

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: P190828

Luminaire Tested: **GLEON-AF-10-LED-E1-5MQ-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190828  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-10-LED-E1-5MQ-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 69454.3 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G5

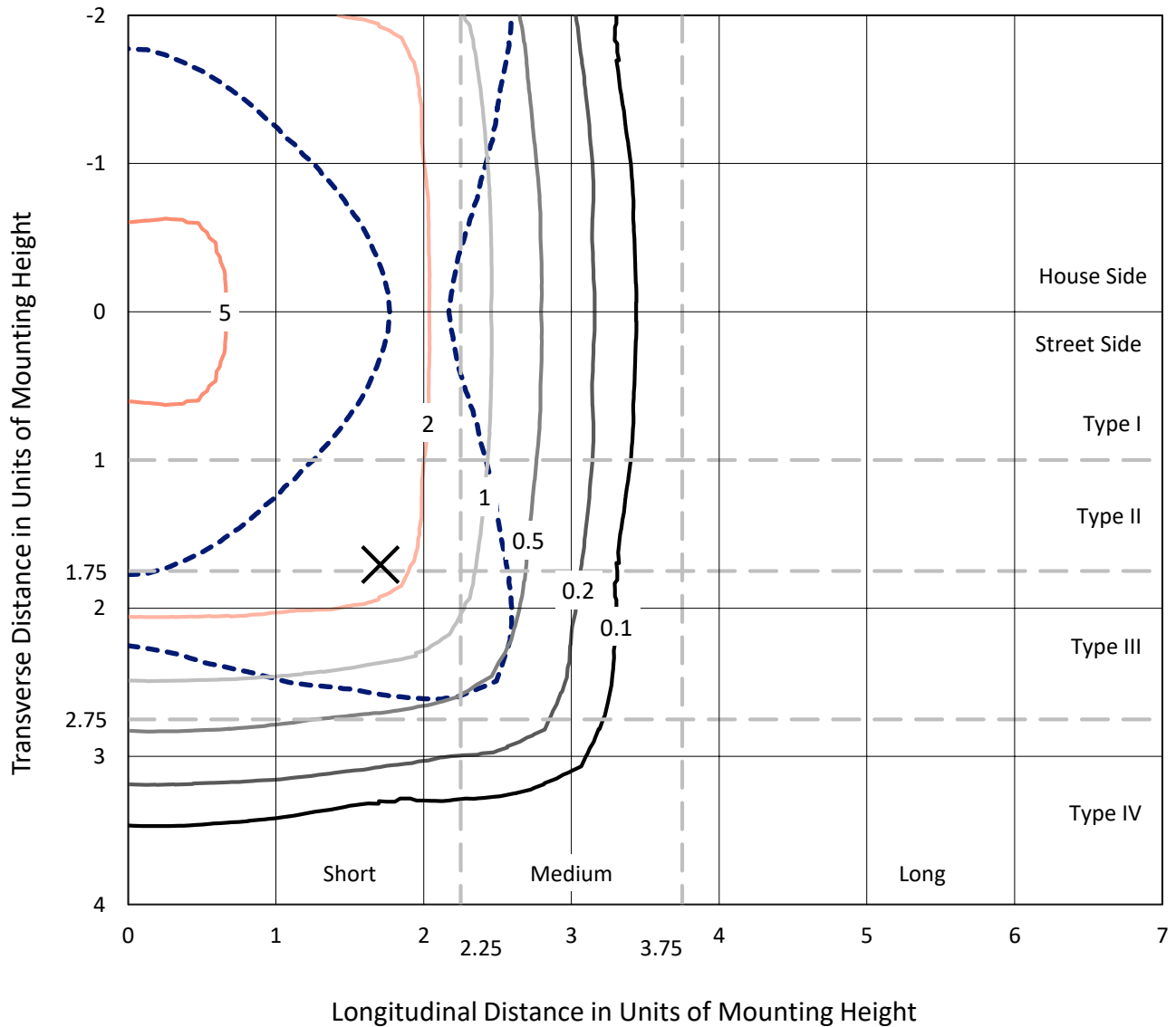
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

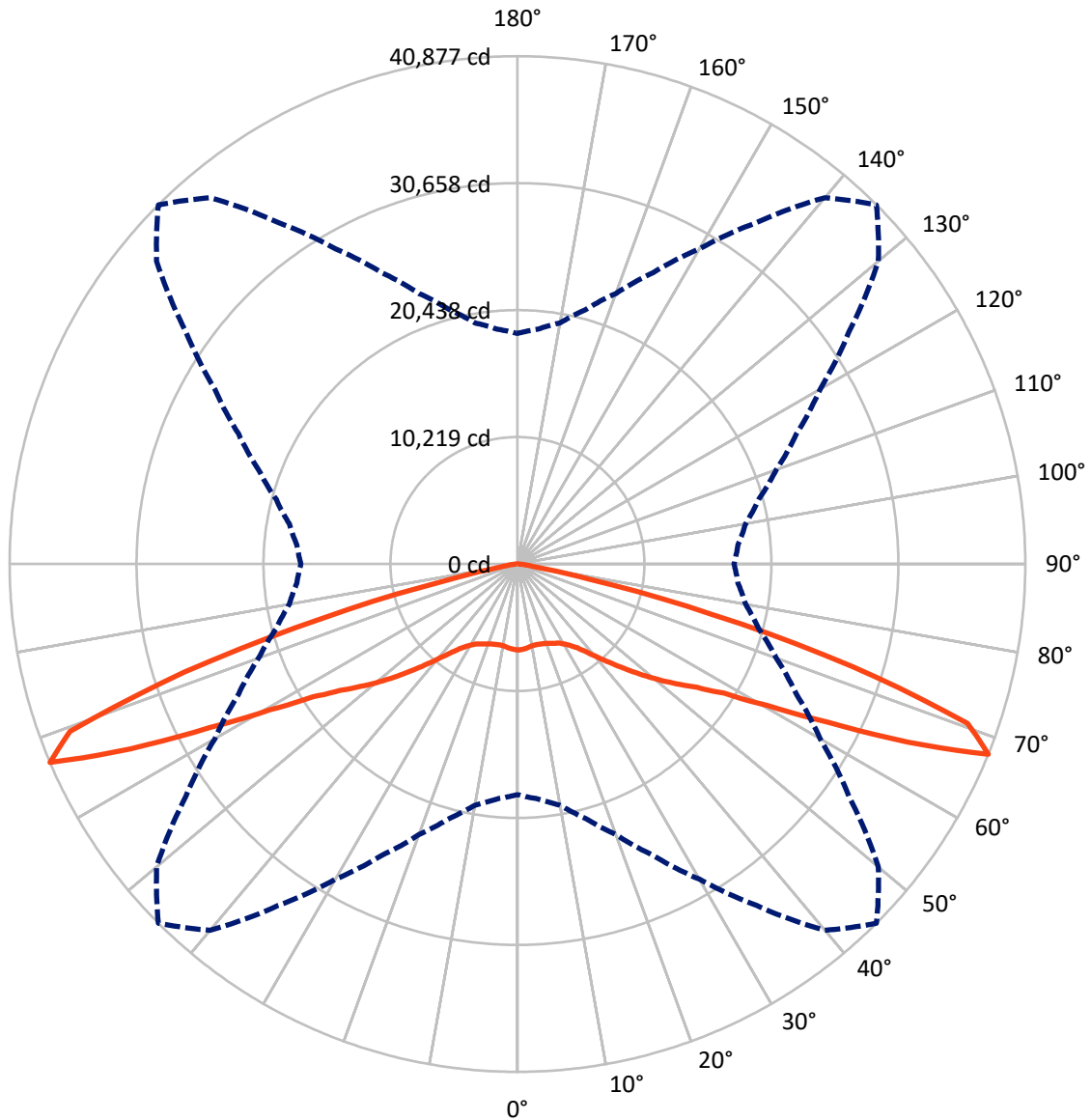
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	34727.1	0.0	34727.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	34727.1	0.0	34727.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	69454.3	0.0	69454.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	647.8	0.9
10°-20°	1879.8	2.7
20°-30°	3195.7	4.6
30°-40°	5223.9	7.5
40°-50°	9325.7	13.4
50°-60°	15723.3	22.6
60°-70°	24400.3	35.1
70°-80°	8573.2	12.3
80°-90°	484.5	0.7
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°	69454.3	100.0
0°-180°	69454.3	100.0



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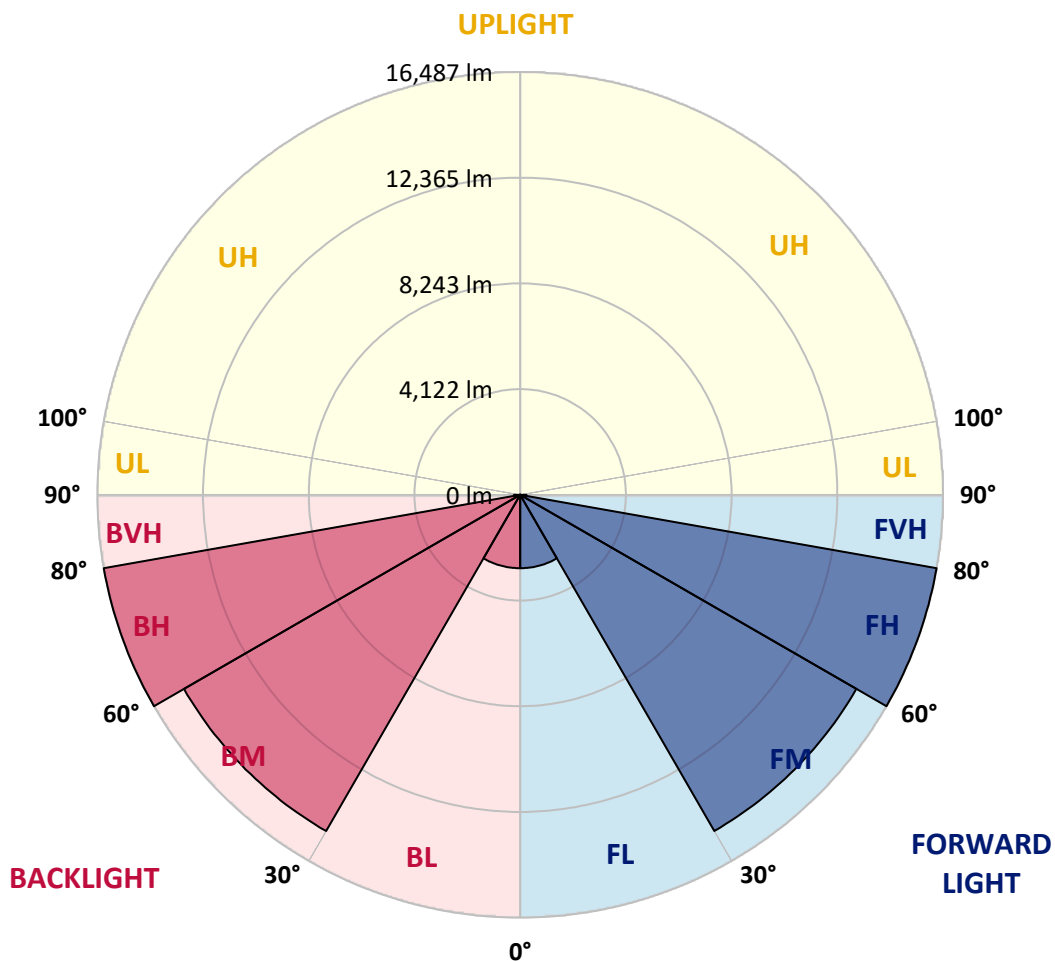
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2861.7	4.1			
FM	(30°-60°)	15136.5	21.8			
FH	(60°-80°)	16486.8	23.7			G5
FVH	(80°-90°)	242.2	0.3			G3/500
BL	(0°-30°)	2861.7	4.1	B4/5000		
BM	(30°-60°)	15136.5	21.8	B5		
BH	(60°-80°)	16486.8	23.7	B5		G5
