

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: P191626

Luminaire Tested: **GLEON-AF-08-LED-E1-5MQ-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191626  
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-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 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: 54975 lumens  
Efficiency: N/A  
Efficacy: 107.6 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

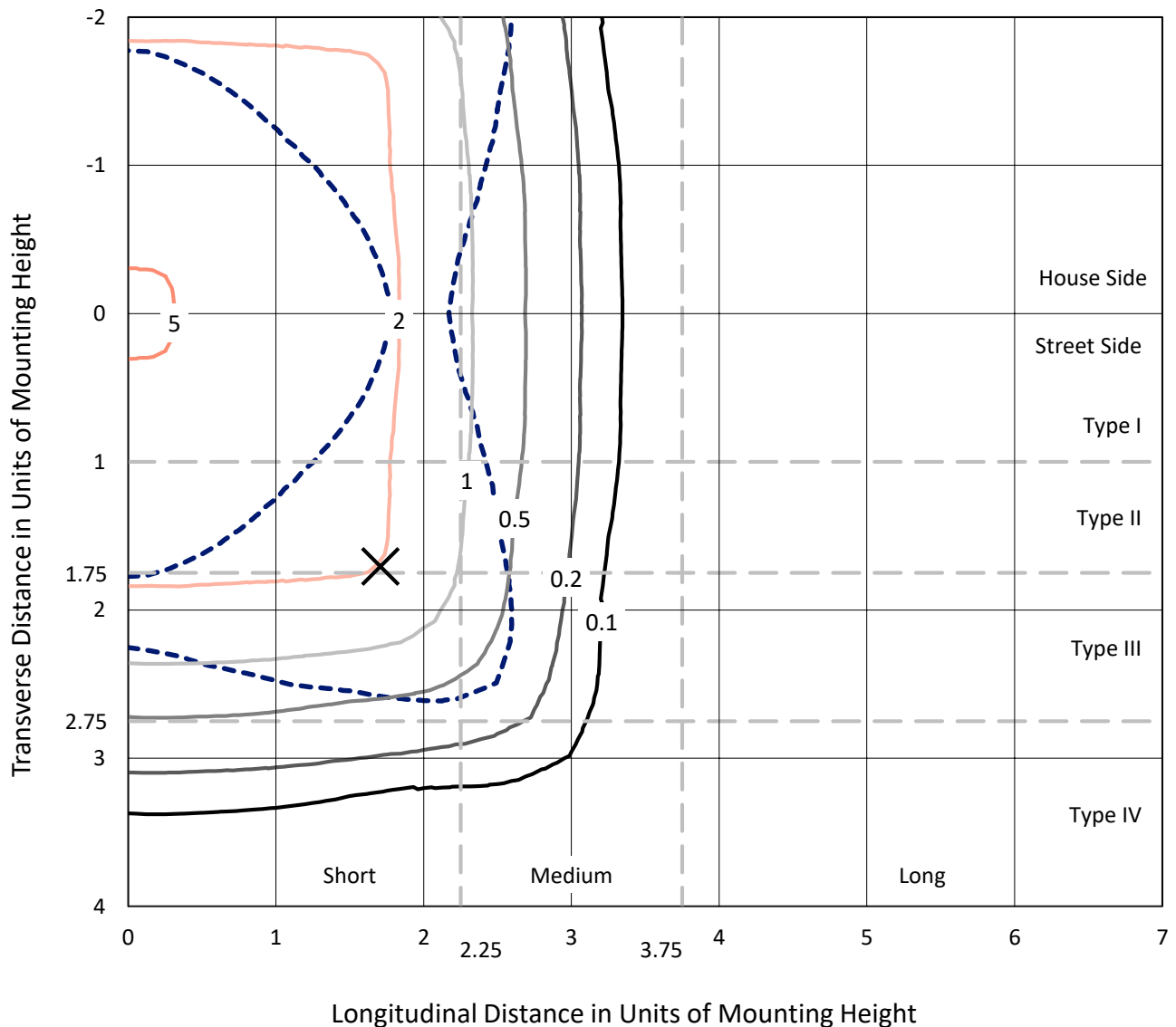
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

