

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: P530311

Luminaire Tested: **GALN-SA5C-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530311  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-735-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19144 lumens  
Efficiency: N/A  
Efficacy: 71.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

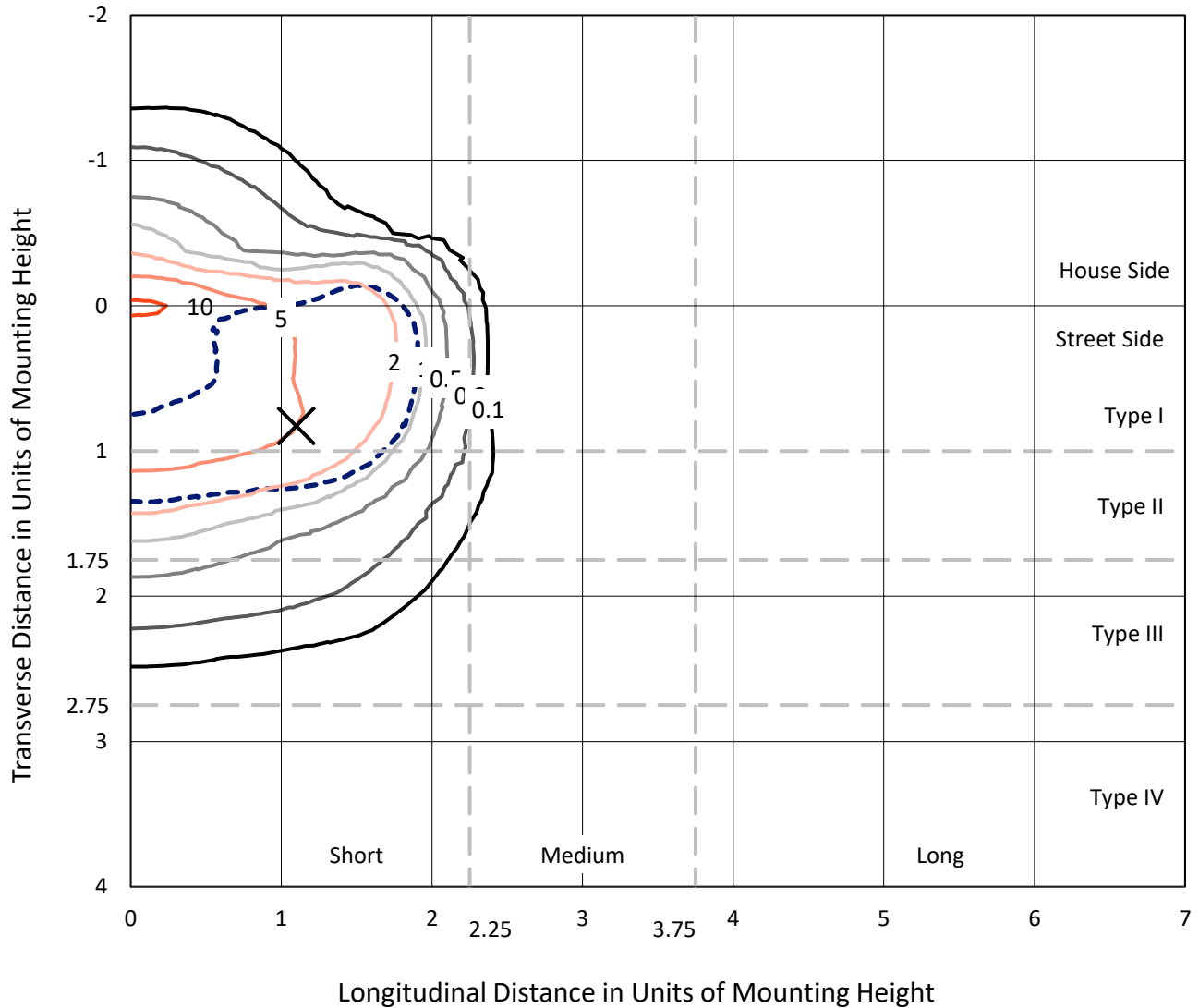
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

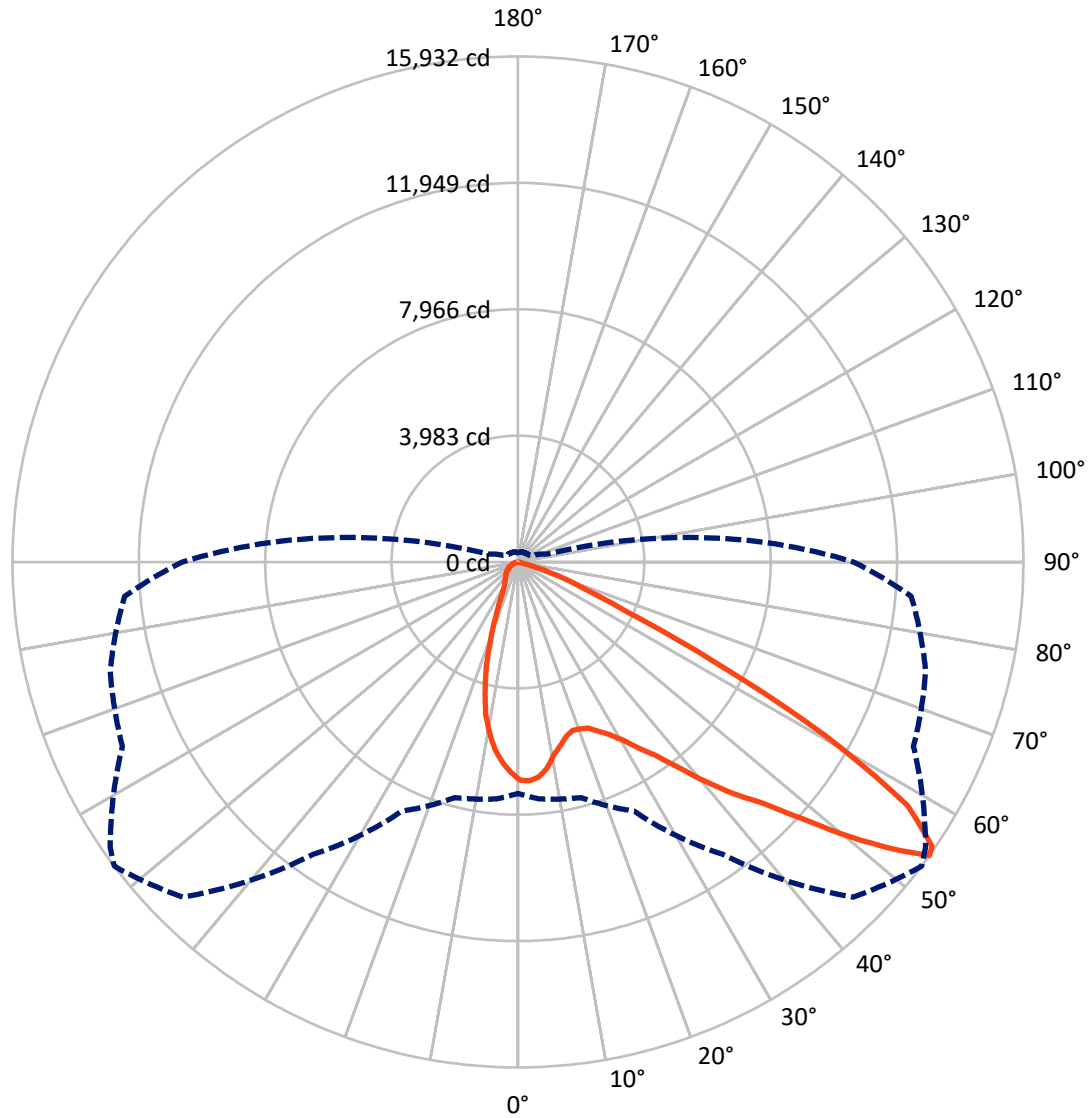
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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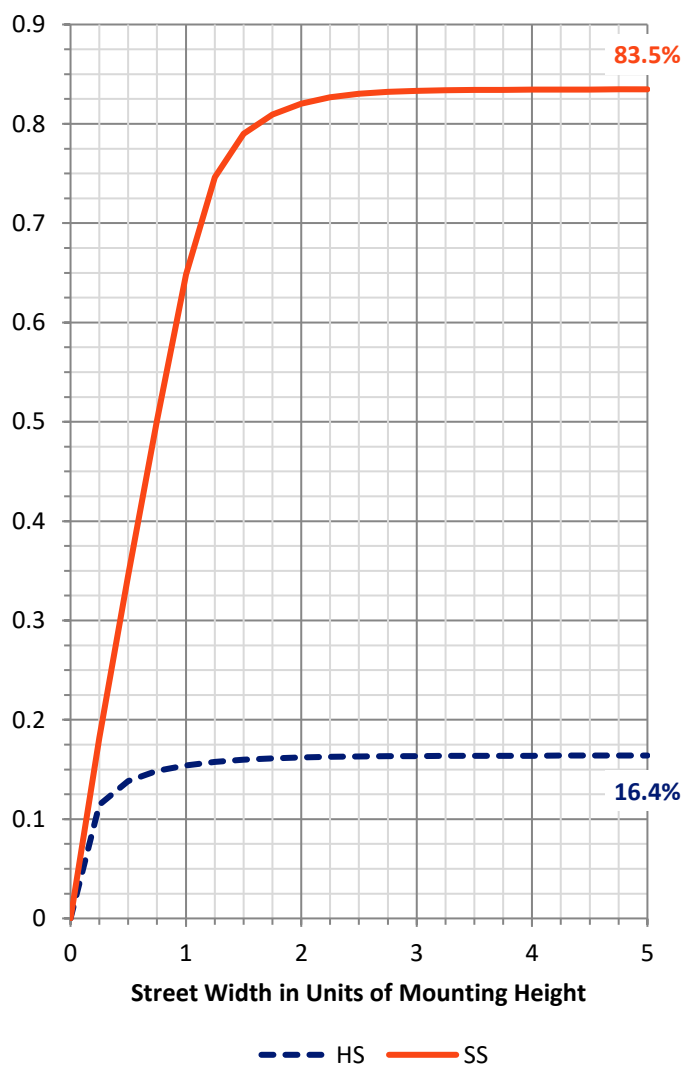
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3167.4	0.0	3167.4
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	15976.6	0.0	15976.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	19144.0	0.0	19144.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	590.0	3.1
10°-20°	1352.6	7.1
20°-30°	1922.3	10.0
30°-40°	2966.7	15.5
40°-50°	4651.4	24.3
50°-60°	5403.3	28.2
60°-70°	2041.7	10.7
70°-80°	194.1	1.0
80°-90°	21.8	0.1
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°	19144.0	100.0
0°-180°	19144.0	100.0

**Coefficient of Utilization**

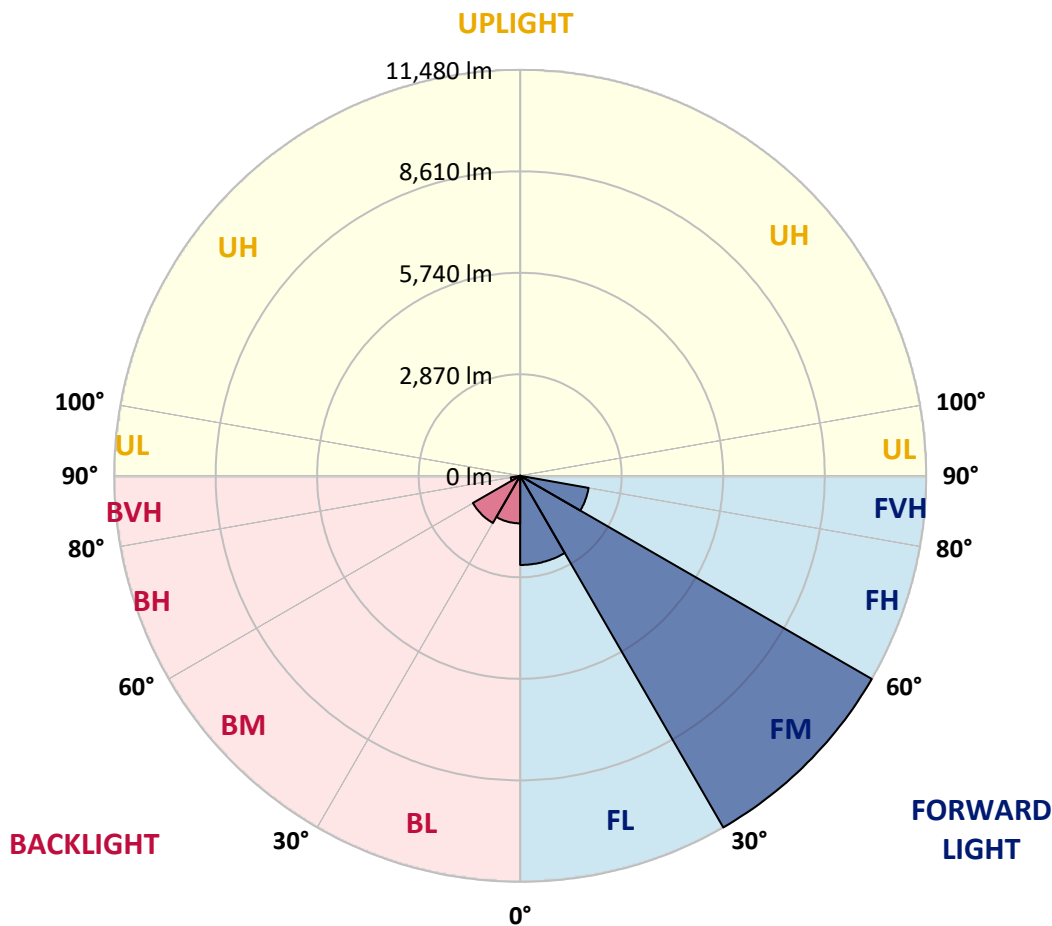