BVH	(80°-90°)	242.2	0.3			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6921.4	6921.4	6921.4	6921.4	6921.4	6921.4	6921.4	6921.4	6921.4	6921.4	6921.4
2.5°	6895.8	6902.3	6902.3	6902.3	6899.1	6899.1	6892.6	6899.1	6895.8	6886.3	6889.5
5°	6838.3	6844.8	6844.8	6841.6	6851.1	6847.9	6838.3	6844.8	6841.6	6835.2	6838.3
7.5°	6755.4	6764.9	6764.9	6761.7	6771.3	6768.1	6761.7	6764.9	6764.9	6755.4	6755.4
10°	6662.7	6669.1	6669.1	6665.9	6681.8	6681.8	6678.6	6688.3	6691.4	6681.8	6675.5
12.5°	6576.4	6586.1	6586.1	6598.9	6614.8	6621.2	6637.1	6649.9	6662.7	6659.5	6646.7
15°	6525.4	6531.7	6544.5	6560.5	6586.1	6608.4	6633.9	6662.7	6688.3	6694.6	6675.5
17.5°	6493.4	6503.0	6522.1	6544.5	6579.6	6618.0	6656.3	6694.6	6729.8	6742.6	6720.2
20°	6483.9	6490.2	6509.3	6547.7	6595.6	6653.1	6707.4	6752.1	6800.1	6816.0	6800.1
22.5°	6503.0	6515.8	6538.1	6582.9	6646.7	6720.2	6784.1	6844.8	6905.4	6934.2	6911.9
25°	6589.2	6602.0	6630.8	6688.3	6758.5	6835.2	6908.6	6978.9	7033.2	7061.9	7046.0
27.5°	6748.9	6764.9	6800.1	6857.6	6934.2	7017.2	7097.1	7154.6	7199.3	7208.8	7189.7
30°	6988.5	7023.6	7065.1	7129.0	7218.5	7288.7	7368.6	7419.7	7474.0	7474.0	7458.0
32.5°	7362.2	7397.4	7442.1	7502.7	7573.0	7649.6	7719.9	7764.6	7822.1	7825.3	7787.0
35°	7921.1	7937.1	7975.4	8013.8	8077.6	8144.7	8205.4	8234.1	8282.0	8285.3	8250.1
37.5°	8659.0	8662.1	8687.7	8700.5	8758.0	8831.4	8888.9	8908.1	8952.8	8946.4	8911.2
