

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: P190846

Luminaire Tested: **GLEON-AF-08-LED-E1-5NQ-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190846  
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-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 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: 40669.5 lumens  
Efficiency: N/A  
Efficacy: 121.8 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

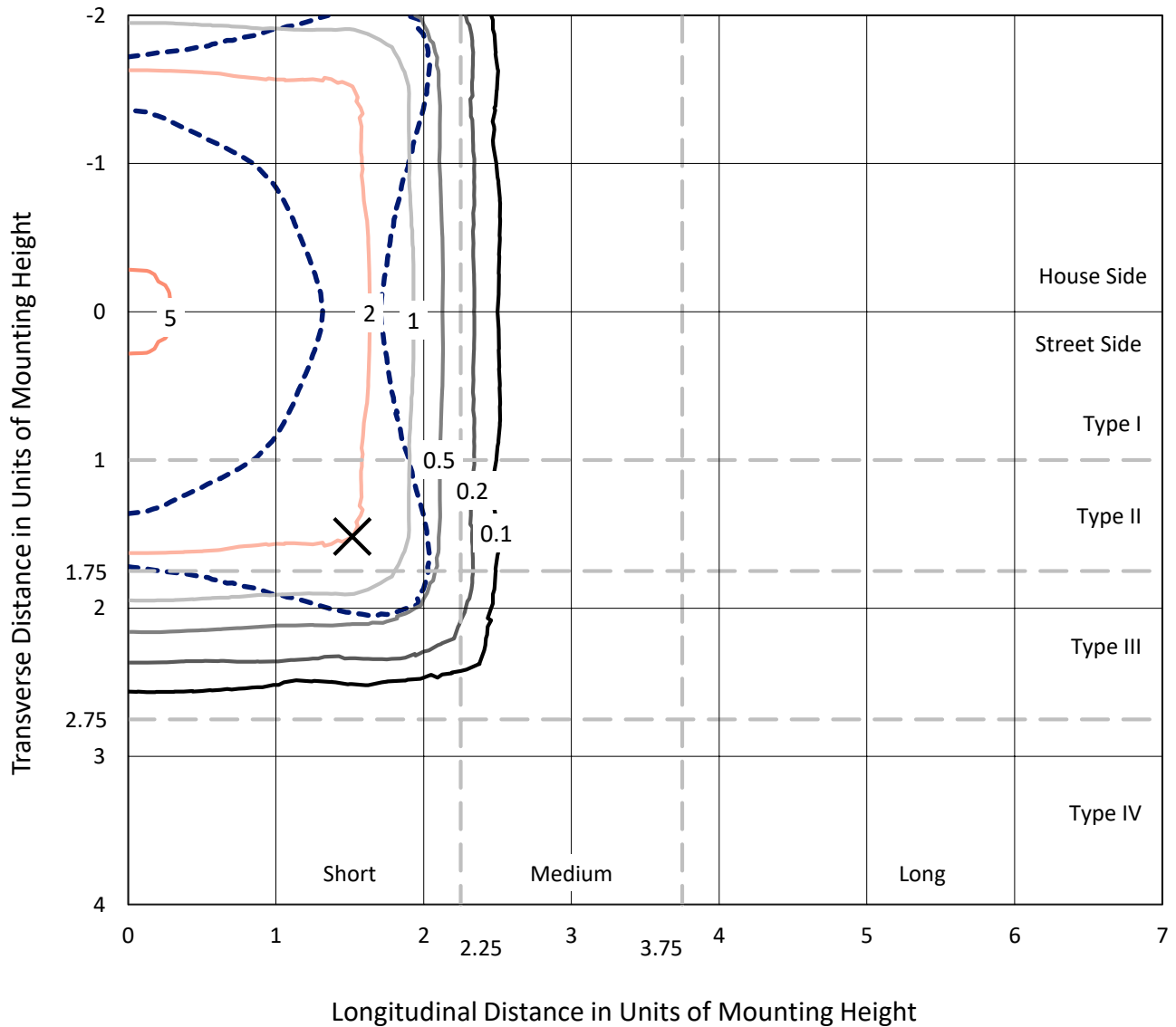
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

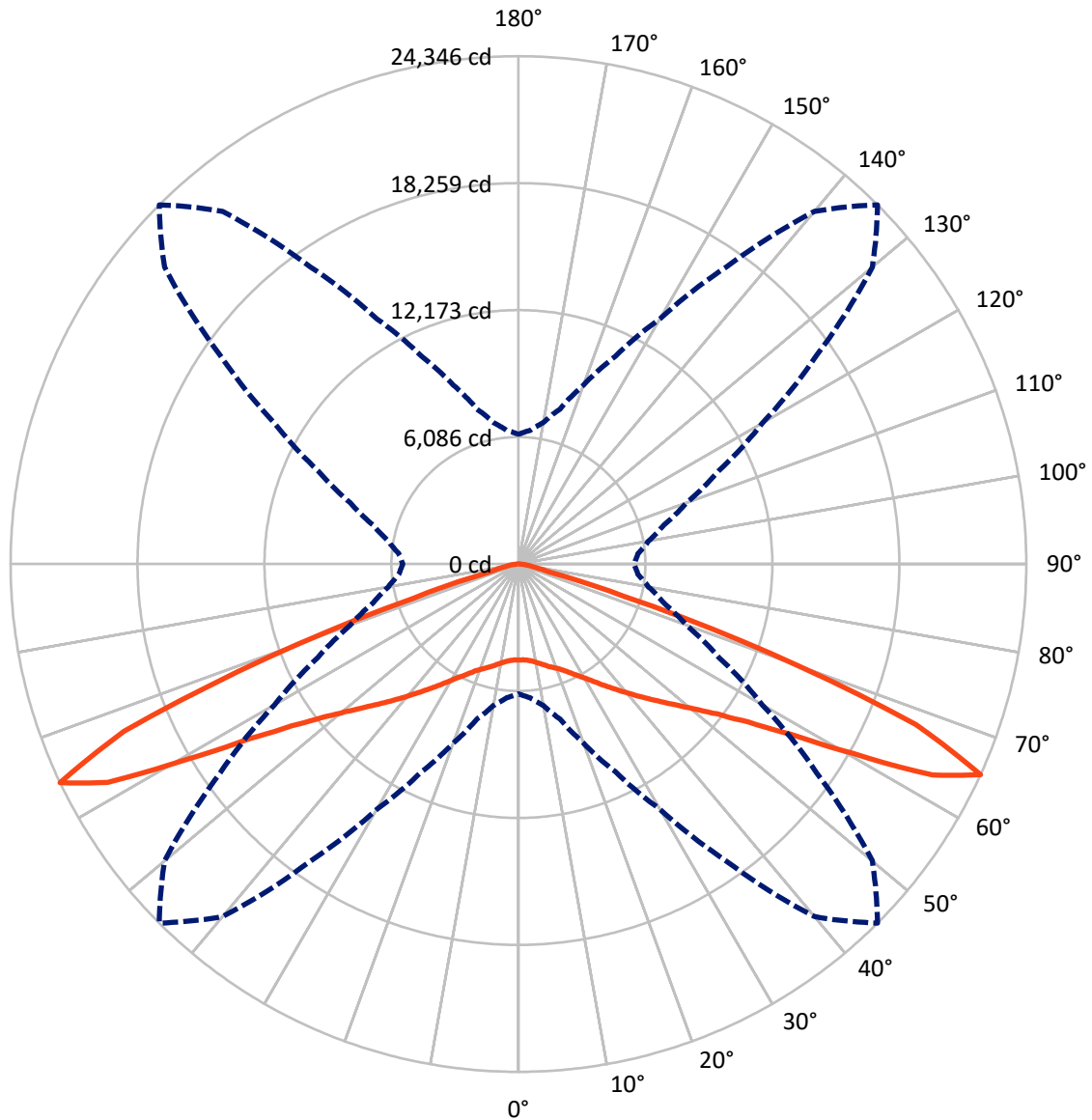
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 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	20334.7	0.0	20334.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20334.7	0.0	20334.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40669.5	0.0	40669.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	448.5	1.1
10°-20°	1438.5	3.5
20°-30°	2689.7	6.6
30°-40°	4549.1	11.2
40°-50°	7438.2	18.3
50°-60°	11827.9	29.1
60°-70°	10691.7	26.3
70°-80°	1353.1	3.3
80°-90°	232.8	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°	40669.5	100.0
0°-180°	40669.5	100.0



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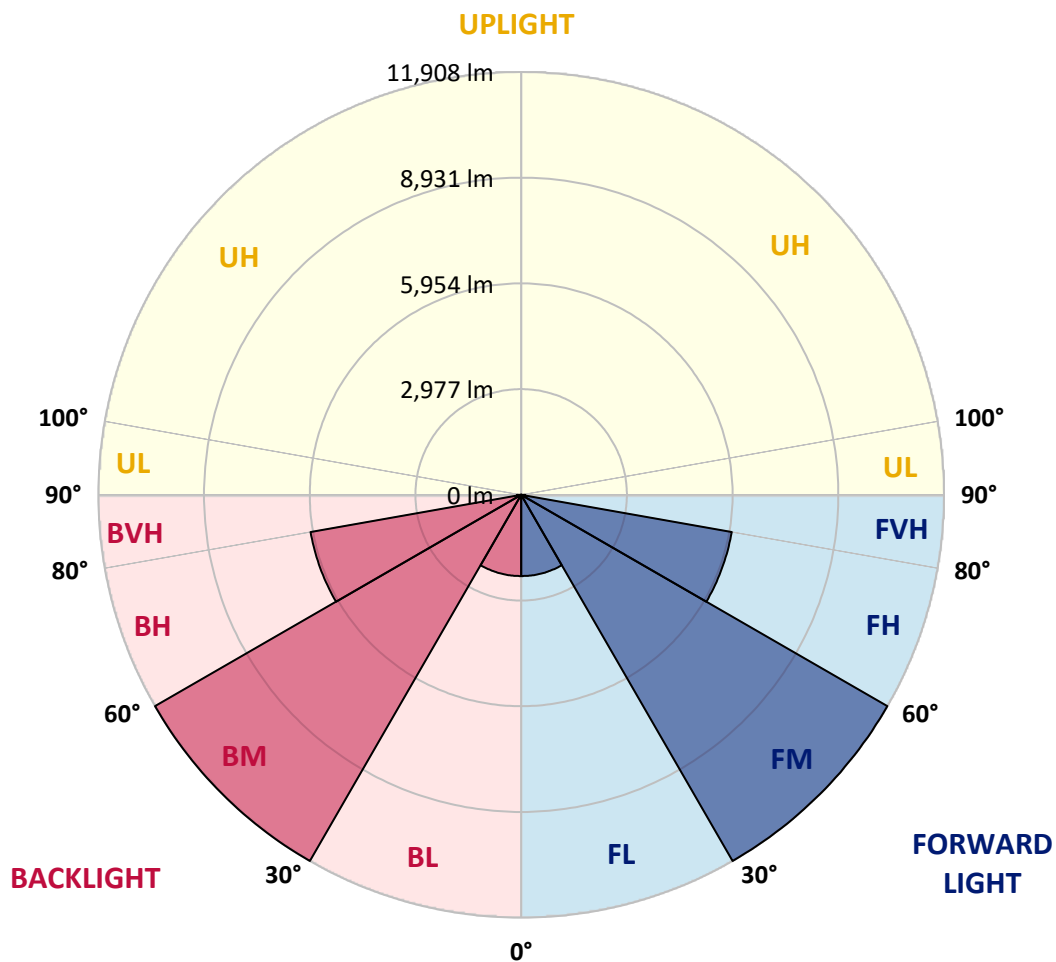
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2288.4	5.6			
FM	(30°-60°)	11907.6	29.3			
FH	(60°-80°)	6022.4	14.8			G3/7500
