

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: P269704

Luminaire Tested: **GLEON-AF-10-LED-E1-RW-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269704  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
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-RW-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 57399 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - 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

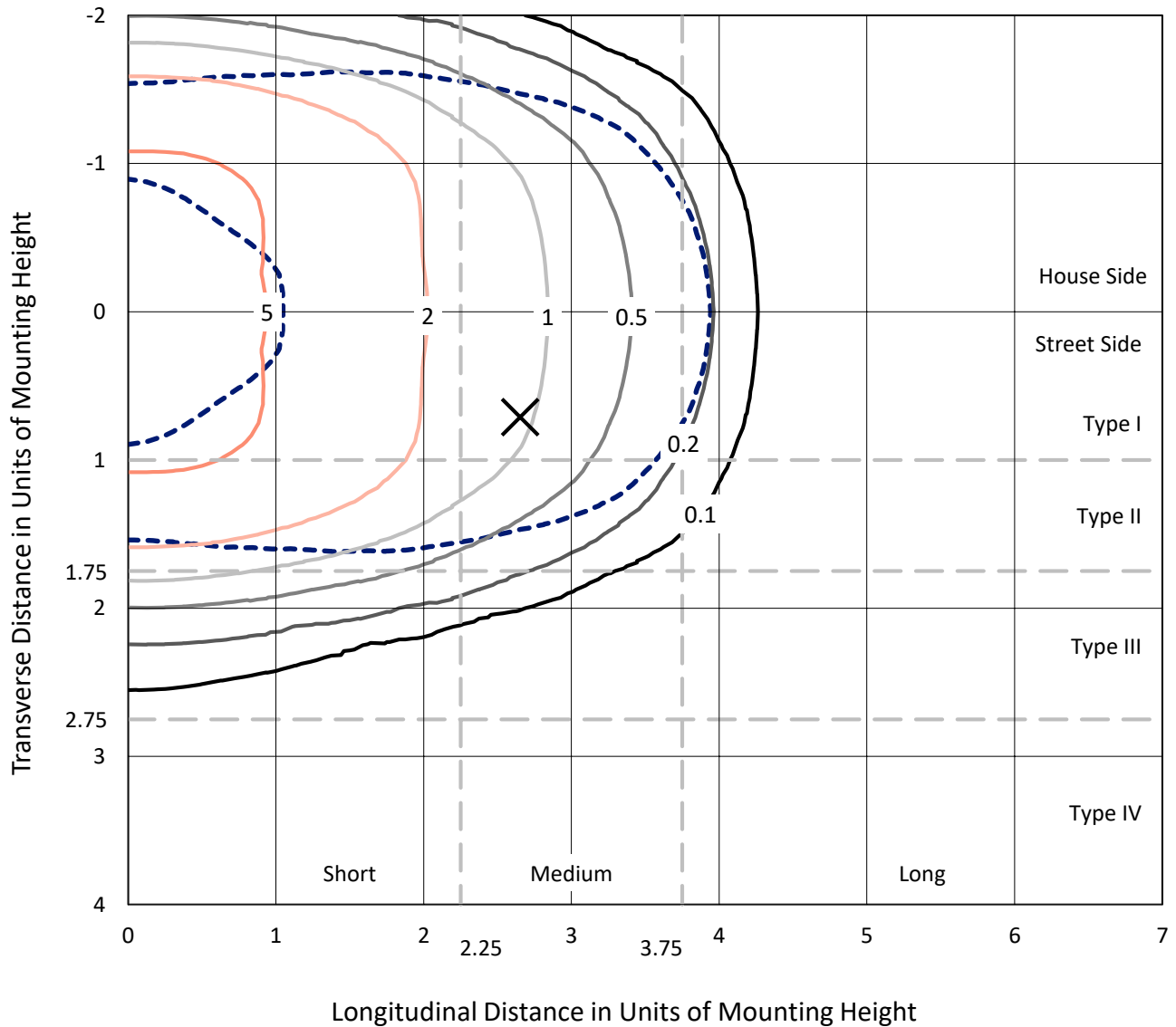


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

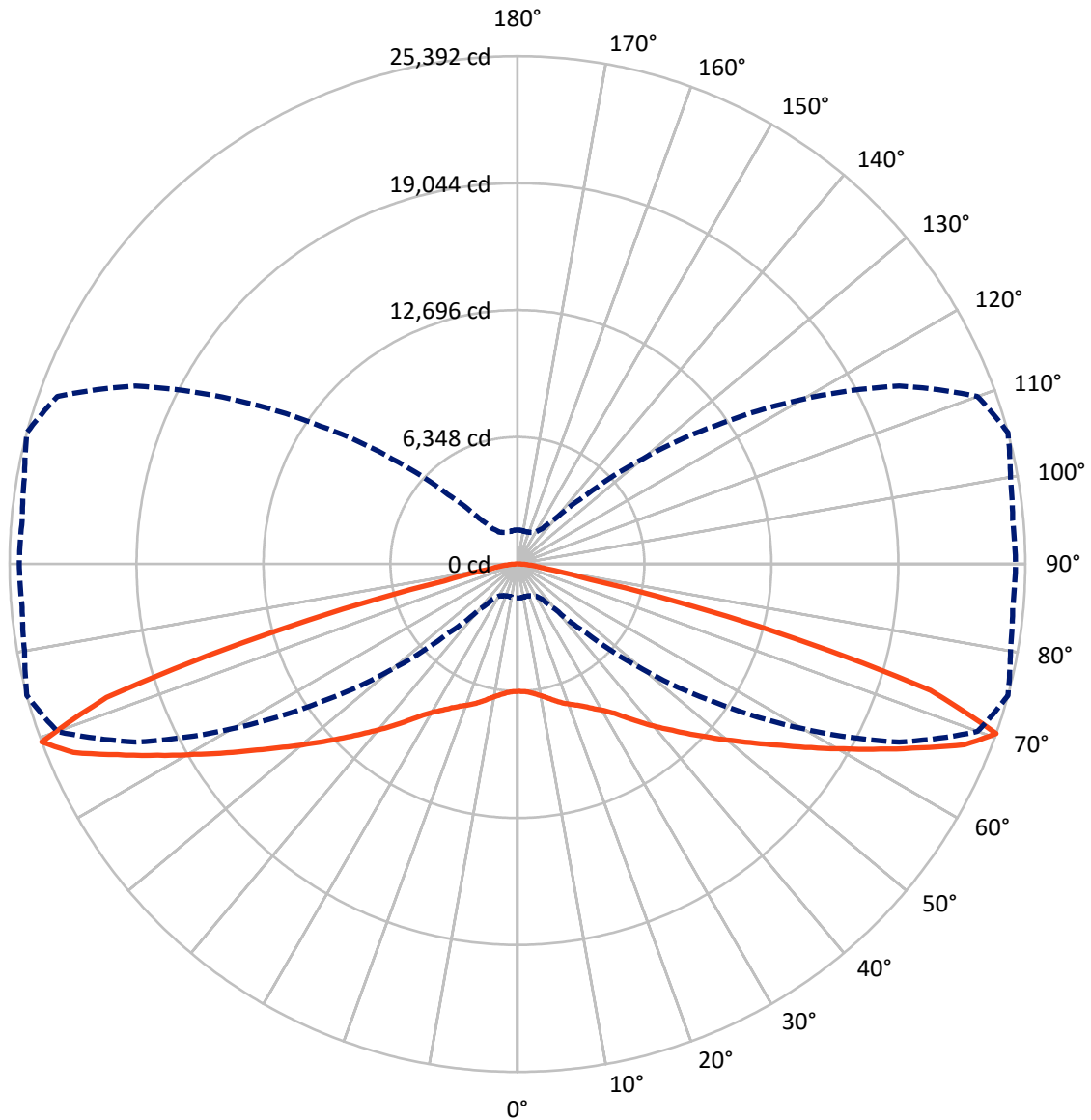


Based on 30 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	28699.5	0.0	28699.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	28699.5	0.0	28699.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	57399.0	0.0	57399.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	610.6	1.1
10°-20°	1897.3	3.3
20°-30°	3571.1	6.2
30°-40°	6323.7	11.0
40°-50°	10575.2	18.4
50°-60°	14736.6	25.7
60°-70°	13665.8	23.8
70°-80°	5446.2	9.5
80°-90°	572.5	1.0
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°	57399.0	100.0
0°-180°	57399.0	100.0



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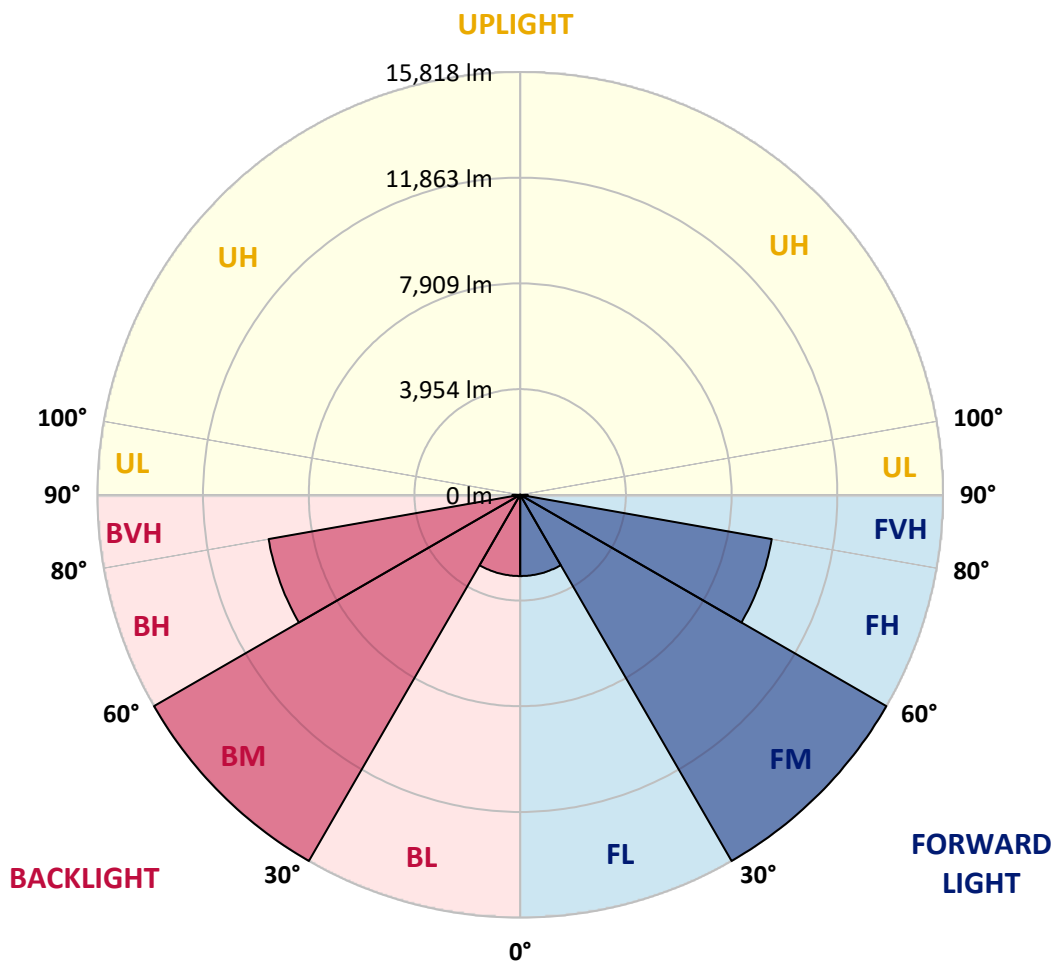
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3039.5	5.3			
FM	(30°-60°)	15817.7	27.6			
FH	(60°-80°)	9556.0	16.6			G4/12000
FVH	(80°-90°)	286.2	0.5			G3/500
