

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: P191028

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191028  
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-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 67582.3 lumens  
Efficiency: N/A  
Efficacy: 105.6 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

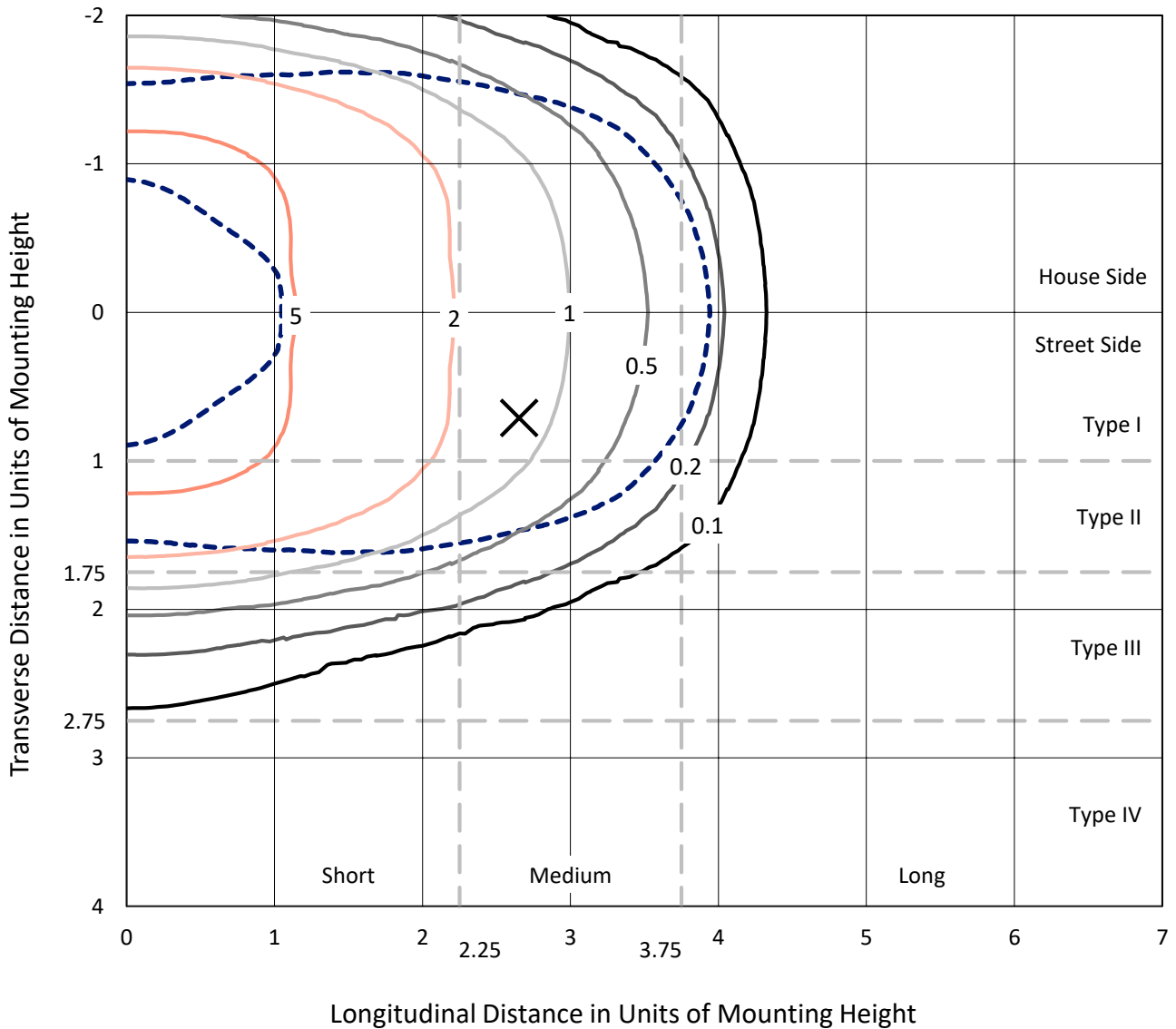
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

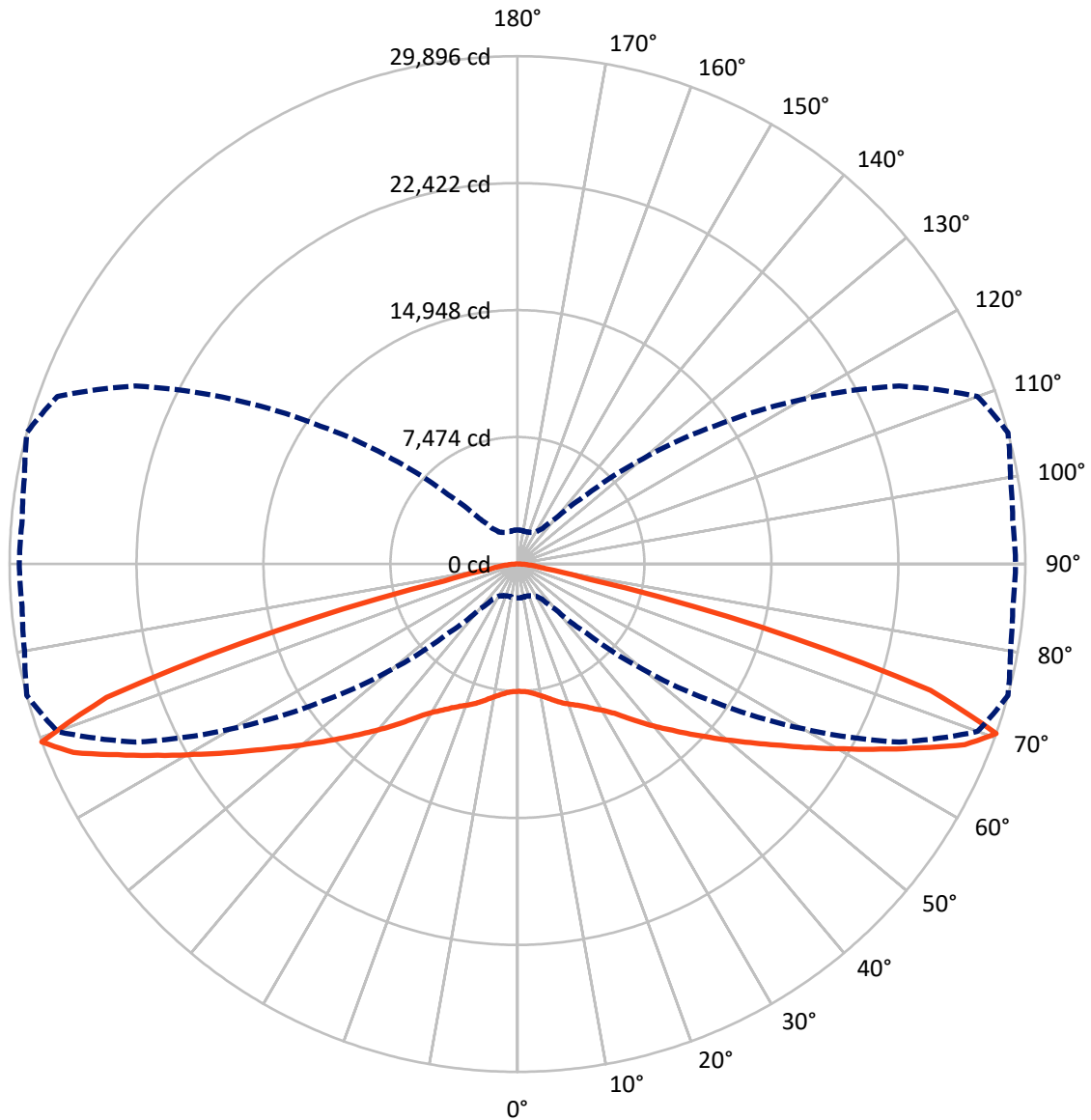
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 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	33791.1	0.0	33791.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	33791.1	0.0	33791.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	67582.3	0.0	67582.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	719.0	1.1
10°-20°	2233.9	3.3
20°-30°	4204.6	6.2
30°-40°	7445.6	11.0
40°-50°	12451.4	18.4
50°-60°	17351.0	25.7
60°-70°	16090.3	23.8
70°-80°	6412.4	9.5
80°-90°	674.0	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°	67582.3	100.0
0°-180°	67582.3	100.0



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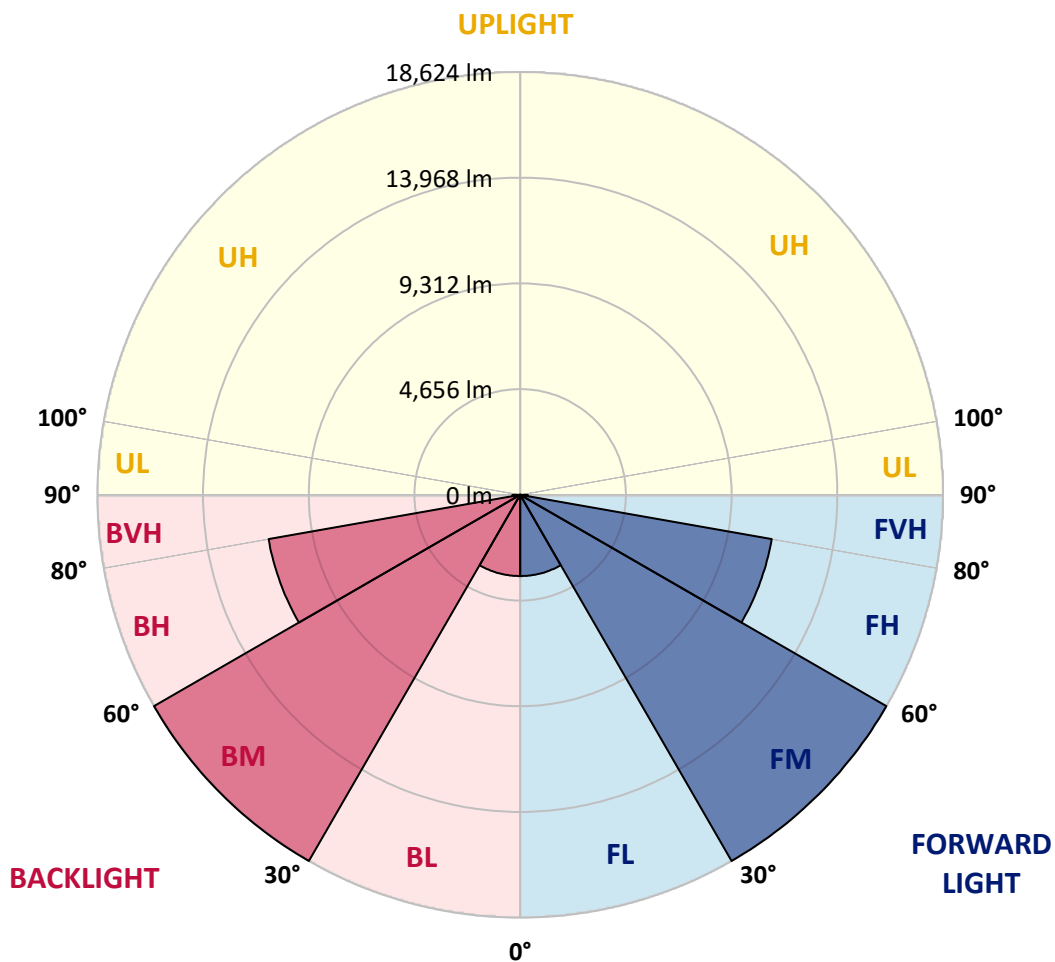
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3578.8	5.3			
FM	(30°-60°)	18624.0	27.6			
FH	(60°-80°)	11251.4	16.6			G4/12000
FVH	(80°-90°)	337.0	0.5			G3/500
BL	(0°-30°)	3578.8	5.3	B4/5000		
BM	(30°-60°)	18624.0	27.6	B5		
