

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: P193567

Luminaire Tested: **GLEON-AF-09-LED-E1-RW-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
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-RW-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48692 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 575
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

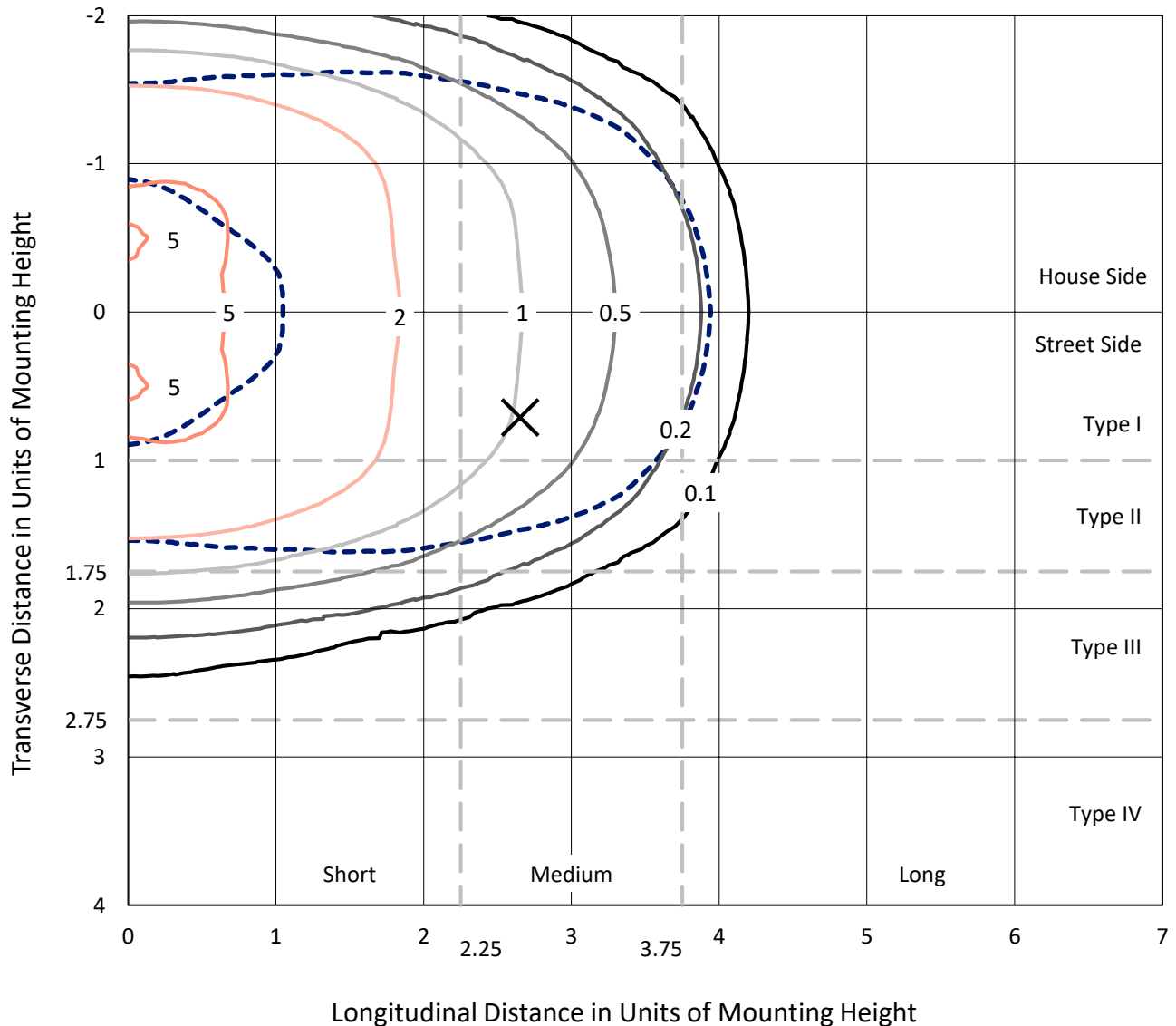


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

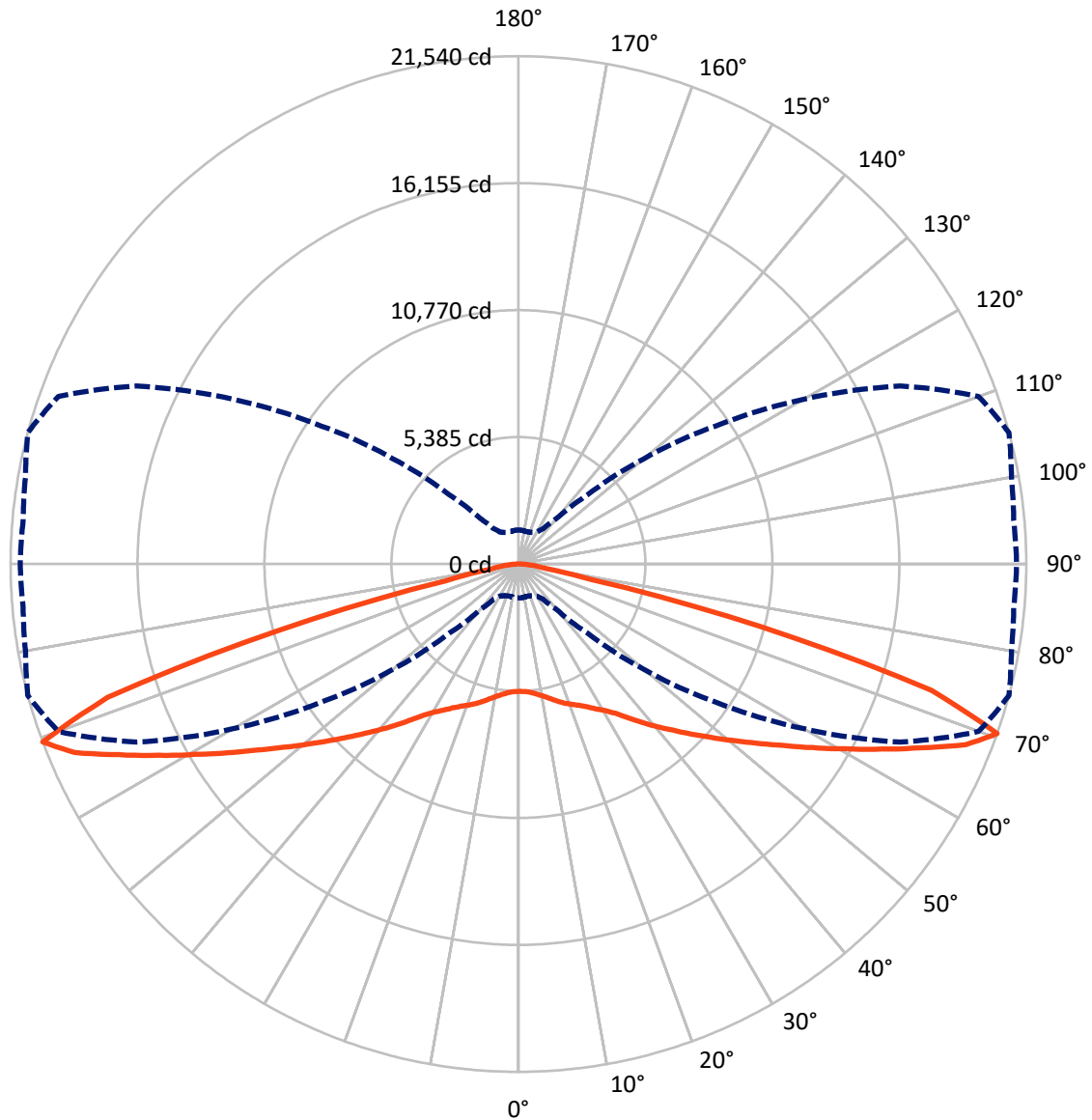


Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24346.0	0.0	24346.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24346.0	0.0	24346.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	48692.0	0.0	48692.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.0	1.1
10°-20°	1609.5	3.3
20°-30°	3029.4	6.2
30°-40°	5364.4	11.0
40°-50°	8971.0	18.4
50°-60°	12501.2	25.7
60°-70°	11592.8	23.8
70°-80°	4620.1	9.5
80°-90°	485.6	1.0
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°	48692.0	100.0
0°-180°	48692.0	100.0



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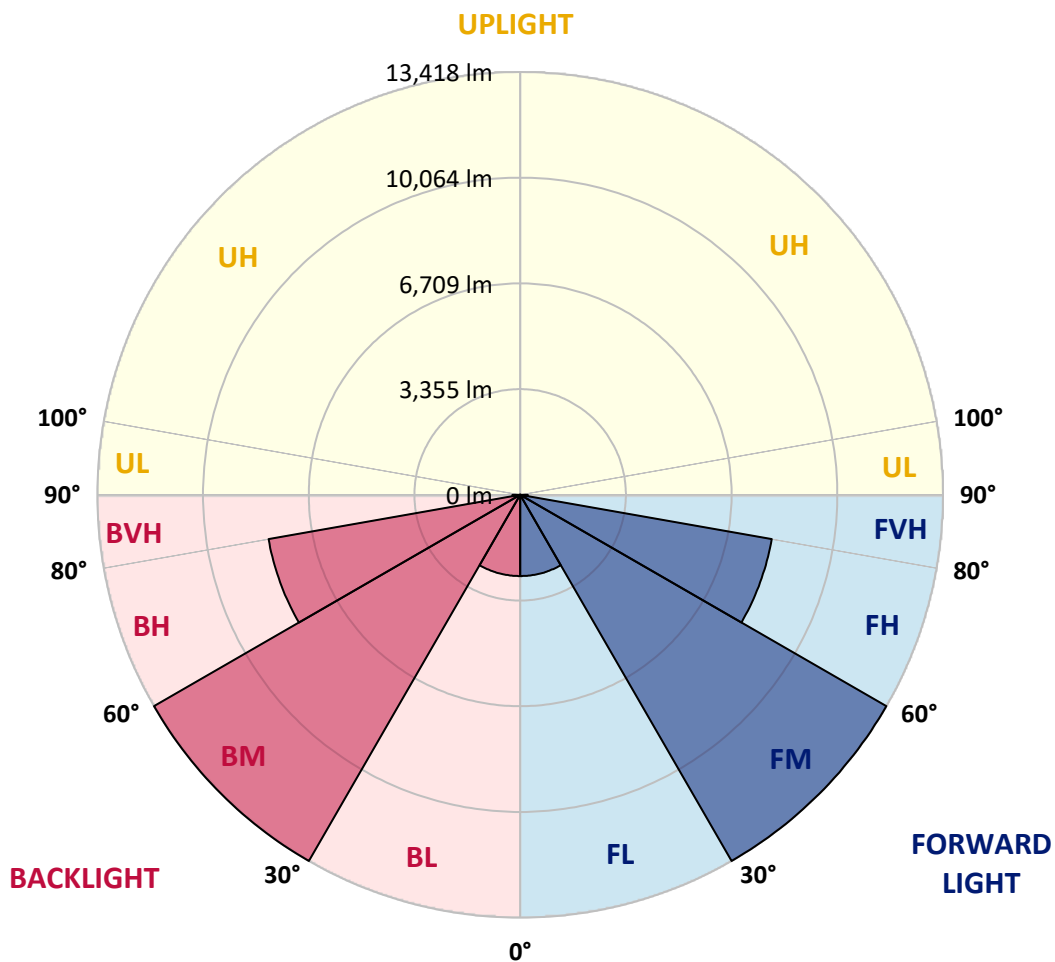
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2578.4	5.3			
FM	(30°-60°)	13418.3	27.6			
FH	(60°-80°)	8106.4	16.6			G4/12000
FVH	(80°-90°)	242.8	0.5			G3/500
BL	(0°-30°)	2578.4	5.3	B4/5000		
BM	(30°-60°)	13418.3	27.6	B5		