BL	(0°-30°)	3039.5	5.3	B4/5000		
BM	(30°-60°)	15817.7	27.6	B5		
BH	(60°-80°)	9556.0	16.6	B5		G5
BVH	(80°-90°)	286.2	0.5			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8
2.5°	6356.0	6350.6	6356.0	6353.4	6358.7	6358.7	6364.2	6375.0	6375.0	6383.1	6380.4
5°	6293.6	6290.9	6299.1	6307.2	6315.4	6331.7	6348.0	6372.2	6391.4	6404.8	6418.4
7.5°	6171.5	6171.5	6182.5	6201.4	6220.5	6255.6	6293.6	6342.5	6391.4	6432.0	6467.3
10°	6071.1	6076.7	6090.1	6122.8	6155.2	6209.5	6261.0	6331.7	6399.4	6467.3	6521.5
12.5°	6011.5	6019.6	6044.1	6092.9	6147.1	6220.5	6299.1	6388.6	6464.6	6545.9	6600.1
15°	6030.5	6035.9	6071.1	6130.9	6201.4	6293.6	6399.4	6505.3	6594.7	6681.6	6754.9
17.5°	6136.3	6144.4	6185.1	6252.9	6326.3	6434.6	6548.6	6667.9	6779.1	6876.9	6966.4
20°	6326.3	6334.3	6386.0	6459.2	6545.9	6657.2	6771.1	6895.8	7020.7	7123.7	7224.1
22.5°	6594.7	6608.3	6657.2	6730.5	6828.0	6947.4	7083.0	7215.9	7335.4	7430.3	7519.8
25°	6947.4	6977.2	7023.4	7104.8	7207.8	7316.3	7462.8	7598.6	7712.4	7802.0	7867.0
27.5°	7446.6	7487.3	7522.5	7601.2	7701.6	7804.7	7951.2	8070.6	8179.0	8265.8	8314.6
30°	8108.6	8149.2	8184.5	8260.5	8352.6	8450.3	8588.6	8694.4	8762.2	8830.1	8827.4
32.5°	8911.5	8954.8	8968.5	9049.9	9144.7	9250.6	9375.3	9435.1	9489.2	9497.4	9448.6
35°	9809.4	9831.1	9885.4	9993.9	10102.3	10189.1	10308.6	10338.5	10338.5	10297.7	10189.1
