

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: P190864

Luminaire Tested: **GLEON-AF-06-LED-E1-5NQ-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190864  
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-06-LED-E1-5NQ-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41209.6 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

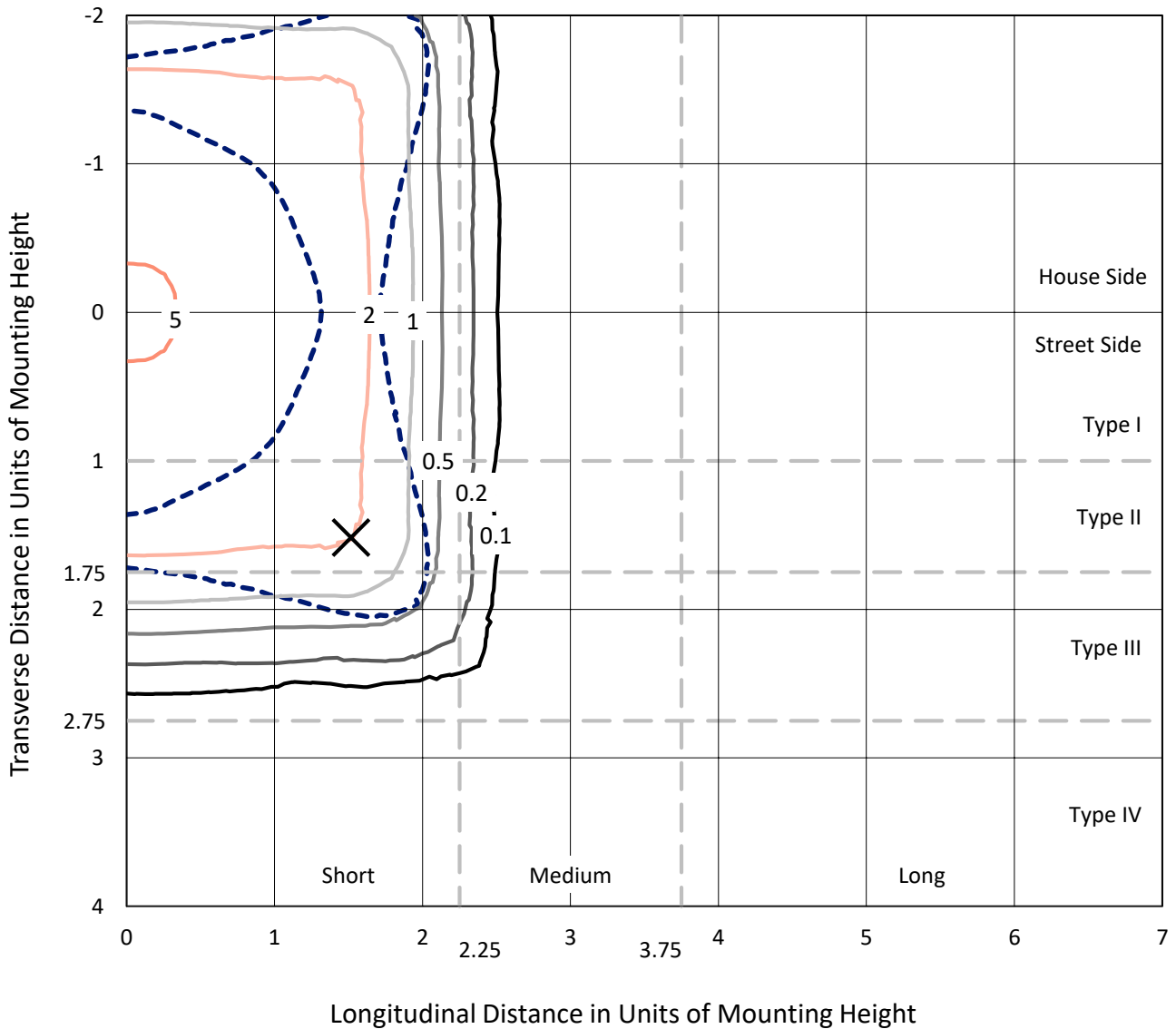
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

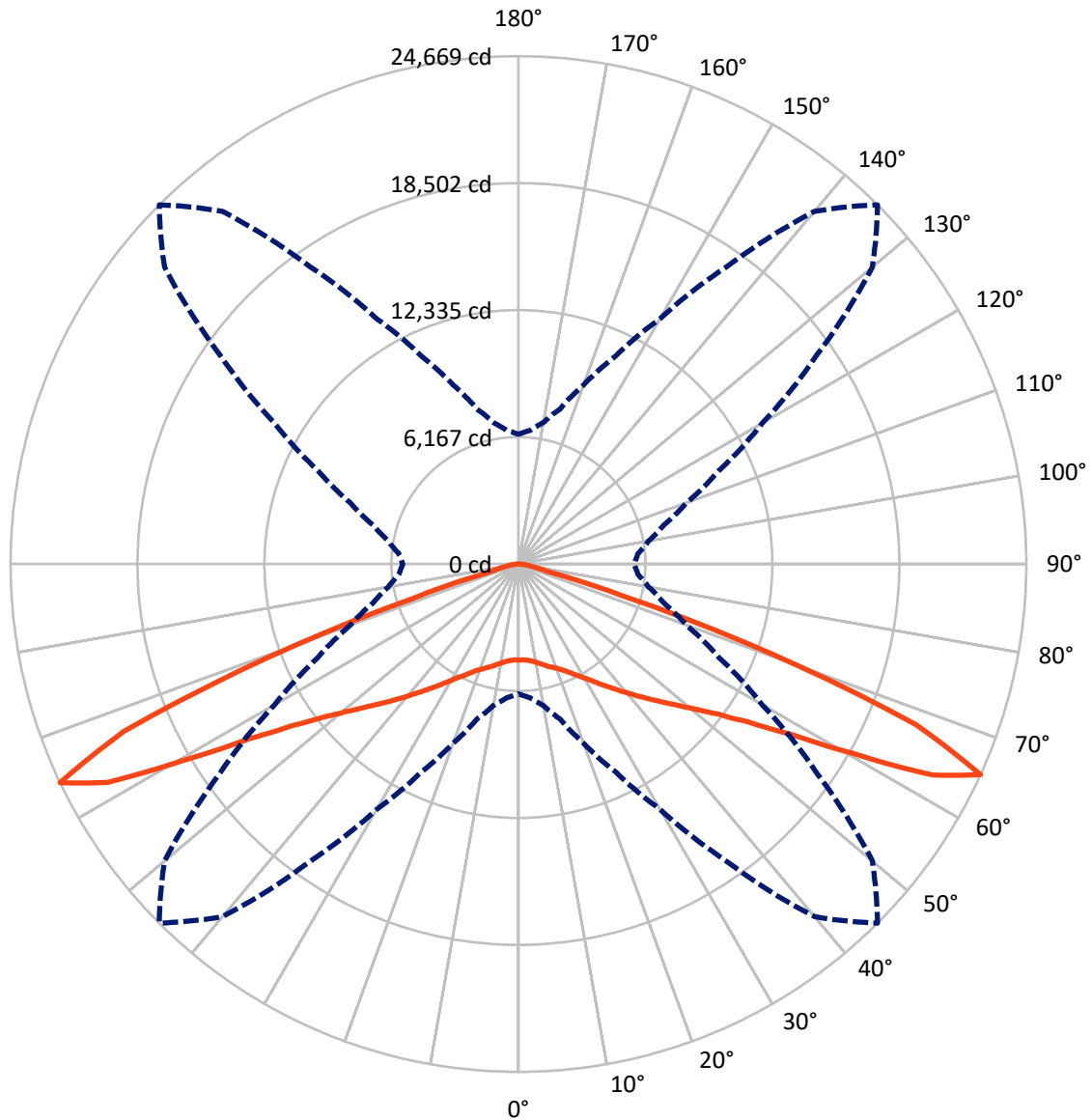
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 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	20604.8	0.0	20604.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20604.8	0.0	20604.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	41209.6	0.0	41209.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	454.5	1.1
10°-20°	1457.6	3.5
20°-30°	2725.4	6.6
30°-40°	4609.5	11.2
40°-50°	7537.0	18.3
50°-60°	11985.0	29.1
60°-70°	10833.7	26.3
70°-80°	1371.0	3.3
80°-90°	235.8	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°	41209.6	100.0
0°-180°	41209.6	100.0



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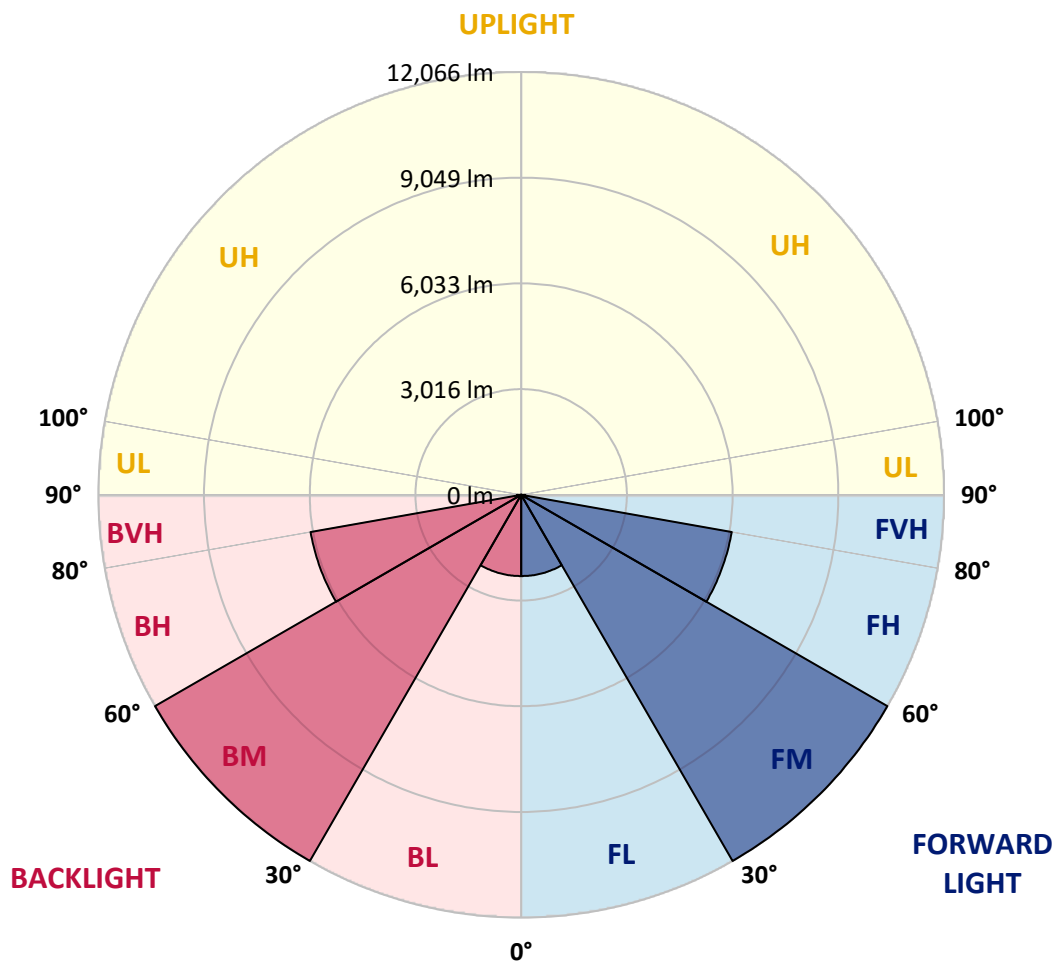
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2318.8	5.6			
FM	(30°-60°)	12065.7	29.3			
FH	(60°-80°)	6102.4	14.8			G3/7500
FVH	(80°-90°)	117.9	0.3			G2/225
BL	(0°-30°)	2318.8	5.6	B3/2500		
