

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: P191647

Luminaire Tested: **GLEON-AF-09-LED-E1-5NQ-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191647  
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-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44349 lumens  
Efficiency: N/A  
Efficacy: 118.6 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): 374  
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

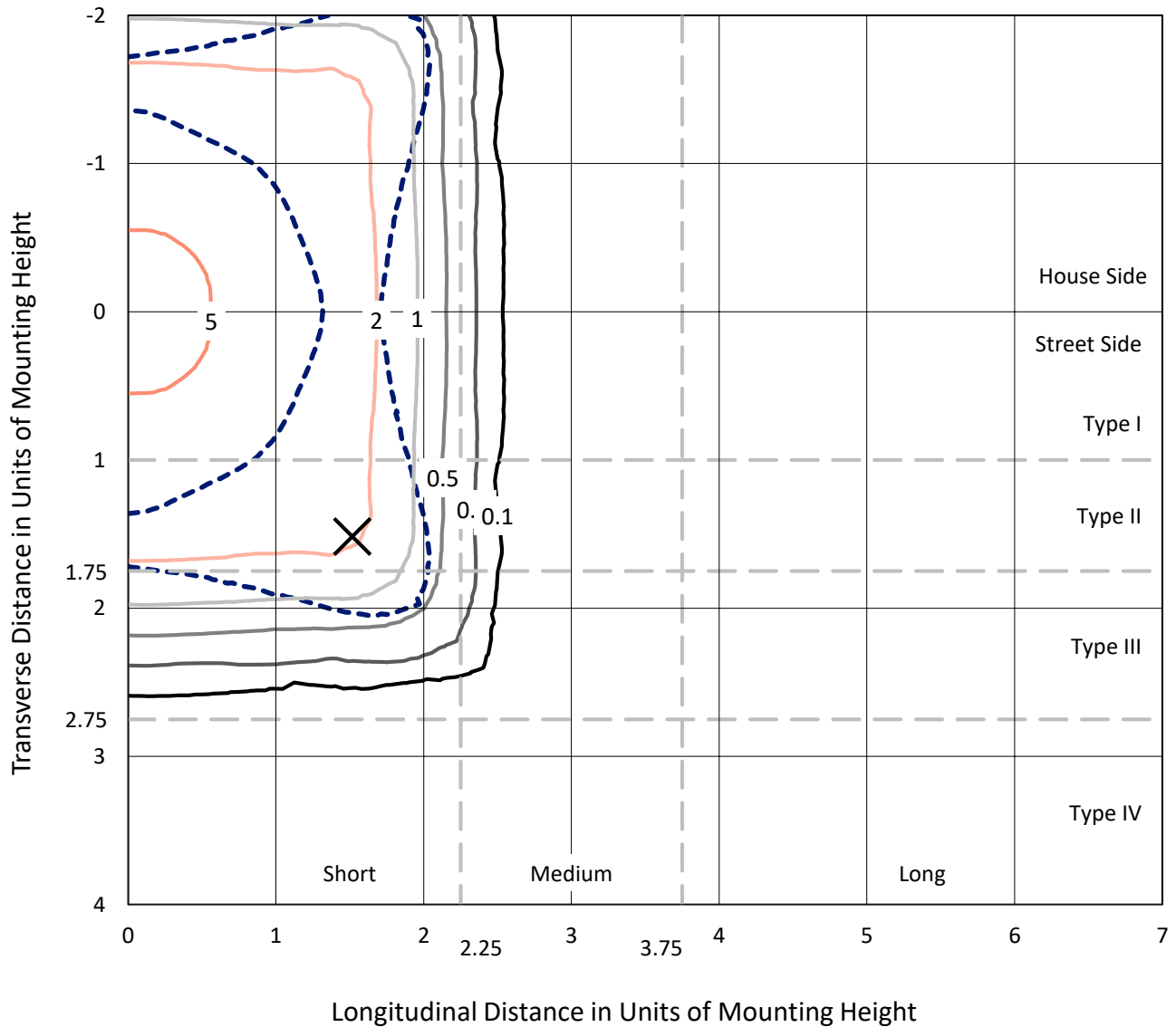


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

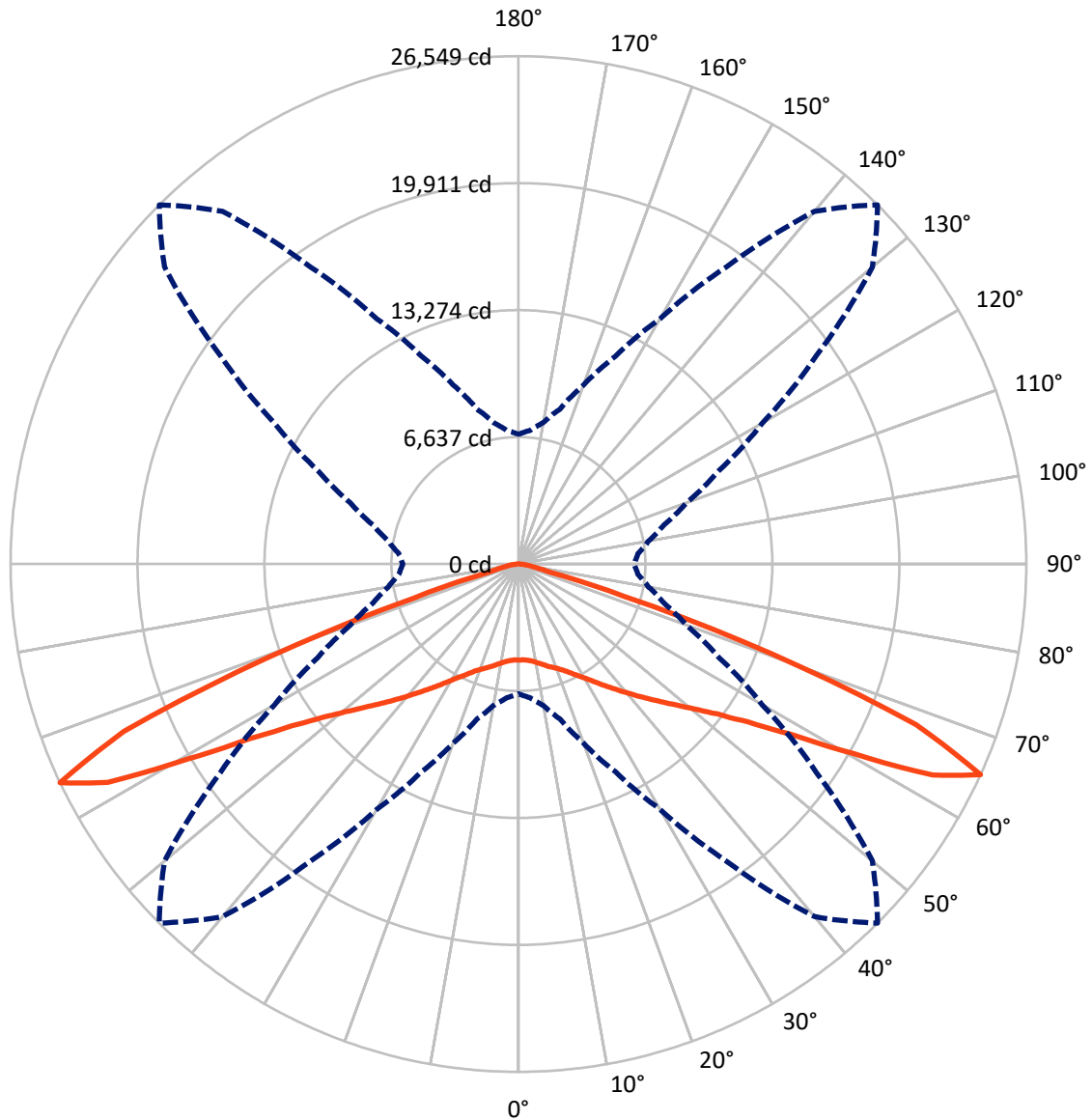


Based on 30 foot mounting height. Maximum calculated value = 5.6 fc  
 Type V - Short - Full Cutoff

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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	22174.5	0.0	22174.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22174.5	0.0	22174.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	44349.0	0.0	44349.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	489.1	1.1
10°-20°	1568.6	3.5
20°-30°	2933.1	6.6
30°-40°	4960.6	11.2
40°-50°	8111.2	18.3
50°-60°	12898.0	29.1
60°-70°	11659.0	26.3
70°-80°	1475.5	3.3
80°-90°	253.8	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°	44349.0	100.0
0°-180°	44349.0	100.0



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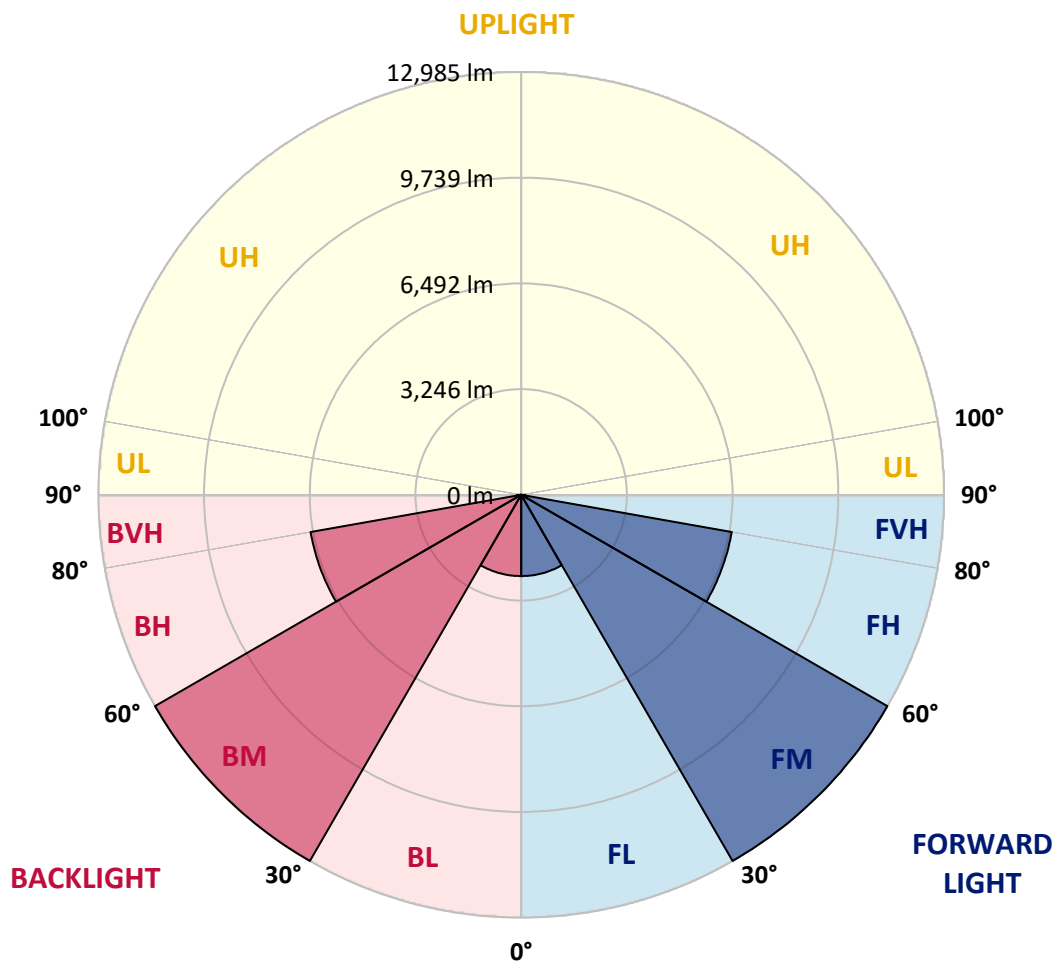
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2495.4	5.6			