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2520.8	13.2			
FM (30°-60°)	11480.1	60.0			
FH (60°-80°)	1964.5	10.3			G2/5000
FVH (80°-90°)	11.3	0.1			G1/100
BL (0°-30°)	1344.1	7.0	B3/2500		
BM (30°-60°)	1541.4	8.1	B2/2500		
BH (60°-80°)	271.4	1.4	B1/500		G1/500
BVH (80°-90°)	10.6	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6876.2	6876.2	6876.2	6876.2	6876.2	6876.2	6876.2	6876.2	6876.2	6876.2	6876.2
2.5°	6840.5	6779.9	6840.5	6847.7	6890.5	6929.7	6904.7	6961.8	6929.7	6894.0	6883.3
5°	6287.7	6369.8	6373.3	6501.7	6473.2	6708.6	6812.0	6783.5	6958.2	6947.5	6922.6
7.5°	5792.0	5759.9	5802.7	5952.5	6141.5	6412.6	6562.4	6558.8	6808.4	6986.8	6968.9
10°	5331.9	5328.3	5417.5	5535.2	5695.7	5981.0	6187.9	6291.3	6680.0	6951.1	6990.3
12.5°	5021.6	5007.4	5103.7	5199.9	5453.2	5674.3	5938.2	5988.1	6434.0	6826.3	6890.5
15°	4818.3	4850.4	4857.6	5043.0	5203.5	5496.0	5702.8	5806.3	6319.8	6726.4	6972.5
17.5°	4782.7	4825.5	4829.0	4982.4	5153.6	5399.7	5581.6	5720.7	6223.5	6776.3	6976.1
20°	4854.0	4829.0	4850.4	4946.7	5114.4	5349.7	5613.7	5660.0	6191.4	6801.3	7015.3
22.5°	5057.3	5050.2	4996.7	5075.1	5192.8	5438.9	5688.6	5759.9	6284.2	6929.7	7047.4
