

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: P191807

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191807
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-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43949 lumens
Efficiency: N/A
Efficacy: 117.5 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

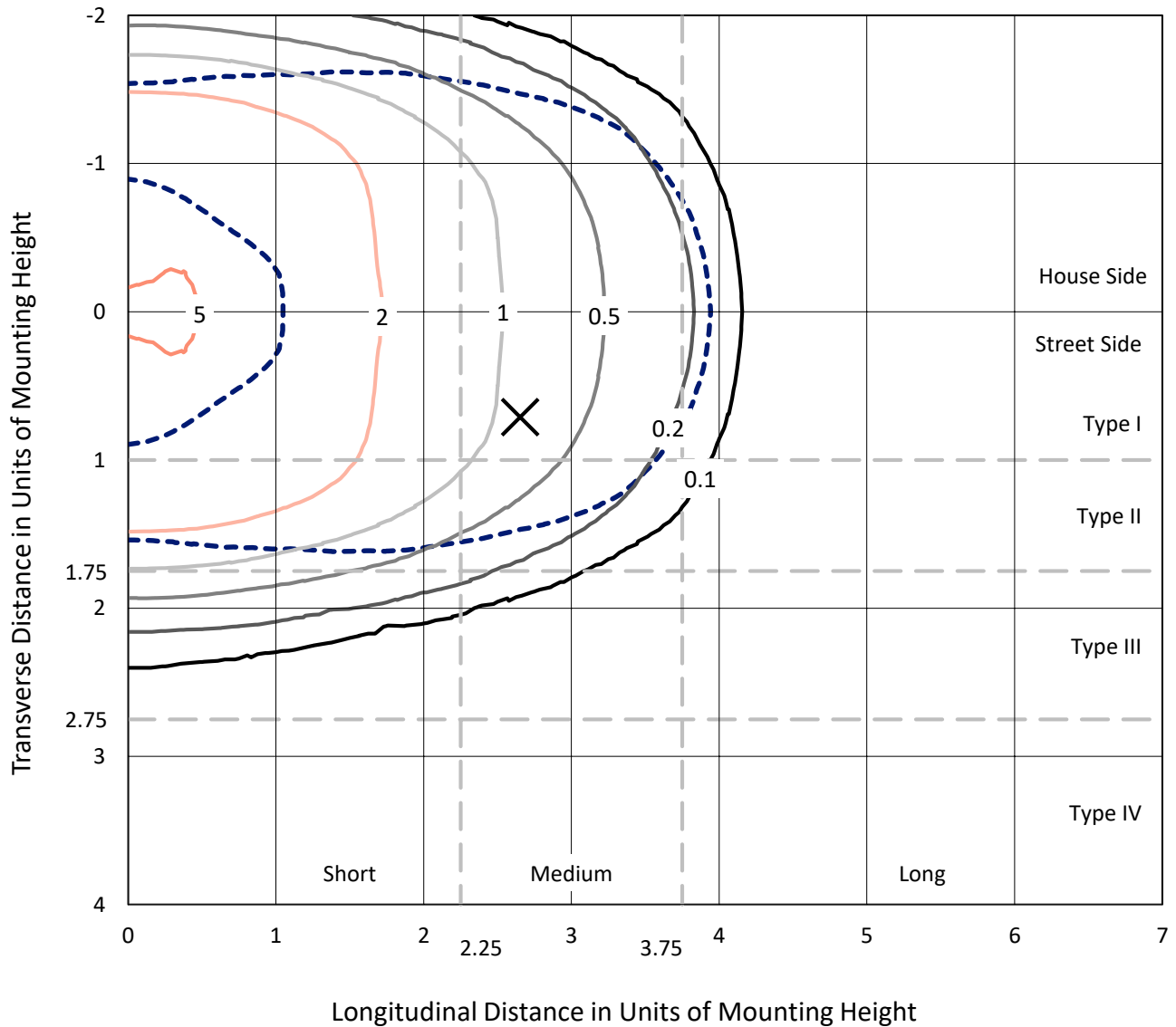
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191807
 CATALOG NUMBER: GLEON-AF-09-LED-E1-RW-7050-800

