

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: P191656

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191656  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
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-E1-5NQ-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49208 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

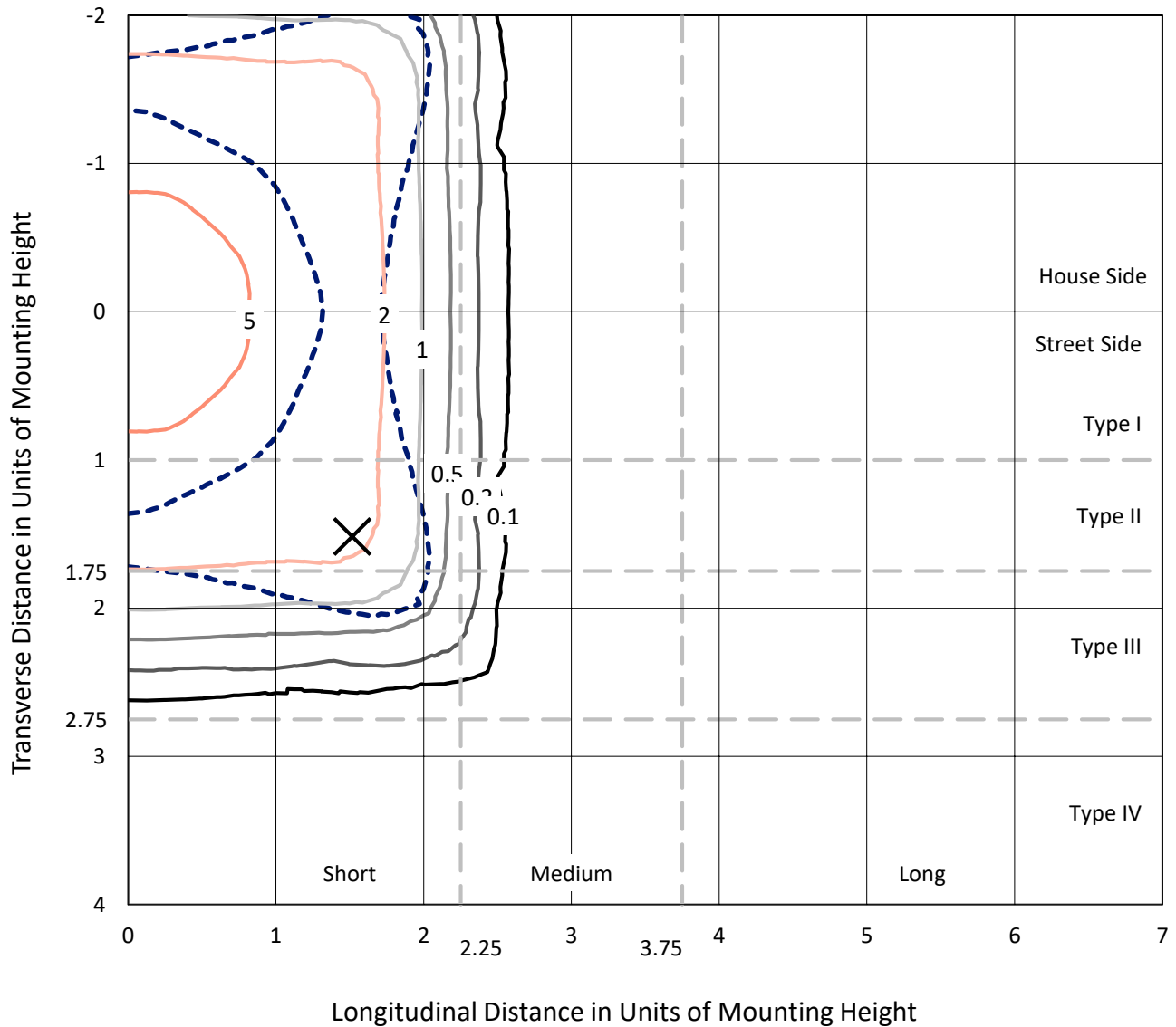
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

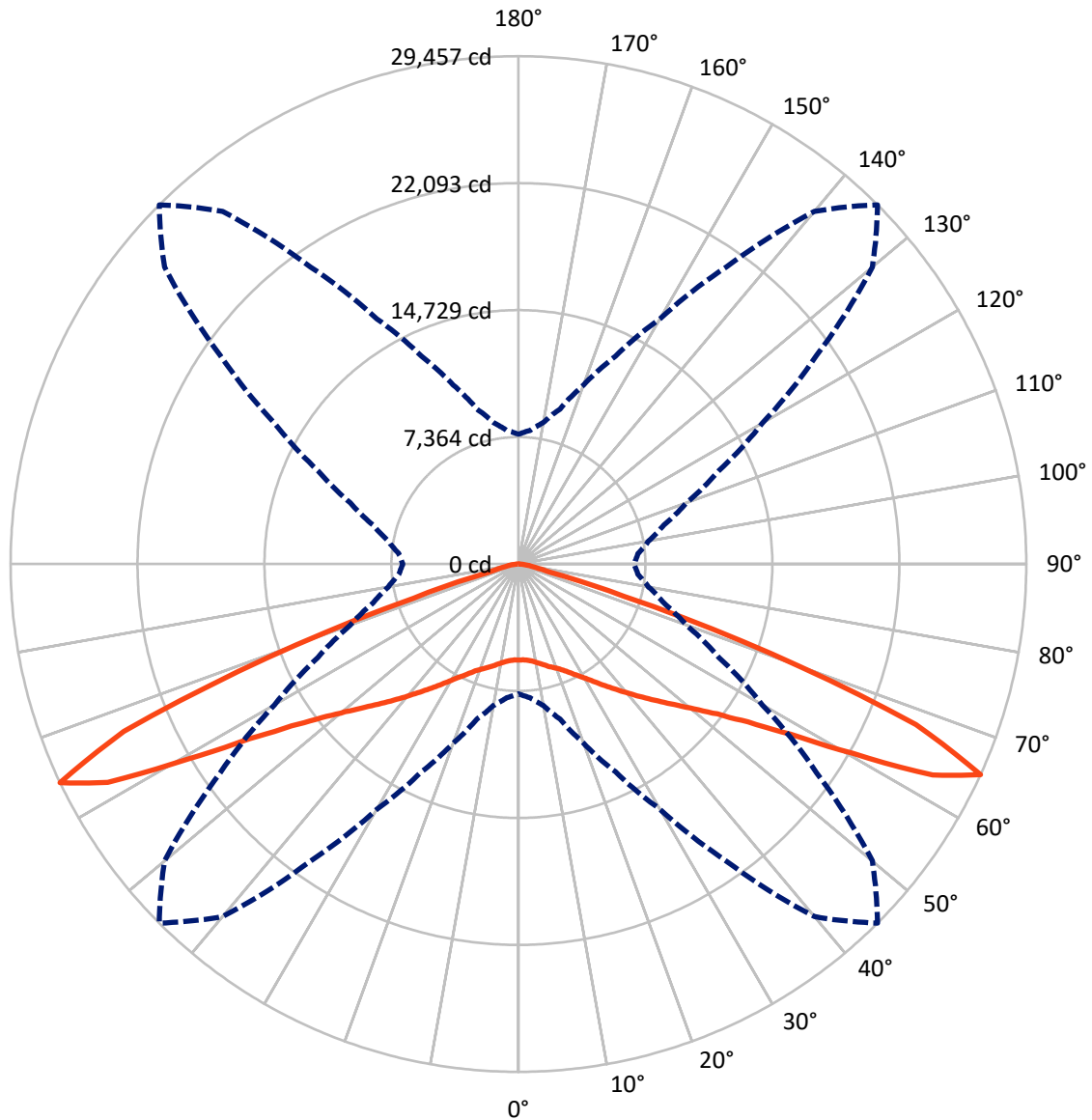
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24604.0	0.0	24604.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24604.0	0.0	24604.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	49208.0	0.0	49208.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	542.7	1.1
10°-20°	1740.5	3.5
20°-30°	3254.4	6.6
30°-40°	5504.1	11.2
40°-50°	8999.9	18.3
50°-60°	14311.2	29.1
60°-70°	12936.4	26.3
70°-80°	1637.2	3.3
80°-90°	281.6	0.6
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°	49208.0	100.0
0°-180°	49208.0	100.0



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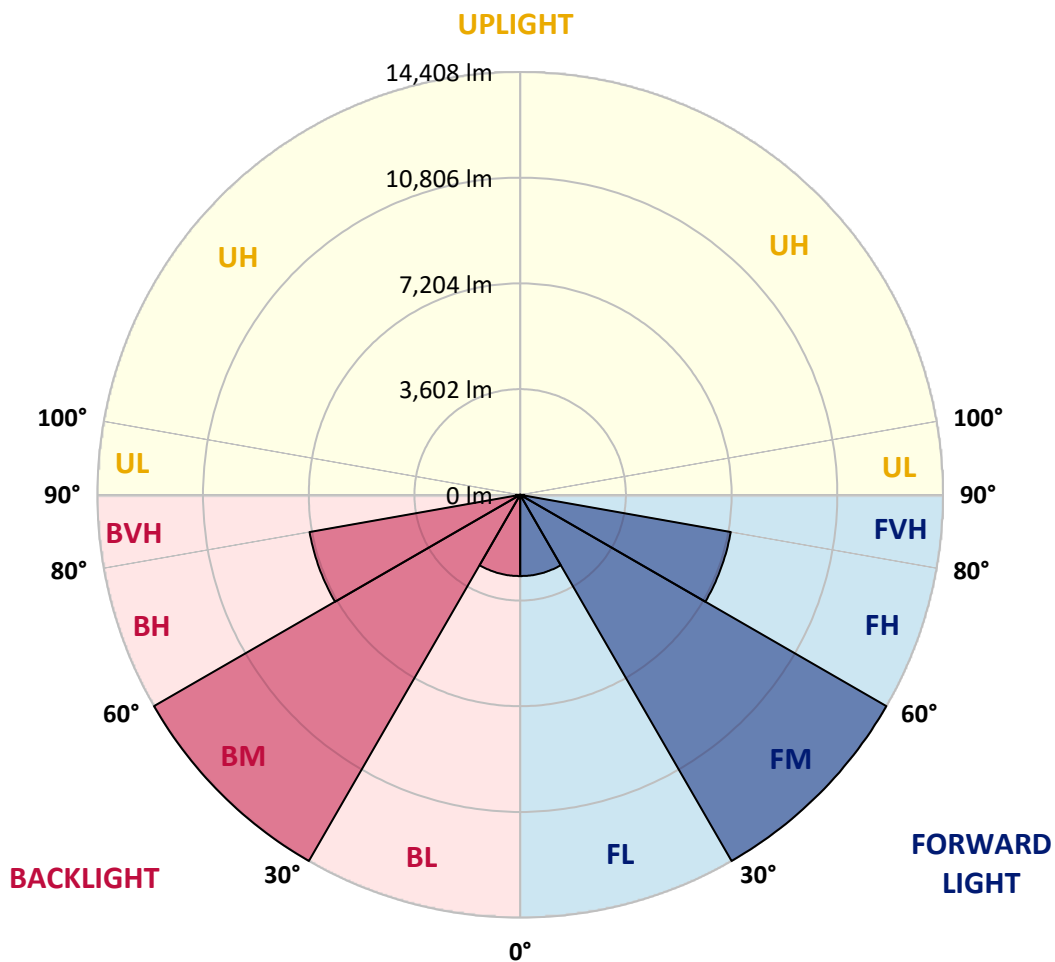
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2768.8	5.6			
FM	(30°-60°)	14407.6	29.3			
FH	(60°-80°)	7286.8	14.8			G3/7500
FVH	(80°-90°)	140.8	0.3			G2/225
BL	(0°-30°)	2768.8	5.6	B4/5000		
BM	(30°-60°)	14407.6	29.3	B5		
BH	(60°-80°)	7286.8	14.8	B5		G3/7500
