

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: P191026

Luminaire Tested: **GLEON-AF-08-LED-E1-RW-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191026
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-08-LED-E1-RW-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54721.7 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

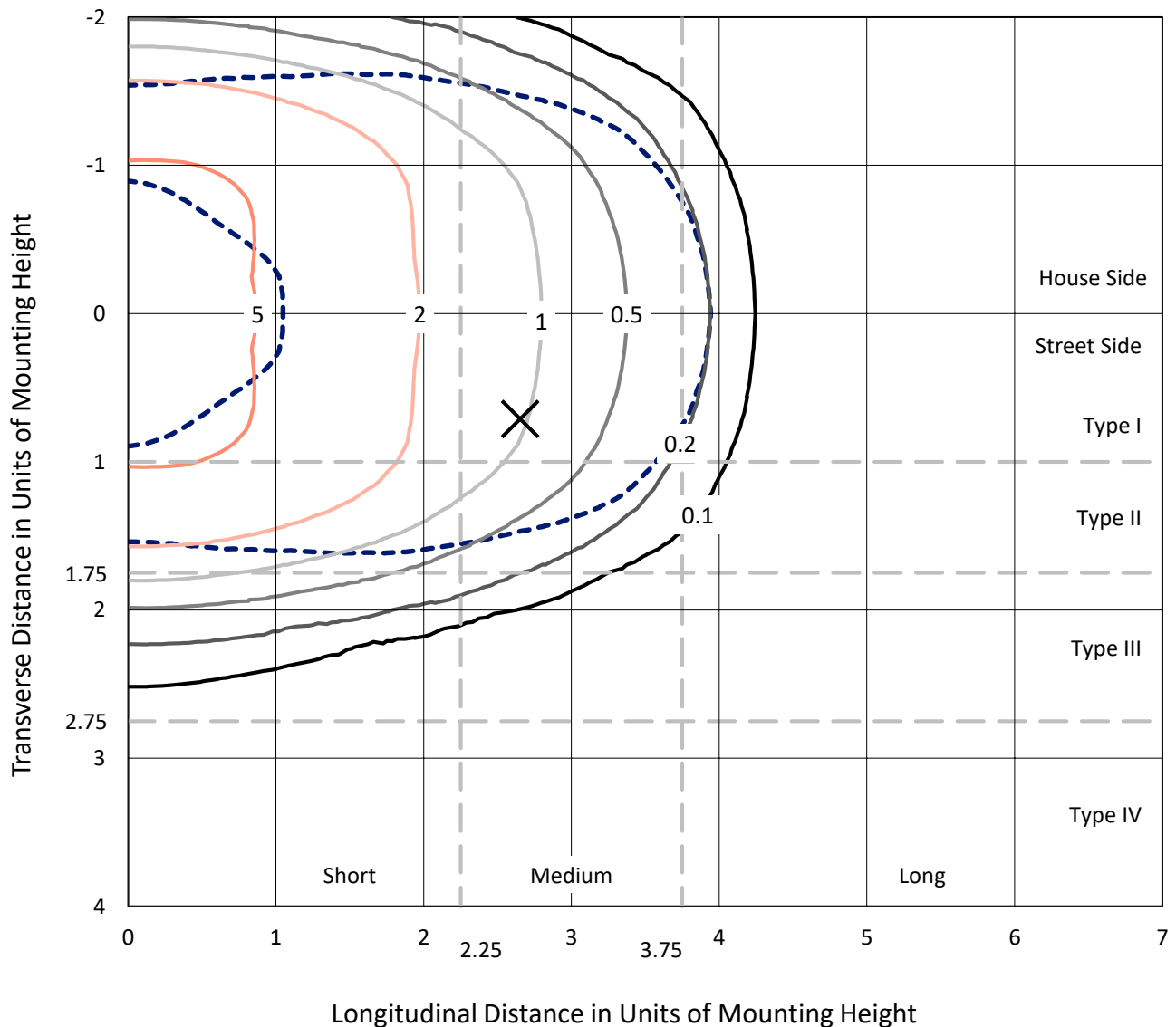
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

