

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: P190816

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190816  
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-08-LED-E1-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51264.2 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G5

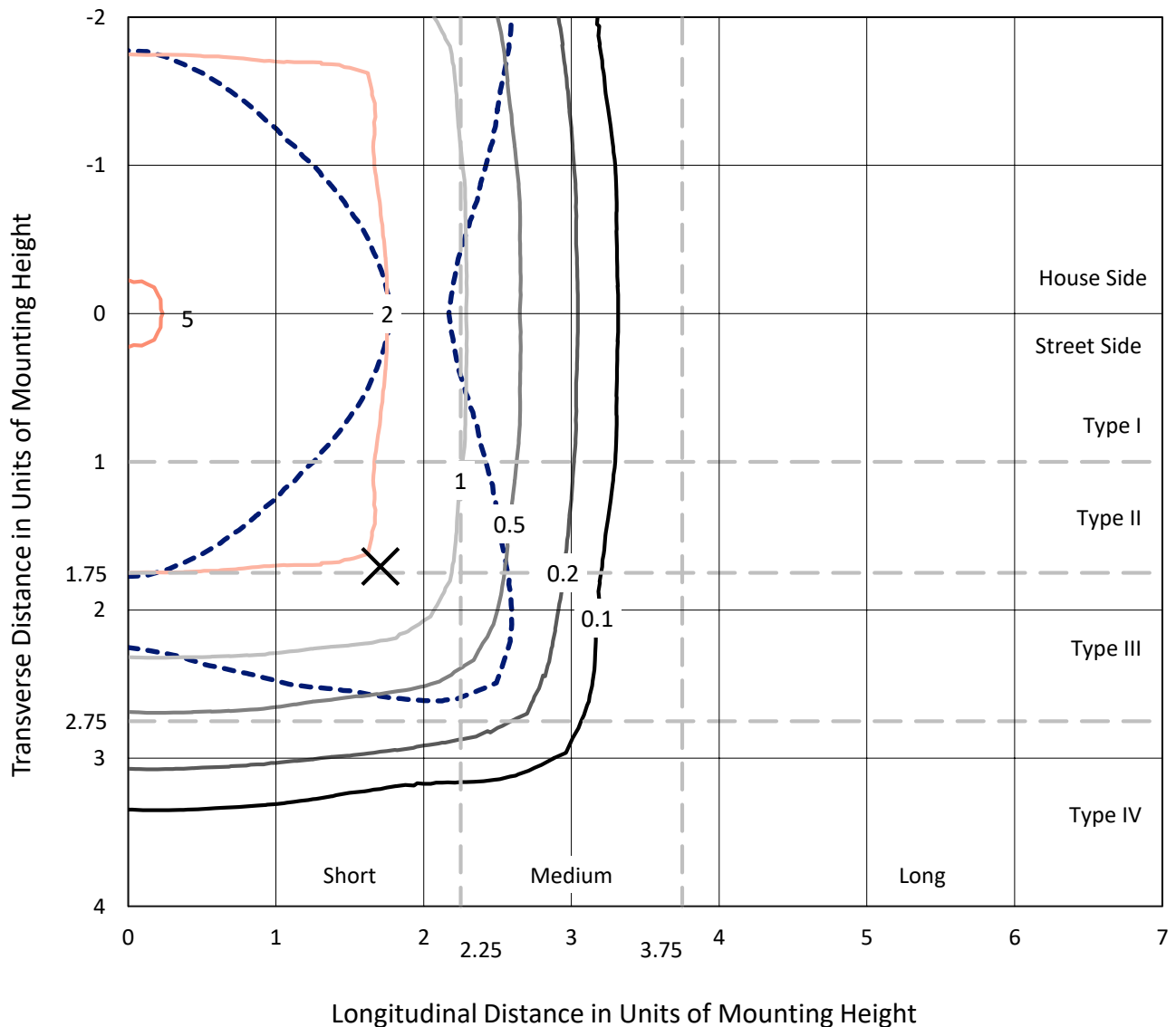
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P190816  
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### Iso-Footcandle Lines of Horizontal Illumination

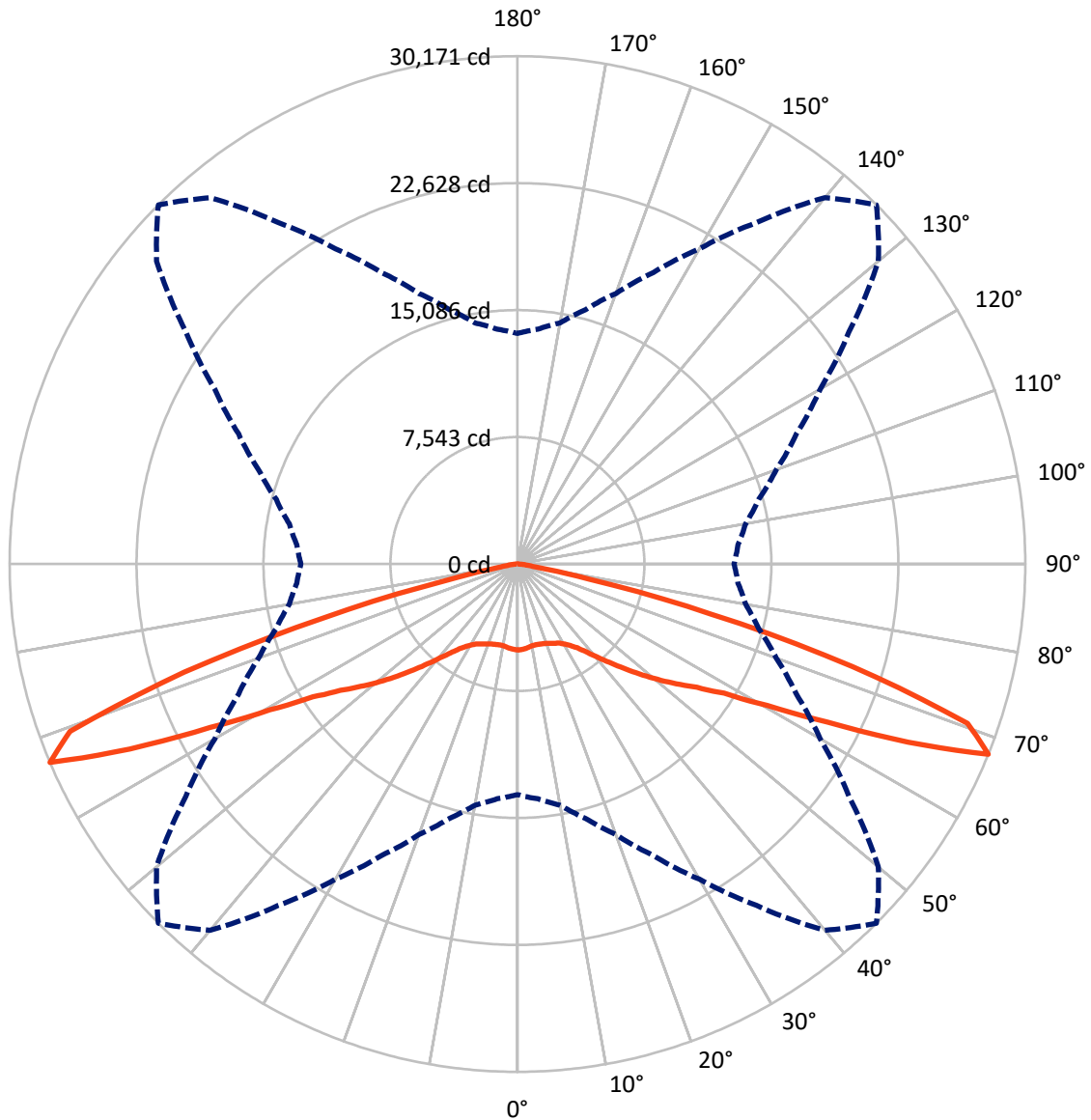
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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	25632.1	0.0	25632.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25632.1	0.0	25632.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	51264.2	0.0	51264.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	478.1	0.9
10°-20°	1387.5	2.7
20°-30°	2358.7	4.6
30°-40°	3855.8	7.5
40°-50°	6883.3	13.4
50°-60°	11605.4	22.6
60°-70°	18009.9	35.1
70°-80°	6327.9	12.3
80°-90°	357.6	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°	51264.2	100.0
0°-180°	51264.2	100.0



REPORT NUMBER: P190816

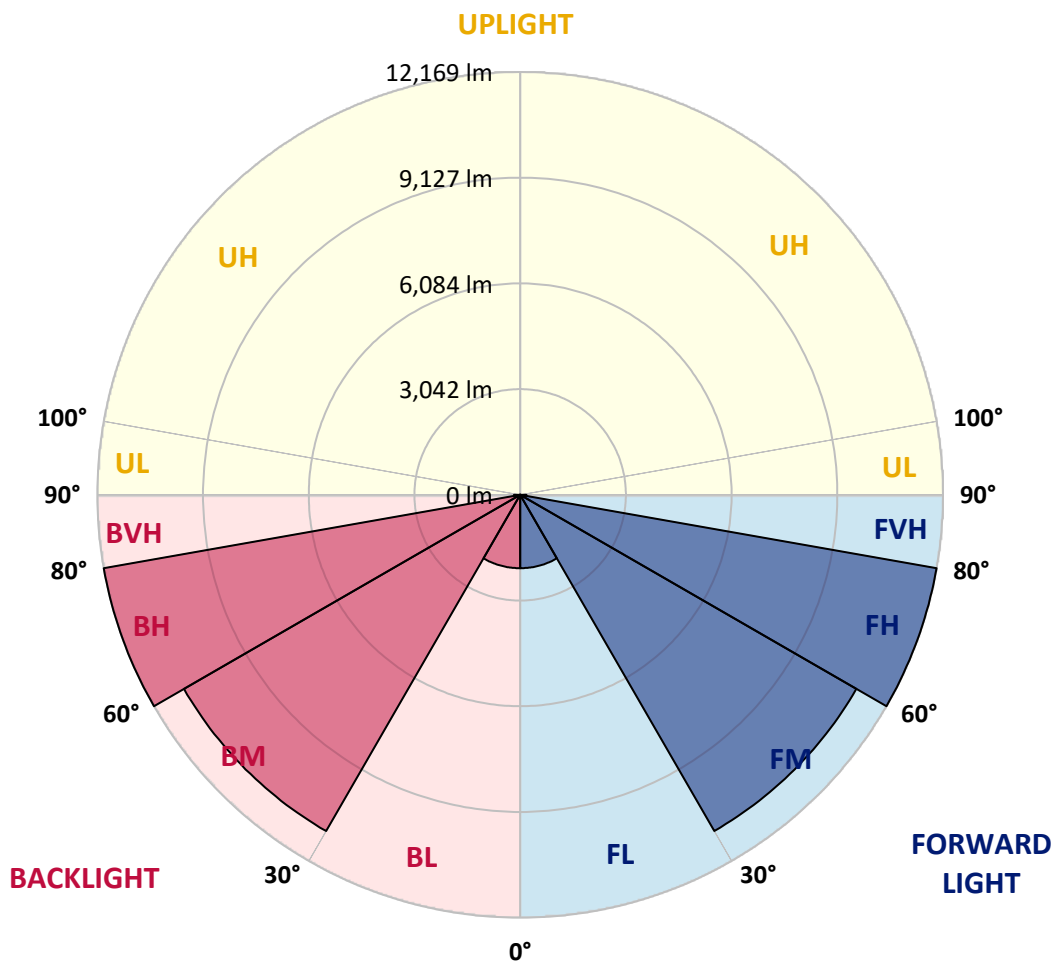
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2112.2	4.1			
FM (30°-60°)	11172.2	21.8			
FH (60°-80°)	12168.9	23.7			G5
FVH (80°-90°)	178.8	0.3			G2/225
BL (0°-30°)	2112.2	4.1	B3/2500		
