

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: P533966

Luminaire Tested: **GALN-SA9B-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533966  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-830-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35784 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

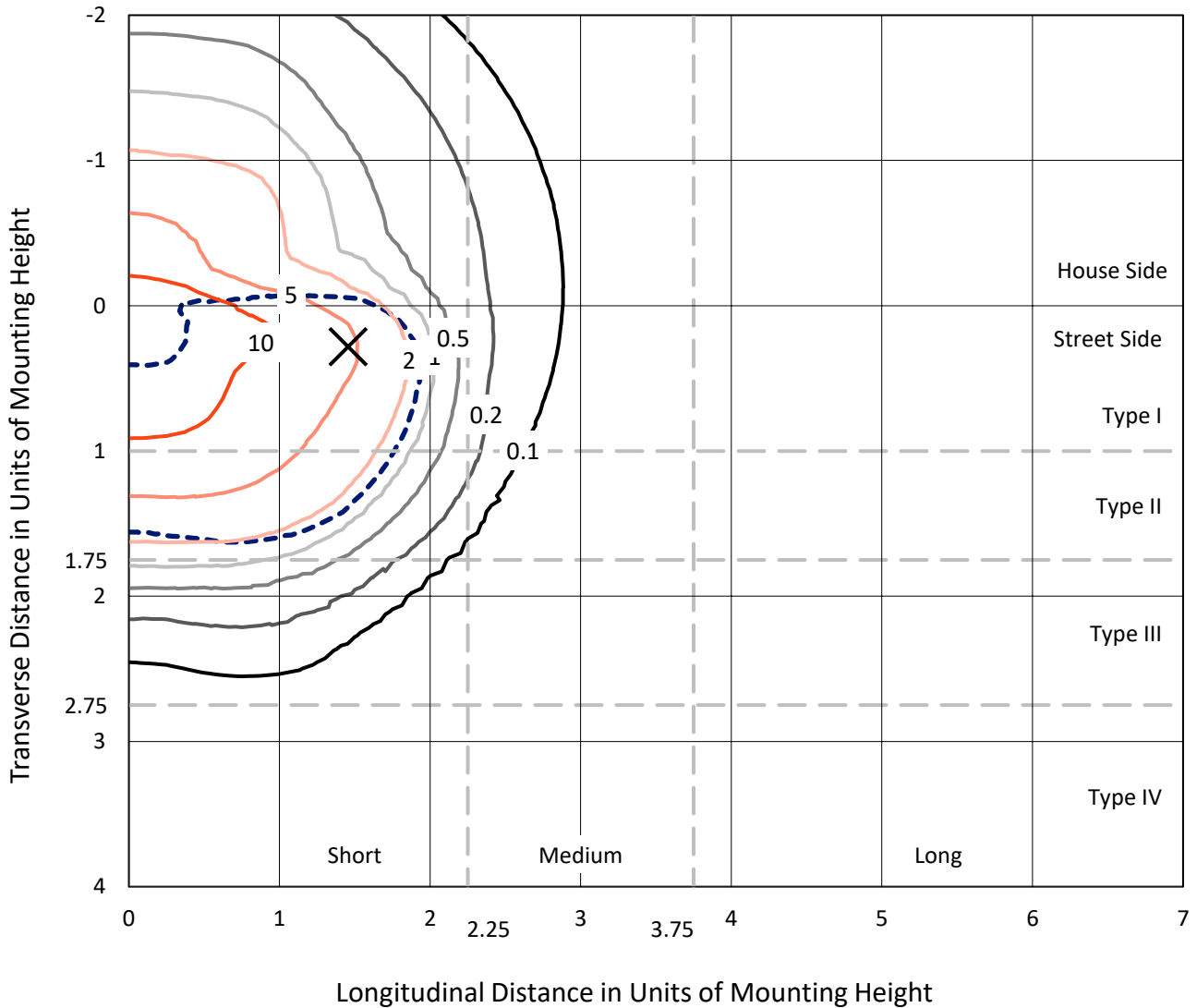
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

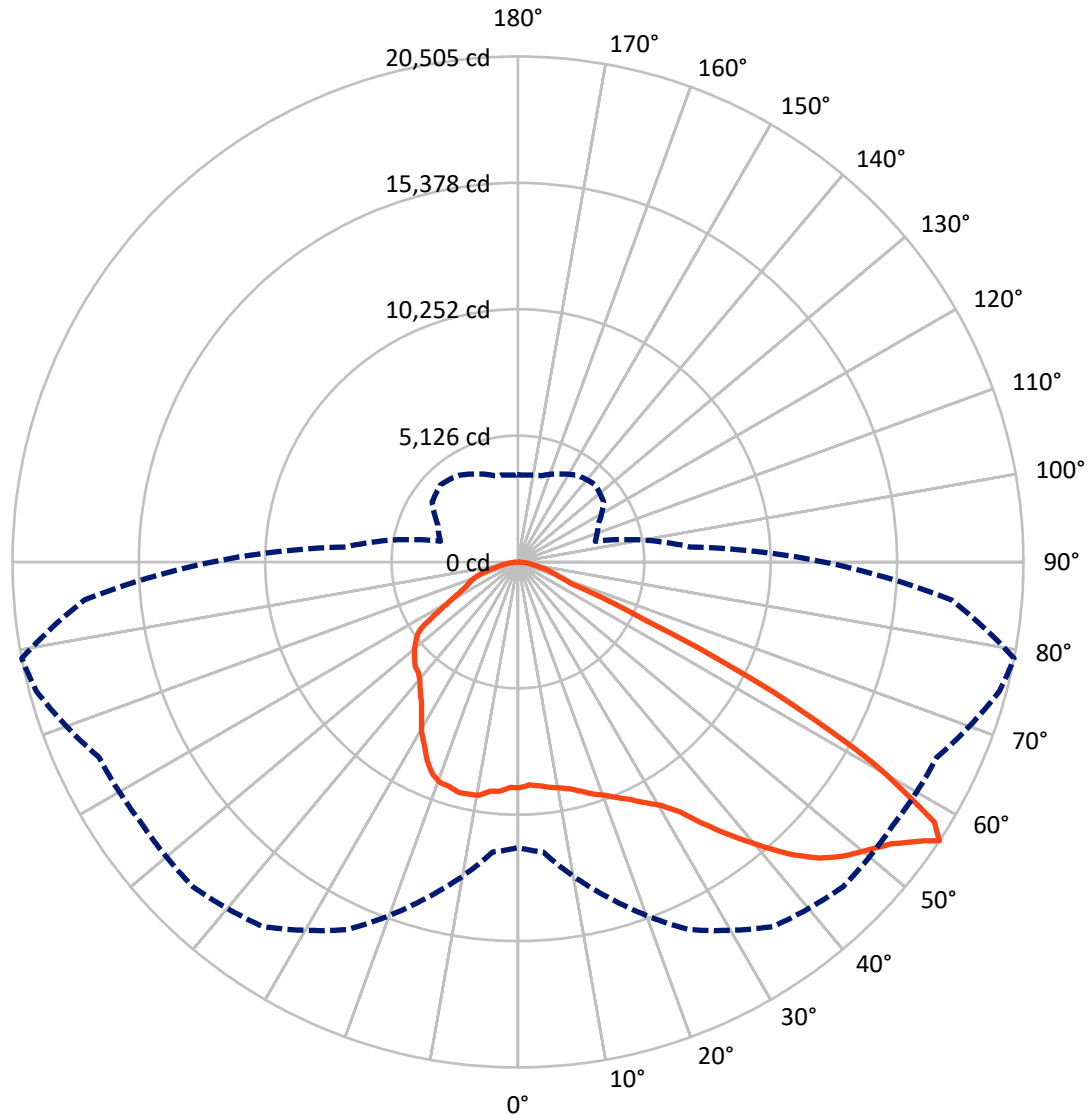
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10567.8	0.0	10567.8
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	25216.2	0.0	25216.2
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	35784.0	0.0	35784.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	832.4	2.3
10°-20°	2278.1	6.4
20°-30°	3897.4	10.9
30°-40°	5973.3	16.7
40°-50°	8072.9	22.6
50°-60°	9272.0	25.9
60°-70°	4226.4	11.8
70°-80°	1042.0	2.9
80°-90°	189.4	0.5
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°	35784.0	100.0
0°-180°	35784.0	100.0



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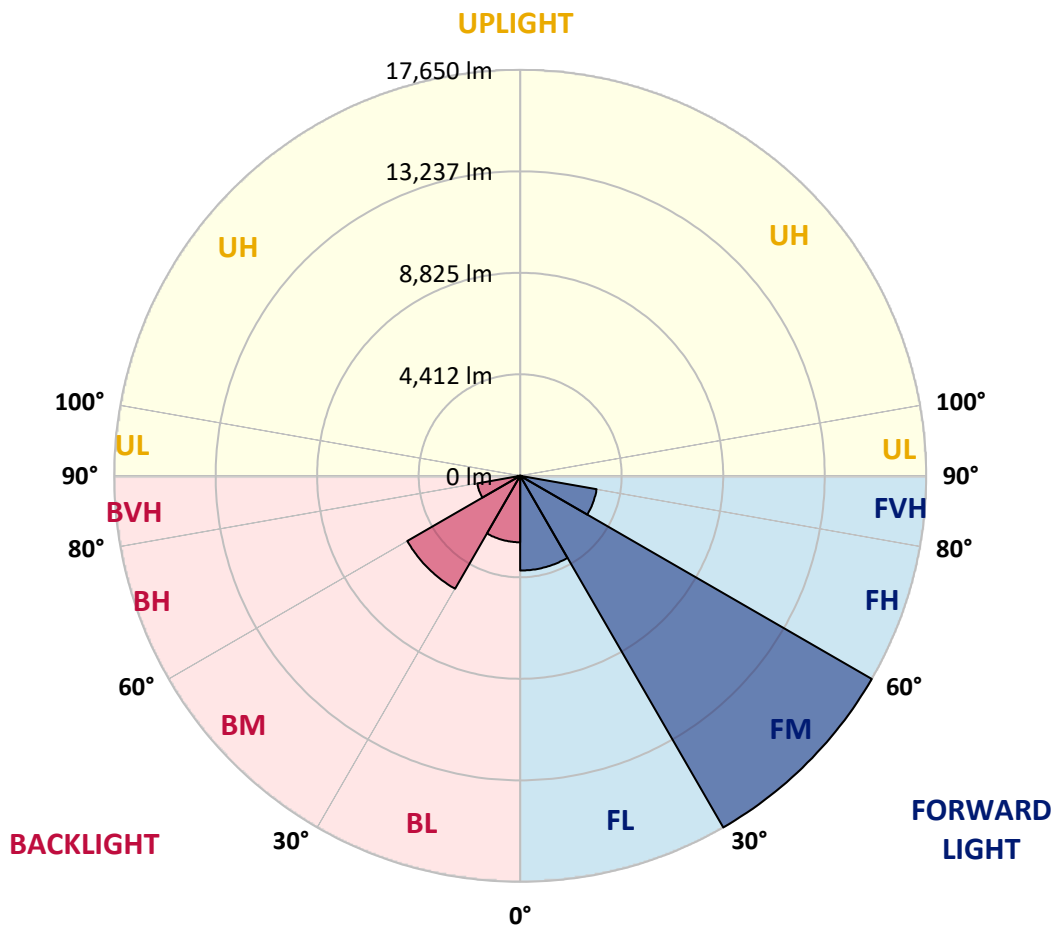
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4117.2	11.5			
FM (30°-60°)	17649.7	49.3			
FH (60°-80°)	3373.6	9.4			G2/5000
FVH (80°-90°)	75.6	0.2			G1/100
BL (0°-30°)	2890.7	8.1	B4/5000		
BM (30°-60°)	5668.4	15.8	B4/8500		
BH (60°-80°)	1894.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	113.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	9155.7	9155.7	9155.7	9155.7	9155.7	9155.7	9155.7	9155.7	9155.7	9155.7	9155.7
