

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: P193397

Luminaire Tested: **GLEON-AF-09-LED-E1-5NQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193397  
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-09-LED-E1-5NQ-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 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: 44791 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

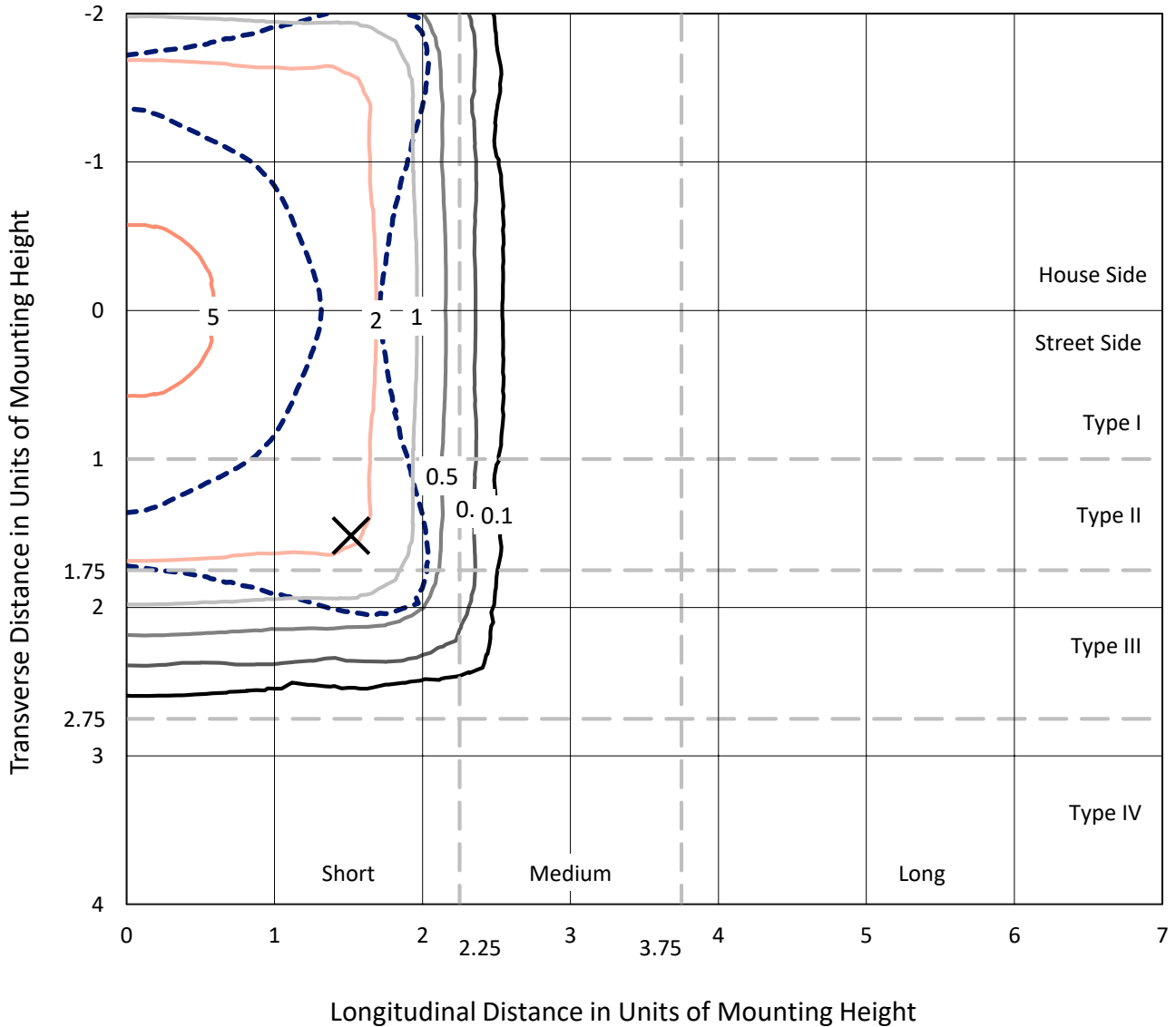
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

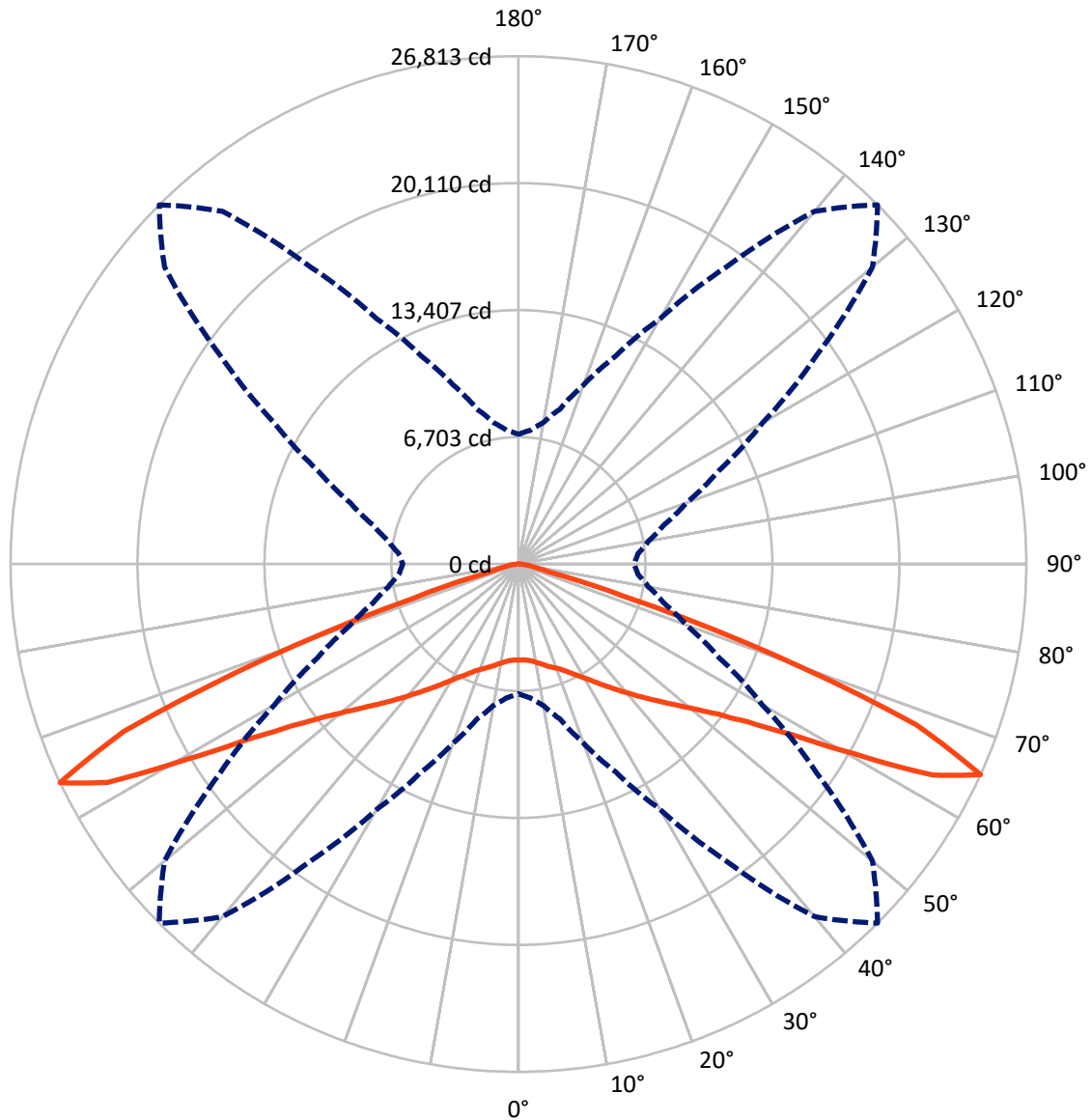
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 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	22395.5	0.0	22395.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22395.5	0.0	22395.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	44791.0	0.0	44791.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	494.0	1.1
10°-20°	1584.3	3.5
20°-30°	2962.3	6.6
30°-40°	5010.1	11.2
40°-50°	8192.0	18.3
50°-60°	13026.6	29.1
60°-70°	11775.2	26.3
70°-80°	1490.2	3.3
80°-90°	256.3	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°	44791.0	100.0
0°-180°	44791.0	100.0



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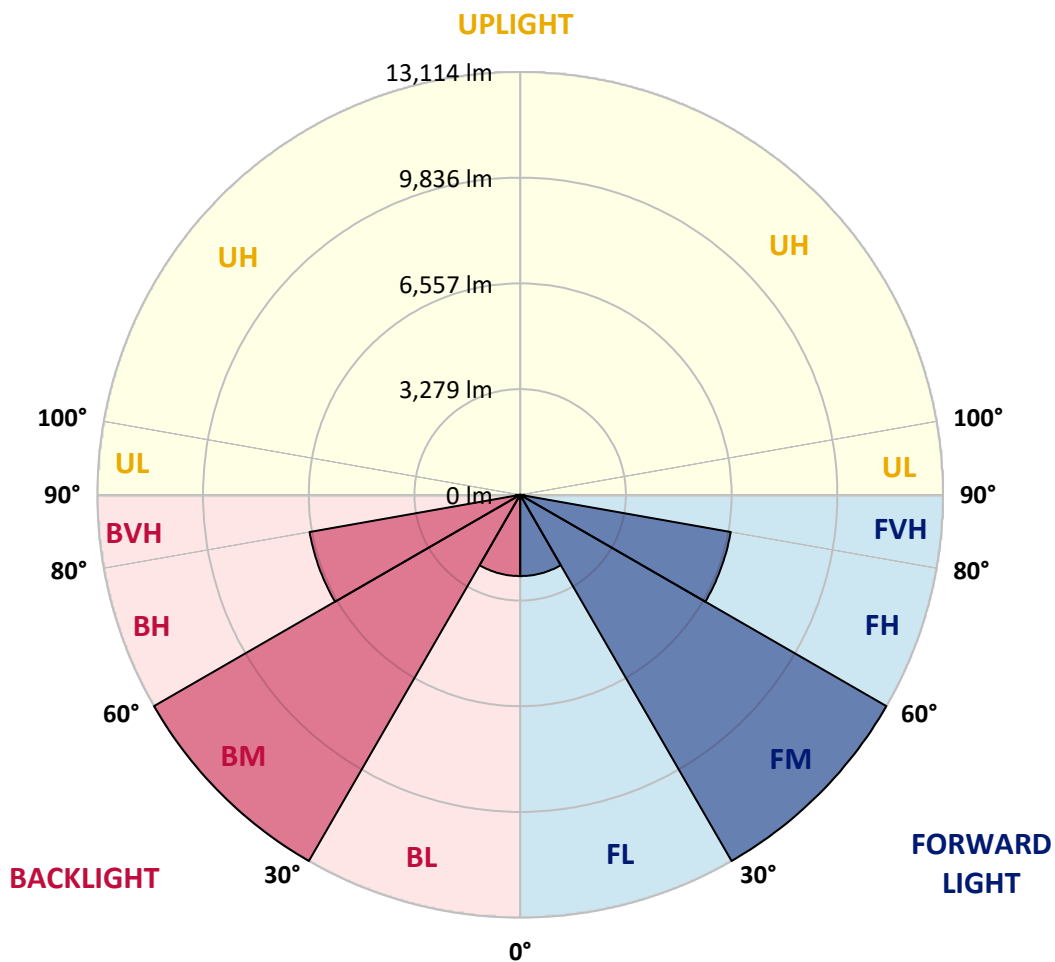
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2520.3	5.6			
FM	(30°-60°)	13114.3	29.3			
FH	(60°-80°)	6632.7	14.8			G3/7500
FVH	(80°-90°)	128.2	0.3			G2/225
