

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: P530062

Luminaire Tested: **GALN-SA5B-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530062  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-730-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22805 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

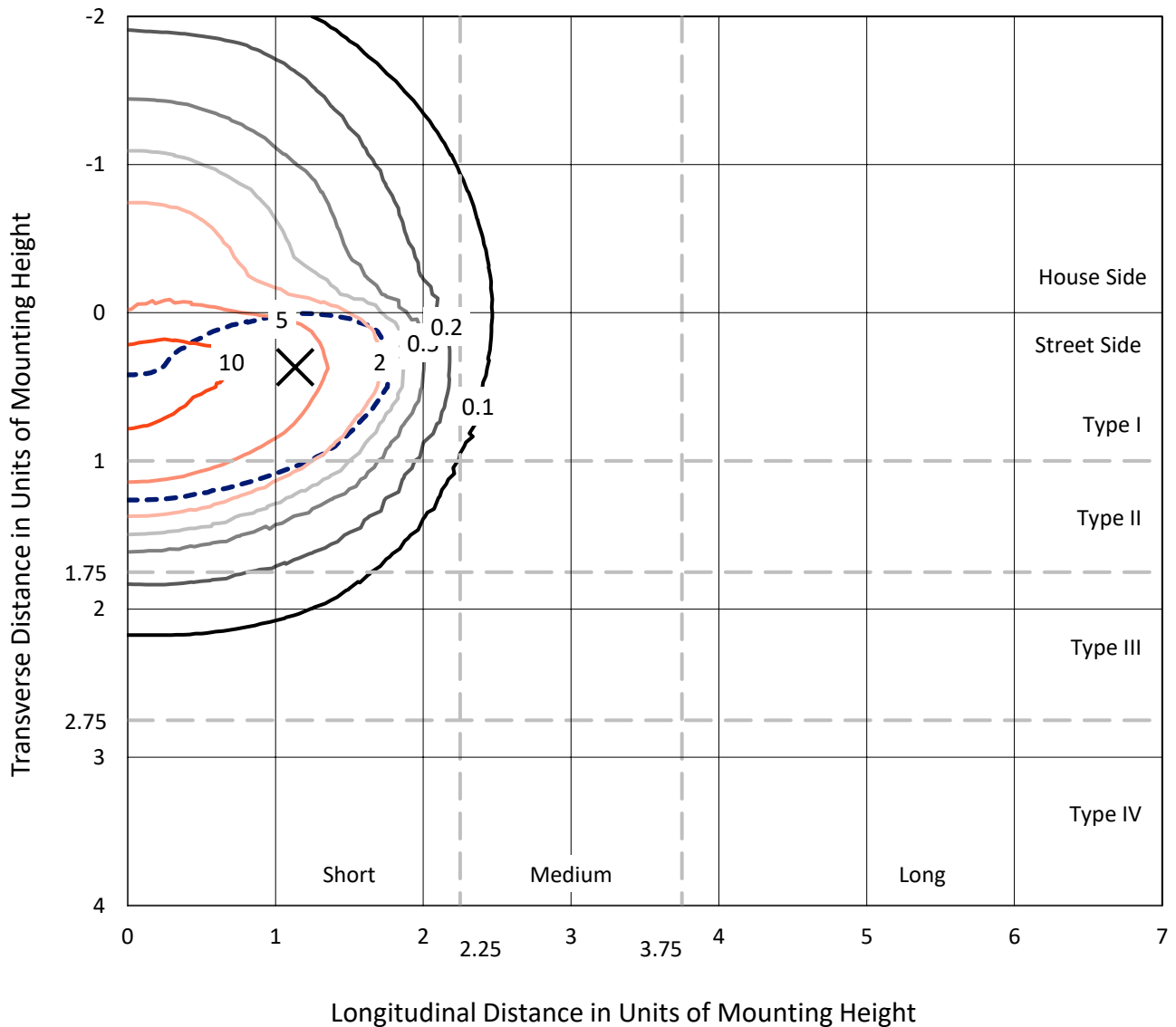
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

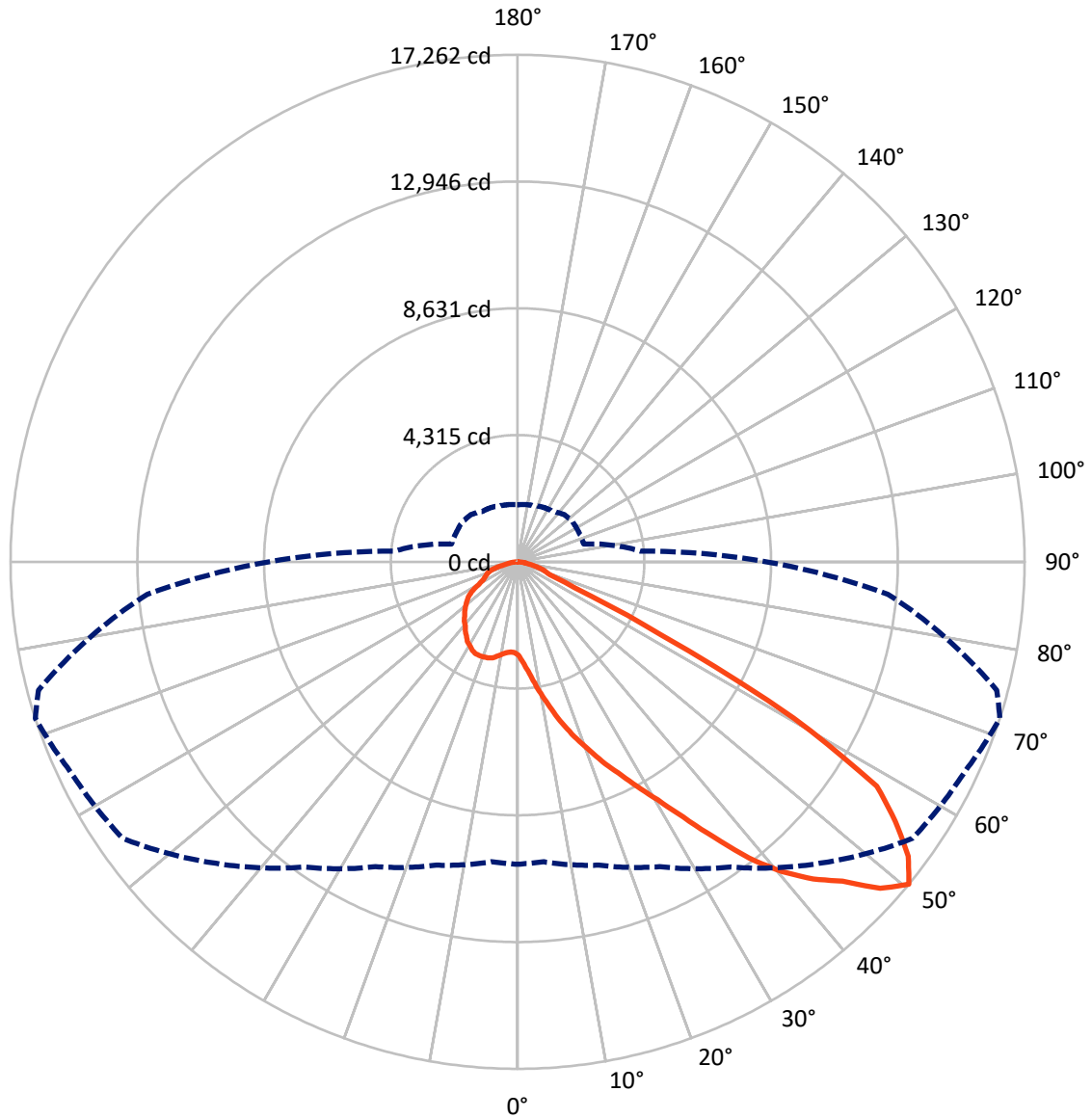
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5224.8	0.0	5224.8
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	17580.2	0.0	17580.2
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	22805.0	0.0	22805.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	373.4	1.6
10°-20°	1396.0	6.1
20°-30°	2706.7	11.9
30°-40°	4484.0	19.7
40°-50°	6274.1	27.5
50°-60°	5293.0	23.2
60°-70°	1613.3	7.1
70°-80°	566.0	2.5
80°-90°	98.4	0.4
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°	22805.0	100.0
0°-180°	22805.0	100.0

**Coefficient of Utilization**



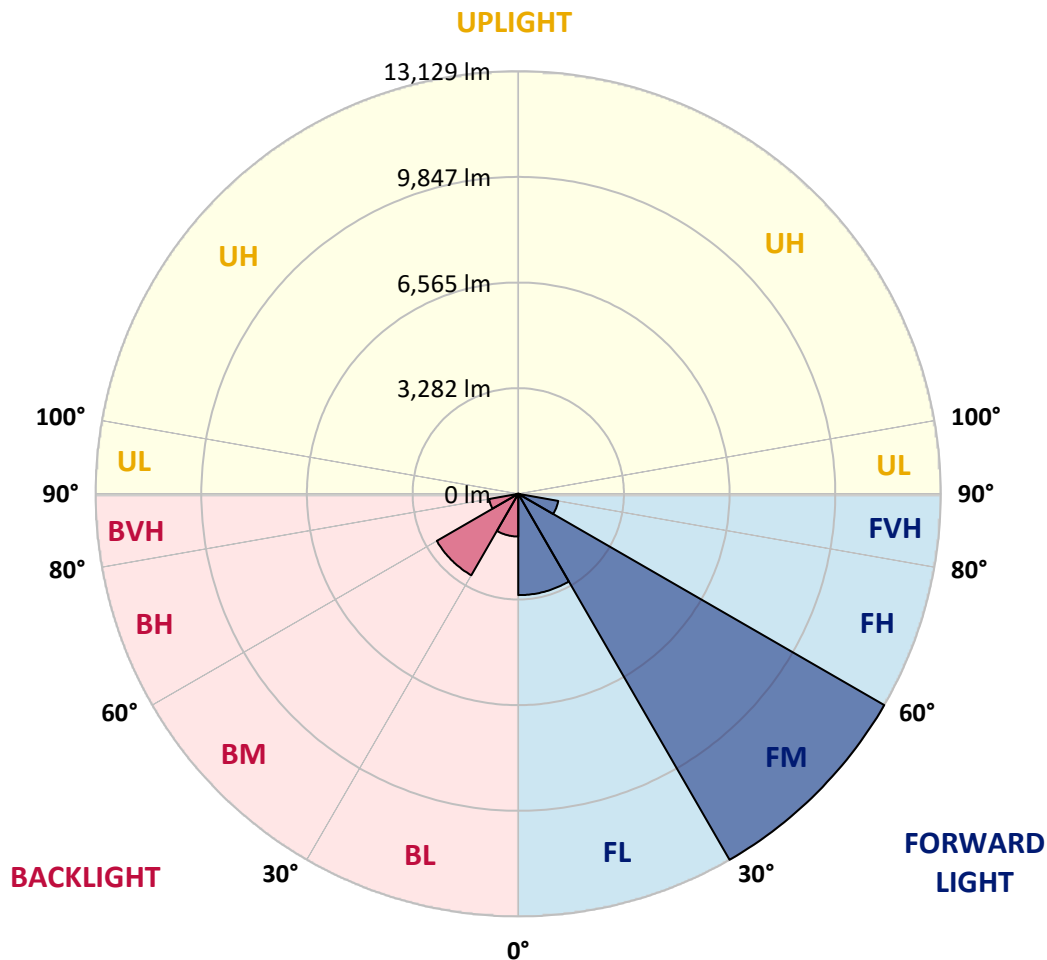
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3147.9	13.8			
FM (30°-60°)	13129.5	57.6			
FH (60°-80°)	1258.8	5.5			G1/1800
FVH (80°-90°)	44.1	0.2			G1/100
BL (0°-30°)	1328.2	5.8	B3/2500		
BM (30°-60°)	2921.8	12.8	B3/5000		
BH (60°-80°)	920.5	4.0	B2/1000		G2/1000
BVH (80°-90°)	54.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7