2.5°	8710.0	8687.7	8741.2	8781.3	8830.3	8892.7	8923.9	8941.7	9097.8	9057.6	9178.0
5°	8522.7	8464.8	8504.9	8536.1	8620.8	8696.6	8781.3	8915.0	9057.6	9120.0	9267.1
7.5°	8357.8	8326.6	8317.7	8340.0	8455.9	8553.9	8701.0	8897.2	9129.0	9231.5	9316.2
10°	8085.9	8041.3	8108.2	8255.3	8286.5	8491.5	8660.9	8941.7	9142.3	9320.6	9570.3
12.5°	7965.6	7921.0	7934.4	8019.0	8237.5	8433.6	8634.2	8950.7	9374.1	9445.4	9779.8
15°	8157.2	8112.7	8126.0	8103.7	8313.2	8415.8	8732.2	9129.0	9534.6	9654.9	10011.5
17.5°	8594.1	8598.5	8540.6	8491.5	8442.5	8660.9	8879.3	9235.9	9597.0	9900.1	10167.6
20°	9427.6	9280.5	9164.6	8888.3	8812.5	8906.1	9182.5	9525.7	9851.1	10100.7	10403.8
22.5°	10069.5	10082.9	9917.9	9463.3	9298.3	9338.5	9574.7	9855.5	10212.1	10390.4	10738.1
25°	11001.1	10907.5	10729.2	10368.1	9998.2	10029.4	10203.2	10457.3	10555.4	10680.2	11059.1
27.5°	11852.5	11879.2	11527.1	11188.3	10729.2	10640.1	10952.1	10996.7	10831.7	11068.0	11197.2
30°	12717.3	12695.0	12463.2	12066.5	11616.2	11634.1	11772.3	11553.8	11326.5	11455.8	11544.9
32.5°	13613.2	13359.1	13350.2	12993.6	12650.4	12485.5	12316.1	12423.1	12070.9	12097.7	12013.0
35°	14330.9	14366.5	14161.5	13907.4	13738.0	13448.3	12984.7	13176.4	13109.5	13078.3	12712.8
37.5°	14852.4	14714.2	14816.7	14732.0	14571.6	14210.5	13729.1	13911.9	13943.1	14094.6	13671.2
40°	15280.3	15222.4	15494.3	15538.9	15427.4	14647.4	13782.6	14326.4	14794.4	15124.3	14620.6
42.5°	15485.4	15610.2	15895.5	16238.7	15989.1	15155.5	14059.0	14642.9	15685.9	16207.5	15521.0
45°	15761.7	15601.3	16024.7	16653.2	16657.7	15583.4	14326.4	15070.8	16381.3	17139.1	16136.2