Iso-Footcandle Lines of Horizontal Illumination

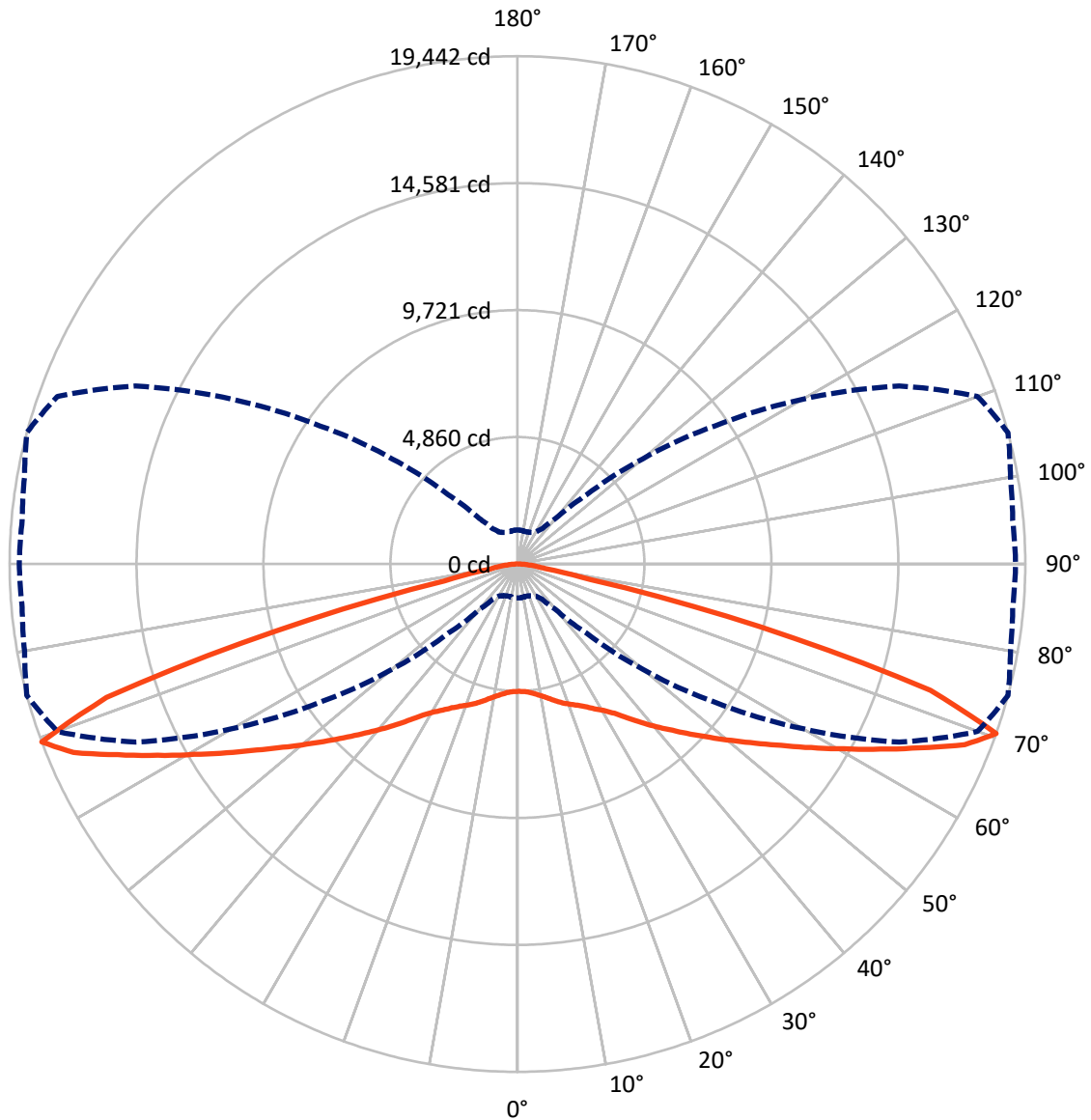
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P191807
CATALOG NUMBER: GLEON-AF-09-LED-E1-RW-7050-800

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	21974.5	0.0	21974.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21974.5	0.0	21974.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	43949.0	0.0	43949.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.5	1.1
10°-20°	1452.7	3.3
20°-30°	2734.3	6.2
30°-40°	4841.9	11.0
40°-50°	8097.2	18.4
50°-60°	11283.4	25.7
60°-70°	10463.6	23.8
70°-80°	4170.0	9.5
80°-90°	438.3	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°	43949.0	100.0
0°-180°	43949.0	100.0