BM (30°-60°)	11172.2	21.8	B5		
BH (60°-80°)	12168.9	23.7	B5		G5
BVH (80°-90°)	178.8	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-G5**

Type V Short





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CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5108.7	5108.7	5108.7	5108.7	5108.7	5108.7	5108.7	5108.7	5108.7	5108.7	5108.7
2.5°	5089.8	5094.5	5094.5	5094.5	5092.1	5092.1	5087.4	5092.1	5089.8	5082.7	5085.1
5°	5047.4	5052.1	5052.1	5049.8	5056.9	5054.5	5047.4	5052.1	5049.8	5045.0	5047.4
7.5°	4986.1	4993.1	4993.1	4990.8	4997.9	4995.6	4990.8	4993.1	4993.1	4986.1	4986.1
10°	4917.7	4922.4	4922.4	4920.1	4931.9	4931.9	4929.5	4936.6	4938.9	4931.9	4927.1
12.5°	4854.1	4861.2	4861.2	4870.6	4882.3	4887.0	4898.9	4908.3	4917.7	4915.4	4906.0
15°	4816.4	4821.1	4830.5	4842.3	4861.2	4877.6	4896.6	4917.7	4936.6	4941.3	4927.1
17.5°	4792.8	4799.9	4814.0	4830.5	4856.5	4884.7	4913.0	4941.3	4967.2	4976.7	4960.2
20°	4785.7	4790.5	4804.6	4832.8	4868.2	4910.7	4950.8	4983.7	5019.1	5030.9	5019.1
22.5°	4799.9	4809.3	4825.8	4858.8	4906.0	4960.2	5007.3	5052.1	5096.9	5118.1	5101.7
25°	4863.5	4872.9	4894.2	4936.6	4988.4	5045.0	5099.3	5151.2	5191.2	5212.4	5200.7
27.5°	4981.4	4993.1	5019.1	5061.6	5118.1	5179.4	5238.3	5280.8	5313.8	5320.9	5306.8
30°	5158.2	5184.1	5214.8	5262.0	5327.9	5379.8	5438.7	5476.5	5516.6	5516.6	5504.7
32.5°	5434.0	5460.0	5492.9	5537.7	5589.6	5646.2	5698.0	5731.1	5773.5	5775.9	5747.6