BH	(60°-80°)	8106.4	16.6	B5		G5
BVH	(80°-90°)	242.8	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5401.1	5401.1	5401.1	5401.1	5401.1	5401.1	5401.1	5401.1	5401.1	5401.1	5401.1
2.5°	5391.9	5387.3	5391.9	5389.6	5394.2	5394.2	5398.8	5408.0	5408.0	5414.9	5412.6
5°	5338.9	5336.6	5343.5	5350.4	5357.4	5371.2	5385.0	5405.7	5421.8	5433.3	5444.8
7.5°	5235.4	5235.4	5244.6	5260.7	5276.8	5306.7	5338.9	5380.4	5421.8	5456.3	5486.2
10°	5150.2	5154.8	5166.3	5194.0	5221.6	5267.6	5311.3	5371.2	5428.7	5486.2	5532.2
12.5°	5099.6	5106.5	5127.2	5168.6	5214.7	5276.8	5343.5	5419.5	5483.9	5553.0	5599.0
15°	5115.7	5120.3	5150.2	5200.9	5260.7	5338.9	5428.7	5518.4	5594.4	5668.0	5730.2
17.5°	5205.5	5212.4	5246.9	5304.4	5366.6	5458.6	5555.3	5656.5	5750.9	5833.7	5909.7
20°	5366.6	5373.5	5417.2	5479.3	5553.0	5647.3	5744.0	5849.8	5955.7	6043.1	6128.3
22.5°	5594.4	5605.9	5647.3	5709.4	5792.3	5893.5	6008.6	6121.4	6222.6	6303.2	6379.1
25°	5893.5	5918.9	5958.0	6027.0	6114.5	6206.5	6330.8	6445.9	6542.5	6618.4	6673.7
27.5°	6317.0	6351.5	6381.4	6448.2	6533.3	6620.7	6745.0	6846.3	6938.3	7012.0	7053.4
30°	6878.5	6913.0	6942.9	7007.4	7085.6	7168.5	7285.8	7375.6	7433.1	7490.6	7488.3
32.5°	7559.7	7596.5	7608.0	7677.0	7757.6	7847.3	7953.2	8003.8	8049.8	8056.7	8015.3
35°	8321.4	8339.8	8385.8	8477.9	8569.9	8643.6	8744.8	8770.1	8770.1	8735.6	8643.6