BL	(0°-30°)	2520.3	5.6	B4/5000		
BM	(30°-60°)	13114.3	29.3	B5		
BH	(60°-80°)	6632.7	14.8	B5		G3/7500
BVH	(80°-90°)	128.2	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°	5068.1	5068.1	5068.1	5068.1	5068.1	5068.1	5068.1	5068.1	5068.1	5068.1	5068.1
2.5°	5072.3	5076.5	5080.7	5076.5	5080.7	5074.4	5070.2	5076.5	5070.2	5063.9	5068.1
5°	5116.4	5118.5	5118.5	5112.2	5118.5	5114.3	5108.0	5116.4	5110.1	5103.8	5108.0
7.5°	5189.8	5198.2	5191.9	5185.6	5189.8	5185.6	5181.4	5183.5	5181.4	5175.1	5177.2
10°	5288.4	5294.7	5290.5	5288.4	5292.6	5290.5	5286.3	5284.2	5286.3	5280.0	5280.0
12.5°	5408.0	5405.9	5403.8	5405.9	5412.2	5412.2	5410.1	5412.2	5416.3	5418.4	5414.3
15°	5525.4	5529.6	5529.6	5529.6	5542.2	5552.7	5559.0	5563.2	5571.6	5573.7	5565.3
17.5°	5672.3	5672.3	5670.2	5672.3	5684.9	5701.6	5707.9	5716.3	5724.7	5731.0	5720.5
20°	5835.9	5840.1	5840.1	5844.3	5861.1	5879.9	5879.9	5884.1	5879.9	5884.1	5877.9
22.5°	6035.2	6047.8	6047.8	6049.9	6066.6	6089.7	6083.4	6089.7	6079.2	6087.6	6079.2
25°	6295.3	6314.2	6310.0	6310.0	6322.6	6337.3	6339.4	6351.9	6349.8	6360.3	6354.0
27.5°	6589.0	6618.4	6626.7	6624.6	6633.0	6647.7	6651.9	6666.6	6658.2	6666.6	6662.4
30°	6941.4	6954.0	6970.8	6977.1	6987.6	7002.2	7002.2	7004.3	6993.8	7006.4	7012.7
32.5°	7306.4	7329.5	7346.3	7384.0	7402.9	7413.4	7411.3	7415.5	7405.0	7421.8	7434.4
