

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: P191616

Luminaire Tested: **GLEON-AF-08-LED-E1-5MQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-E1-5MQ-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50114 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

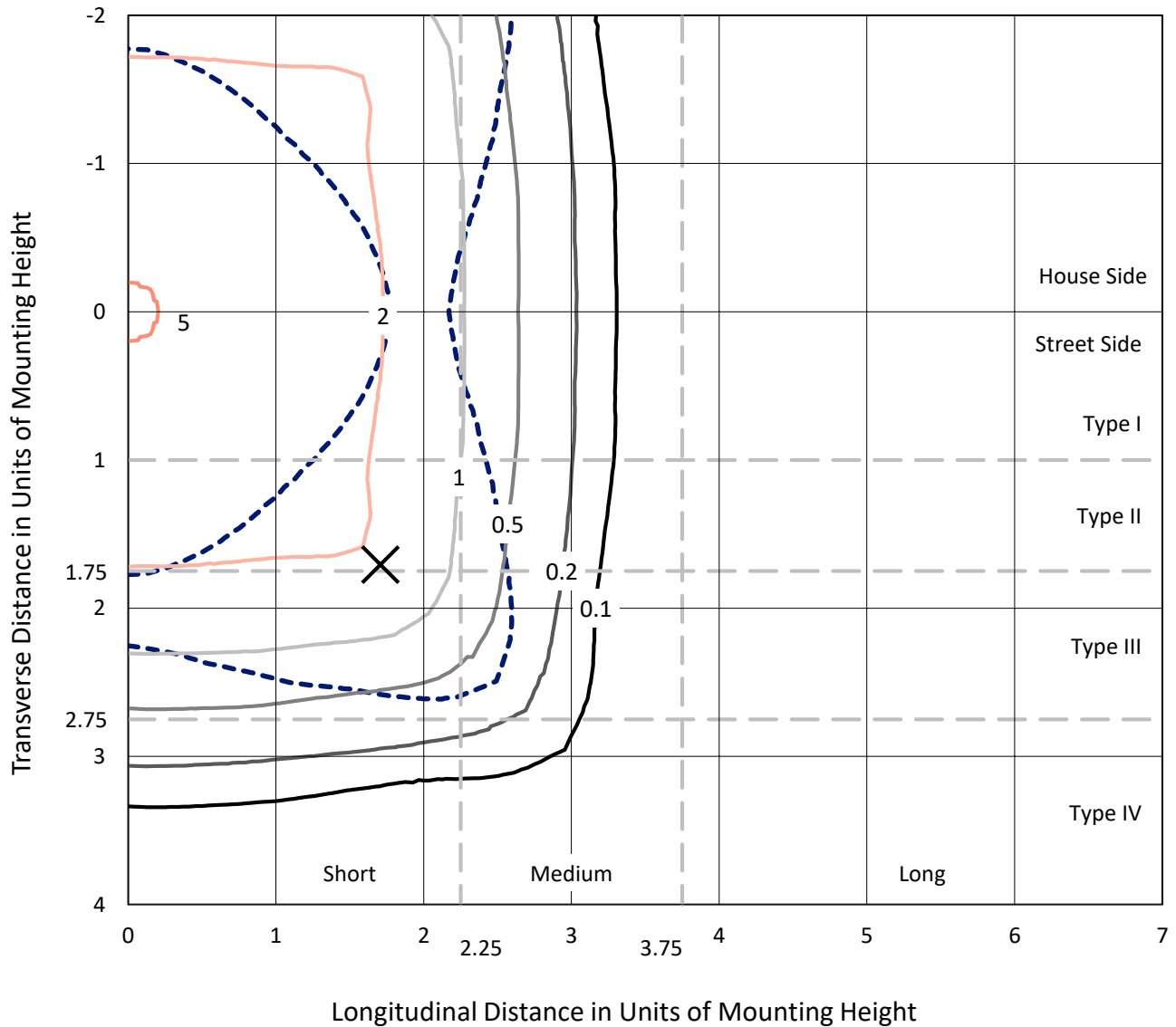
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

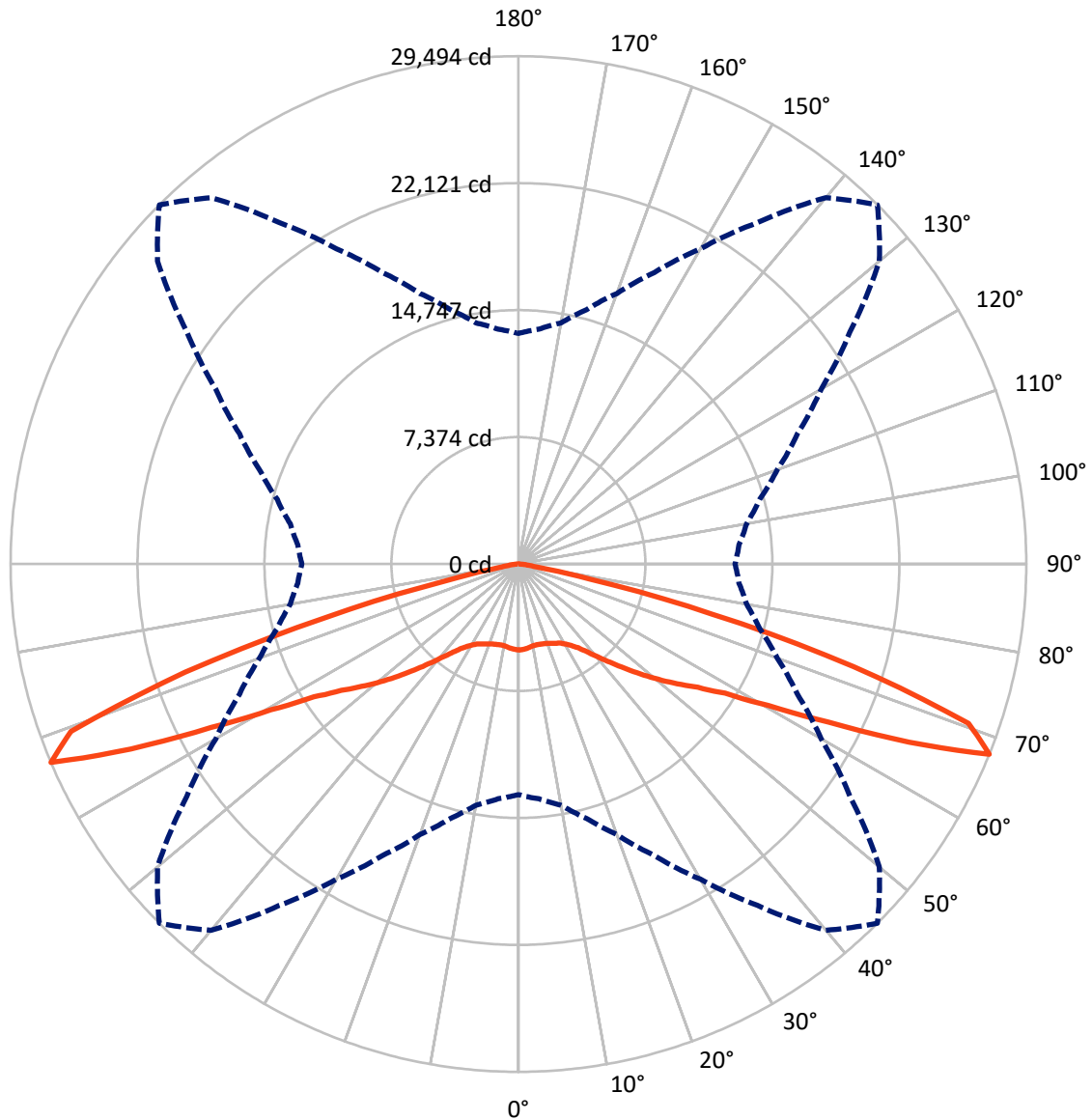
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25057.0	0.0	25057.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25057.0	0.0	25057.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	50114.0	0.0	50114.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.4	0.9
10°-20°	1356.4	2.7
20°-30°	2305.8	4.6
30°-40°	3769.3	7.5
40°-50°	6728.8	13.4
50°-60°	11345.0	22.6
60°-70°	17605.8	35.1
70°-80°	6185.9	12.3
80°-90°	349.6	0.7
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°	50114.0	100.0
0°-180°	50114.0	100.0



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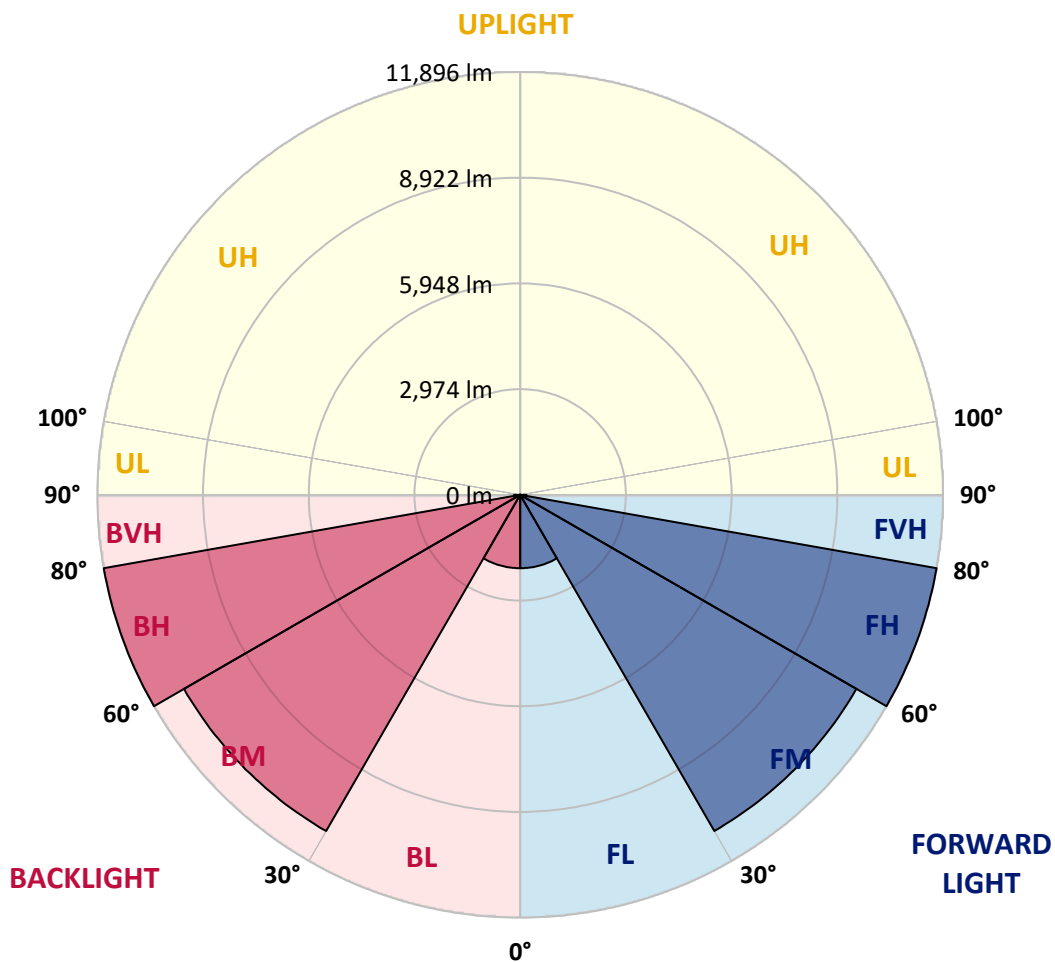
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2064.8	4.1			
FM	(30°-60°)	10921.6	21.8			
FH	(60°-80°)	11895.8	23.7			G4/12000
FVH	(80°-90°)	174.8	0.3			G2/225
BL	(0°-30°)	2064.8	4.1	B3/2500		
BM	(30°-60°)	10921.6	21.8	B5		
BH	(60°-80°)	11895.8	23.7	B5		G4/12000