40°	9518.1	9534.1	9543.7	9562.9	9623.5	9693.8	9754.4	9764.1	9811.9	9802.4	9757.7
42.5°	10511.4	10517.9	10572.2	10600.9	10658.4	10693.5	10770.1	10779.8	10837.2	10811.7	10760.6
45°	11626.1	11683.6	11734.8	11792.3	11852.9	11894.5	11955.1	11942.3	11980.7	11942.3	11913.6
47.5°	12798.3	12839.9	12954.9	13044.4	13143.4	13178.5	13264.7	13226.3	13264.7	13210.4	13200.9
50°	14088.8	14162.2	14261.3	14363.5	14468.8	14526.3	14638.1	14590.2	14641.3	14590.2	14561.5
52.5°	15360.0	15379.1	15596.3	15746.5	15893.4	15960.5	16027.5	16005.2	16008.4	16005.2	15976.4
55°	16567.3	16612.0	16829.2	17033.7	17289.2	17477.6	17592.6	17579.8	17551.1	17522.3	17474.5
57.5°	17927.9	17972.6	18221.8	18474.1	18764.8	19033.1	19266.3	19505.8	19598.4	19624.0	19518.6
60°	19767.7	19764.5	20096.7	20403.3	20818.5	21217.7	21728.8	22249.5	22846.7	23124.6	22757.3
62.5°	21639.4	21716.0	22195.2	22738.2	23594.2	24427.8	25370.0	26296.3	27241.7	28011.5	27193.7
65°	21415.8	21709.7	22422.0	23651.6	25232.6	27110.8	29142.1	31291.7	33233.6	34568.7	33070.8
67.5°	18560.3	18978.8	19703.8	21198.6	23175.7	25884.2	29295.5	33546.6	38487.8	40876.9	37916.1
70°	13453.1	13925.8	14686.0	16145.7	18103.7	20678.0	24383.1	29487.1	36028.4	38436.7	35175.6
72.5°	6694.6	6950.1	7419.7	8349.1	9831.2	11920.0	15280.1	20186.1	25973.6	28183.9	25203.9
75°	2274.1	2392.3	2472.2	2775.6	3245.1	4065.9	5736.4	8825.0	13462.7	16139.3	13271.0