FM	(30°-60°)	12984.9	29.3			
FH	(60°-80°)	6567.2	14.8			G3/7500
FVH	(80°-90°)	126.9	0.3			G2/225
BL	(0°-30°)	2495.4	5.6	B3/2500		
BM	(30°-60°)	12984.9	29.3	B5		
BH	(60°-80°)	6567.2	14.8	B5		G3/7500
BVH	(80°-90°)	126.9	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°	5018.1	5018.1	5018.1	5018.1	5018.1	5018.1	5018.1	5018.1	5018.1	5018.1	5018.1
2.5°	5022.3	5026.4	5030.6	5026.4	5030.6	5024.3	5020.2	5026.4	5020.2	5014.0	5018.1
5°	5065.9	5068.0	5068.0	5061.7	5068.0	5063.8	5057.6	5065.9	5059.7	5053.4	5057.6
7.5°	5138.6	5146.9	5140.7	5134.4	5138.6	5134.4	5130.3	5132.3	5130.3	5124.0	5126.1
10°	5236.2	5242.4	5238.3	5236.2	5240.4	5238.3	5234.1	5232.0	5234.1	5227.9	5227.9
12.5°	5354.6	5352.5	5350.4	5352.5	5358.7	5358.7	5356.7	5358.7	5362.9	5365.0	5360.8
15°	5470.9	5475.1	5475.1	5475.1	5487.5	5497.9	5504.1	5508.3	5516.6	5518.7	5510.4
17.5°	5616.3	5616.3	5614.2	5616.3	5628.8	5645.4	5651.6	5659.9	5668.2	5674.5	5664.1
20°	5778.3	5782.5	5782.5	5786.6	5803.2	5821.9	5821.9	5826.1	5821.9	5826.1	5819.8
22.5°	5975.6	5988.1	5988.1	5990.2	6006.8	6029.6	6023.4	6029.6	6019.2	6027.6	6019.2
25°	6233.2	6251.9	6247.7	6247.7	6260.2	6274.7	6276.8	6289.3	6287.2	6297.6	6291.3
27.5°	6524.0	6553.0	6561.3	6559.3	6567.6	6582.1	6586.3	6600.8	6592.5	6600.8	6596.7
30°	6872.9	6885.4	6902.0	6908.2	6918.6	6933.1	6933.1	6935.2	6924.8	6937.3	6943.5