35°	7788.9	7805.7	7832.9	7862.3	7887.5	7885.4	7879.1	7881.2	7881.2	7895.9	7908.5
37.5°	8370.0	8374.2	8409.8	8451.8	8464.4	8451.8	8414.0	8405.6	8386.7	8405.6	8426.6
40°	8984.6	8999.3	9070.6	9097.9	9104.2	9081.1	9026.5	8995.1	8953.1	8976.2	9005.6
42.5°	9628.6	9658.0	9723.0	9771.2	9792.2	9777.5	9702.0	9653.8	9599.2	9611.8	9641.2
45°	10341.8	10377.5	10469.8	10515.9	10555.8	10532.7	10459.3	10385.9	10299.9	10306.2	10352.3
47.5°	11139.0	11174.6	11294.2	11371.8	11392.8	11388.6	11306.8	11206.1	11088.6	11084.4	11124.3
50°	12032.6	12068.3	12217.2	12336.8	12397.6	12391.3	12294.8	12152.2	12009.5	12011.6	12062.0
52.5°	12905.3	12949.3	13104.5	13310.1	13429.7	13515.7	13457.0	13322.7	13148.6	13152.8	13198.9
55°	13723.4	13796.8	13975.1	14254.1	14476.5	14717.7	14786.9	14782.7	14677.8	14707.2	14753.4
57.5°	14119.8	14228.9	14503.7	14944.3	15397.4	15888.2	16303.6	16614.1	16746.2	16945.5	16899.3
60°	13368.9	13543.0	13947.8	14596.0	15491.8	16515.5	17612.6	18684.5	19599.1	20289.3	19892.8
62.5°	10946.0	11172.5	11663.4	12494.1	13849.2	15487.6	17587.4	20121.5	22882.1	24547.7	23358.3
65°	6849.1	7084.0	7583.3	8472.7	10058.6	12095.5	14944.3	19143.9	24302.2	26813.2	24392.5
67.5°	2670.4	2798.4	3069.0	3637.5	4829.0	6641.4	9500.6	14266.7	20436.1	22636.6	20056.4
70°	1338.4	1350.9	1401.3	1506.2	1762.1	2288.6	3482.2	6614.2	11720.0	14155.5	11298.4
72.5°	967.1	969.2	994.3	1040.5	1122.3	1239.8	1466.3	2024.3	3811.6	5825.4	3572.4