37.5°	9156.7	9168.3	9232.7	9336.2	9430.6	9506.5	9575.6	9626.2	9600.9	9527.3	9373.1
40°	10072.7	10093.4	10185.4	10277.5	10383.3	10454.7	10528.3	10537.5	10512.2	10404.0	10194.6
42.5°	10947.1	10965.5	11057.6	11202.6	11340.7	11439.6	11508.6	11522.5	11441.9	11343.0	11082.9
45°	11699.6	11748.0	11867.6	12037.9	12238.1	12378.5	12472.9	12512.0	12440.7	12311.8	12010.3
47.5°	12295.7	12344.0	12514.3	12716.8	12965.3	13193.2	13349.7	13432.5	13414.1	13317.4	12988.4
50°	12732.9	12778.9	12963.0	13211.6	13501.5	13784.6	14051.5	14249.5	14318.5	14274.8	13973.3
52.5°	12783.5	12859.5	13075.8	13409.5	13786.9	14173.5	14553.2	14889.2	15117.0	15151.6	14928.3
55°	12077.1	12153.0	12452.2	12946.9	13508.4	14139.0	14746.5	15312.6	15761.4	15991.5	15874.2
57.5°	10410.9	10546.7	10862.0	11441.9	12268.1	13211.6	14180.4	15186.1	16099.7	16709.5	16826.9
60°	7978.5	8139.6	8457.2	9073.9	9994.4	11119.7	12413.0	13899.7	15512.9	16884.4	17703.7
62.5°	5118.0	5269.9	5603.6	6139.8	6890.0	8109.7	9497.3	11262.4	13430.2	15595.7	17547.2
65°	2630.4	2713.2	2888.1	3212.6	3797.1	4708.4	5953.4	7713.9	10192.3	12864.1	15685.4
67.5°	1666.1	1682.2	1721.3	1767.4	1917.0	2232.2	2812.2	3909.9	5948.8	8735.6	12037.9
70°	1440.6	1440.6	1422.2	1415.3	1433.7	1477.4	1567.2	1822.6	2510.7	4146.9	6942.9
72.5°	1318.6	1304.8	1272.6	1247.3	1242.7	1242.7	1261.1	1300.2	1410.7	1689.1	2717.8
75°	1215.1	1175.9	1132.2	1102.3	1090.8	1079.3	1077.0	1083.9	1106.9	1150.6	1297.9