2.5°	4083.3	4057.9	3981.7	3956.3	3866.0	3702.3	3645.9	3479.4	3408.9	3344.0	3267.8
5°	5164.1	5045.6	5037.1	4893.2	4684.4	4563.0	4201.8	3959.1	3736.2	3623.3	3414.5
7.5°	5852.6	5855.5	5855.5	5736.9	5570.5	5262.9	4938.3	4500.9	4165.1	3998.6	3643.1
10°	6507.3	6450.9	6419.8	6408.6	6295.7	5996.6	5649.5	5107.7	4647.7	4453.0	3815.2
12.5°	6970.1	6922.1	6992.7	6956.0	6874.2	6679.5	6352.1	5734.1	5158.5	4896.0	4091.8
15°	7190.2	7224.1	7280.5	7382.1	7345.4	7272.1	6910.9	6377.5	5708.7	5412.4	4337.3
17.5°	7528.9	7435.7	7503.5	7630.4	7732.0	7698.2	7492.2	6843.1	6253.4	5889.3	4667.4
20°	7765.9	7712.3	7746.1	7892.9	7969.1	8161.0	8053.7	7452.7	6775.4	6391.6	5056.9
22.5°	8443.2	8364.1	8254.1	8276.7	8304.9	8440.3	8465.7	8121.5	7382.1	6975.8	5426.5
25°	9278.4	9205.1	9075.3	8942.6	8860.8	8835.4	8922.9	8646.3	7963.4	7543.0	5824.4
27.5°	10198.4	10074.2	9992.4	9718.7	9498.6	9464.7	9422.4	9272.8	8652.0	8197.7	6273.1
30°	11092.9	10994.2	10884.1	10446.7	10218.1	10181.5	9972.6	10015.0	9399.8	8894.7	6781.1
32.5°	11770.2	11778.7	11527.5	11197.3	10982.9	10788.2	10712.0	10833.3	10359.2	9952.9	7348.3
35°	12317.6	12343.0	12103.2	11804.1	11572.7	11708.1	11674.2	11730.7	11504.9	11008.3	8008.6
37.5°	12851.0	12724.0	12467.2	12323.3	12201.9	12424.9	12712.7	12760.7	12803.0	12218.9	8776.1
40°	12938.5	12949.8	12800.2	12901.8	12749.4	13085.2	13754.0	13691.9	13864.1	13353.3	9608.6
42.5°	12814.3	12839.7	12899.0	13042.9	13409.7	13813.3	14806.6	14552.6	14761.4	14307.1	10418.5