BH	(60°-80°)	11251.4	16.6	B5		G5
BVH	(80°-90°)	337.0	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°	7496.5	7496.5	7496.5	7496.5	7496.5	7496.5	7496.5	7496.5	7496.5	7496.5	7496.5
2.5°	7483.7	7477.3	7483.7	7480.4	7486.9	7486.9	7493.2	7506.0	7506.0	7515.6	7512.4
5°	7410.3	7407.0	7416.6	7426.2	7435.7	7455.0	7474.1	7502.8	7525.2	7541.2	7557.2
7.5°	7266.4	7266.4	7279.2	7301.6	7323.9	7365.5	7410.3	7467.7	7525.2	7573.1	7614.6
10°	7148.3	7154.7	7170.7	7208.9	7247.3	7311.2	7371.9	7455.0	7534.7	7614.6	7678.5
12.5°	7078.0	7087.6	7116.4	7173.9	7237.7	7323.9	7416.6	7522.0	7611.5	7707.2	7771.2
15°	7100.4	7106.7	7148.3	7218.6	7301.6	7410.3	7534.7	7659.3	7764.7	7867.0	7953.2
17.5°	7225.0	7234.5	7282.5	7362.3	7448.5	7576.3	7710.5	7850.9	7982.0	8097.0	8202.3
20°	7448.5	7458.1	7518.8	7605.0	7707.2	7838.3	7972.4	8119.3	8266.3	8387.6	8505.7
22.5°	7764.7	7780.8	7838.3	7924.5	8039.5	8180.0	8339.7	8496.2	8636.8	8748.5	8853.9
25°	8180.0	8215.1	8269.4	8365.3	8486.6	8614.4	8786.8	8946.5	9080.7	9186.1	9262.7
27.5°	8767.7	8815.6	8857.1	8949.7	9067.9	9189.3	9361.7	9502.3	9630.1	9732.3	9789.7
30°	9547.0	9595.0	9636.5	9725.9	9834.5	9949.5	10112.4	10237.0	10316.8	10396.7	10393.5
32.5°	10492.5	10543.6	10559.5	10655.4	10767.2	10891.8	11038.7	11108.9	11172.8	11182.4	11124.9
35°	11549.7	11575.3	11639.1	11766.9	11894.7	11996.9	12137.4	12172.5	12172.5	12124.6	11996.9
37.5°	12709.1	12725.1	12814.5	12958.3	13089.3	13194.6	13290.5	13360.8	13325.6	13223.4	13009.4