BVH	(80°-90°)	140.8	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-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5567.9	5567.9	5567.9	5567.9	5567.9	5567.9	5567.9	5567.9	5567.9	5567.9	5567.9
2.5°	5572.5	5577.1	5581.7	5577.1	5581.7	5574.8	5570.2	5577.1	5570.2	5563.3	5567.9
5°	5620.9	5623.2	5623.2	5616.3	5623.2	5618.6	5611.7	5620.9	5614.0	5607.1	5611.7
7.5°	5701.6	5710.8	5703.9	5697.0	5701.6	5697.0	5692.4	5694.7	5692.4	5685.4	5687.8
10°	5809.9	5816.8	5812.2	5809.9	5814.5	5812.2	5807.6	5805.3	5807.6	5800.7	5800.7
12.5°	5941.3	5939.0	5936.6	5939.0	5945.9	5945.9	5943.6	5945.9	5950.5	5952.8	5948.2
15°	6070.3	6074.9	6074.9	6074.9	6088.8	6100.3	6107.2	6111.8	6121.0	6123.3	6114.1
17.5°	6231.6	6231.6	6229.3	6231.6	6245.5	6263.9	6270.8	6280.0	6289.3	6296.2	6284.6
20°	6411.4	6416.0	6416.0	6420.6	6439.1	6459.8	6459.8	6464.4	6459.8	6464.4	6457.5
22.5°	6630.3	6644.2	6644.2	6646.5	6664.9	6690.3	6683.3	6690.3	6678.7	6687.9	6678.7
25°	6916.1	6936.8	6932.2	6932.2	6946.1	6962.2	6964.5	6978.3	6976.0	6987.5	6980.6
27.5°	7238.7	7271.0	7280.2	7277.9	7287.1	7303.3	7307.9	7324.0	7314.8	7324.0	7319.4
30°	7625.9	7639.7	7658.2	7665.1	7676.6	7692.8	7692.8	7695.1	7683.5	7697.4	7704.3
32.5°	8026.9	8052.3	8070.7	8112.2	8132.9	8144.5	8142.1	8146.8	8135.2	8153.7	8167.5
35°	8557.0	8575.4	8605.4	8637.6	8665.3	8663.0	8656.1	8658.4	8658.4	8674.5	8688.3
