

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: P190856

Luminaire Tested: **GLEON-AF-08-LED-E1-5NQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190856  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-08-LED-E1-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50337.4 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

Input Watts (W): 445  
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

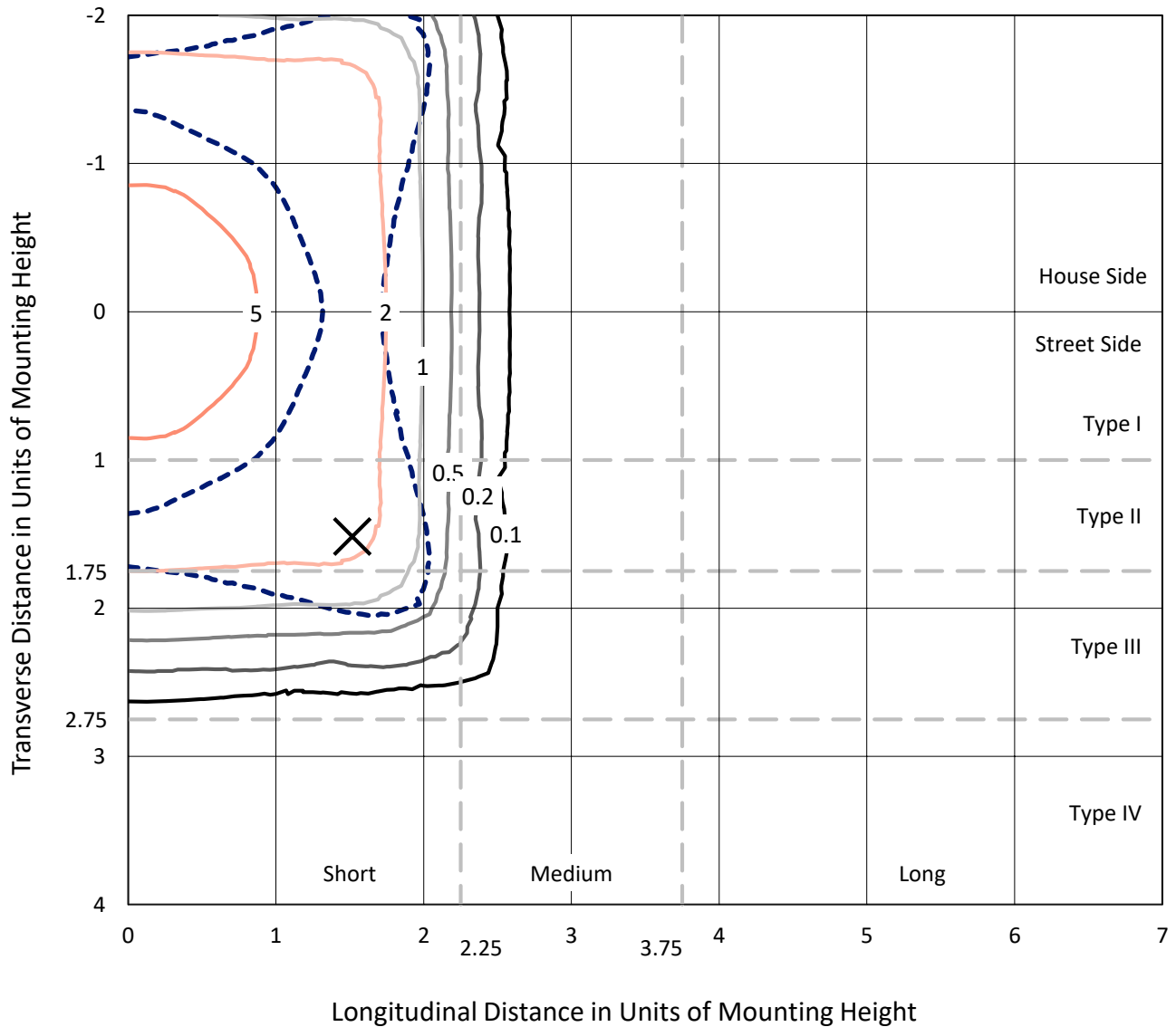


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### Iso-Footcandle Lines of Horizontal Illumination

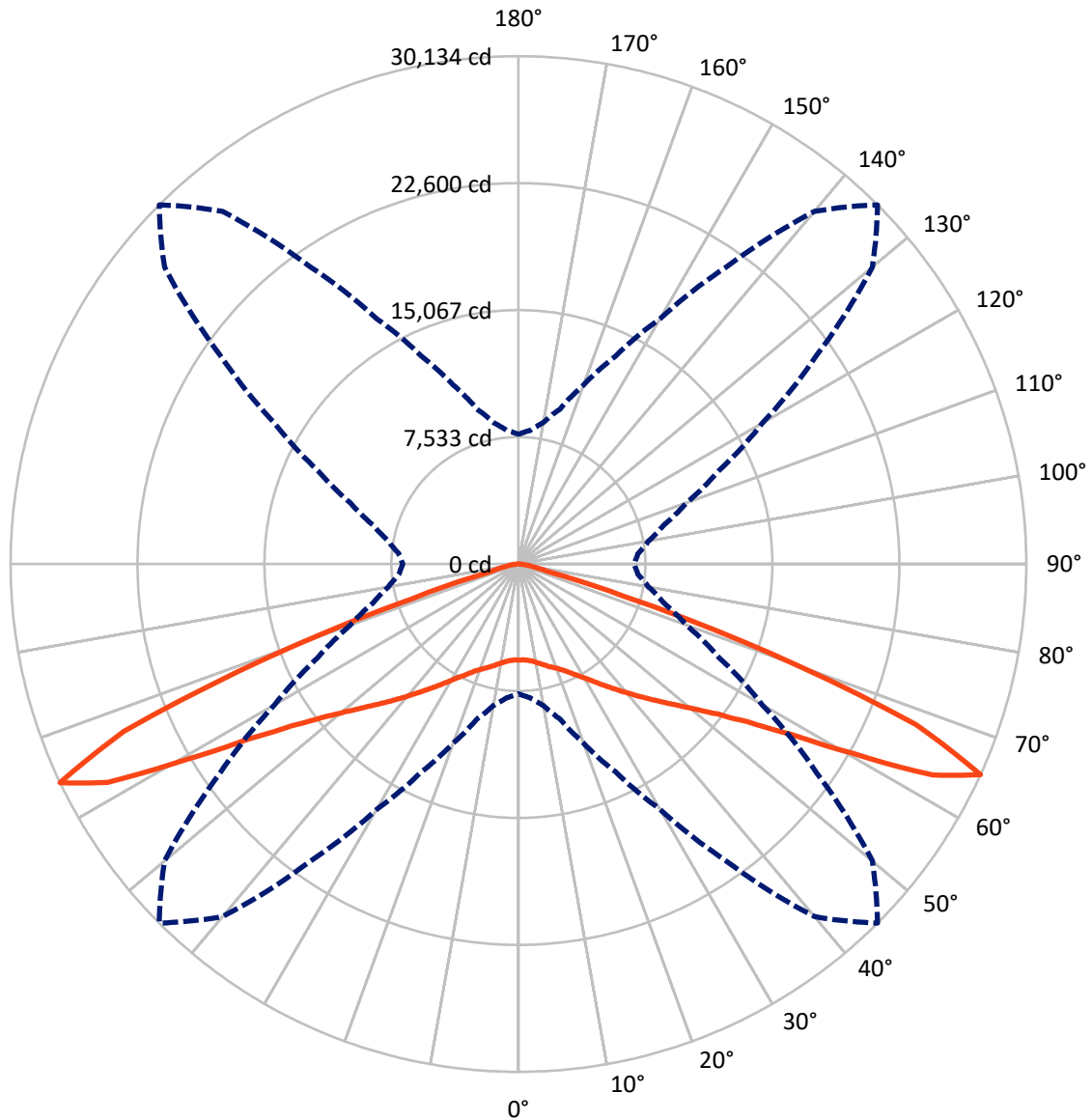
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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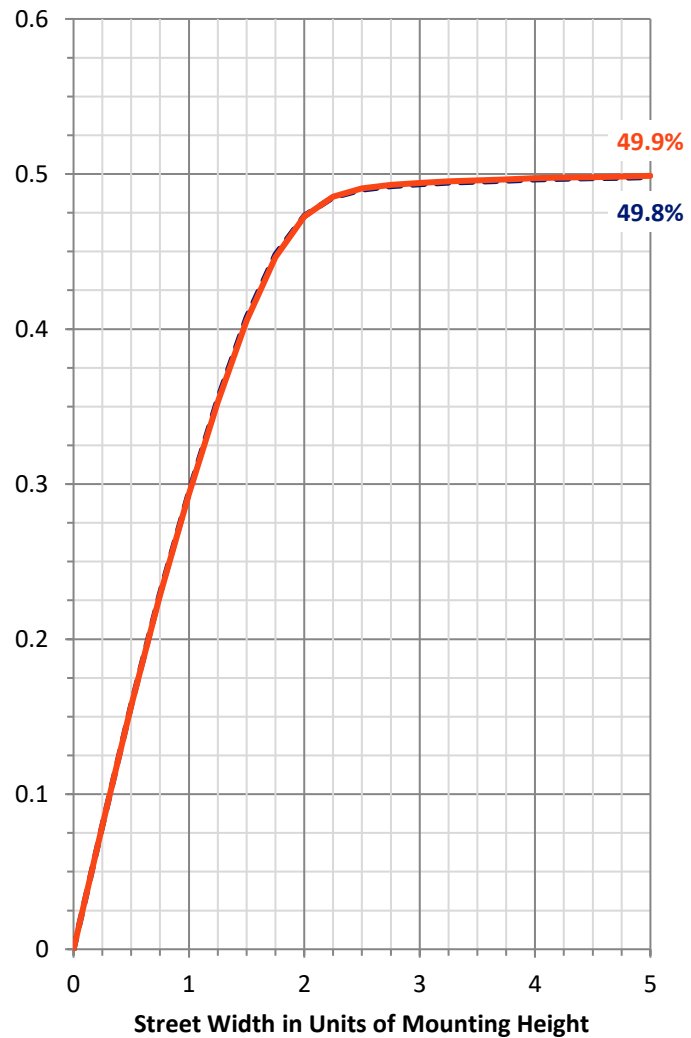
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25168.7	0.0	25168.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25168.7	0.0	25168.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	50337.4	0.0	50337.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.1	1.1
10°-20°	1780.5	3.5
20°-30°	3329.1	6.6
30°-40°	5630.5	11.2
40°-50°	9206.4	18.3
50°-60°	14639.6	29.1
60°-70°	13233.3	26.3
70°-80°	1674.7	3.3