35°	5846.6	5858.3	5886.7	5914.9	5962.1	6011.6	6056.4	6077.7	6112.9	6115.3	6089.4
37.5°	6391.2	6393.5	6412.4	6421.8	6464.2	6518.4	6560.9	6575.0	6608.1	6603.4	6577.4
40°	7025.3	7037.1	7044.1	7058.4	7103.2	7155.0	7199.8	7206.9	7242.2	7235.1	7202.2
42.5°	7758.5	7763.3	7803.3	7824.6	7867.0	7892.9	7949.5	7956.5	7999.0	7980.1	7942.4
45°	8581.2	8623.7	8661.4	8703.9	8748.7	8779.3	8824.1	8814.7	8843.0	8814.7	8793.5
47.5°	9446.4	9477.1	9562.0	9628.0	9701.1	9727.0	9790.7	9762.4	9790.7	9750.6	9743.5
50°	10398.9	10453.1	10526.2	10601.7	10679.4	10721.9	10804.4	10769.0	10806.8	10769.0	10747.8
52.5°	11337.2	11351.4	11511.7	11622.5	11730.9	11780.4	11829.9	11813.4	11815.8	11813.4	11792.2
55°	12228.4	12261.3	12421.6	12572.5	12761.1	12900.2	12985.0	12975.6	12954.4	12933.2	12897.9
57.5°	13232.6	13265.6	13449.6	13635.7	13850.2	14048.3	14220.4	14397.2	14465.5	14484.5	14406.6
60°	14590.6	14588.2	14833.4	15059.7	15366.2	15660.9	16038.0	16422.4	16863.1	17068.2	16797.2
62.5°	15972.0	16028.6	16382.3	16783.0	17414.8	18030.1	18725.5	19409.3	20107.0	20675.3	20071.7
65°	15807.0	16023.9	16549.6	17457.3	18624.3	20010.5	21509.8	23096.4	24529.7	25515.2	24409.4
67.5°	13699.4	14008.2	14543.4	15646.6	17106.0	19105.1	21622.9	24760.7	28407.8	30171.2	27985.8
70°	9929.8	10278.7	10839.8	11917.2	13362.3	15262.4	17997.1	21764.4	26592.5	28370.1	25963.1
72.5°	4941.3	5129.9	5476.5	6162.5	7256.4	8798.2	11278.2	14899.4	19171.1	20802.5	18603.0