45°	12611.1	12506.7	12580.1	13127.5	13762.5	14659.8	15768.8	15571.3	15503.6	15122.6	11383.6
47.5°	11640.4	11747.6	11976.2	12650.6	13604.4	14806.6	16451.7	16406.6	16609.8	16341.7	12261.2
50°	10294.3	10252.0	10692.2	11451.3	12681.7	14518.7	16415.1	16824.2	17261.6	16889.1	12653.5
52.5°	7709.5	7935.2	8313.4	9255.9	11011.1	12949.8	15613.6	16296.5	16652.1	16573.1	12337.4
55°	4873.4	4941.2	5169.7	6290.0	7870.3	10393.1	13384.3	14967.4	15602.3	15898.6	12046.7
57.5°	2367.6	2240.6	2520.0	3420.2	4546.1	6989.9	10322.6	13037.2	14417.1	14953.3	11414.6
60°	1236.0	1284.0	1394.0	1715.7	2350.7	3629.0	6434.0	8688.7	10796.6	11620.6	8652.0
62.5°	1024.4	1041.3	1114.7	1275.5	1563.3	2088.2	3284.7	4235.7	5505.5	6247.7	4921.4
65°	869.1	877.6	956.6	1063.9	1247.3	1470.2	1690.3	1769.3	2141.8	2198.3	1749.6
67.5°	725.2	733.7	818.4	919.9	1038.5	1097.7	1154.2	1148.5	1190.8	1173.9	1171.1
70°	558.7	567.2	654.7	761.9	821.2	787.3	962.3	1001.8	1018.7	1032.8	1055.4
72.5°	403.5	420.5	488.2	564.4	533.3	612.4	793.0	852.2	874.8	883.3	911.5
75°	293.5	299.1	316.1	293.5	338.6	426.1	558.7	632.1	660.3	668.8	711.1
77.5°	129.8	132.6	135.5	169.3	217.3	265.3	333.0	392.2	431.8	443.0	454.3
80°	67.7	70.5	87.5	115.7	155.2	194.7	242.7	276.5	301.9	304.8	316.1
82.5°	42.3	45.2	62.1	81.8	110.1	143.9	177.8	206.0	225.8	228.6	231.4
85°	19.8	25.4	36.7	50.8	73.4	93.1	95.9	81.8	87.5	90.3	84.7
87.5°	5.6	8.5	11.3	8.5	11.3	11.3	14.1	16.9	16.9	16.9	19.8