47.5°	15480.9	15561.1	15998.0	16795.9	17000.9	16033.6	15048.5	15677.0	17148.0	17821.1	16706.7
50°	14852.4	15012.9	15810.8	16639.9	17259.4	16510.6	15877.6	16332.3	17856.8	18369.4	16800.3
52.5°	14197.1	14286.3	15534.4	16760.2	17375.3	17125.7	16987.5	17237.2	18721.5	18989.0	16916.2
55°	12414.1	12837.6	14620.6	16706.7	17941.4	18235.6	18128.7	18494.2	19702.2	19969.6	17549.2
56°	11589.5	11812.4	14072.3	16457.1	18052.9	18641.3	18587.8	18752.7	20223.7	20504.5	17647.2
57.5°	10065.0	10082.9	11999.6	15351.6	17633.9	18761.6	18708.1	18837.4	20121.2	19929.5	16787.0
60°	6298.4	6574.8	8166.1	11807.9	14995.0	17406.5	17709.7	16671.1	16965.3	16559.6	13060.5
62.5°	3262.9	3222.8	4279.2	6904.7	9953.6	12463.2	12744.0	12695.0	12240.3	11647.5	8531.7
65°	1627.0	1635.9	2237.7	3418.9	5099.4	6525.8	7310.3	7395.0	6187.0	5692.2	4047.4
67.5°	1181.2	1225.8	1609.2	2090.6	2402.6	2687.9	3294.1	3231.7	2447.2	2326.8	2157.4
70°	918.2	958.4	1306.0	1595.8	1448.7	1448.7	1578.0	1631.4	1742.9	1791.9	1849.9
72.5°	668.6	699.8	998.5	1101.0	949.4	1020.8	1181.2	1306.0	1421.9	1439.8	1506.6
75°	459.1	485.9	655.3	606.2	570.6	704.3	864.8	980.7	1065.3	1109.9	1150.0
77.5°	298.7	307.6	374.4	316.5	365.5	454.7	561.6	659.7	744.4	780.1	789.0
80°	133.7	147.1	160.5	200.6	254.1	325.4	401.2	481.4	534.9	548.3	575.0
82.5°	75.8	75.8	98.1	142.6	187.2	236.2	289.7	347.7	410.1	423.5	419.0
85°	40.1	40.1	57.9	84.7	115.9	138.2	133.7	138.2	147.1	169.4	164.9
87.5°	13.4	13.4	17.8	17.8	22.3	26.7	22.3	31.2	40.1	40.1	40.1