FVH	(80°-90°)	116.4	0.3			G2/225
BL	(0°-30°)	2288.4	5.6	B3/2500		
BM	(30°-60°)	11907.6	29.3	B5		
BH	(60°-80°)	6022.4	14.8	B5		G3/7500
BVH	(80°-90°)	116.4	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°	4601.7	4601.7	4601.7	4601.7	4601.7	4601.7	4601.7	4601.7	4601.7	4601.7	4601.7
2.5°	4605.5	4609.4	4613.2	4609.4	4613.2	4607.5	4603.7	4609.4	4603.7	4598.0	4601.7
5°	4645.6	4647.5	4647.5	4641.7	4647.5	4643.7	4638.0	4645.6	4639.9	4634.2	4638.0
7.5°	4712.2	4719.9	4714.2	4708.4	4712.2	4708.4	4704.7	4706.5	4704.7	4698.9	4700.8
10°	4801.7	4807.5	4803.7	4801.7	4805.6	4803.7	4799.9	4797.9	4799.9	4794.2	4794.2
12.5°	4910.4	4908.4	4906.5	4908.4	4914.2	4914.2	4912.2	4914.2	4917.9	4919.9	4916.1
15°	5017.0	5020.8	5020.8	5020.8	5032.2	5041.7	5047.4	5051.3	5058.9	5060.8	5053.2
17.5°	5150.4	5150.4	5148.4	5150.4	5161.7	5176.9	5182.7	5190.4	5197.9	5203.6	5194.1
20°	5298.9	5302.7	5302.7	5306.6	5321.8	5338.9	5338.9	5342.7	5338.9	5342.7	5336.9
22.5°	5479.8	5491.3	5491.3	5493.1	5508.4	5529.4	5523.6	5529.4	5519.8	5527.4	5519.8
25°	5716.0	5733.1	5729.3	5729.3	5740.8	5754.1	5756.0	5767.5	5765.6	5775.1	5769.3
27.5°	5982.7	6009.3	6017.0	6015.1	6022.7	6036.0	6039.8	6053.1	6045.5	6053.1	6049.3
30°	6302.7	6314.1	6329.3	6335.0	6344.5	6357.9	6357.9	6359.8	6350.3	6361.7	6367.5
32.5°	6634.1	6655.0	6670.3	6704.5	6721.7	6731.2	6729.3	6733.2	6723.7	6738.9	6750.2
