

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: P529361

Luminaire Tested: **GALN-SA4C-730-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529361  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-730-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15125 lumens  
Efficiency: N/A  
Efficacy: 71.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

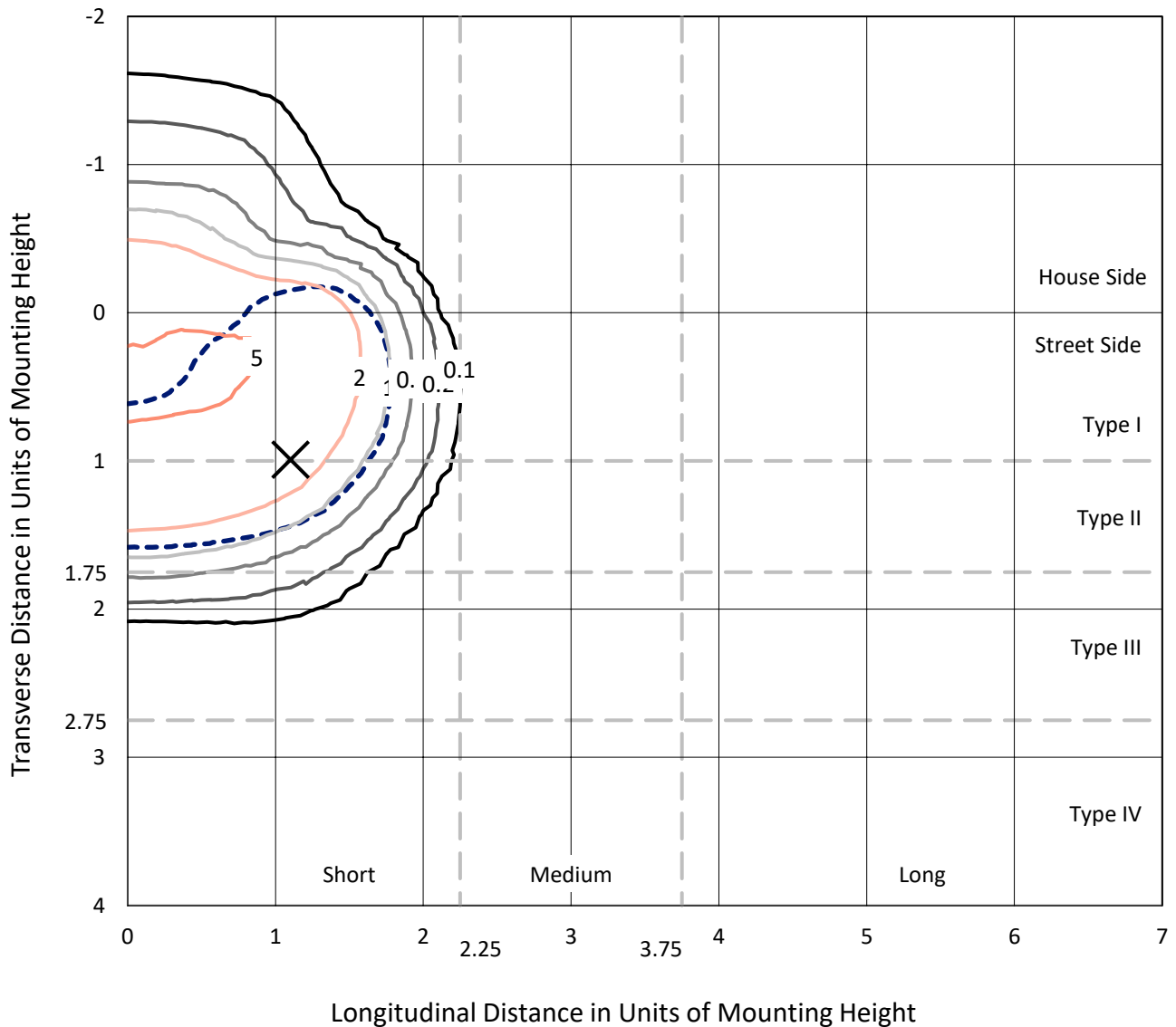
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

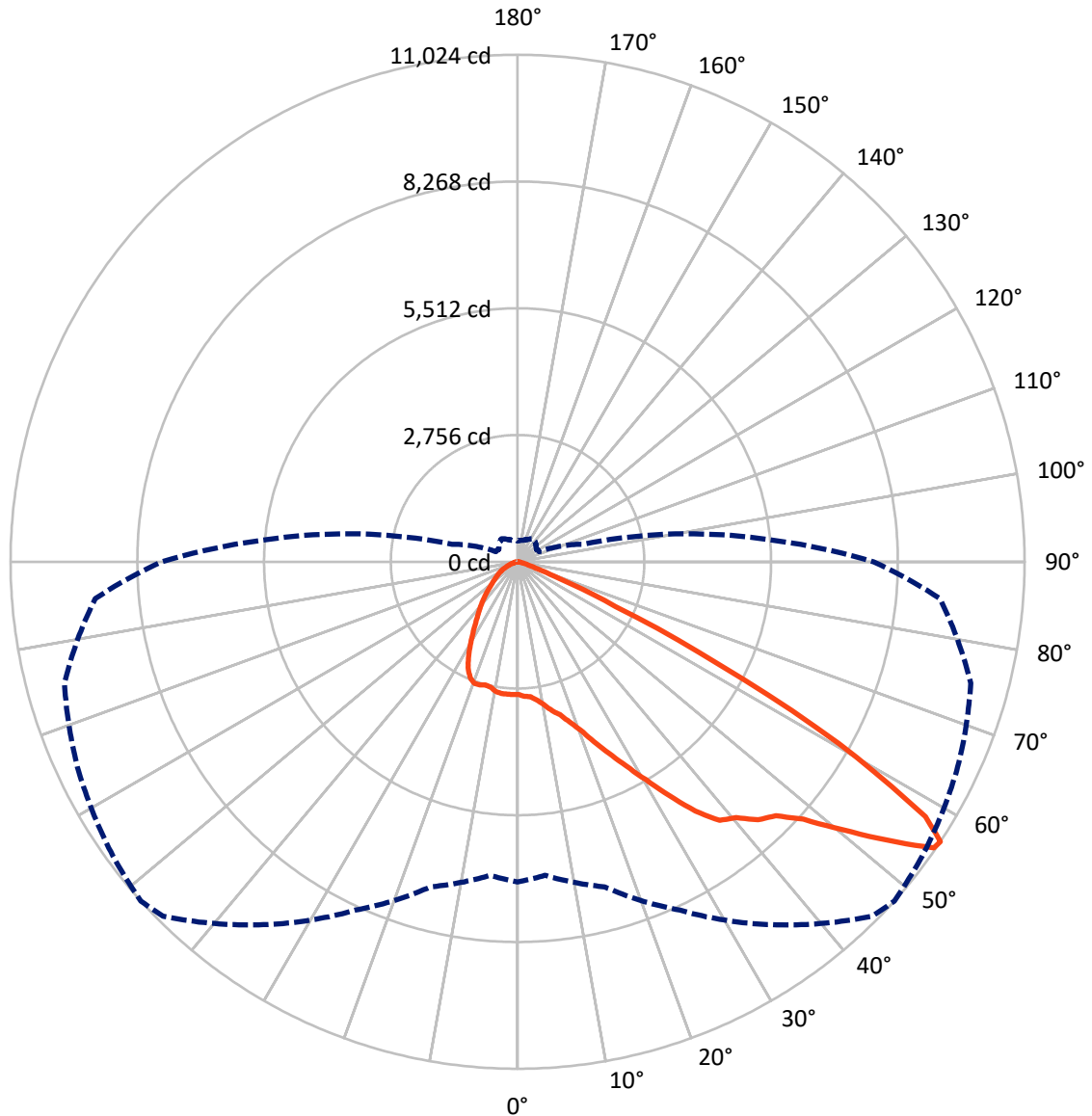
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3289.4	0.0	3289.4
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	11835.6	0.0	11835.6
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	15125.0	0.0	15125.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.4	1.9
10°-20°	899.3	5.9
20°-30°	1631.2	10.8
30°-40°	2562.3	16.9
40°-50°	3737.9	24.7
50°-60°	4503.5	29.8
60°-70°	1318.6	8.7
70°-80°	167.3	1.1
80°-90°	23.5	0.2
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°	15125.0	100.0
0°-180°	15125.0	100.0

**Coefficient of Utilization**



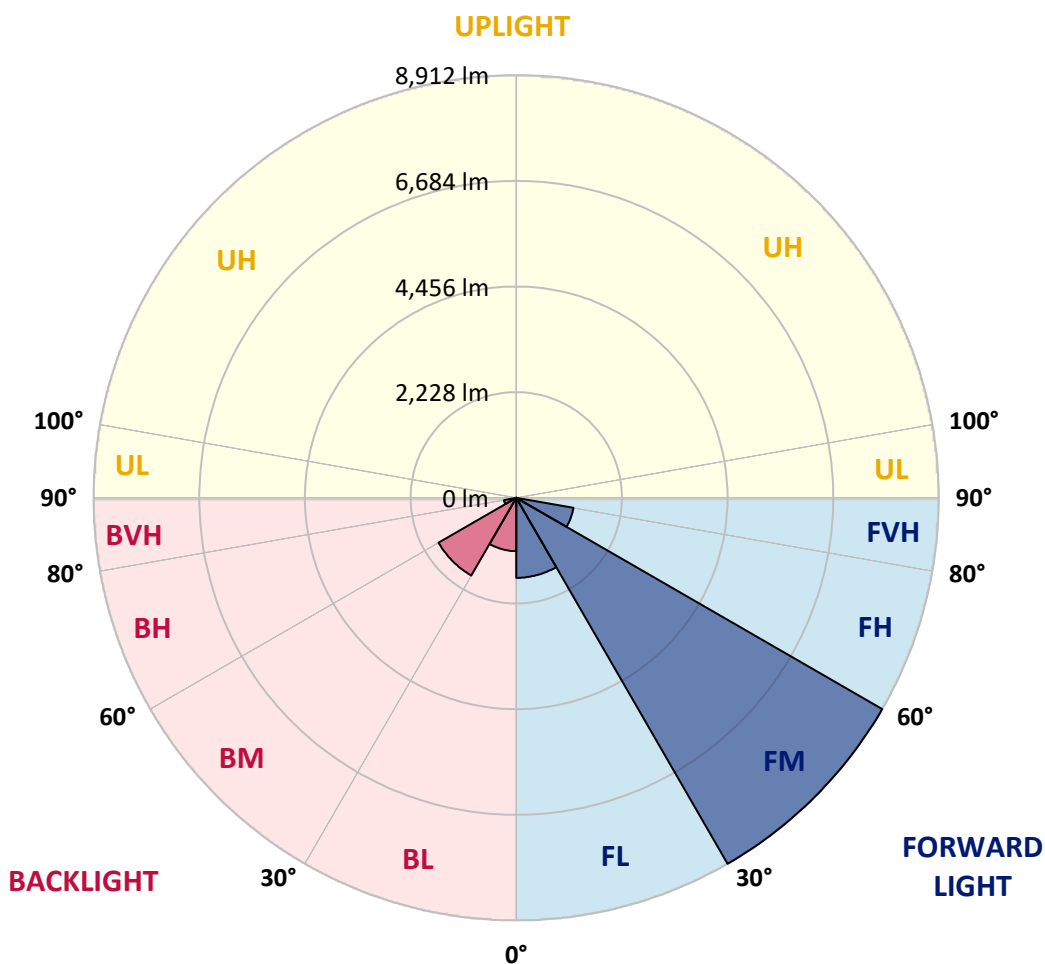
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1687.6	11.2			
FM (30°-60°)	8911.7	58.9			
FH (60°-80°)	1224.5	8.1			G1/1800
FVH (80°-90°)	11.8	0.1			G1/100
BL (0°-30°)	1124.3	7.4	B3/2500		
BM (30°-60°)	1892.1	12.5	B2/2500		
BH (60°-80°)	261.4	1.7	B1/500		G1/500
BVH (80°-90°)	11.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9