BM	(30°-60°)	12065.7	29.3	B5		
BH	(60°-80°)	6102.4	14.8	B5		G3/7500
BVH	(80°-90°)	117.9	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°	4662.9	4662.9	4662.9	4662.9	4662.9	4662.9	4662.9	4662.9	4662.9	4662.9	4662.9
2.5°	4666.7	4670.6	4674.5	4670.6	4674.5	4668.6	4664.9	4670.6	4664.9	4659.0	4662.9
5°	4707.3	4709.3	4709.3	4703.4	4709.3	4705.4	4699.5	4707.3	4701.5	4695.7	4699.5
7.5°	4774.8	4782.5	4776.8	4770.9	4774.8	4770.9	4767.2	4769.0	4767.2	4761.3	4763.3
10°	4865.6	4871.3	4867.5	4865.6	4869.3	4867.5	4863.6	4861.7	4863.6	4857.8	4857.8
12.5°	4975.5	4973.6	4971.6	4973.6	4979.4	4979.4	4977.5	4979.4	4983.3	4985.1	4981.4
15°	5083.7	5087.4	5087.4	5087.4	5099.1	5108.7	5114.5	5118.3	5126.1	5128.1	5120.3
17.5°	5218.7	5218.7	5216.8	5218.7	5230.3	5245.8	5251.5	5259.3	5267.0	5272.8	5263.1
20°	5369.3	5373.2	5373.2	5376.9	5392.4	5409.8	5409.8	5413.7	5409.8	5413.7	5407.8
22.5°	5552.6	5564.2	5564.2	5566.1	5581.5	5602.8	5597.0	5602.8	5593.2	5600.9	5593.2
25°	5791.9	5809.3	5805.5	5805.5	5817.0	5830.5	5832.5	5844.0	5842.1	5851.8	5846.0
27.5°	6062.1	6089.1	6096.9	6094.9	6102.6	6116.2	6120.0	6133.5	6125.8	6133.5	6129.7
30°	6386.4	6397.9	6413.4	6419.2	6428.8	6442.3	6442.3	6444.3	6434.7	6446.2	6452.0
32.5°	6722.2	6743.4	6758.8	6793.6	6811.0	6820.6	6818.7	6822.6	6813.0	6828.3	6840.0
35°	7166.1	7181.5	7206.6	7233.7	7256.8	7254.9	7249.0	7251.0	7251.0	7264.5	7276.1