75°	740.5	748.9	763.6	788.7	832.8	891.5	973.3	1166.3	1445.3	1676.1	1409.7
77.5°	570.6	587.4	597.9	620.9	648.2	688.1	711.1	784.6	912.5	960.8	946.1
80°	434.2	448.9	472.0	490.9	509.7	528.6	520.2	553.8	620.9	660.8	639.8
82.5°	276.9	293.7	360.8	377.6	386.0	398.6	383.9	386.0	415.4	440.5	415.4
85°	178.3	188.8	228.7	249.6	251.7	260.1	253.8	239.1	239.1	218.2	245.4
87.5°	81.8	83.9	102.8	121.7	125.9	113.3	111.2	107.0	86.0	81.8	88.1
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°	5068.1	5068.1	5068.1	5068.1	5068.1	5068.1	5068.1	5068.1
2.5°	5066.0	5070.2	5072.3	5078.6	5080.7	5080.7	5082.8	5087.0
5°	5105.9	5112.2	5114.3	5122.7	5124.8	5122.7	5126.9	5129.0
7.5°	5177.2	5187.7	5191.9	5200.3	5194.0	5202.4	5204.5	5204.5
10°	5282.1	5292.6	5294.7	5303.1	5298.9	5303.1	5303.1	5298.9
12.5°	5420.5	5422.6	5416.3	5422.6	5414.3	5418.4	5412.2	5408.0
15°	5573.7	5567.4	5552.7	5552.7	5540.1	5542.2	5540.1	5538.0
17.5°	5722.6	5710.0	5699.5	5695.3	5684.9	5682.8	5676.5	5676.5
20°	5886.2	5879.9	5873.7	5865.3	5854.8	5844.3	5842.2	5846.4
22.5°	6083.4	6081.3	6081.3	6077.1	6062.5	6052.0	6045.7	6045.7
25°	6347.7	6328.9	6328.9	6326.8	6320.5	6314.2	6301.6	6307.9
27.5°	6645.6	6635.1	6643.5	6641.4	6635.1	6635.1	6626.7	6626.7
30°	7012.7	7008.5	7021.1	7010.6	6989.7	6987.6	6979.2	6968.7
32.5°	7436.5	7432.3	7451.2	7438.6	7405.0	7386.1	7369.3	7360.9
35°	7908.5	7910.6	7933.6	7925.2	7887.5	7874.9	7845.5	7841.3