75°	1678.6	1765.7	1824.7	2048.7	2395.2	3001.1	4234.1	6513.7	9936.8	11912.5	9795.4
77.5°	968.9	971.3	1011.4	1051.5	1110.4	1176.4	1341.4	1761.0	3045.8	4326.0	3152.0
80°	627.1	624.7	657.8	688.3	728.4	761.5	770.9	815.7	940.6	1115.1	997.2
82.5°	325.3	365.4	438.5	478.5	554.0	568.1	549.3	532.8	563.4	584.6	598.8
85°	179.1	155.6	233.4	301.8	334.8	339.5	339.5	320.6	332.4	325.3	353.6
87.5°	82.6	75.4	92.0	148.5	157.9	134.4	141.5	124.9	89.6	87.3	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°	5108.7	5108.7	5108.7	5108.7	5108.7	5108.7	5108.7	5108.7
2.5°	5085.1	5087.4	5087.4	5094.5	5096.9	5101.7	5106.4	5108.7
5°	5045.0	5052.1	5047.4	5054.5	5054.5	5059.2	5059.2	5061.6
7.5°	4986.1	4993.1	4993.1	4993.1	4990.8	4997.9	4997.9	4997.9
10°	4924.8	4929.5	4927.1	4922.4	4917.7	4924.8	4922.4	4920.1
12.5°	4906.0	4894.2	4884.7	4880.0	4870.6	4872.9	4865.9	4865.9
15°	4917.7	4896.6	4880.0	4872.9	4863.5	4858.8	4854.1	4856.5
17.5°	4948.4	4922.4	4901.3	4889.4	4877.6	4870.6	4861.2	4863.5
20°	5002.6	4972.0	4941.3	4917.7	4896.6	4884.7	4877.6	4875.3
22.5°	5082.7	5037.9	4993.1	4957.8	4929.5	4913.0	4906.0	4901.3
25°	5174.7	5125.2	5073.3	5033.2	5005.0	4983.7	4969.6	4969.6
27.5°	5290.2	5250.1	5203.0	5155.9	5129.9	5108.7	5099.3	5094.5
30°	5483.5	5445.8	5408.1	5363.3	5330.3	5309.1	5292.5	5278.4
32.5°	5731.1	5700.4	5669.8	5636.8	5606.1	5577.8	5551.9	5540.1
35°	6080.0	6056.4	6035.2	5997.5	5985.7	5969.2	5955.0	5943.2