37.5°	10794.2	10807.7	10883.7	11005.8	11117.0	11206.4	11287.8	11347.5	11317.7	11230.9	11049.2
40°	11873.8	11898.2	12006.7	12115.4	12240.0	12324.1	12411.0	12421.9	12391.9	12264.5	12017.5
42.5°	12904.7	12926.4	13034.9	13205.9	13368.5	13485.3	13566.7	13582.9	13488.0	13371.4	13064.7
45°	13791.8	13848.7	13989.8	14190.5	14426.5	14592.0	14703.3	14749.5	14665.3	14513.3	14157.9
47.5°	14494.3	14551.4	14752.1	14990.7	15283.9	15552.4	15736.8	15834.5	15812.8	15698.8	15310.9
50°	15009.8	15064.0	15281.1	15574.0	15915.9	16249.5	16564.1	16797.4	16879.0	16827.4	16472.0
52.5°	15069.4	15159.0	15413.9	15807.4	16252.2	16707.9	17155.7	17551.7	17820.2	17860.9	17597.7
55°	14236.7	14326.2	14678.8	15262.1	15924.1	16667.3	17383.6	18050.8	18579.9	18851.1	18712.8
57.5°	12272.6	12432.6	12804.4	13488.0	14461.9	15574.0	16716.1	17901.7	18978.6	19697.5	19835.8
60°	9405.3	9595.1	9969.5	10696.5	11781.6	13108.2	14632.8	16385.2	18286.8	19903.7	20869.5
62.5°	6033.1	6212.3	6605.5	7237.6	8122.0	9559.9	11195.7	13276.3	15831.8	18384.5	20684.9
65°	3100.7	3198.3	3404.5	3787.1	4476.1	5550.4	7018.0	9093.3	12014.9	15164.4	18490.4
67.5°	1964.1	1983.1	2029.1	2083.3	2259.7	2631.3	3315.0	4609.1	7012.4	10297.7	14190.5
70°	1698.2	1698.2	1676.4	1668.3	1690.0	1741.6	1847.5	2148.6	2959.6	4888.4	8184.5
72.5°	1554.3	1538.2	1500.2	1470.3	1464.9	1464.9	1486.7	1532.7	1662.9	1991.2	3203.7
75°	1432.3	1386.3	1334.7	1299.4	1285.8	1272.3	1269.6	1277.7	1304.9	1356.4	1530.1