25°	5282.0	5321.2	5271.3	5260.6	5342.6	5585.1	5916.8	6009.5	6594.4	7161.5	7147.3
27.5°	5702.8	5663.6	5663.6	5613.7	5592.3	5710.0	6162.9	6316.3	6940.4	7461.1	7261.4
30°	6105.8	6148.6	6116.5	6134.4	5991.7	5981.0	6512.4	6701.4	7553.8	7917.6	7503.9
32.5°	6744.2	6687.2	6740.7	6694.3	6505.3	6312.7	6986.8	7182.9	8295.7	8441.9	7867.7
35°	7275.6	7250.7	7478.9	7471.8	7165.1	6976.1	7489.6	7782.1	8812.8	9069.6	8295.7
37.5°	8031.7	7985.4	8245.7	8370.6	8095.9	7814.2	8210.1	8548.9	9294.3	9572.5	8734.3
40°	8809.2	8926.9	9276.5	9483.3	9190.9	8816.4	9091.0	9194.4	9615.3	9900.6	9033.9
42.5°	9793.6	9964.8	10321.4	10499.8	10474.8	10068.2	9986.2	9982.6	9847.1	9807.9	9255.1
45°	10738.7	10674.5	11223.8	11612.5	11926.4	11808.7	10849.3	10742.3	10214.4	9947.0	9312.1
47.5°	11152.4	11131.0	11505.5	12197.4	13267.4	13413.6	12104.7	11691.0	10835.0	10531.9	9622.4
50°	10617.5	10728.0	11098.9	11865.7	13506.3	14622.6	13645.4	13089.0	11559.0	11245.2	10357.1
52.5°	8869.9	8944.8	9297.9	10271.5	12693.2	15335.9	15121.9	14801.0	12889.3	12368.6	11637.5
54°	7293.5	7493.2	7685.8	8663.0	11245.2	14940.0	15931.5	15685.4	13756.0	13303.0	12443.5
55°	6351.9	6469.6	6608.7	7582.4	10243.0	14269.5	15838.8	15860.2	14337.3	13595.5	12985.6
57.5°	4640.0	4722.0	4579.4	5010.9	7033.1	11587.5	14487.1	15064.9	15121.9	14034.2	13317.3