40°	13980.4	14009.1	14136.9	14264.6	14411.5	14510.6	14612.9	14625.5	14590.4	14440.3	14149.7
42.5°	15194.1	15219.7	15347.4	15548.6	15740.3	15877.6	15973.5	15992.6	15880.8	15743.5	15382.5
45°	16238.6	16305.6	16471.8	16708.1	16986.0	17180.9	17311.8	17366.1	17267.1	17088.2	16669.8
47.5°	17065.9	17132.9	17369.3	17650.3	17995.3	18311.5	18528.7	18643.7	18618.1	18484.0	18027.3
50°	17672.7	17736.6	17992.1	18337.1	18739.5	19132.4	19502.9	19777.6	19873.4	19812.7	19394.3
52.5°	17743.0	17848.3	18148.6	18611.8	19135.6	19672.2	20199.2	20665.6	20981.7	21029.6	20719.9
55°	16762.4	16867.8	17283.1	17969.8	18749.2	19624.3	20467.5	21253.2	21876.1	22195.5	22032.6
57.5°	14449.9	14638.3	15075.9	15880.8	17027.5	18337.1	19681.8	21077.6	22345.6	23192.0	23354.9
60°	11073.7	11297.4	11738.2	12594.2	13871.8	15433.7	17228.7	19292.1	21531.2	23434.8	24571.9
62.5°	7103.6	7314.4	7777.5	8521.7	9563.0	11255.8	13181.8	15631.7	18640.5	21646.2	24354.7
65°	3650.8	3765.8	4008.5	4458.9	5270.2	6535.0	8263.0	10706.5	14146.5	17854.8	21770.6
67.5°	2312.5	2334.9	2389.2	2453.0	2660.7	3098.2	3903.2	5426.7	8256.6	12124.6	16708.1
70°	1999.5	1999.5	1973.9	1964.4	1989.9	2050.6	2175.2	2529.7	3484.7	5755.7	9636.5
72.5°	1830.2	1811.0	1766.3	1731.1	1724.8	1724.8	1750.4	1804.7	1957.9	2344.4	3772.1
75°	1686.4	1632.1	1571.5	1529.9	1514.0	1498.0	1494.8	1504.4	1536.4	1597.0	1801.4