37.5°	6560.9	6551.5	6551.5	6511.4	6502.0	6494.9	6480.7	6483.2
40°	7192.7	7202.2	7190.3	7176.2	7169.1	7150.3	7150.3	7166.8
42.5°	7940.0	7947.1	7973.1	7949.5	7975.4	7951.8	7937.7	7949.5
45°	8807.6	8833.5	8885.4	8861.8	8878.3	8838.3	8788.8	8791.1
47.5°	9781.3	9804.8	9826.1	9809.5	9811.9	9745.9	9679.9	9663.4
50°	10792.6	10802.1	10813.8	10790.3	10795.0	10721.9	10646.5	10648.8
52.5°	11792.2	11837.0	11884.1	11820.5	11806.3	11723.8	11617.8	11575.3
55°	12935.5	12999.2	12945.0	12834.2	12723.4	12612.6	12473.5	12449.9
57.5°	14345.4	14236.9	14067.2	13857.3	13704.1	13548.5	13407.1	13348.2
60°	16306.8	15898.9	15592.4	15281.2	15085.6	14894.7	14708.4	14680.2
62.5°	19079.2	18374.3	17763.7	17120.1	16594.4	16184.2	15856.5	15764.6
65°	22554.1	20887.4	19442.2	18093.7	16922.1	16038.0	15481.6	15236.4
67.5°	24048.8	20757.7	18280.0	16365.7	14833.4	13763.1	13161.9	12862.5
70°	21132.5	17214.4	14519.8	12603.2	11207.6	10066.4	9521.9	9201.3
72.5°	14538.7	10950.6	8659.1	7067.8	5952.7	4997.9	4620.7	4592.4
75°	6527.9	4323.6	2979.9	2296.2	1933.2	1680.9	1603.1	1544.1
77.5°	1827.1	1350.8	1204.7	1126.9	1051.5	964.2	931.2	938.3
80°	888.7	839.2	806.3	756.8	688.3	615.3	582.3	596.5
82.5°	589.4	582.3	603.5	568.1	469.1	398.4	334.8	306.5
85°	358.3	363.0	370.1	372.5	315.9	221.6	150.9	169.7
87.5°	141.5	162.6	176.8	183.9	172.1	106.1	84.9	87.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)