	2055.1	2005.9	1982.0	1944.2
7.5°	2829.3	2715.0	2471.3	2222.3	1990.6	1762.2	1593.0	1462.8	1373.1	1330.0	1290.9
10°	2720.3	2568.3	2221.8	1882.5	1567.7	1265.0	1031.2	861.8	753.7	703.8	671.9
12.5°	2622.8	2425.7	1980.8	1551.2	1155.9	801.5	563.7	428.9	361.8	338.7	327.3
15°	2535.8	2294.1	1753.0	1236.3	782.9	458.1	308.1	262.2	251.6	251.6	250.4
17.5°	2453.5	2165.4	1533.1	940.9	491.4	280.2	234.4	228.3	228.3	231.0	231.0
20°	2374.5	2042.4	1320.7	675.3	309.5	222.4	211.8	210.6	211.8	215.1	215.1
22.5°	2306.8	1930.8	1122.2	463.4	229.7	200.5	195.2	193.2	193.9	195.9	197.2
25°	2256.3	1836.7	935.0	314.0	197.8	182.5	176.6	173.4	170.7	170.7	171.9
27.5°	2224.5	1756.9	753.7	228.3	178.0	165.9	156.8	151.4	145.4	142.1	143.4
30°	2201.1	1681.3	583.7	186.6	159.4	147.4	135.5	126.8	118.1	114.3	115.5
32.5°	2192.6	1620.2	436.2	164.7	142.8	129.4	114.9	103.6	94.3	91.0	91.6
35°	2215.8	1571.7	319.3	148.7	129.4	112.8	96.3	83.6	76.4	74.4	75.0
37.5°	2276.8	1545.9	239.0	135.5	117.5	99.0	80.4	68.5	63.7	63.7	64.4
40°	2392.4	1545.2	191.9	126.1	106.9	85.7	66.5	57.9	55.2	56.5	57.1
42.5°	2561.1	1580.3	167.4	117.5	97.6	73.0	55.2	49.1	48.5	49.8	50.5
45°	2791.5	1644.7	154.1	110.2	87.7	61.1	46.5	42.5	42.5	44.5	45.2
47.5°	3073.7	1738.9	142.8	102.9	77.8	51.2	39.9	37.2	37.9	39.9	40.6
50°	3413.6	1857.9	131.5	95.0	70.3	42.5	34.6	32.5	33.1	35.8	36.6
52.5°	3800.8	2018.0	122.2	87.7	61.1	35.3	29.3	27.8	29.3	31.9	32.5
55°	4132.7	2161.3	110.9	81.7	49.1	29.3	24.0	24.0	25.2	28.6	29.3
57.5°	4452.1	2311.3	100.9	70.3	38.4	23.3	19.9	20.7	22.5	26.0	26.6
60°	4920.9	2565.6	89.0	59.1	29.3	18.5	16.6	17.2	19.9	23.3	24.0
62.5°	5717.1	2952.8	77.1	49.1	22.5	14.6	13.2	14.6	18.0	21.9	22.5
65°	6435.5	3110.2	63.2	41.1	17.2	11.3	11.3	13.2	17.2	21.2	21.9
67.5°	6035.2	2618.2	49.1	32.5	13.2	8.7	9.3	12.7	16.6	21.2	21.9
69°	5337.2	2140.8	41.9	26.0	11.3	7.9	8.7	12.7	16.6	20.7	21.2
70°	4793.4	1807.4	37.2	21.9	9.9	7.9	8.7	11.9	16.6	20.7	21.2
72.5°	3210.5	976.1	29.9	15.9	9.3	7.2	7.2	11.9	15.9	19.9	20.7
75°	1379.7	269.6	24.0	11.3	7.9	6.6	6.6	11.3	15.4	19.3	20.7
77.5°	252.3	68.5	19.3	9.9	7.9	6.6	6.0	10.6	14.6	18.5	19.3
80°	100.3	33.9	15.4	8.7	7.2	6.0	5.3	9.9	14.0	18.0	18.5
82.5°	60.5	19.3	12.7	7.9	7.2	5.3	4.6	8.7	13.2	17.2	18.0
85°	49.1	13.2	9.9	7.9	6.6	5.3	4.0	7.9	11.9	16.6	17.2
87.5°	24.0	9.3	9.3	7.2	6.6	5.3	4.0	7.2	11.3	15.9	16.6
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)