80°-90°	288.1	0.6
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°	50337.4	100.0
0°-180°	50337.4	100.0



--- HS    — SS

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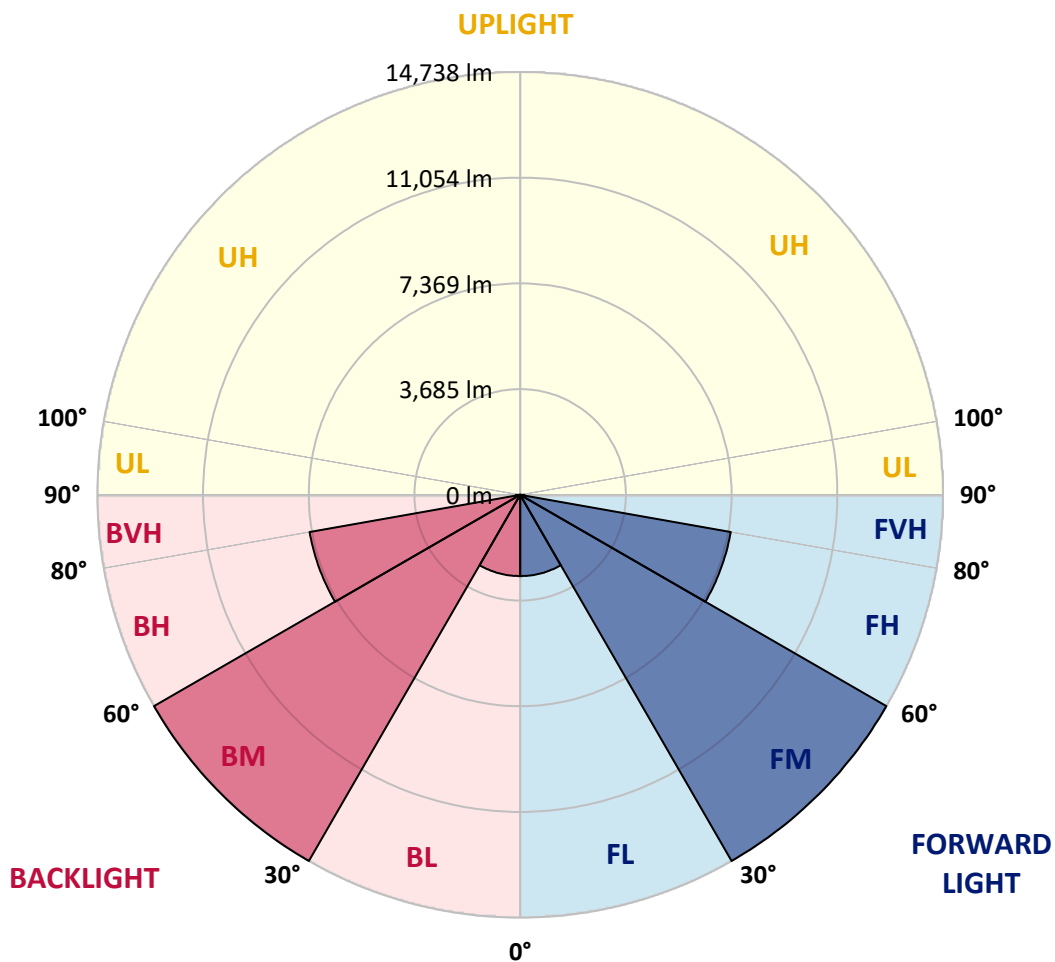
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2832.4	5.6			
FM	(30°-60°)	14738.3	29.3			
FH	(60°-80°)	7454.0	14.8			G3/7500
FVH	(80°-90°)	144.0	0.3			G2/225
BL	(0°-30°)	2832.4	5.6	B4/5000		
BM	(30°-60°)	14738.3	29.3	B5		
BH	(60°-80°)	7454.0	14.8	B5		G3/7500
BVH	(80°-90°)	144.0	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5695.7	5695.7	5695.7	5695.7	5695.7	5695.7	5695.7	5695.7	5695.7	5695.7	5695.7
2.5°	5700.4	5705.1	5709.8	5705.1	5709.8	5702.7	5698.0	5705.1	5698.0	5691.0	5695.7
5°	5749.9	5752.3	5752.3	5745.2	5752.3	5747.6	5740.5	5749.9	5742.8	5735.8	5740.5
7.5°	5832.5	5841.9	5834.8	5827.8	5832.5	5827.8	5823.0	5825.4	5823.0	5815.9	5818.3
10°	5943.2	5950.3	5945.6	5943.2	5947.9	5945.6	5940.9	5938.5	5940.9	5933.8	5933.8
12.5°	6077.7	6075.3	6072.8	6075.3	6082.4	6082.4	6080.0	6082.4	6087.1	6089.4	6084.7
15°	6209.6	6214.3	6214.3	6214.3	6228.5	6240.3	6247.4	6252.1	6261.5	6263.8	6254.4
17.5°	6374.6	6374.6	6372.3	6374.6	6388.8	6407.7	6414.7	6424.1	6433.6	6440.7	6428.8