37.5°	9195.4	9200.0	9239.1	9285.2	9299.1	9285.2	9243.7	9234.5	9213.8	9234.5	9257.6
40°	9870.6	9886.7	9965.1	9995.0	10002.0	9976.6	9916.7	9882.1	9836.0	9861.4	9893.6
42.5°	10578.1	10610.4	10681.8	10734.8	10757.9	10741.7	10658.8	10605.8	10545.8	10559.7	10591.9
45°	11361.7	11400.9	11502.3	11553.0	11596.7	11571.4	11490.7	11410.1	11315.6	11322.5	11373.2
47.5°	12237.4	12276.6	12408.0	12493.2	12516.3	12511.7	12421.8	12311.2	12182.1	12177.5	12221.3
50°	13219.2	13258.4	13422.0	13553.3	13620.2	13613.3	13507.3	13350.5	13193.8	13196.1	13251.4
52.5°	14177.9	14226.3	14396.8	14622.7	14754.0	14848.5	14784.0	14636.5	14445.2	14449.8	14500.5
55°	15076.7	15157.3	15353.2	15659.8	15904.0	16169.1	16245.1	16240.5	16125.3	16157.5	16208.2
57.5°	15512.3	15632.1	15934.0	16418.0	16915.8	17455.0	17911.3	18252.4	18397.6	18616.6	18565.9
60°	14687.2	14878.5	15323.3	16035.4	17019.5	18144.1	19349.4	20527.1	21531.9	22290.1	21854.5
62.5°	12025.4	12274.3	12813.6	13726.2	15215.0	17014.9	19321.8	22105.7	25138.6	26968.4	25661.7
65°	7524.5	7782.6	8331.1	9308.3	11050.6	13288.3	16418.0	21031.8	26698.8	29457.4	26797.9
67.5°	2933.8	3074.3	3371.6	3996.2	5305.2	7296.4	10437.5	15673.6	22451.4	24868.9	22034.3
70°	1470.3	1484.2	1539.5	1654.7	1935.9	2514.3	3825.6	7266.4	12875.8	15551.4	12412.6
72.5°	1062.4	1064.7	1092.4	1143.1	1233.0	1362.0	1610.9	2223.9	4187.5	6399.9	3924.7