77.5°	1312.8	1315.9	1370.2	1424.6	1504.4	1593.9	1817.4	2385.9	4126.7	5861.0	4270.4
80°	849.6	846.4	891.1	932.6	986.9	1031.6	1044.4	1105.1	1274.4	1510.8	1351.1
82.5°	440.8	495.1	594.1	648.3	750.6	769.8	744.2	721.9	763.3	792.1	811.3
85°	242.7	210.8	316.2	408.9	453.6	459.9	459.9	434.3	450.4	440.8	479.2
87.5°	111.8	102.2	124.6	201.2	214.0	182.1	191.6	169.3	121.3	118.2	134.1
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	6921.4	6921.4	6921.4	6921.4	6921.4	6921.4	6921.4	6921.4
2.5°	6889.5	6892.6	6892.6	6902.3	6905.4	6911.9	6918.2	6921.4
5°	6835.2	6844.8	6838.3	6847.9	6847.9	6854.4	6854.4	6857.6
7.5°	6755.4	6764.9	6764.9	6764.9	6761.7	6771.3	6771.3	6771.3
10°	6672.3	6678.6	6675.5	6669.1	6662.7	6672.3	6669.1	6665.9
12.5°	6646.7	6630.8	6618.0	6611.6	6598.9	6602.0	6592.4	6592.4
15°	6662.7	6633.9	6611.6	6602.0	6589.2	6582.9	6576.4	6579.6
17.5°	6704.2	6669.1	6640.4	6624.3	6608.4	6598.9	6586.1	6589.2
20°	6777.7	6736.1	6694.6	6662.7	6633.9	6618.0	6608.4	6605.2
22.5°	6886.3	6825.6	6764.9	6717.0	6678.6	6656.3	6646.7	6640.4
25°	7010.8	6943.8	6873.5	6819.2	6780.8	6752.1	6733.0	6733.0
27.5°	7167.3	7113.1	7049.2	6985.3	6950.1	6921.4	6908.6	6902.3
30°	7429.3	7378.1	7327.1	7266.3	7221.6	7192.9	7170.6	7151.3
32.5°	7764.6	7723.1	7681.5	7636.8	7595.3	7557.0	7521.9	7505.9
35°	8237.3	8205.4	8176.7	8125.5	8109.5	8087.2	8068.0	8052.1
37.5°	8888.9	8876.1	8876.1	8821.8	8809.0	8799.5	8780.3	8783.6