BVH	(80°-90°)	174.8	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1
2.5°	4975.6	4980.2	4980.2	4980.2	4977.9	4977.9	4973.3	4977.9	4975.6	4968.7	4971.0
5°	4934.2	4938.8	4938.8	4936.5	4943.4	4941.1	4934.2	4938.8	4936.5	4931.8	4934.2
7.5°	4874.2	4881.1	4881.1	4878.8	4885.8	4883.5	4878.8	4881.1	4881.1	4874.2	4874.2
10°	4807.4	4812.0	4812.0	4809.7	4821.2	4821.2	4818.9	4825.8	4828.1	4821.2	4816.6
12.5°	4745.2	4752.1	4752.1	4761.3	4772.8	4777.4	4789.0	4798.2	4807.4	4805.1	4795.9
15°	4708.3	4712.9	4722.1	4733.7	4752.1	4768.2	4786.7	4807.4	4825.8	4830.4	4816.6
17.5°	4685.3	4692.2	4706.0	4722.1	4747.5	4775.1	4802.8	4830.4	4855.8	4865.0	4848.9
20°	4678.3	4683.0	4696.8	4724.4	4759.0	4800.5	4839.7	4871.9	4906.5	4918.0	4906.5
22.5°	4692.2	4701.4	4717.5	4749.8	4795.9	4848.9	4895.0	4938.8	4982.5	5003.3	4987.2
25°	4754.4	4763.6	4784.4	4825.8	4876.5	4931.8	4984.9	5035.6	5074.7	5095.5	5084.0
27.5°	4869.6	4881.1	4906.5	4948.0	5003.3	5063.2	5120.8	5162.3	5194.6	5201.5	5187.7
30°	5042.5	5067.8	5097.8	5143.9	5208.4	5259.1	5316.7	5353.6	5392.8	5392.8	5381.2
32.5°	5312.1	5337.5	5369.7	5413.5	5464.2	5519.5	5570.2	5602.5	5644.0	5646.3	5618.6
35°	5715.4	5726.9	5754.6	5782.2	5828.3	5876.7	5920.5	5941.3	5975.8	5978.1	5952.8
37.5°	6247.8	6250.1	6268.5	6277.7	6319.2	6372.2	6413.7	6427.5	6459.8	6455.2	6429.8
40°	6867.7	6879.2	6886.1	6900.0	6943.8	6994.5	7038.3	7045.2	7079.7	7072.8	7040.6