35°	7072.2	7087.4	7112.2	7138.9	7161.7	7159.8	7154.1	7156.0	7156.0	7169.4	7180.7
37.5°	7599.8	7603.6	7635.9	7674.1	7685.5	7674.1	7639.8	7632.1	7615.1	7632.1	7651.2
40°	8157.8	8171.2	8236.0	8260.7	8266.5	8245.5	8196.0	8167.3	8129.3	8150.3	8176.9
42.5°	8742.6	8769.2	8828.3	8872.2	8891.2	8877.9	8809.2	8765.5	8716.0	8727.4	8754.0
45°	9390.2	9422.6	9506.4	9548.3	9584.4	9563.6	9496.9	9430.2	9352.1	9357.9	9399.7
47.5°	10114.0	10146.3	10255.0	10325.5	10344.5	10340.6	10266.3	10175.0	10068.3	10064.5	10100.6
50°	10925.4	10957.7	11093.0	11201.6	11256.9	11251.1	11163.5	11034.0	10904.5	10906.4	10952.0
52.5°	11717.8	11757.8	11898.7	12085.3	12193.9	12272.0	12218.7	12096.8	11938.7	11942.5	11984.4
55°	12460.6	12527.3	12689.2	12942.5	13144.4	13363.4	13426.2	13422.4	13327.2	13353.9	13395.8
57.5°	12820.5	12919.7	13169.2	13569.1	13980.6	14426.3	14803.4	15085.3	15205.2	15386.2	15344.4
60°	12138.7	12296.8	12664.4	13252.9	14066.3	14995.7	15991.9	16965.2	17795.7	18422.3	18062.3
62.5°	9938.8	10144.5	10590.2	11344.4	12574.8	14062.4	15969.1	18269.9	20776.5	22288.9	21208.9
65°	6218.8	6432.2	6885.5	7693.1	9133.1	10982.5	13569.1	17382.4	22066.1	24345.9	22147.9
67.5°	2424.7	2540.9	2786.6	3302.8	4384.7	6030.3	8626.4	12953.9	18555.6	20553.6	18210.9
70°	1215.2	1226.6	1272.3	1367.6	1600.0	2078.0	3161.8	6005.5	10641.6	12853.0	10258.8
72.5°	878.1	879.9	902.9	944.7	1019.1	1125.7	1331.4	1838.0	3460.8	5289.4	3243.7