37.5°	7700.7	7704.6	7737.4	7776.0	7787.5	7776.0	7741.3	7733.5	7716.1	7733.5	7752.8
40°	8266.2	8279.7	8345.3	8370.4	8376.2	8355.0	8304.8	8275.9	8237.2	8258.5	8285.5
42.5°	8858.8	8885.8	8945.6	8990.0	9009.2	8995.7	8926.3	8881.9	8831.6	8843.3	8870.3
45°	9514.9	9547.7	9632.6	9675.1	9711.8	9690.5	9623.0	9555.5	9476.3	9482.1	9524.6
47.5°	10248.3	10281.2	10391.1	10462.5	10481.9	10478.0	10402.7	10310.1	10202.0	10198.1	10234.8
50°	11070.5	11103.3	11240.3	11350.4	11406.3	11400.5	11311.8	11180.5	11049.3	11051.1	11097.5
52.5°	11873.4	11913.9	12056.7	12245.8	12355.9	12435.0	12381.0	12257.4	12097.2	12101.1	12143.6
55°	12626.1	12693.6	12857.7	13114.3	13318.9	13540.9	13604.6	13600.7	13504.2	13531.3	13573.7
57.5°	12990.9	13091.2	13344.0	13749.4	14166.2	14617.9	14999.9	15285.6	15407.2	15590.6	15548.1
60°	12299.9	12460.1	12832.6	13429.0	14253.1	15194.9	16204.3	17190.5	18032.0	18667.0	18302.2
62.5°	10070.7	10279.2	10730.9	11495.1	12741.9	14249.2	16181.1	18512.5	21052.4	22584.9	21490.6
65°	6301.5	6517.6	6976.9	7795.3	9254.3	11128.4	13749.4	17613.2	22359.0	24669.3	22442.1
67.5°	2456.9	2574.7	2823.5	3346.6	4442.9	6110.4	8741.0	13126.0	18802.0	20826.7	18452.7
70°	1231.3	1242.9	1289.2	1385.8	1621.2	2105.6	3203.8	6085.3	10782.9	13023.7	10395.0
72.5°	889.8	891.7	914.8	957.3	1032.6	1140.6	1349.1	1862.5	3506.8	5359.6	3286.8