42.5°	7584.4	7589.1	7628.2	7649.0	7690.5	7715.8	7771.1	7778.0	7819.5	7801.1	7764.2
45°	8388.7	8430.2	8467.1	8508.6	8552.4	8582.3	8626.1	8616.9	8644.6	8616.9	8596.2
47.5°	9234.5	9264.5	9347.5	9412.0	9483.4	9508.8	9571.0	9543.4	9571.0	9531.8	9524.9
50°	10165.6	10218.6	10290.0	10363.8	10439.8	10481.3	10562.0	10527.4	10564.3	10527.4	10506.7
52.5°	11082.8	11096.7	11253.4	11361.7	11467.7	11516.1	11564.5	11548.4	11550.7	11548.4	11527.6
55°	11954.0	11986.2	12142.9	12290.4	12474.8	12610.8	12693.7	12684.5	12663.8	12643.0	12608.5
57.5°	12935.7	12968.0	13147.8	13329.8	13539.5	13733.1	13901.4	14074.2	14141.0	14159.5	14083.4
60°	14263.2	14260.9	14500.6	14721.8	15021.4	15309.5	15678.2	16053.9	16484.8	16685.3	16420.3
62.5°	15613.7	15669.0	16014.7	16406.5	17024.1	17625.6	18305.4	18973.8	19655.9	20211.4	19621.4
65°	15452.4	15664.4	16178.3	17065.6	18206.4	19561.5	21027.2	22578.2	23979.4	24942.7	23861.8
67.5°	13392.0	13693.9	14217.1	15295.6	16722.2	18676.5	21137.8	24205.2	27770.4	29494.3	27357.9
70°	9707.0	10048.1	10596.6	11649.8	13062.5	14920.0	17593.3	21276.1	25995.9	27733.6	25380.6
72.5°	4830.4	5014.8	5353.6	6024.2	7093.6	8600.8	11025.2	14565.1	18741.0	20335.8	18185.6
75°	1640.9	1726.1	1783.8	2002.7	2341.5	2933.8	4139.1	6367.6	9713.9	11645.2	9575.6