75°	672.4	680.0	693.4	716.2	756.2	809.5	883.8	1059.1	1312.3	1521.8	1279.9
77.5°	518.1	533.4	542.9	563.7	588.5	624.7	645.7	712.4	828.6	872.4	859.0
80°	394.2	407.6	428.5	445.7	462.9	480.0	472.4	502.9	563.7	600.0	580.9
82.5°	251.4	266.7	327.7	342.9	350.5	361.9	348.5	350.5	377.2	400.0	377.2
85°	161.9	171.4	207.7	226.7	228.5	236.2	230.5	217.2	217.2	198.0	222.9
87.5°	74.3	76.2	93.3	110.5	114.3	102.8	101.0	97.2	78.1	74.3	80.0
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°	4601.7	4601.7	4601.7	4601.7	4601.7	4601.7	4601.7	4601.7
2.5°	4599.9	4603.7	4605.5	4611.3	4613.2	4613.2	4615.1	4618.9
5°	4636.0	4641.7	4643.7	4651.3	4653.2	4651.3	4655.1	4657.0
7.5°	4700.8	4710.4	4714.2	4721.7	4716.0	4723.7	4725.6	4725.6
10°	4796.0	4805.6	4807.5	4815.1	4811.2	4815.1	4815.1	4811.2
12.5°	4921.7	4923.7	4917.9	4923.7	4916.1	4919.9	4914.2	4910.4
15°	5060.8	5055.1	5041.7	5041.7	5030.4	5032.2	5030.4	5028.4
17.5°	5196.1	5184.6	5175.1	5171.3	5161.7	5159.9	5154.1	5154.1
20°	5344.6	5338.9	5333.2	5325.6	5316.1	5306.6	5304.6	5308.4
22.5°	5523.6	5521.8	5521.8	5517.9	5504.6	5495.1	5489.4	5489.4
25°	5763.6	5746.5	5746.5	5744.6	5738.9	5733.1	5721.8	5727.5
27.5°	6034.1	6024.6	6032.2	6030.3	6024.6	6024.6	6017.0	6017.0
30°	6367.5	6363.7	6375.0	6365.5	6346.5	6344.5	6337.0	6327.5
32.5°	6752.2	6748.4	6765.5	6754.1	6723.7	6706.5	6691.2	6683.7