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°	9155.7	9155.7	9155.7	9155.7	9155.7	9155.7	9155.7	9155.7	9155.7	9155.7	9155.7
2.5°	9142.3	9182.5	9129.0	9244.9	9244.9	9222.6	9111.1	9146.8	9173.5	9173.5	9195.8
5°	9316.2	9302.8	9338.5	9200.3	9115.6	9084.4	8901.6	8812.5	8736.7	8732.2	8665.4
7.5°	9414.2	9378.6	9365.2	9262.7	8888.3	8660.9	8268.7	8041.3	7992.3	7818.5	7885.3
10°	9570.3	9637.1	9570.3	9013.1	8491.5	7970.0	7586.7	7234.5	7096.3	6984.9	6918.0
12.5°	9891.2	9860.0	9472.2	8718.9	7987.8	7368.3	6797.7	6427.7	6289.5	6191.5	6182.6
15°	10163.1	10007.1	9414.2	8255.3	7203.3	6543.6	6075.6	5812.6	5750.2	5759.1	5799.2
17.5°	10256.7	10149.7	9111.1	7773.9	6619.4	5843.8	5625.4	5585.2	5643.2	5710.1	5727.9
20°	10403.8	10234.4	8986.3	7118.6	5897.3	5406.9	5393.6	5536.2	5643.2	5741.3	5754.6
22.5°	10711.4	10283.5	8580.7	6499.0	5402.5	5277.7	5406.9	5527.3	5692.2	5772.5	5701.1
25°	10800.5	10176.5	8010.1	5754.6	5090.5	5197.4	5335.6	5500.6	5616.5	5661.0	5692.2
27.5°	10876.3	10011.5	7239.0	5259.9	4992.4	5193.0	5335.6	5473.8	5536.2	5576.3	5612.0
30°	11090.3	9962.5	6570.4	4930.0	4930.0	5103.8	5286.6	5322.3	5406.9	5456.0	5518.4
32.5°	11197.2	9623.7	5883.9	4720.5	4867.6	5148.4	5161.8	5228.6	5233.1	5273.2	5206.4
35°	11478.1	9383.0	5246.5	4568.9	4894.3	5103.8	5170.7	5130.6	4912.2	4805.2	4827.5
37.5°	11683.1	9262.7	4787.4	4551.1	4898.8	5152.9	5188.5	4885.4	4658.1	4479.8	4524.4
40°	12235.8	8964.0	4439.7	4519.9	4938.9	5206.4	5108.3	4778.4	4368.4	4185.6	4154.4
42.5°	12659.3	8750.1	4221.3	4484.2	4970.1	5282.1	5068.2	4564.5	4145.5	3976.1	4020.7