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°	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7
2.5°	3225.4	3200.0	3101.3	3064.6	2968.7	2985.6	2934.8	2932.0	2920.7	2917.9	2915.0
5°	3304.5	3225.4	3106.9	3016.6	2963.0	2957.4	2920.7	2920.7	2932.0	2940.4	2920.7
7.5°	3434.3	3344.0	3143.6	3059.0	3011.0	3002.5	2977.1	2957.4	2982.8	2974.3	2951.7
10°	3583.8	3425.8	3214.2	3140.8	3061.8	3042.0	3042.0	3050.5	3008.2	3022.3	2999.7
12.5°	3750.3	3538.7	3304.5	3219.8	3126.7	3115.4	3109.7	3047.7	3070.2	3059.0	3002.5
15°	3962.0	3668.5	3420.2	3276.2	3197.2	3146.4	3073.1	3061.8	3047.7	3019.4	2994.0
17.5°	4190.5	3809.6	3473.8	3293.2	3174.7	3138.0	3081.5	3022.3	2979.9	2985.6	2965.8
20°	4385.3	3939.4	3493.5	3310.1	3157.7	3087.2	2999.7	2963.0	2917.9	2915.0	2912.2
22.5°	4616.6	4114.3	3521.7	3265.0	3106.9	3033.6	2974.3	2909.4	2878.3	2838.8	2858.6
25°	4893.2	4182.1	3527.4	3239.6	3070.2	2940.4	2909.4	2838.8	2827.6	2771.1	2782.4
27.5°	5093.6	4218.8	3482.2	3160.5	2985.6	2886.8	2830.4	2779.6	2759.8	2717.5	2706.2
30°	5361.6	4275.2	3386.3	3061.8	2900.9	2790.9	2757.0	2745.7	2689.3	2644.1	2638.5
32.5°	5666.4	4311.9	3324.2	2960.2	2813.4	2728.8	2745.7	2692.1	2621.6	2582.0	2570.8
35°	5909.1	4326.0	3169.0	2844.5	2754.2	2700.6	2680.8	2669.5	2567.9	2531.3	2503.0
37.5°	6278.8	4294.9	3039.2	2762.7	2689.3	2669.5	2652.6	2576.4	2460.7	2407.1	2367.6
40°	6710.5	4286.5	2872.7	2647.0	2627.2	2649.8	2599.0	2480.5	2319.6	2260.4	2232.1
42.5°	7125.3	4345.7	2768.3	2584.9	2559.5	2567.9	2497.4	2319.6	2240.6	2206.7	2161.6