2.5°	2941.2	2927.4	2927.4	2905.4	2930.2	2919.2	2927.4	2899.9	2927.4	2886.1	2919.2
5°	2955.0	2957.7	2946.7	2960.5	2960.5	2977.0	2949.5	2974.3	2988.0	2957.7	2944.0
7.5°	3026.6	3032.1	3029.3	3018.3	3040.3	3037.6	3034.8	3015.6	3021.1	3010.1	2993.5
10°	3167.0	3164.3	3178.0	3150.5	3134.0	3153.3	3158.8	3128.5	3106.4	3098.2	3045.9
12.5°	3370.8	3337.8	3318.5	3291.0	3299.2	3271.7	3321.2	3268.9	3257.9	3208.3	3156.0
15°	3536.1	3530.5	3533.3	3489.2	3439.7	3450.7	3450.7	3423.1	3406.6	3346.0	3271.7
17.5°	3874.8	3759.1	3783.9	3728.8	3687.5	3684.8	3660.0	3665.5	3621.4	3494.7	3381.8
20°	4139.2	4089.6	4051.0	3957.4	3894.1	3913.3	3902.3	3874.8	3861.0	3695.8	3536.1
22.5°	4376.0	4392.5	4329.2	4304.4	4216.3	4224.5	4246.6	4221.8	4117.1	3946.4	3709.6
25°	4709.2	4690.0	4604.6	4574.3	4491.7	4522.0	4607.3	4588.1	4522.0	4213.5	3844.5
27.5°	5103.0	5037.0	5053.5	4915.8	4835.9	4921.3	5023.2	5119.6	4932.3	4527.5	4004.2
30°	5381.2	5312.3	5306.8	5301.3	5282.1	5381.2	5499.6	5587.7	5436.3	4841.4	4268.6
32.5°	5518.9	5535.4	5582.2	5565.7	5733.7	5937.5	6061.4	6188.1	5998.1	5353.7	4618.4
35°	5885.2	5780.5	5885.2	5896.2	6069.7	6502.0	6659.0	6962.0	6915.1	6077.9	5045.2
37.5°	6100.0	6091.7	6105.5	6210.1	6378.1	6912.4	7135.5	7369.5	7281.4	6513.1	5576.7
40°	6455.2	6477.3	6474.5	6554.4	6738.9	7220.8	7311.7	7501.7	7510.0	7116.2	6358.8
42.5°	7025.3	6937.2	6879.3	6962.0	7220.8	7488.0	7669.7	7631.2	7903.8	7848.7	7364.0