REPORT NUMBER: P191807

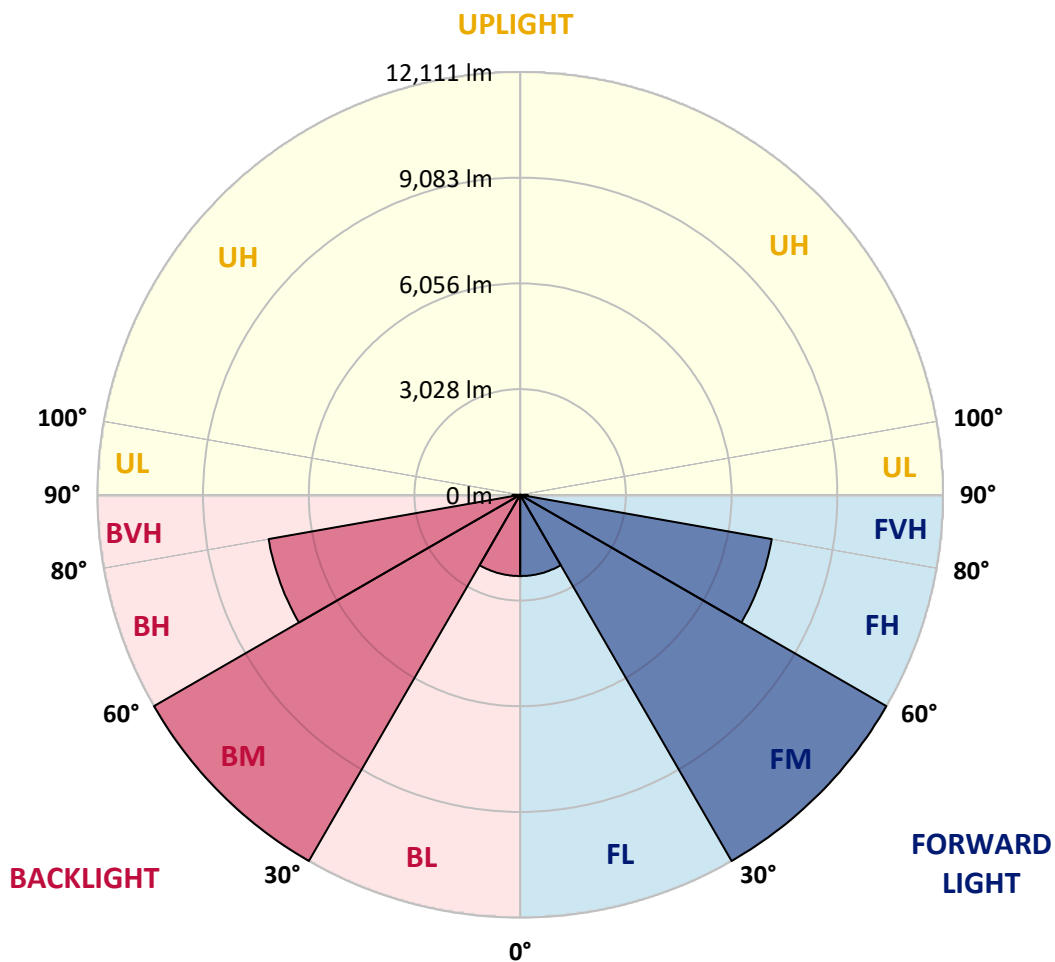
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2327.3	5.3			
FM	(30°-60°)	12111.2	27.6			
FH	(60°-80°)	7316.8	16.6			G3/7500
FVH	(80°-90°)	219.2	0.5			G2/225
BL	(0°-30°)	2327.3	5.3	B3/2500		
BM	(30°-60°)	12111.2	27.6	B5		
BH	(60°-80°)	7316.8	16.6	B5		G5
BVH	(80°-90°)	219.2	0.5			G2/225
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