20°	6558.5	6563.3	6563.3	6568.0	6586.9	6608.1	6608.1	6612.8	6608.1	6612.8	6605.7
22.5°	6782.5	6796.7	6796.7	6799.0	6817.9	6843.8	6836.7	6843.8	6832.0	6841.4	6832.0
25°	7074.8	7096.0	7091.3	7091.3	7105.5	7122.0	7124.3	7138.5	7136.1	7147.9	7140.8
27.5°	7404.8	7437.9	7447.3	7444.9	7454.3	7470.9	7475.6	7492.1	7482.7	7492.1	7487.4
30°	7800.9	7815.0	7834.0	7841.0	7852.8	7869.4	7869.4	7871.7	7859.8	7874.1	7881.1
32.5°	8211.1	8237.1	8255.9	8298.4	8319.6	8331.4	8329.0	8333.8	8321.9	8340.8	8355.0
35°	8753.4	8772.2	8802.9	8835.8	8864.2	8861.8	8854.8	8857.1	8857.1	8873.6	8887.7
37.5°	9406.4	9411.1	9451.1	9498.3	9512.5	9498.3	9455.9	9446.4	9425.3	9446.4	9470.1
40°	10097.1	10113.6	10193.8	10224.4	10231.6	10205.6	10144.3	10108.9	10061.7	10087.7	10120.7
42.5°	10820.9	10853.9	10927.0	10981.2	11004.8	10988.2	10903.4	10849.2	10787.8	10802.1	10835.0
45°	11622.5	11662.6	11766.3	11818.2	11862.9	11837.0	11754.4	11672.0	11575.3	11582.4	11634.2
47.5°	12518.3	12558.4	12692.8	12779.9	12803.6	12798.9	12706.9	12593.8	12461.7	12457.0	12501.8
50°	13522.6	13562.7	13730.0	13864.4	13932.8	13925.7	13817.3	13656.9	13496.6	13499.0	13555.5