45°	7537.5	7589.9	7504.5	7642.2	7735.8	7879.0	7873.5	7956.1	8303.1	8564.7	8121.4
47.5°	8016.7	8049.8	8091.1	8184.7	8388.5	8410.5	8363.7	8327.9	8807.1	9077.0	8708.0
50°	8303.1	8333.4	8526.2	8694.2	9074.2	9123.8	9151.3	9060.5	9385.4	9415.7	9261.5
52.5°	8226.0	8259.1	8528.9	9082.5	9688.4	10142.8	10060.1	9905.9	9886.6	10005.1	9773.7
55°	7543.0	7512.7	7884.5	8746.5	9881.1	10971.7	10982.7	10820.2	10509.0	10429.2	9696.6
56°	6962.0	6843.5	7317.2	8358.2	9633.3	10900.1	11024.0	10850.5	10558.6	10200.6	9220.2
57.5°	5703.4	5816.3	6287.2	7149.2	8776.8	10385.1	10456.7	10415.4	10195.1	9594.7	8113.1
60°	3145.0	3343.3	3759.1	4813.9	6248.7	7969.9	8027.7	8363.7	8405.0	7347.5	5582.2
62.5°	1335.7	1313.6	1746.0	2522.6	3558.1	4811.1	4918.5	5262.8	5326.1	4235.6	2800.8
65°	542.5	572.8	790.4	1269.6	1880.9	2192.1	2343.6	2456.5	2665.8	1748.8	1032.7
67.5°	358.0	355.3	465.4	724.3	1013.4	977.6	977.6	1032.7	955.6	713.3	446.1
70°	256.1	264.4	333.2	501.2	630.7	468.2	448.9	429.6	487.4	470.9	360.8
72.5°	168.0	179.0	223.1	300.2	327.7	256.1	256.1	308.4	402.1	380.0	294.7
75°	110.2	112.9	137.7	173.5	162.5	132.2	146.0	206.5	291.9	280.9	209.3
77.5°	74.4	77.1	93.6	112.9	90.9	74.4	79.9	104.6	143.2	143.2	110.2
80°	27.5	30.3	38.6	35.8	41.3	52.3	57.8	71.6	85.4	85.4	74.4
82.5°	0.0	2.8	8.3	19.3	30.3	41.3	46.8	55.1	63.3	71.6	68.8
85°	0.0	2.8	8.3	13.8	22.0	24.8	27.5	19.3	16.5	16.5	13.8
87.5°	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8	5.5	2.8	2.8