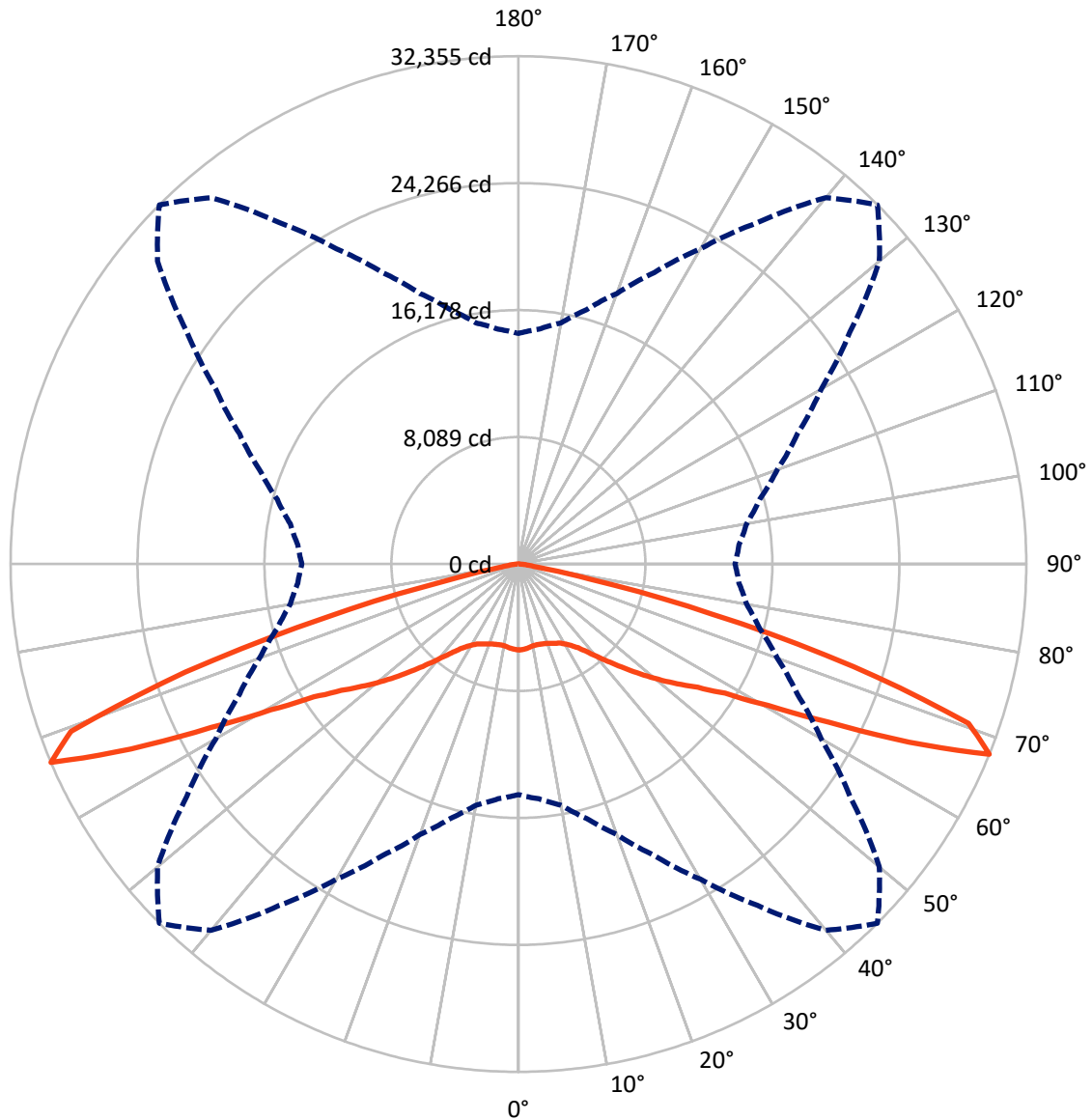
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 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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CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ-7050-1200

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	27487.5	0.0	27487.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	27487.5	0.0	27487.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	54975.0	0.0	54975.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	512.8	0.9
10°-20°	1487.9	2.7
20°-30°	2529.5	4.6
30°-40°	4134.9	7.5
40°-50°	7381.5	13.4
50°-60°	12445.5	22.6
60°-70°	19313.5	35.1
70°-80°	6785.9	12.3
80°-90°	383.5	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°	54975.0	100.0
0°-180°	54975.0	100.0