77.5°	947.2	949.5	988.7	1027.9	1085.5	1150.0	1311.3	1721.5	2977.5	4228.9	3081.3
80°	613.0	610.7	643.0	672.9	712.1	744.4	753.6	797.4	919.5	1090.1	974.8
82.5°	318.0	357.2	428.7	467.8	541.6	555.4	537.0	520.8	550.8	571.5	585.4
85°	175.1	152.1	228.2	295.0	327.3	331.9	331.9	313.4	324.9	318.0	345.7
87.5°	80.7	73.7	89.9	145.2	154.4	131.4	138.3	122.1	87.6	85.3	96.8
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°	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1
2.5°	4971.0	4973.3	4973.3	4980.2	4982.5	4987.2	4991.8	4994.1
5°	4931.8	4938.8	4934.2	4941.1	4941.1	4945.7	4945.7	4948.0
7.5°	4874.2	4881.1	4881.1	4881.1	4878.8	4885.8	4885.8	4885.8
10°	4814.3	4818.9	4816.6	4812.0	4807.4	4814.3	4812.0	4809.7
12.5°	4795.9	4784.4	4775.1	4770.5	4761.3	4763.6	4756.7	4756.7
15°	4807.4	4786.7	4770.5	4763.6	4754.4	4749.8	4745.2	4747.5
17.5°	4837.4	4812.0	4791.3	4779.7	4768.2	4761.3	4752.1	4754.4
20°	4890.4	4860.4	4830.4	4807.4	4786.7	4775.1	4768.2	4765.9
22.5°	4968.7	4924.9	4881.1	4846.6	4818.9	4802.8	4795.9	4791.3
25°	5058.6	5010.2	4959.5	4920.3	4892.7	4871.9	4858.1	4858.1
27.5°	5171.5	5132.3	5086.3	5040.2	5014.8	4994.1	4984.9	4980.2
30°	5360.5	5323.6	5286.8	5243.0	5210.7	5190.0	5173.8	5160.0
32.5°	5602.5	5572.5	5542.6	5510.3	5480.3	5452.7	5427.3	5415.8
35°	5943.6	5920.5	5899.8	5862.9	5851.4	5835.3	5821.4	5809.9
37.5°	6413.7	6404.5	6404.5	6365.3	6356.1	6349.2	6335.3	6337.7