37.5°	8424.5	8458.1	8497.9	8506.3	8474.8	8466.5	8435.0	8418.2
40°	9030.7	9074.8	9135.6	9150.3	9116.8	9110.5	9066.4	9043.3
42.5°	9676.8	9752.4	9827.9	9840.5	9806.9	9773.3	9731.4	9714.6
45°	10398.5	10488.7	10587.3	10612.4	10562.1	10522.2	10467.7	10467.7
47.5°	11208.2	11321.5	11432.7	11501.9	11455.7	11413.8	11348.7	11306.8
50°	12164.8	12320.0	12464.7	12536.1	12462.6	12382.9	12269.6	12231.9
52.5°	13364.7	13532.5	13658.3	13620.6	13507.3	13396.1	13272.4	13222.0
55°	14896.0	14952.6	14952.6	14810.0	14583.4	14396.7	14201.7	14136.6
57.5°	16811.2	16593.1	16257.4	15831.6	15296.7	14831.0	14516.3	14367.4
60°	19062.1	18013.2	16828.0	15663.8	14707.2	13918.5	13450.7	13236.7
62.5°	20562.0	17818.2	15443.5	13574.4	12198.3	11248.1	10601.9	10350.2
65°	19217.3	14860.3	11680.2	9444.0	7944.1	6977.1	6337.3	6102.3
67.5°	14075.8	9311.8	6219.8	4457.7	3266.2	2605.4	2343.2	2234.1
70°	6318.4	3278.8	2009.6	1569.1	1353.0	1241.9	1193.6	1176.8
72.5°	1904.7	1378.2	1162.1	1048.9	962.9	908.3	868.5	864.3
75°	1149.6	956.6	849.6	782.5	727.9	683.9	662.9	656.6
77.5°	803.4	702.7	652.4	604.1	562.2	528.6	509.7	495.1
80°	564.3	516.0	493.0	465.7	438.4	407.0	379.7	367.1
82.5°	377.6	367.1	367.1	350.3	327.2	297.9	243.3	230.8
85°	243.3	241.2	245.4	239.1	222.4	190.9	157.3	148.9
87.5°	113.3	115.4	128.0	125.9	121.7	100.7	79.7	75.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)