REPORT NUMBER: P191626

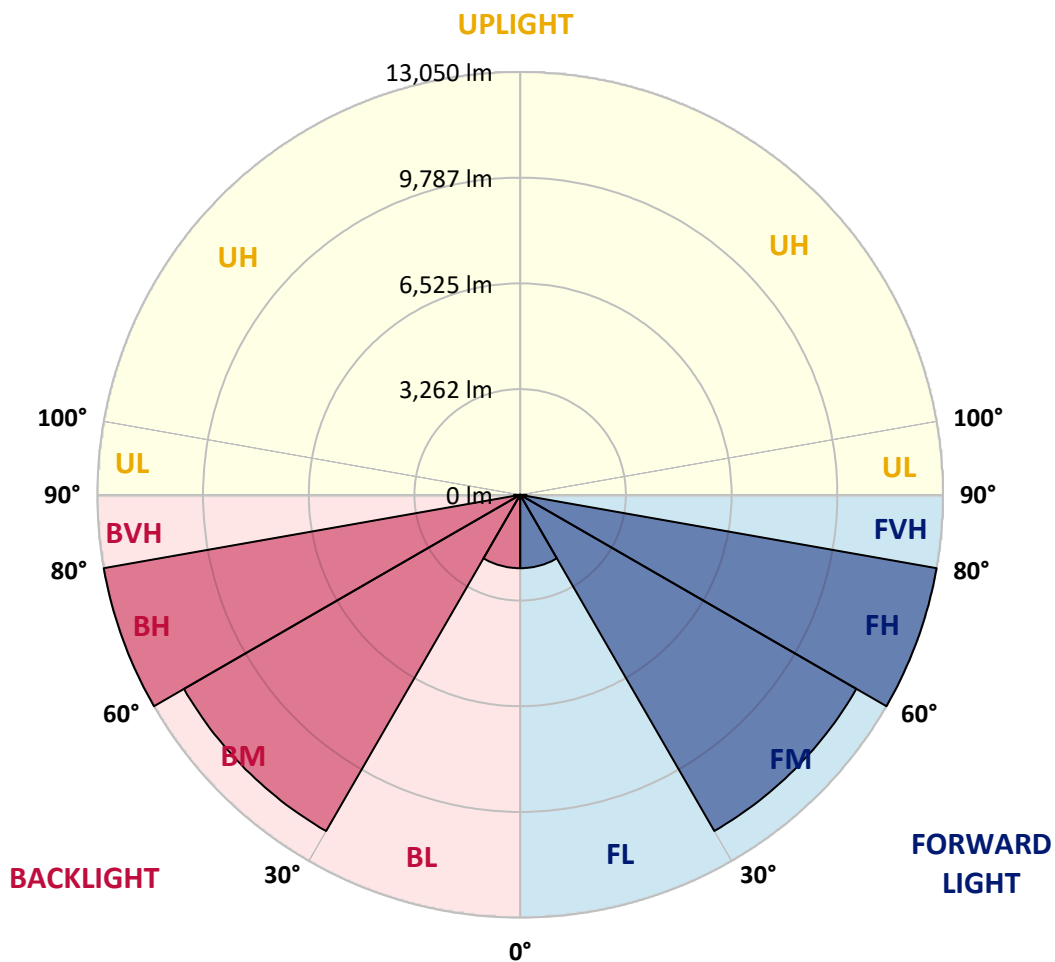
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2265.1	4.1			
FM	(30°-60°)	11981.0	21.8			
FH	(60°-80°)	13049.7	23.7			G5
FVH	(80°-90°)	191.7	0.3			G2/225
BL	(0°-30°)	2265.1	4.1	B3/2500		
BM	(30°-60°)	11981.0	21.8	B5		
BH	(60°-80°)	13049.7	23.7	B5		G5
BVH	(80°-90°)	191.7	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