75°	681.3	689.1	702.6	725.7	766.2	820.2	895.5	1073.1	1329.7	1542.1	1297.0
77.5°	525.0	540.4	550.0	571.3	596.4	633.0	654.3	721.8	839.5	883.9	870.4
80°	399.5	413.1	434.2	451.6	469.0	486.3	478.6	509.5	571.3	607.9	588.6
82.5°	254.7	270.2	331.9	347.4	355.2	366.7	353.2	355.2	382.2	405.3	382.2
85°	164.1	173.7	210.4	229.7	231.6	239.4	233.5	220.0	220.0	200.7	225.8
87.5°	75.3	77.2	94.5	111.9	115.8	104.2	102.3	98.4	79.2	75.3	81.0
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°	4662.9	4662.9	4662.9	4662.9	4662.9	4662.9	4662.9	4662.9
2.5°	4661.0	4664.9	4666.7	4672.5	4674.5	4674.5	4676.4	4680.2
5°	4697.6	4703.4	4705.4	4713.0	4715.0	4713.0	4716.9	4718.9
7.5°	4763.3	4772.9	4776.8	4784.4	4778.7	4786.4	4788.3	4788.3
10°	4859.7	4869.3	4871.3	4879.1	4875.2	4879.1	4879.1	4875.2
12.5°	4987.1	4989.0	4983.3	4989.0	4981.4	4985.1	4979.4	4975.5
15°	5128.1	5122.2	5108.7	5108.7	5097.2	5099.1	5097.2	5095.2
17.5°	5265.0	5253.5	5243.9	5240.0	5230.3	5228.4	5222.6	5222.6
20°	5415.6	5409.8	5404.0	5396.3	5386.7	5376.9	5375.1	5378.9
22.5°	5597.0	5595.0	5595.0	5591.2	5577.7	5568.0	5562.3	5562.3
25°	5840.2	5822.8	5822.8	5820.9	5815.1	5809.3	5797.7	5803.5
27.5°	6114.3	6104.6	6112.3	6110.4	6104.6	6104.6	6096.9	6096.9
30°	6452.0	6448.2	6459.7	6450.1	6430.8	6428.8	6421.2	6411.4
32.5°	6841.9	6838.0	6855.4	6843.7	6813.0	6795.6	6780.1	6772.3
35°	7276.1	7278.0	7299.3	7291.6	7256.8	7245.3	7218.2	7214.4