32.5°	7234.3	7257.2	7273.8	7311.2	7329.9	7340.2	7338.2	7342.3	7331.9	7348.5	7361.0
35°	7712.0	7728.6	7755.6	7784.7	7809.6	7807.6	7801.3	7803.4	7803.4	7818.0	7830.4
37.5°	8287.4	8291.5	8326.8	8368.4	8380.8	8368.4	8331.0	8322.7	8304.0	8322.7	8343.4
40°	8895.9	8910.5	8981.1	9008.1	9014.3	8991.5	8937.5	8906.3	8864.8	8887.6	8916.7
42.5°	9533.6	9562.7	9627.1	9674.8	9695.6	9681.1	9606.3	9558.5	9504.5	9517.0	9546.0
45°	10239.8	10275.1	10366.5	10412.2	10451.6	10428.8	10356.1	10283.4	10198.2	10204.5	10250.2
47.5°	11029.0	11064.4	11182.7	11259.6	11280.4	11276.2	11195.2	11095.5	10979.2	10975.0	11014.5
50°	11913.9	11949.2	12096.6	12215.0	12275.3	12269.0	12173.5	12032.3	11891.0	11893.1	11942.9
52.5°	12777.9	12821.5	12975.2	13178.8	13297.2	13382.3	13324.2	13191.2	13018.8	13023.0	13068.7
55°	13588.0	13660.6	13837.2	14113.4	14333.6	14572.5	14641.0	14636.9	14533.0	14562.1	14607.8
57.5°	13980.5	14088.5	14360.6	14796.8	15245.4	15731.5	16142.7	16450.1	16581.0	16778.3	16732.6
60°	13236.9	13409.3	13810.2	14452.0	15338.9	16352.5	17438.8	18500.1	19405.7	20089.1	19696.5
62.5°	10838.0	11062.3	11548.3	12370.8	13712.6	15334.7	17413.8	19922.9	22656.3	24305.4	23127.8
65°	6781.5	7014.1	7508.5	8389.1	9959.4	11976.2	14796.8	18955.0	24062.4	26548.6	24151.7
67.5°	2644.1	2770.8	3038.7	3601.6	4781.3	6575.9	9406.9	14125.9	20234.5	22413.3	19858.5
70°	1325.1	1337.6	1387.5	1491.3	1744.7	2266.0	3447.9	6548.9	11604.4	14015.8	11186.9