40°	9744.9	9757.7	9741.8	9722.5	9713.0	9687.4	9687.4	9709.7
42.5°	10757.5	10767.0	10802.2	10770.1	10805.3	10773.4	10754.2	10770.1
45°	11932.8	11967.9	12038.2	12006.3	12028.7	11974.4	11907.2	11910.4
47.5°	13251.9	13283.8	13312.6	13290.3	13293.5	13204.0	13114.6	13092.2
50°	14622.2	14634.9	14650.9	14619.0	14625.3	14526.3	14424.1	14427.3
52.5°	15976.4	16037.1	16100.9	16014.7	15995.6	15883.8	15740.0	15682.6
55°	17525.5	17611.7	17538.3	17388.1	17238.1	17087.9	16899.5	16867.5
57.5°	19435.6	19288.6	19058.6	18774.3	18566.8	18355.9	18164.3	18084.4
60°	22093.0	21540.4	21125.2	20703.5	20438.5	20179.8	19927.4	19889.0
62.5°	25849.0	24894.1	24066.9	23194.9	22482.6	21926.8	21482.9	21358.3
65°	30557.1	28298.9	26341.0	24514.0	22926.6	21728.8	20975.0	20642.8
67.5°	32582.0	28123.3	24766.4	22172.8	20096.7	18646.7	17832.2	17426.5
70°	28631.1	23322.7	19671.9	17075.2	15184.3	13638.4	12900.6	12466.2
72.5°	19697.4	14836.2	11731.6	9575.6	8064.8	6771.3	6260.3	6221.9
75°	8844.2	5857.8	4037.2	3111.0	2619.1	2277.3	2171.9	2092.0
77.5°	2475.3	1830.2	1632.1	1526.8	1424.6	1306.3	1261.6	1271.2
80°	1204.1	1137.1	1092.3	1025.3	932.6	833.6	788.9	808.1
82.5°	798.5	788.9	817.6	769.8	635.6	539.8	453.6	415.2
85°	485.5	491.8	501.5	504.6	428.0	300.2	204.4	230.0
87.5°	191.6	220.3	239.6	249.1	233.1	143.7	115.0	118.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)