77.5°	1510.8	1440.5	1370.2	1328.7	1309.6	1287.2	1268.0	1245.6	1229.7	1248.9	1338.3
80°	1300.0	1220.2	1165.9	1140.3	1121.2	1089.1	1047.6	1009.3	974.2	967.8	1022.1
82.5°	1047.6	955.0	958.2	967.8	932.6	887.9	843.2	801.7	741.0	709.1	741.0
85°	846.4	798.5	776.1	836.9	785.7	718.6	648.3	574.9	479.2	402.4	437.6
87.5°	329.0	329.0	491.8	757.0	680.4	555.8	475.9	405.6	252.4	194.9	198.0
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°	7496.5	7496.5	7496.5	7496.5	7496.5	7496.5	7496.5	7496.5
2.5°	7509.2	7515.6	7512.4	7509.2	7509.2	7506.0	7509.2	7509.2
5°	7566.8	7582.7	7582.7	7589.1	7589.1	7592.2	7595.5	7592.2
7.5°	7653.0	7681.7	7700.9	7723.2	7726.4	7729.6	7736.0	7729.6
10°	7739.2	7796.7	7838.3	7879.7	7898.9	7905.3	7911.7	7911.7
12.5°	7847.8	7927.7	8001.1	8074.6	8109.7	8128.9	8128.9	8141.7
15°	8026.7	8106.5	8192.7	8291.7	8352.5	8384.4	8394.0	8394.0
17.5°	8278.9	8349.2	8422.8	8518.5	8595.2	8636.8	8646.3	8643.1
20°	8572.8	8639.9	8681.5	8742.1	8809.2	8857.1	8869.9	8869.9
22.5°	8908.3	8946.5	8953.0	8972.1	9026.4	9090.2	9119.0	9125.4
25°	9278.8	9288.3	9262.7	9262.7	9297.9	9358.6	9387.3	9390.5
27.5°	9757.8	9710.0	9646.0	9623.7	9646.0	9716.3	9751.5	9764.3
30°	10355.1	10240.1	10093.3	10013.4	10000.6	10093.3	10157.1	10166.7
32.5°	11038.7	10872.5	10677.8	10514.8	10473.3	10530.8	10607.5	10604.2
35°	11850.0	11651.9	11415.5	11208.0	11112.1	11169.6	11278.2	11291.0
37.5°	12785.8	12527.1	12255.6	11993.7	11843.5	11859.5	11974.6	12012.8