52.5°	14503.3	14552.8	14727.2	14958.3	15092.6	15189.3	15123.3	14972.4	14776.7	14781.4	14833.3
55°	15422.7	15505.2	15705.6	16019.2	16269.0	16540.2	16617.9	16613.2	16495.4	16528.3	16580.2
57.5°	15868.3	15990.9	16299.7	16794.8	17304.0	17855.6	18322.4	18671.3	18819.8	19043.9	18992.0
60°	15024.3	15220.0	15675.0	16403.4	17410.1	18560.5	19793.5	20998.2	22026.1	22801.7	22356.1
62.5°	12301.4	12556.0	13107.7	14041.2	15564.2	17405.4	19765.3	22613.0	25715.6	27587.3	26250.7
65°	7697.2	7961.2	8522.3	9521.9	11304.2	13593.3	16794.8	21514.5	27311.6	30133.5	27412.9
67.5°	3001.1	3144.9	3449.0	4087.9	5427.0	7463.9	10677.0	16033.3	22966.7	25439.7	22540.0
70°	1504.0	1518.3	1574.8	1692.7	1980.3	2572.0	3913.4	7433.2	13171.3	15908.3	12697.5
72.5°	1086.8	1089.1	1117.5	1169.3	1261.3	1393.3	1647.9	2274.9	4283.6	6546.8	4014.8
75°	832.2	841.6	858.2	886.4	935.9	1002.0	1093.8	1310.8	1624.3	1883.7	1584.2
77.5°	641.3	660.1	671.9	697.9	728.4	773.2	799.2	881.7	1025.5	1079.7	1063.3
80°	488.0	504.5	530.4	551.7	572.9	594.1	584.6	622.4	697.9	742.6	719.0
82.5°	311.2	330.0	405.5	424.3	433.7	448.0	431.4	433.7	466.8	495.1	466.8
85°	200.4	212.2	257.0	280.5	282.9	292.4	285.3	268.7	268.7	245.2	275.8
87.5°	92.0	94.3	115.5	136.8	141.5	127.3	124.9	120.2	96.7	92.0	99.0