REPORT NUMBER: P191807

CATALOG NUMBER: GLEON-AF-09-LED-E1-RW-7050-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4875.0	4875.0	4875.0	4875.0	4875.0	4875.0	4875.0	4875.0	4875.0	4875.0	4875.0
2.5°	4866.7	4862.5	4866.7	4864.6	4868.7	4868.7	4872.9	4881.2	4881.2	4887.4	4885.4
5°	4818.9	4816.8	4823.0	4829.3	4835.5	4848.0	4860.4	4879.1	4893.7	4904.0	4914.4
7.5°	4725.4	4725.4	4733.7	4748.3	4762.8	4789.8	4818.9	4856.3	4893.7	4924.8	4951.8
10°	4648.6	4652.7	4663.1	4688.0	4713.0	4754.5	4794.0	4848.0	4899.9	4951.8	4993.4
12.5°	4602.9	4609.1	4627.8	4665.2	4706.7	4762.8	4823.0	4891.6	4949.7	5012.1	5053.6
15°	4617.4	4621.6	4648.6	4694.3	4748.3	4818.9	4899.9	4980.9	5049.4	5115.9	5172.0
17.5°	4698.4	4704.6	4735.8	4787.7	4843.8	4926.9	5014.1	5105.5	5190.7	5265.5	5334.0
20°	4843.8	4850.0	4889.5	4945.6	5012.1	5097.2	5184.5	5280.0	5375.6	5454.5	5531.3
22.5°	5049.4	5059.8	5097.2	5153.3	5228.1	5319.5	5423.3	5525.1	5616.5	5689.2	5757.7
25°	5319.5	5342.3	5377.6	5439.9	5518.9	5602.0	5714.1	5818.0	5905.2	5973.8	6023.6
27.5°	5701.7	5732.8	5759.8	5820.1	5896.9	5975.8	6088.0	6179.4	6262.5	6328.9	6366.3
30°	6208.5	6239.6	6266.6	6324.8	6395.4	6470.2	6576.1	6657.1	6709.1	6761.0	6758.9
32.5°	6823.3	6856.5	6866.9	6929.2	7001.9	7082.9	7178.5	7224.2	7265.7	7271.9	7234.6
35°	7510.8	7527.4	7569.0	7652.1	7735.1	7801.6	7893.0	7915.9	7915.9	7884.7	7801.6
37.5°	8264.8	8275.2	8333.4	8426.8	8512.0	8580.5	8642.8	8688.5	8665.7	8599.2	8460.1
40°	9091.5	9110.2	9193.3	9276.4	9371.9	9436.3	9502.8	9511.1	9488.2	9390.6	9201.6
42.5°	9880.8	9897.4	9980.5	10111.4	10236.0	10325.3	10387.6	10400.1	10327.4	10238.1	10003.3
45°	10560.0	10603.6	10711.6	10865.3	11046.1	11172.8	11257.9	11293.2	11228.8	11112.5	10840.4
47.5°	11098.0	11141.6	11295.3	11478.1	11702.4	11908.0	12049.3	12124.1	12107.5	12020.2	11723.2
50°	11492.6	11534.2	11700.3	11924.7	12186.4	12441.9	12682.8	12861.4	12923.8	12884.3	12612.2
52.5°	11538.3	11606.9	11802.1	12103.3	12443.9	12792.9	13135.6	13438.9	13644.5	13675.7	13474.2
55°	10900.7	10969.2	11239.2	11685.8	12192.6	12761.7	13310.1	13821.1	14226.1	14433.8	14327.9
57.5°	9396.8	9519.4	9803.9	10327.4	11073.1	11924.7	12799.1	13706.8	14531.4	15081.9	15187.8
60°	7201.3	7346.7	7633.4	8190.0	9020.9	10036.6	11203.9	12545.7	14001.8	15239.7	15979.2
62.5°	4619.5	4756.6	5057.8	5541.7	6218.9	7319.7	8572.2	10165.4	12122.0	14076.5	15837.9
65°	2374.1	2448.9	2606.8	2899.6	3427.2	4249.8	5373.5	6962.5	9199.5	11611.0	14157.6
67.5°	1503.8	1518.4	1553.7	1595.2	1730.2	2014.8	2538.2	3529.0	5369.3	7884.7	10865.3
70°	1300.3	1300.3	1283.7	1277.4	1294.0	1333.5	1414.5	1645.1	2266.1	3742.9	6266.6
72.5°	1190.2	1177.7	1148.6	1125.8	1121.6	1121.6	1138.3	1173.6	1273.3	1524.6	2453.1
75°	1096.7	1061.4	1021.9	994.9	984.5	974.2	972.1	978.3	999.1	1038.6	1171.5
77.5°	982.5	936.8	891.1	864.1	851.6	837.1	824.6	810.1	799.7	812.1	870.3
80°	845.4	793.5	758.1	741.5	729.1	708.3	681.3	656.4	633.5	629.4	664.7
82.5°	681.3	621.1	623.1	629.4	606.5	577.4	548.4	521.4	481.9	461.1	481.9
85°	550.4	519.3	504.7	544.2	511.0	467.3	421.7	373.9	311.6	261.7	284.6
87.5°	213.9	213.9	319.9	492.3	442.4	361.4	309.5	263.8	164.1	126.7	128.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191807