72.5°	957.5	959.6	984.5	1030.2	1111.2	1227.5	1451.8	2004.3	3774.0	5767.9	3537.2
75°	733.2	741.5	756.0	781.0	824.6	882.7	963.7	1154.8	1431.1	1659.5	1395.8
77.5°	565.0	581.6	592.0	614.8	641.8	681.3	704.1	776.8	903.5	951.3	936.7
80°	429.9	444.5	467.3	486.0	504.7	523.4	515.1	548.3	614.8	654.3	633.5
82.5°	274.2	290.8	357.2	373.9	382.2	394.6	380.1	382.2	411.3	436.2	411.3
85°	176.5	186.9	226.4	247.2	249.2	257.6	251.3	236.8	236.8	216.0	243.0
87.5°	81.0	83.1	101.8	120.5	124.6	112.2	110.1	105.9	85.2	81.0	87.2
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°	5018.1	5018.1	5018.1	5018.1	5018.1	5018.1	5018.1	5018.1
2.5°	5016.0	5020.2	5022.3	5028.5	5030.6	5030.6	5032.7	5036.8
5°	5055.5	5061.7	5063.8	5072.1	5074.2	5072.1	5076.3	5078.3
7.5°	5126.1	5136.5	5140.7	5149.0	5142.7	5151.0	5153.1	5153.1
10°	5230.0	5240.4	5242.4	5250.7	5246.6	5250.7	5250.7	5246.6
12.5°	5367.1	5369.1	5362.9	5369.1	5360.8	5365.0	5358.7	5354.6
15°	5518.7	5512.4	5497.9	5497.9	5485.4	5487.5	5485.4	5483.4
17.5°	5666.1	5653.7	5643.3	5639.1	5628.8	5626.7	5620.5	5620.5
20°	5828.2	5821.9	5815.7	5807.4	5797.0	5786.6	5784.5	5788.7
22.5°	6023.4	6021.3	6021.3	6017.2	6002.6	5992.2	5986.0	5986.0
25°	6285.1	6266.4	6266.4	6264.3	6258.1	6251.9	6239.4	6245.6
27.5°	6580.0	6569.7	6578.0	6575.9	6569.7	6569.7	6561.3	6561.3
30°	6943.5	6939.4	6951.8	6941.4	6920.7	6918.6	6910.3	6899.9
32.5°	7363.1	7358.9	7377.6	7365.2	7331.9	7313.2	7296.6	7288.3