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	5695.7	5695.7	5695.7	5695.7	5695.7	5695.7	5695.7	5695.7
2.5°	5693.3	5698.0	5700.4	5707.5	5709.8	5709.8	5712.2	5717.0
5°	5738.1	5745.2	5747.6	5757.0	5759.3	5757.0	5761.7	5764.0
7.5°	5818.3	5830.1	5834.8	5844.2	5837.2	5846.6	5848.9	5848.9
10°	5936.2	5947.9	5950.3	5959.7	5955.0	5959.7	5959.7	5955.0
12.5°	6091.8	6094.1	6087.1	6094.1	6084.7	6089.4	6082.4	6077.7
15°	6263.8	6256.8	6240.3	6240.3	6226.1	6228.5	6226.1	6223.7
17.5°	6431.2	6417.1	6405.3	6400.6	6388.8	6386.5	6379.3	6379.3
20°	6615.1	6608.1	6601.0	6591.6	6579.7	6568.0	6565.6	6570.3
22.5°	6836.7	6834.3	6834.3	6829.6	6813.2	6801.4	6794.3	6794.3
25°	7133.8	7112.6	7112.6	7110.2	7103.2	7096.0	7081.9	7088.9
27.5°	7468.6	7456.7	7466.2	7463.9	7456.7	7456.7	7447.3	7447.3
30°	7881.1	7876.4	7890.5	7878.8	7855.1	7852.8	7843.4	7831.6
32.5°	8357.3	8352.6	8373.8	8359.7	8321.9	8300.7	8281.9	8272.4
35°	8887.7	8890.1	8916.0	8906.6	8864.2	8850.1	8817.0	8812.3
37.5°	9467.7	9505.4	9550.2	9559.6	9524.3	9514.9	9479.5	9460.7
40°	10149.0	10198.5	10266.8	10283.4	10245.7	10238.6	10189.1	10163.1
42.5°	10875.1	10960.0	11044.8	11059.0	11021.3	10983.5	10936.4	10917.5