35°	7180.7	7182.6	7203.6	7195.9	7161.7	7150.2	7123.6	7119.8
37.5°	7649.3	7679.8	7716.0	7723.6	7695.0	7687.4	7658.8	7643.6
40°	8199.8	8239.8	8295.0	8308.3	8277.8	8272.1	8232.1	8211.2
42.5°	8786.4	8855.0	8923.5	8935.0	8904.5	8874.0	8835.9	8820.7
45°	9441.6	9523.6	9613.1	9635.9	9590.2	9554.1	9504.4	9504.4
47.5°	10176.8	10279.7	10380.7	10443.5	10401.6	10363.5	10304.5	10266.3
50°	11045.4	11186.4	11317.7	11382.5	11315.9	11243.5	11140.7	11106.4
52.5°	12134.9	12287.3	12401.5	12367.3	12264.4	12163.5	12051.1	12005.4
55°	13525.4	13576.7	13576.7	13447.2	13241.5	13072.0	12894.9	12835.8
57.5°	15264.3	15066.2	14761.5	14374.8	13889.1	13466.2	13180.6	13045.4
60°	17308.0	16355.8	15279.5	14222.4	13353.9	12637.7	12213.0	12018.6
62.5°	18670.0	16178.6	14022.4	12325.3	11075.9	10213.0	9626.4	9397.8
65°	17449.0	13492.9	10605.4	8575.0	7213.1	6335.0	5754.1	5540.8
67.5°	12780.5	8455.0	5647.4	4047.5	2965.6	2365.7	2127.5	2028.5
70°	5737.0	2977.1	1824.7	1424.8	1228.6	1127.6	1083.8	1068.6
72.5°	1729.5	1251.4	1055.2	952.4	874.2	824.7	788.6	784.7
75°	1043.8	868.6	771.4	710.4	660.9	620.9	601.9	596.2
77.5°	729.5	638.1	592.4	548.5	510.5	480.0	462.9	449.5
80°	512.4	468.5	447.6	422.9	398.1	369.5	344.7	333.3
82.5°	342.9	333.3	333.3	318.0	297.2	270.5	221.0	209.5
85°	221.0	219.0	222.9	217.2	201.9	173.3	142.8	135.2
87.5°	102.8	104.8	116.2	114.3	110.5	91.5	72.4	68.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)