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°	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9	2888.9
2.5°	2888.9	2886.1	2886.1	2877.9	2894.4	2886.1	2891.6	2888.9	2853.1	2880.6	2861.3
5°	2919.2	2938.5	2908.2	2902.7	2880.6	2888.9	2888.9	2861.3	2886.1	2883.4	2877.9
7.5°	2996.3	2963.2	2930.2	2897.1	2891.6	2883.4	2853.1	2842.1	2861.3	2839.3	2872.4
10°	3029.3	3034.8	2985.3	2941.2	2899.9	2842.1	2800.8	2776.0	2745.7	2778.7	2798.0
12.5°	3180.8	3125.7	3040.3	2971.5	2831.0	2773.2	2731.9	2720.9	2773.2	2784.2	2765.0
15°	3233.1	3224.9	3114.7	2960.5	2814.5	2745.7	2753.9	2731.9	2737.4	2709.9	2715.4
17.5°	3340.5	3246.9	3117.5	2924.7	2811.8	2795.2	2745.7	2657.6	2608.0	2585.9	2605.2
20°	3458.9	3368.1	3180.8	2938.5	2836.6	2792.5	2630.0	2522.6	2420.7	2365.6	2368.4
22.5°	3563.6	3450.7	3153.3	2944.0	2858.6	2676.8	2481.3	2269.2	2142.6	2057.2	2059.9
25°	3690.3	3530.5	3164.3	2955.0	2800.8	2492.3	2211.4	2004.9	1853.4	1795.6	1814.8
27.5°	3761.9	3580.1	3224.9	2979.8	2649.3	2230.7	1927.8	1735.0	1646.9	1619.3	1616.6
30°	3976.7	3690.3	3299.2	2930.2	2395.9	1949.8	1668.9	1550.5	1465.1	1440.3	1445.8
32.5°	4296.1	3891.3	3395.6	2800.8	2137.1	1699.2	1500.9	1412.8	1332.9	1286.1	1280.6
35°	4563.3	4235.6	3497.5	2599.7	1836.9	1506.4	1382.5	1272.3	1151.1	1098.8	1085.1
37.5°	5072.8	4623.9	3475.5	2296.8	1550.5	1363.2	1255.8	1120.9	1016.2	944.6	936.3
40°	5750.2	5078.3	3368.1	1927.8	1338.4	1236.5	1120.9	991.4	862.0	801.4	795.9