60°	3545.1	3580.8	3420.3	3488.0	4372.5	7953.3	11205.9	11901.4	13641.8	12265.2	11280.8
62.5°	2749.8	2756.9	2753.3	2871.0	3013.7	4679.2	7008.2	7625.2	9404.8	8709.4	7660.8
65°	2025.8	1993.7	2050.7	2407.4	2571.4	2942.4	3691.3	4140.7	5110.8	4315.5	3085.0
67.5°	1312.5	1323.2	1380.2	1790.4	2204.1	2257.6	2271.9	2236.2	2239.8	1234.0	773.9
70°	788.2	806.0	788.2	1012.9	1576.4	1619.2	1480.1	1444.4	1127.0	292.5	288.9
72.5°	467.2	442.2	395.9	435.1	656.2	784.6	706.2	702.6	442.2	171.2	171.2
75°	196.2	178.3	146.2	132.0	174.8	167.6	167.6	149.8	117.7	114.1	107.0
77.5°	39.2	39.2	28.5	32.1	42.8	49.9	60.6	60.6	71.3	71.3	67.8
80°	0.0	3.6	10.7	21.4	32.1	46.4	53.5	53.5	60.6	60.6	49.9
82.5°	0.0	3.6	10.7	21.4	28.5	42.8	53.5	53.5	60.6	64.2	53.5
85°	0.0	3.6	10.7	17.8	28.5	35.7	35.7	32.1	25.0	21.4	14.3
87.5°	0.0	0.0	3.6	7.1	3.6	7.1	7.1	7.1	7.1	7.1	7.1
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°	6876.2	6876.2	6876.2	6876.2	6876.2	6876.2	6876.2	6876.2	6876.2	6876.2	6876.2
2.5°	6908.3	6904.7	6819.1	6680.0	6647.9	6530.3	6516.0	6444.7	6483.9	6351.9	6337.7
5°	6851.2	6808.4	6705.0	6615.8	6355.5	6170.0	6023.8	5845.5	5742.1	5759.9	5692.1
7.5°	6933.3	6822.7	6640.8	6330.5	6013.1	5688.6	5513.8	5150.0	5018.1	4821.9	4793.4