37.5°	7750.9	7781.8	7818.4	7826.2	7797.2	7789.5	7760.5	7745.1
40°	8308.6	8349.2	8405.2	8418.7	8387.8	8382.0	8341.4	8320.3
42.5°	8903.2	8972.6	9042.1	9053.6	9022.7	8991.8	8953.3	8937.8
45°	9567.0	9650.0	9740.7	9763.9	9717.5	9680.9	9630.7	9630.7
47.5°	10312.0	10416.2	10518.5	10582.2	10539.8	10501.1	10441.4	10402.7
50°	11192.1	11334.9	11468.1	11533.7	11466.2	11392.8	11288.6	11253.9
52.5°	12296.1	12450.4	12566.2	12531.5	12427.3	12325.0	12211.2	12164.8
55°	13705.0	13757.1	13757.1	13625.8	13417.3	13245.6	13066.2	13006.3
57.5°	15467.0	15266.3	14957.5	14565.7	14073.6	13645.1	13355.6	13218.6
60°	17538.0	16572.9	15482.5	14411.3	13531.3	12805.6	12375.1	12178.3
62.5°	18917.8	16393.4	14208.7	12489.0	11223.0	10348.7	9754.2	9522.6
65°	17680.8	13672.1	10746.3	8688.8	7308.9	6419.2	5830.5	5614.4
67.5°	12950.4	8567.3	5722.5	4101.2	3005.0	2397.1	2155.8	2055.4
70°	5813.1	3016.6	1849.0	1443.7	1244.8	1142.5	1098.1	1082.7
72.5°	1752.4	1268.0	1069.2	965.1	885.9	835.6	799.0	795.1
75°	1057.6	880.0	781.6	719.9	669.7	629.2	609.9	604.1
77.5°	739.2	646.5	600.3	555.9	517.2	486.3	469.0	455.5
80°	519.1	474.8	453.6	428.4	403.3	374.4	349.3	337.8
82.5°	347.4	337.8	337.8	322.3	301.1	274.0	223.9	212.3
85°	223.9	222.0	225.8	220.0	204.6	175.6	144.7	137.1
87.5°	104.2	106.2	117.7	115.8	111.9	92.7	73.3	69.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)