45°	7819.5	4469.9	2596.2	2488.9	2477.6	2472.0	2387.3	2201.1	2155.9	2113.6	2105.1
47.5°	8446.0	4388.1	2486.1	2390.2	2401.4	2370.4	2189.8	2130.5	2079.7	2037.4	2023.3
50°	8482.7	4193.4	2330.9	2314.0	2316.8	2263.2	2091.0	2051.5	1986.6	1958.4	1938.7
52.5°	8290.8	3874.5	2187.0	2192.6	2201.1	2113.6	1969.7	1941.5	1887.9	1848.4	1837.1
55°	7751.8	3377.8	2045.9	2068.5	2091.0	1924.5	1879.4	1808.8	1766.5	1710.1	1712.9
57.5°	6829.0	2720.3	1848.4	1885.0	1933.0	1749.6	1715.7	1628.2	1566.2	1521.0	1515.4
60°	4577.1	1935.8	1552.1	1566.2	1673.4	1600.0	1597.2	1509.7	1425.1	1385.6	1363.0
62.5°	2700.6	1478.7	1340.4	1326.3	1323.5	1365.8	1436.4	1405.3	1295.3	1219.1	1241.6
65°	1413.8	1278.3	1247.3	1199.3	1171.1	1159.8	1213.4	1227.5	1154.2	1072.3	1066.7
67.5°	1188.0	1188.0	1162.6	1145.7	1106.2	1058.2	1024.4	979.2	967.9	945.3	917.1
70°	1080.8	1109.0	1100.5	1061.0	1027.2	973.6	886.1	812.7	742.2	716.8	733.7
72.5°	942.5	970.7	970.7	951.0	905.8	824.0	739.3	654.7	595.4	550.3	544.6
75°	725.2	739.3	773.2	750.6	691.4	640.6	553.1	465.6	409.2	366.8	358.4
77.5°	462.8	485.4	485.4	482.5	440.2	392.2	335.8	273.7	231.4	200.4	191.9
80°	307.6	321.7	333.0	321.7	293.5	256.8	214.5	172.1	141.1	115.7	110.1
82.5°	225.8	242.7	251.2	239.9	211.6	183.4	152.4	121.3	90.3	70.5	64.9
85°	87.5	90.3	101.6	121.3	118.5	115.7	93.1	67.7	50.8	36.7	33.9
87.5°	22.6	19.8	22.6	22.6	19.8	16.9	16.9	16.9	16.9	8.5	11.3
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)