40°	7031.3	7040.6	7029.0	7015.2	7008.3	6989.9	6989.9	7006.0
42.5°	7761.9	7768.8	7794.2	7771.1	7796.5	7773.4	7759.6	7771.1
45°	8610.0	8635.3	8686.0	8663.0	8679.1	8640.0	8591.6	8593.9
47.5°	9561.8	9584.8	9605.6	9589.4	9591.8	9527.2	9462.7	9446.6
50°	10550.5	10559.7	10571.2	10548.2	10552.8	10481.3	10407.6	10409.9
52.5°	11527.6	11571.4	11617.5	11555.3	11541.4	11460.8	11357.1	11315.6
55°	12645.3	12707.6	12654.6	12546.3	12437.9	12329.6	12193.6	12170.6
57.5°	14023.5	13917.5	13751.6	13546.4	13396.6	13244.5	13106.3	13048.7
60°	15940.9	15542.2	15242.6	14938.4	14747.1	14560.5	14378.4	14350.8
62.5°	18651.1	17962.1	17365.2	16736.0	16222.1	15821.1	15500.7	15410.9
65°	22048.1	20418.8	19006.0	17687.8	16542.4	15678.2	15134.3	14894.6
67.5°	23509.2	20292.0	17869.9	15998.5	14500.6	13454.3	12866.6	12573.9
70°	20658.4	16828.2	14194.0	12320.4	10956.1	9840.6	9308.3	8994.9
72.5°	14212.5	10704.9	8464.8	6909.2	5819.1	4885.8	4517.0	4489.4
75°	6381.4	4226.6	2913.0	2244.7	1889.8	1643.2	1567.1	1509.5
77.5°	1786.1	1320.5	1177.7	1101.6	1027.9	942.6	910.3	917.2
80°	868.8	820.4	788.2	739.8	672.9	601.5	569.2	583.1
82.5°	576.2	569.2	590.0	555.4	458.6	389.5	327.3	299.6
85°	350.3	354.9	361.8	364.1	308.8	216.6	147.5	165.9
87.5°	138.3	159.0	172.8	179.8	168.2	103.7	83.0	85.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)