10°	6847.7	6765.6	6483.9	5970.3	5531.6	5064.4	4654.3	4251.3	3944.5	3812.6	3784.1
12.5°	6840.5	6697.9	6227.1	5656.5	5021.6	4351.1	3755.5	3252.6	2949.5	2778.3	2739.1
15°	6730.0	6558.8	5938.2	5171.4	4294.1	3459.5	2810.4	2325.4	2093.5	1993.7	2022.2
17.5°	6740.7	6483.9	5649.3	4657.8	3577.2	2539.3	1918.8	1669.1	1608.5	1633.5	1633.5
20°	6730.0	6316.3	5299.8	4065.8	2739.1	1761.8	1408.8	1319.6	1358.8	1437.3	1419.5
22.5°	6672.9	6237.8	4978.8	3441.7	2015.1	1305.3	1130.6	1134.1	1194.8	1291.1	1312.5
25°	6715.7	6063.0	4572.2	2810.4	1469.4	1041.4	980.8	1005.8	1069.9	1141.3	1155.5
27.5°	6683.6	5938.2	4147.8	2182.7	1073.5	895.2	891.6	920.2	948.7	1002.2	1002.2
30°	6719.3	5824.1	3730.6	1622.8	884.5	820.3	806.0	827.4	856.0	866.7	863.1
32.5°	6851.2	5738.5	3249.1	1212.6	781.1	749.0	749.0	749.0	745.4	759.7	763.2
35°	7140.1	5752.8	2824.7	938.0	713.3	688.3	677.6	663.4	656.2	663.4	666.9
37.5°	7454.0	5745.6	2386.0	798.9	663.4	642.0	617.0	595.6	592.0	599.2	588.5
40°	7593.1	5813.4	1979.4	716.9	617.0	592.0	552.8	535.0	538.5	545.7	538.5
42.5°	7782.1	5834.8	1715.5	652.7	574.2	535.0	510.0	488.6	485.0	495.7	492.2
45°	7778.5	5713.5	1437.3	617.0	535.0	492.2	460.1	442.2	442.2	449.4	452.9