40°	13830.3	13494.9	13153.1	12801.8	12587.8	12546.3	12686.7	12709.1
42.5°	14948.2	14517.0	14085.8	13651.4	13376.7	13312.8	13475.7	13466.1
45°	16139.6	15590.2	15085.6	14606.4	14280.6	14184.8	14319.0	14319.0
47.5°	17420.3	16743.2	16142.8	15599.8	15245.2	15107.9	15235.6	15245.2
50°	18777.9	18059.2	17353.3	16749.6	16324.9	16149.1	16315.2	16340.8
52.5°	20128.9	19429.4	18717.1	18027.3	17513.0	17299.0	17490.6	17573.7
55°	21499.2	20812.4	20132.1	19458.2	18848.1	18595.8	18800.2	18905.7
57.5°	22946.1	22310.5	21662.1	20981.7	20394.1	20001.1	20218.4	20358.9
60°	24642.2	24099.2	23425.2	22674.6	22080.5	21681.2	21805.8	21930.4
62.5°	25983.7	26194.5	25622.7	24754.0	23990.5	23479.5	23600.9	23731.8
65°	25335.2	27497.6	28005.5	27127.1	26069.9	25274.6	25223.4	25290.5
67.5°	21176.6	25376.8	28439.9	29276.8	28392.0	27286.8	27082.4	27181.4
70°	14165.6	19397.5	24801.9	28826.3	29896.4	29468.3	29267.1	29327.8
72.5°	6803.3	11297.4	16826.3	22176.3	25434.2	26929.1	27408.2	27641.4
75°	2488.1	4484.4	8109.7	12220.5	14753.3	17078.6	18595.8	19215.4
77.5°	1501.2	1811.0	2590.4	3899.9	4417.4	4944.4	4739.9	4842.1
80°	1111.5	1255.3	1421.4	1597.0	1654.5	1654.5	1590.7	1539.5
82.5°	779.4	872.0	951.9	1047.6	1073.2	1025.3	843.2	670.7
85°	501.5	543.0	578.2	638.8	622.9	594.1	399.3	354.6
87.5°	230.0	261.9	274.7	303.4	290.6	277.8	198.0	166.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)