77.5°	1283.1	1223.4	1163.8	1128.5	1112.2	1093.2	1077.0	1057.9	1044.4	1060.7	1136.6
80°	1104.0	1036.3	990.1	968.5	952.3	925.1	889.9	857.3	827.3	821.9	868.1
82.5°	889.9	811.1	813.9	821.9	792.1	754.1	716.2	680.9	629.4	602.3	629.4
85°	718.9	678.2	659.1	710.7	667.4	610.4	550.8	488.3	406.9	341.9	371.7
87.5°	279.5	279.5	417.8	642.9	577.8	472.0	404.1	344.5	214.3	165.5	168.3
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°	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8	6366.8
2.5°	6377.7	6383.1	6380.4	6377.7	6377.7	6375.0	6377.7	6377.7
5°	6426.6	6440.0	6440.0	6445.6	6445.6	6448.3	6451.0	6448.3
7.5°	6499.9	6524.2	6540.5	6559.6	6562.2	6565.0	6570.4	6565.0
10°	6573.1	6621.9	6657.2	6692.5	6708.7	6714.1	6719.5	6719.5
12.5°	6665.3	6733.2	6795.5	6857.9	6887.8	6904.1	6904.1	6914.9
15°	6817.1	6885.0	6958.4	7042.4	7093.9	7121.0	7129.2	7129.2
17.5°	7031.6	7091.2	7153.7	7234.9	7300.0	7335.4	7343.5	7340.8
20°	7281.1	7338.1	7373.3	7424.9	7481.9	7522.5	7533.4	7533.4
22.5°	7566.0	7598.6	7604.0	7620.2	7666.3	7720.6	7744.9	7750.3
25°	7880.7	7888.7	7867.0	7867.0	7896.9	7948.5	7972.8	7975.5
27.5°	8287.6	8246.8	8192.6	8173.6	8192.6	8252.3	8282.2	8293.0
30°	8794.9	8697.2	8572.3	8504.6	8493.7	8572.3	8626.7	8634.8
32.5°	9375.3	9234.2	9068.7	8930.5	8895.1	8944.1	9009.1	9006.4
35°	10064.4	9896.2	9695.4	9519.1	9437.8	9486.6	9578.7	9589.6
37.5°	10859.3	10639.5	10408.9	10186.5	10059.0	10072.5	10170.3	10202.8