45°	13149.6	8701.0	4105.4	4493.2	5023.6	5322.3	5019.1	4399.6	3953.8	3886.9	3873.6
47.5°	13323.5	8348.9	3980.5	4417.4	5010.2	5308.9	4854.2	4274.7	3882.5	3891.4	3927.1
50°	13033.7	7987.8	3886.9	4261.4	4921.1	5188.5	4595.7	4109.8	3842.4	3953.8	4016.2
52.5°	12663.8	7617.9	3695.3	4051.9	4738.3	5001.3	4475.3	4100.9	3802.2	3766.6	3780.0
55°	12775.2	7314.8	3427.8	3766.6	4444.1	4653.6	4341.6	4016.2	3704.2	3570.5	3615.0
56°	12414.1	7002.7	3254.0	3588.3	4243.5	4430.8	4274.7	3940.4	3623.9	3534.8	3534.8
57.5°	11393.4	5955.2	3026.6	3303.0	3820.1	4043.0	4145.5	3895.9	3534.8	3378.8	3383.2
60°	8402.4	4234.6	2714.6	2910.7	3164.8	3343.1	3820.1	3771.0	3311.9	3204.9	3164.8
62.5°	5179.6	3093.5	2491.7	2567.5	2696.8	2843.9	3334.2	3414.4	3075.7	2959.8	2933.0
65°	2901.8	2366.9	2322.4	2353.6	2416.0	2491.7	2768.1	2946.4	2714.6	2536.3	2527.4
67.5°	2121.8	2117.3	2153.0	2179.7	2206.5	2206.5	2273.3	2344.6	2313.4	2170.8	2157.4
70°	1885.5	1898.9	1925.6	1930.1	1939.0	1907.8	1854.3	1832.0	1867.7	1778.5	1760.7
72.5°	1555.7	1600.2	1631.4	1635.9	1586.9	1546.8	1475.4	1399.7	1372.9	1355.1	1350.6
75°	1194.6	1225.8	1239.2	1234.7	1216.9	1159.0	1074.3	998.5	949.4	896.0	922.7
77.5°	806.8	851.4	873.7	873.7	846.9	757.8	717.7	659.7	610.7	552.7	561.6
80°	566.1	597.3	633.0	628.5	583.9	539.4	481.4	427.9	387.8	343.2	338.8
82.5°	423.5	441.3	459.1	450.2	419.0	374.4	334.3	285.3	240.7	209.5	209.5
85°	151.6	164.9	200.6	209.5	227.3	227.3	191.7	160.5	129.3	107.0	107.0
87.5°	44.6	44.6	49.0	49.0	44.6	49.0	40.1	44.6	49.0	31.2	31.2
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)