35°	7830.4	7832.5	7855.3	7847.0	7809.6	7797.2	7768.1	7764.0
37.5°	8341.4	8374.6	8414.1	8422.4	8391.2	8382.9	8351.8	8335.1
40°	8941.6	8985.2	9045.5	9060.0	9026.8	9020.6	8976.9	8954.1
42.5°	9581.4	9656.1	9730.9	9743.4	9710.1	9676.9	9635.4	9618.7
45°	10295.9	10385.2	10482.8	10507.7	10457.9	10418.4	10364.4	10364.4
47.5°	11097.6	11209.8	11319.8	11388.4	11342.7	11301.1	11236.8	11195.2
50°	12044.7	12198.4	12341.7	12412.4	12339.7	12260.7	12148.6	12111.2
52.5°	13232.8	13398.9	13523.6	13486.2	13374.0	13263.9	13141.4	13091.5
55°	14749.0	14805.1	14805.1	14663.9	14439.5	14254.7	14061.5	13997.1
57.5°	16645.3	16429.3	16097.0	15675.4	15145.7	14684.6	14373.1	14225.6
60°	18874.0	17835.5	16662.0	15509.2	14562.1	13781.1	13317.9	13106.1
62.5°	20359.1	17642.3	15291.1	13440.5	12078.0	11137.1	10497.3	10248.1
65°	19027.7	14713.7	11564.9	9350.8	7865.7	6908.2	6274.7	6042.1
67.5°	13936.9	9220.0	6158.4	4413.7	3233.9	2579.7	2320.0	2212.0
70°	6256.0	3246.4	1989.8	1553.6	1339.7	1229.6	1181.8	1165.2
72.5°	1885.9	1364.6	1150.7	1038.5	953.4	899.4	859.9	855.7
75°	1138.2	947.1	841.2	774.7	720.7	677.1	656.3	650.1
77.5°	795.5	695.8	646.0	598.2	556.6	523.4	504.7	490.2
80°	558.7	511.0	488.1	461.1	434.1	402.9	375.9	363.5
82.5°	373.9	363.5	363.5	346.9	324.0	294.9	240.9	228.5
85°	240.9	238.9	243.0	236.8	220.2	189.0	155.8	147.5
87.5°	112.2	114.2	126.7	124.6	120.5	99.7	78.9	74.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)