77.5°	1088.5	1037.9	987.2	957.3	943.5	927.4	913.6	897.5	886.0	899.8	964.2
80°	936.6	879.1	840.0	821.6	807.7	784.7	754.8	727.2	701.9	697.3	736.4
82.5°	754.8	688.1	690.4	697.3	672.0	639.8	607.5	577.6	533.9	510.9	533.9
85°	609.8	575.3	559.2	602.9	566.1	517.8	467.2	414.2	345.2	290.0	315.3
87.5°	237.0	237.0	354.4	545.4	490.2	400.4	342.9	292.3	181.8	140.4	142.7
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°	5401.1	5401.1	5401.1	5401.1	5401.1	5401.1	5401.1	5401.1
2.5°	5410.3	5414.9	5412.6	5410.3	5410.3	5408.0	5410.3	5410.3
5°	5451.7	5463.2	5463.2	5467.8	5467.8	5470.1	5472.4	5470.1
7.5°	5513.8	5534.6	5548.4	5564.5	5566.8	5569.1	5573.7	5569.1
10°	5576.0	5617.4	5647.3	5677.2	5691.0	5695.6	5700.2	5700.2
12.5°	5654.2	5711.7	5764.7	5817.6	5842.9	5856.7	5856.7	5865.9
15°	5783.1	5840.6	5902.8	5974.1	6017.8	6040.8	6047.7	6047.7
17.5°	5964.9	6015.5	6068.4	6137.5	6192.7	6222.6	6229.5	6227.2
20°	6176.6	6224.9	6254.8	6298.6	6346.9	6381.4	6390.6	6390.6
22.5°	6418.2	6445.9	6450.5	6464.3	6503.4	6549.4	6570.1	6574.7
25°	6685.2	6692.1	6673.7	6673.7	6699.0	6742.7	6763.4	6765.7
27.5°	7030.4	6995.9	6949.8	6933.7	6949.8	7000.5	7025.8	7035.0
30°	7460.7	7377.9	7272.0	7214.5	7205.3	7272.0	7318.0	7324.9
32.5°	7953.2	7833.5	7693.1	7575.8	7545.9	7587.3	7642.5	7640.2
35°	8537.7	8395.0	8224.7	8075.2	8006.1	8047.5	8125.8	8135.0
37.5°	9212.0	9025.6	8830.0	8641.3	8533.1	8544.6	8627.5	8655.1