75°	813.5	822.7	838.9	866.5	914.9	979.5	1069.3	1281.4	1587.9	1841.4	1548.7
77.5°	626.9	645.3	656.8	682.2	712.1	755.9	781.3	861.9	1002.5	1055.5	1039.4
80°	477.1	493.2	518.5	539.3	560.0	580.8	571.5	608.4	682.2	725.9	702.9
82.5°	304.2	322.6	396.4	414.8	424.0	437.9	421.7	424.0	456.3	484.0	456.3
85°	195.9	207.4	251.2	274.2	276.6	285.8	278.9	262.7	262.7	239.7	269.6
87.5°	89.9	92.2	112.9	133.7	138.3	124.4	122.1	117.5	94.5	89.9	96.8
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°	5567.9	5567.9	5567.9	5567.9	5567.9	5567.9	5567.9	5567.9
2.5°	5565.6	5570.2	5572.5	5579.4	5581.7	5581.7	5584.0	5588.7
5°	5609.4	5616.3	5618.6	5627.8	5630.1	5627.8	5632.4	5634.7
7.5°	5687.8	5699.3	5703.9	5713.1	5706.2	5715.4	5717.7	5717.7
10°	5803.0	5814.5	5816.8	5826.0	5821.4	5826.0	5826.0	5821.4
12.5°	5955.1	5957.4	5950.5	5957.4	5948.2	5952.8	5945.9	5941.3
15°	6123.3	6116.4	6100.3	6100.3	6086.4	6088.8	6086.4	6084.1
17.5°	6286.9	6273.1	6261.6	6257.0	6245.5	6243.2	6236.2	6236.2
20°	6466.7	6459.8	6452.9	6443.7	6432.1	6420.6	6418.3	6422.9
22.5°	6683.3	6681.0	6681.0	6676.4	6660.3	6648.8	6641.9	6641.9
25°	6973.7	6953.0	6953.0	6950.7	6943.8	6936.8	6923.0	6929.9
27.5°	7301.0	7289.4	7298.7	7296.4	7289.4	7289.4	7280.2	7280.2
30°	7704.3	7699.7	7713.5	7702.0	7678.9	7676.6	7667.4	7655.9
32.5°	8169.8	8165.2	8185.9	8172.1	8135.2	8114.5	8096.1	8086.8
35°	8688.3	8690.6	8716.0	8706.8	8665.3	8651.5	8619.2	8614.6