40°	11746.3	11461.5	11171.2	10872.8	10691.1	10655.8	10775.2	10794.2
42.5°	12695.7	12329.5	11963.4	11594.5	11361.1	11306.8	11445.2	11437.1
45°	13707.6	13241.0	12812.4	12405.6	12128.8	12047.4	12161.3	12161.3
47.5°	14795.4	14220.3	13710.4	13249.2	12948.1	12831.4	12939.9	12948.1
50°	15948.4	15338.0	14738.5	14225.7	13865.0	13715.9	13856.9	13878.5
52.5°	17096.0	16501.9	15896.9	15310.9	14874.1	14692.4	14855.2	14925.7
55°	18259.7	17676.5	17098.6	16526.3	16008.1	15793.8	15967.5	16056.9
57.5°	19488.5	18948.8	18398.0	17820.2	17321.1	16987.4	17171.9	17291.3
60°	20929.2	20467.9	19895.5	19258.0	18753.5	18414.4	18520.1	18625.9
62.5°	22068.4	22247.5	21761.9	21024.0	20375.6	19941.7	20044.7	20155.9
65°	21517.7	23354.2	23785.6	23039.5	22141.8	21466.2	21422.8	21479.7
67.5°	17985.8	21553.0	24154.5	24865.4	24113.8	23175.3	23001.6	23085.7
70°	12031.2	16474.6	21064.7	24482.8	25391.6	25028.0	24857.2	24908.7
72.5°	5778.2	9595.1	14290.9	18834.9	21601.8	22871.4	23278.3	23476.3
75°	2113.3	3808.8	6887.8	10379.0	12530.3	14505.2	15793.8	16320.0
77.5°	1275.1	1538.2	2200.0	3312.3	3751.9	4199.3	4025.8	4112.6
80°	944.1	1066.1	1207.2	1356.4	1405.2	1405.2	1351.1	1307.6
82.5°	662.0	740.7	808.5	889.9	911.5	870.7	716.2	569.6
85°	425.8	461.2	491.1	542.5	529.0	504.6	339.1	301.1
87.5°	195.3	222.4	233.3	257.8	246.9	236.1	168.3	141.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)