40°	9964.5	9722.9	9476.6	9223.5	9069.3	9039.4	9140.6	9156.7
42.5°	10769.9	10459.3	10148.6	9835.6	9637.7	9591.7	9709.1	9702.1
45°	11628.3	11232.5	10868.9	10523.7	10289.0	10219.9	10316.6	10316.6
47.5°	12551.1	12063.3	11630.6	11239.4	10984.0	10885.0	10977.1	10984.0
50°	13529.2	13011.4	12502.8	12067.9	11761.8	11635.2	11754.9	11773.3
52.5°	14502.6	13998.6	13485.4	12988.4	12617.9	12463.7	12601.7	12661.6
55°	15489.8	14995.1	14504.9	14019.3	13579.8	13398.0	13545.3	13621.2
57.5°	16532.3	16074.4	15607.2	15117.0	14693.6	14410.5	14567.0	14668.3
60°	17754.3	17363.1	16877.5	16336.7	15908.7	15621.0	15710.8	15800.5
62.5°	18720.8	18872.7	18460.8	17834.8	17284.8	16916.6	17004.1	17098.4
65°	18253.7	19811.6	20177.5	19544.7	18783.0	18209.9	18173.1	18221.4
67.5°	15257.4	18283.6	20490.5	21093.4	20456.0	19659.7	19512.5	19583.8
70°	10206.1	13975.6	17869.4	20768.9	21539.9	21231.5	21086.5	21130.2
72.5°	4901.7	8139.6	12123.1	15977.7	18325.0	19402.0	19747.2	19915.2
75°	1792.7	3231.0	5842.9	8804.7	10629.6	12304.9	13398.0	13844.4
77.5°	1081.6	1304.8	1866.3	2809.8	3182.7	3562.4	3415.1	3488.7
80°	800.8	904.4	1024.1	1150.6	1192.1	1192.1	1146.0	1109.2
82.5°	561.5	628.2	685.8	754.8	773.2	738.7	607.5	483.3
85°	361.3	391.2	416.5	460.3	448.7	428.0	287.7	255.4
87.5°	165.7	188.7	197.9	218.6	209.4	200.2	142.7	119.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)