CATALOG NUMBER: GLEON-AF-09-LED-E1-RW-7050-800

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4875.0	4875.0	4875.0	4875.0	4875.0	4875.0	4875.0	4875.0
2.5°	4883.3	4887.4	4885.4	4883.3	4883.3	4881.2	4883.3	4883.3
5°	4920.7	4931.1	4931.1	4935.2	4935.2	4937.3	4939.4	4937.3
7.5°	4976.7	4995.4	5007.9	5022.4	5024.5	5026.6	5030.8	5026.6
10°	5032.8	5070.2	5097.2	5124.2	5136.7	5140.8	5145.0	5145.0
12.5°	5103.4	5155.4	5203.2	5250.9	5273.8	5286.2	5286.2	5294.5
15°	5219.8	5271.7	5327.8	5392.2	5431.6	5452.4	5458.6	5458.6
17.5°	5383.9	5429.6	5477.3	5539.6	5589.5	5616.5	5622.7	5620.6
20°	5575.0	5618.6	5645.6	5685.0	5728.7	5759.8	5768.1	5768.1
22.5°	5793.0	5818.0	5822.1	5834.6	5869.9	5911.4	5930.1	5934.3
25°	6034.0	6040.2	6023.6	6023.6	6046.5	6085.9	6104.6	6106.7
27.5°	6345.6	6314.4	6272.9	6258.3	6272.9	6318.6	6341.4	6349.7
30°	6734.0	6659.2	6563.7	6511.7	6503.4	6563.7	6605.2	6611.4
32.5°	7178.5	7070.5	6943.8	6837.8	6810.8	6848.2	6898.1	6896.0
35°	7706.1	7577.3	7423.6	7288.6	7226.3	7263.6	7334.3	7342.6
37.5°	8314.7	8146.4	7969.9	7799.5	7701.9	7712.3	7787.1	7812.0
40°	8993.9	8775.8	8553.5	8325.0	8185.9	8158.9	8250.3	8264.8
42.5°	9720.9	9440.4	9160.0	8877.6	8698.9	8657.4	8763.3	8757.1
45°	10495.6	10138.4	9810.2	9498.6	9286.7	9224.4	9311.7	9311.7
47.5°	11328.5	10888.2	10497.7	10144.6	9914.0	9824.7	9907.8	9914.0
50°	12211.3	11744.0	11284.9	10892.3	10616.1	10501.8	10609.9	10626.5
52.5°	13089.9	12635.0	12171.8	11723.2	11388.8	11249.6	11374.2	11428.2
55°	13981.0	13534.4	13092.0	12653.7	12257.0	12092.9	12225.8	12294.4
57.5°	14921.9	14508.6	14086.9	13644.5	13262.3	13006.8	13148.1	13239.5
60°	16024.9	15671.8	15233.5	14745.4	14359.0	14099.4	14180.4	14261.4
62.5°	16897.3	17034.3	16662.5	16097.6	15601.1	15268.8	15347.7	15432.9
65°	16475.6	17881.8	18212.1	17640.9	16953.3	16436.1	16402.9	16446.5
67.5°	13771.2	16502.6	18494.6	19038.8	18463.4	17744.7	17611.8	17676.2
70°	9212.0	12614.3	16128.7	18745.9	19441.7	19163.4	19032.5	19072.0
72.5°	4424.2	7346.7	10942.2	14421.3	16540.0	17512.1	17823.6	17975.3
75°	1618.1	2916.3	5273.8	7947.0	9594.2	11106.3	12092.9	12495.9
77.5°	976.2	1177.7	1684.5	2536.1	2872.6	3215.4	3082.4	3148.9
80°	722.8	816.3	924.3	1038.6	1075.9	1075.9	1034.4	1001.2
82.5°	506.8	567.0	619.0	681.3	697.9	666.8	548.4	436.2
85°	326.1	353.1	376.0	415.4	405.0	386.3	259.6	230.6
87.5°	149.6	170.3	178.6	197.3	189.0	180.7	128.8	108.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)