45°	11686.1	11787.5	11898.2	11926.6	11870.0	11825.2	11763.8	11763.8
47.5°	12596.1	12723.4	12848.4	12926.1	12874.2	12827.1	12754.0	12706.9
50°	13671.1	13845.5	14008.2	14088.4	14005.8	13916.2	13789.0	13746.5
52.5°	15019.6	15208.2	15349.6	15307.2	15179.9	15055.0	14915.9	14859.3
55°	16740.6	16804.2	16804.2	16643.9	16389.3	16179.5	15960.2	15887.1
57.5°	18893.0	18647.8	18270.5	17792.0	17190.8	16667.4	16313.8	16146.5
60°	21422.5	20243.8	18911.8	17603.3	16528.3	15641.9	15116.2	14875.8
62.5°	23108.2	20024.6	17355.9	15255.4	13708.8	12640.9	11914.7	11631.9
65°	21596.9	16700.5	13126.5	10613.4	8927.8	7841.0	7122.0	6858.0
67.5°	15818.8	10464.9	6989.9	5009.7	3670.7	2928.0	2633.3	2510.7
70°	7100.8	3684.8	2258.5	1763.4	1520.6	1395.6	1341.4	1322.6
72.5°	2140.6	1548.8	1306.0	1178.7	1082.1	1020.8	976.0	971.3
75°	1291.9	1075.0	954.8	879.3	818.1	768.5	745.0	737.9
77.5°	903.0	789.7	733.1	678.9	631.8	594.1	572.9	556.4
80°	634.1	579.9	554.0	523.3	492.8	457.4	426.7	412.6
82.5°	424.3	412.6	412.6	393.7	367.8	334.8	273.4	259.3
85°	273.4	271.1	275.8	268.7	249.9	214.5	176.8	167.4
87.5°	127.3	129.7	143.8	141.5	136.8	113.1	89.6	84.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)