47.5°	8006.8	5695.7	1234.0	584.9	506.4	463.6	424.4	410.1	406.6	406.6	399.4
50°	8538.2	5945.3	1077.1	549.2	470.8	431.5	399.4	381.6	367.3	360.2	356.6
52.5°	9576.0	6722.8	955.8	506.4	431.5	399.4	370.9	356.6	338.8	321.0	317.4
54°	10581.8	7525.3	948.7	470.8	399.4	378.0	353.1	345.9	324.6	299.6	292.5
55°	11034.7	7992.5	973.7	442.2	378.0	363.8	342.4	335.3	313.9	285.3	281.8
57.5°	11409.2	8174.4	959.4	367.3	342.4	338.8	321.0	310.3	285.3	246.1	239.0
60°	9183.7	6180.7	688.3	324.6	313.9	306.7	292.5	285.3	253.2	210.4	206.9
62.5°	5802.7	3555.8	438.7	285.3	274.6	263.9	246.1	239.0	210.4	167.6	156.9
65°	2471.6	1473.0	296.0	253.2	235.4	217.6	203.3	192.6	167.6	124.8	121.3
67.5°	642.0	524.3	246.1	221.1	196.2	171.2	160.5	142.7	114.1	85.6	82.0
70°	288.9	263.9	206.9	185.5	156.9	132.0	117.7	99.9	74.9	57.1	53.5
72.5°	171.2	167.6	156.9	139.1	117.7	99.9	85.6	67.8	49.9	32.1	32.1
75°	107.0	103.4	107.0	96.3	82.0	74.9	64.2	46.4	28.5	14.3	14.3
77.5°	64.2	64.2	64.2	60.6	57.1	57.1	46.4	28.5	14.3	3.6	3.6
80°	49.9	49.9	53.5	49.9	49.9	49.9	39.2	21.4	7.1	0.0	0.0
82.5°	49.9	53.5	60.6	57.1	49.9	42.8	35.7	21.4	7.1	0.0	0.0
85°	14.3	10.7	17.8	25.0	35.7	32.1	25.0	17.8	7.1	0.0	0.0
87.5°	7.1	7.1	7.1	7.1	3.6	3.6	3.6	3.6	3.6	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)