42.5°	6573.7	5634.6	3172.5	1553.2	1126.4	1109.8	1005.2	856.5	740.8	696.7	699.5
45°	7242.9	6111.0	2974.3	1247.5	969.4	985.9	895.0	754.6	674.7	638.9	638.9
47.5°	7837.7	6433.2	2759.4	1030.0	823.4	862.0	782.1	699.5	630.7	603.1	597.6
50°	8410.5	6760.9	2544.6	834.4	702.3	740.8	732.5	666.5	611.4	578.3	581.1
52.5°	8768.5	6813.2	2272.0	683.0	614.1	658.2	685.7	625.1	564.6	545.3	539.8
55°	8330.7	6138.5	1762.5	561.8	520.5	578.3	630.7	561.8	515.0	481.9	479.2
56°	7741.3	5488.6	1473.4	517.7	493.0	556.3	611.4	537.0	484.7	465.4	451.6
57.5°	6554.4	4491.7	1087.8	459.9	457.2	517.7	581.1	512.2	451.6	435.1	435.1
60°	4086.8	2528.1	658.2	385.6	396.6	459.9	523.2	457.2	402.1	402.1	410.3
62.5°	1861.7	1052.0	399.3	327.7	341.5	396.6	465.4	413.1	382.8	413.1	418.6
65°	633.4	454.4	289.2	261.6	269.9	327.7	399.3	418.6	415.8	435.1	446.1
67.5°	355.3	291.9	242.3	217.6	212.1	242.3	327.7	418.6	402.1	393.8	399.3
70°	300.2	247.9	214.8	192.8	184.5	195.5	253.4	316.7	283.7	275.4	269.9
72.5°	242.3	206.5	187.3	173.5	148.7	126.7	115.7	121.2	134.9	143.2	157.0
75°	170.7	157.0	157.0	140.5	107.4	79.9	63.3	52.3	35.8	24.8	27.5
77.5°	96.4	96.4	99.1	85.4	68.8	52.3	38.6	27.5	13.8	5.5	2.8
80°	66.1	71.6	77.1	68.8	57.8	46.8	33.0	19.3	8.3	0.0	0.0
82.5°	66.1	74.4	79.9	68.8	57.8	44.1	33.0	19.3	8.3	2.8	0.0
85°	13.8	16.5	19.3	22.0	33.0	33.0	24.8	16.5	8.3	2.8	0.0
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	0.0	0.0
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)