REPORT NUMBER: P191626

CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ-7050-1200

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5478.5	5478.5	5478.5	5478.5	5478.5	5478.5	5478.5	5478.5	5478.5	5478.5	5478.5
2.5°	5458.3	5463.3	5463.3	5463.3	5460.8	5460.8	5455.7	5460.8	5458.3	5450.7	5453.2
5°	5412.8	5417.8	5417.8	5415.3	5422.9	5420.3	5412.8	5417.8	5415.3	5410.2	5412.8
7.5°	5347.0	5354.6	5354.6	5352.1	5359.7	5357.1	5352.1	5354.6	5354.6	5347.0	5347.0
10°	5273.7	5278.8	5278.8	5276.2	5288.9	5288.9	5286.4	5293.9	5296.5	5288.9	5283.8
12.5°	5205.5	5213.0	5213.0	5223.1	5235.8	5240.8	5253.5	5263.6	5273.7	5271.2	5261.1
15°	5165.0	5170.1	5180.2	5192.8	5213.0	5230.7	5251.0	5273.7	5293.9	5299.0	5283.8
17.5°	5139.7	5147.3	5162.5	5180.2	5208.0	5238.3	5268.7	5299.0	5326.8	5336.9	5319.2
20°	5132.1	5137.2	5152.4	5182.7	5220.6	5266.1	5309.1	5344.5	5382.4	5395.1	5382.4
22.5°	5147.3	5157.4	5175.1	5210.5	5261.1	5319.2	5369.8	5417.8	5465.8	5488.6	5470.9
25°	5215.6	5225.7	5248.4	5293.9	5349.6	5410.2	5468.4	5524.0	5567.0	5589.7	5577.1
27.5°	5342.0	5354.6	5382.4	5427.9	5488.6	5554.3	5617.5	5663.0	5698.4	5706.0	5690.9
30°	5531.6	5559.4	5592.3	5642.8	5713.6	5769.2	5832.4	5872.9	5915.9	5915.9	5903.2
32.5°	5827.4	5855.2	5890.6	5938.6	5994.2	6054.9	6110.5	6145.9	6191.4	6194.0	6163.6
35°	6269.8	6282.4	6312.8	6343.1	6393.7	6446.8	6494.8	6517.6	6555.5	6558.0	6530.2
37.5°	6853.8	6856.3	6876.6	6886.7	6932.2	6990.3	7035.8	7051.0	7086.4	7081.3	7053.5
40°	7533.9	7546.5	7554.1	7569.3	7617.3	7672.9	7721.0	7728.5	7766.5	7758.9	7723.5
42.5°	8320.1	8325.2	8368.2	8390.9	8436.4	8464.2	8524.9	8532.5	8578.0	8557.8	8517.3
45°	9202.4	9248.0	9288.4	9333.9	9381.9	9414.8	9462.8	9452.7	9483.1	9452.7	9430.0
47.5°	10130.3	10163.1	10254.2	10324.9	10403.3	10431.1	10499.4	10469.0	10499.4	10456.4	10448.8
50°	11151.6	11209.8	11288.2	11369.1	11452.5	11498.0	11586.5	11548.6	11589.0	11548.6	11525.8
52.5°	12157.9	12173.0	12344.9	12463.8	12580.1	12633.1	12686.2	12668.5	12671.1	12668.5	12645.8
55°	13113.5	13148.9	13320.8	13482.6	13684.8	13834.0	13925.0	13914.9	13892.2	13869.4	13831.5
57.5°	14190.5	14225.9	14423.1	14622.8	14852.9	15065.2	15249.8	15439.4	15512.7	15532.9	15449.5
60°	15646.7	15644.2	15907.1	16149.8	16478.5	16794.5	17199.0	17611.1	18083.8	18303.8	18013.0
62.5°	17128.2	17188.9	17568.1	17997.9	18675.4	19335.3	20081.1	20814.2	21562.6	22171.8	21524.6
65°	16951.2	17183.8	17747.6	18720.9	19972.3	21458.9	23066.8	24768.2	26305.4	27362.1	26176.4
67.5°	14691.1	15022.2	15596.1	16779.3	18344.2	20488.1	23188.1	26553.1	30464.1	32355.2	30011.6
70°	10648.5	11022.7	11624.4	12779.8	14329.5	16367.2	19299.9	23339.8	28517.5	30423.7	27842.5
72.5°	5299.0	5501.2	5872.9	6608.6	7781.6	9435.0	12094.6	15977.9	20558.9	22308.4	19949.6
75°	1800.0	1893.6	1956.8	2197.0	2568.6	3218.3	4540.5	6985.3	10656.1	12774.7	10504.4
77.5°	1039.1	1041.6	1084.6	1127.6	1190.8	1261.5	1438.5	1888.5	3266.4	4639.1	3380.1
80°	672.5	670.0	705.4	738.2	781.2	816.6	826.7	874.7	1008.7	1195.8	1069.4
82.5°	348.9	391.9	470.2	513.2	594.1	609.3	589.1	571.4	604.2	627.0	642.1
85°	192.1	166.9	250.3	323.6	359.0	364.1	364.1	343.8	356.5	348.9	379.2
87.5°	88.5	80.9	98.6	159.3	169.4	144.1	151.7	134.0	96.1	93.5	106.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191626

CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ-7050-1200

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	5478.5	5478.5	5478.5	5478.5	5478.5	5478.5	5478.5	5478.5
2.5°	5453.2	5455.7	5455.7	5463.3	5465.8	5470.9	5476.0	5478.5
5°	5410.2	5417.8	5412.8	5420.3	5420.3	5425.4	5425.4	5427.9
7.5°	5347.0	5354.6	5354.6	5354.6	5352.1	5359.7	5359.7	5359.7
10°	5281.3	5286.4	5283.8	5278.8	5273.7	5281.3	5278.8	5276.2
12.5°	5261.1	5248.4	5238.3	5233.3	5223.1	5225.7	5218.1	5218.1
15°	5273.7	5251.0	5233.3	5225.7	5215.6	5210.5	5205.5	5208.0
17.5°	5306.6	5278.8	5256.0	5243.4	5230.7	5223.1	5213.0	5215.6
20°	5364.7	5331.9	5299.0	5273.7	5251.0	5238.3	5230.7	5228.2
22.5°	5450.7	5402.6	5354.6	5316.7	5286.4	5268.7	5261.1	5256.0
25°	5549.3	5496.2	5440.6	5397.6	5367.3	5344.5	5329.3	5329.3
27.5°	5673.2	5630.2	5579.6	5529.1	5501.2	5478.5	5468.4	5463.3
30°	5880.5	5840.0	5799.6	5751.5	5716.1	5693.4	5675.7	5660.5
32.5°	6145.9	6113.1	6080.2	6044.8	6011.9	5981.6	5953.8	5941.1
35°	6520.1	6494.8	6472.1	6431.6	6419.0	6401.3	6386.1	6373.5
37.5°	7035.8	7025.7	7025.7	6982.7	6972.6	6965.0	6949.9	6952.4
40°	7713.4	7723.5	7710.8	7695.7	7688.1	7667.9	7667.9	7685.6
42.5°	8514.8	8522.4	8550.2	8524.9	8552.7	8527.4	8512.3	8524.9
45°	9445.2	9473.0	9528.6	9503.3	9521.0	9478.0	9424.9	9427.5
47.5°	10489.3	10514.6	10537.3	10519.6	10522.1	10451.4	10380.6	10362.9
50°	11573.8	11584.0	11596.6	11571.3	11576.4	11498.0	11417.1	11419.6
52.5°	12645.8	12693.8	12744.4	12676.1	12661.0	12572.5	12458.7	12413.2
55°	13871.9	13940.2	13882.0	13763.2	13644.4	13525.6	13376.4	13351.1
57.5°	15383.8	15267.5	15085.4	14860.4	14696.1	14529.3	14377.6	14314.4
60°	17487.2	17049.8	16721.2	16387.4	16177.6	15972.8	15773.1	15742.8
62.5°	20460.3	19704.4	19049.6	18359.4	17795.6	17355.7	17004.3	16905.7
65°	24186.8	22399.4	20849.6	19403.5	18147.0	17199.0	16602.3	16339.4
67.5°	25789.6	22260.3	19603.2	17550.4	15907.1	14759.3	14114.6	13793.6
70°	22662.3	18460.5	15570.8	13515.5	12018.8	10795.2	10211.2	9867.4
72.5°	15591.1	11743.2	9285.9	7579.4	6383.6	5359.7	4955.2	4924.8
75°	7000.4	4636.6	3195.6	2462.4	2073.1	1802.6	1719.1	1655.9
77.5°	1959.3	1448.6	1291.9	1208.5	1127.6	1034.0	998.6	1006.2
80°	953.1	900.0	864.6	811.5	738.2	659.8	624.5	639.6
82.5°	632.0	624.5	647.2	609.3	503.1	427.3	359.0	328.7
85°	384.3	389.3	396.9	399.4	338.8	237.6	161.8	182.0
87.5°	151.7	174.4	189.6	197.2	184.6	113.8	91.0	93.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)