37.5°	9255.3	9292.1	9335.9	9345.1	9310.6	9301.4	9266.8	9248.4
40°	9921.3	9969.7	10036.5	10052.7	10015.8	10008.9	9960.5	9935.1
42.5°	10631.1	10714.1	10797.0	10810.9	10774.0	10737.1	10691.0	10672.6
45°	11423.9	11523.0	11631.3	11659.0	11603.7	11559.9	11499.9	11499.9
47.5°	12313.5	12437.9	12560.1	12636.1	12585.4	12539.3	12467.9	12421.8
50°	13364.4	13534.9	13693.9	13772.3	13691.6	13604.0	13479.6	13438.1
52.5°	14682.6	14867.0	15005.2	14963.8	14839.3	14717.2	14581.2	14525.9
55°	16365.0	16427.2	16427.2	16270.5	16021.6	15816.5	15602.1	15530.7
57.5°	18469.1	18229.4	17860.6	17392.8	16805.1	16293.5	15947.8	15784.2
60°	20941.9	19789.6	18487.5	17208.4	16157.5	15291.0	14777.1	14542.0
62.5°	22589.7	19575.3	16966.5	14913.1	13401.2	12357.3	11647.4	11370.9
65°	21112.4	16325.8	12832.0	10375.3	8727.5	7665.1	6962.2	6704.1
67.5°	15463.9	10230.1	6833.1	4897.3	3588.3	2862.3	2574.2	2454.4
70°	6941.5	3602.1	2207.8	1723.8	1486.5	1364.3	1311.3	1292.9
72.5°	2092.6	1514.1	1276.7	1152.3	1057.8	997.9	954.1	949.5
75°	1262.9	1050.9	933.4	859.6	799.7	751.3	728.3	721.3
77.5°	882.7	772.0	716.7	663.7	617.6	580.8	560.0	543.9
80°	619.9	566.9	541.6	511.6	481.7	447.1	417.1	403.3
82.5°	414.8	403.3	403.3	384.9	359.5	327.3	267.3	253.5
85°	267.3	265.0	269.6	262.7	244.3	209.7	172.8	163.6
87.5°	124.4	126.8	140.6	138.3	133.7	110.6	87.6	83.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)