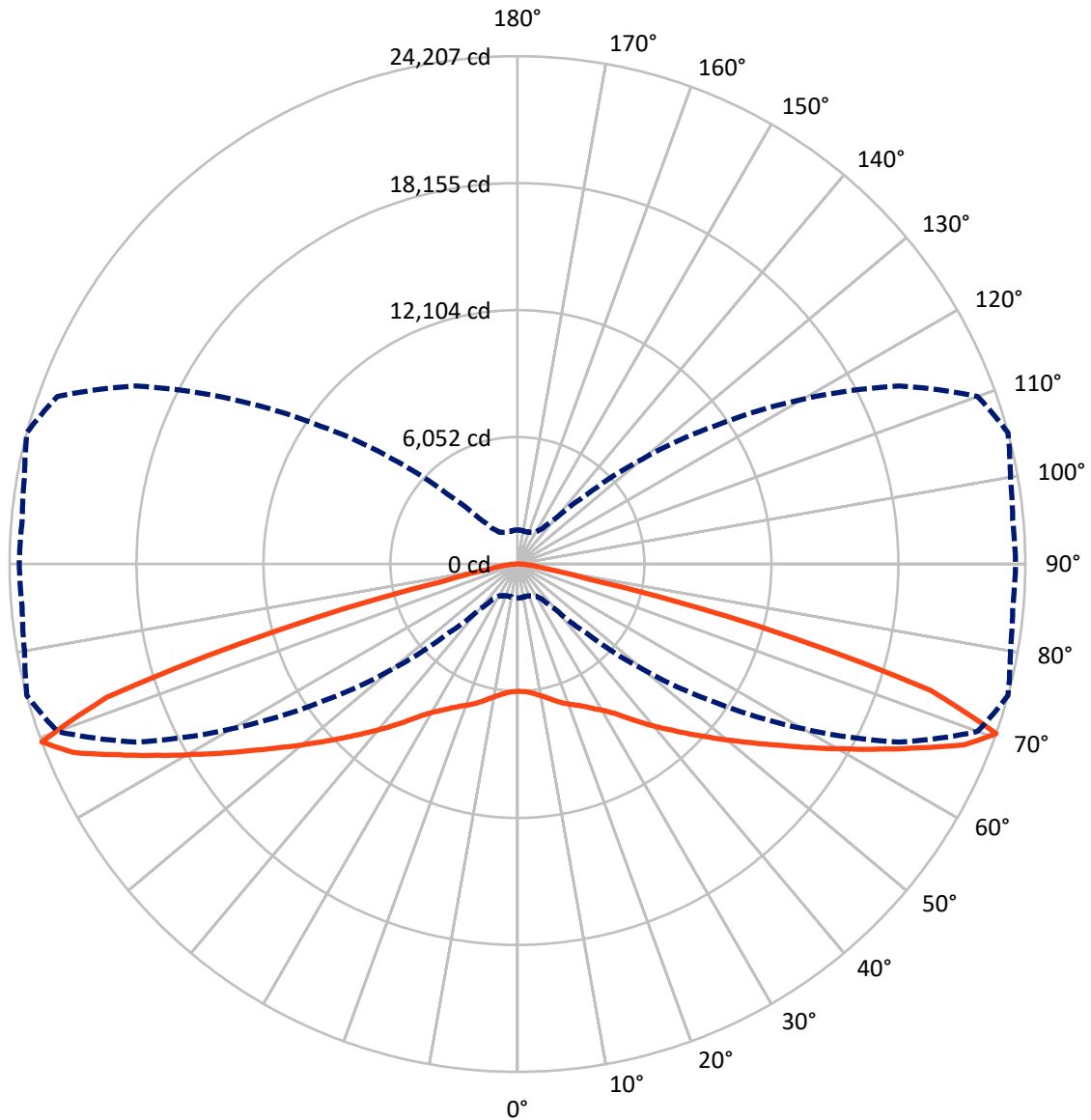
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 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	27360.9	0.0	27360.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27360.9	0.0	27360.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	54721.7	0.0	54721.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.1	1.1
10°-20°	1808.8	3.3
20°-30°	3404.5	6.2
30°-40°	6028.7	11.0
40°-50°	10081.9	18.4
50°-60°	14049.2	25.7
60°-70°	13028.4	23.8
70°-80°	5192.2	9.5
80°-90°	545.8	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°	54721.7	100.0
0°-180°	54721.7	100.0

Coefficient of Utilization



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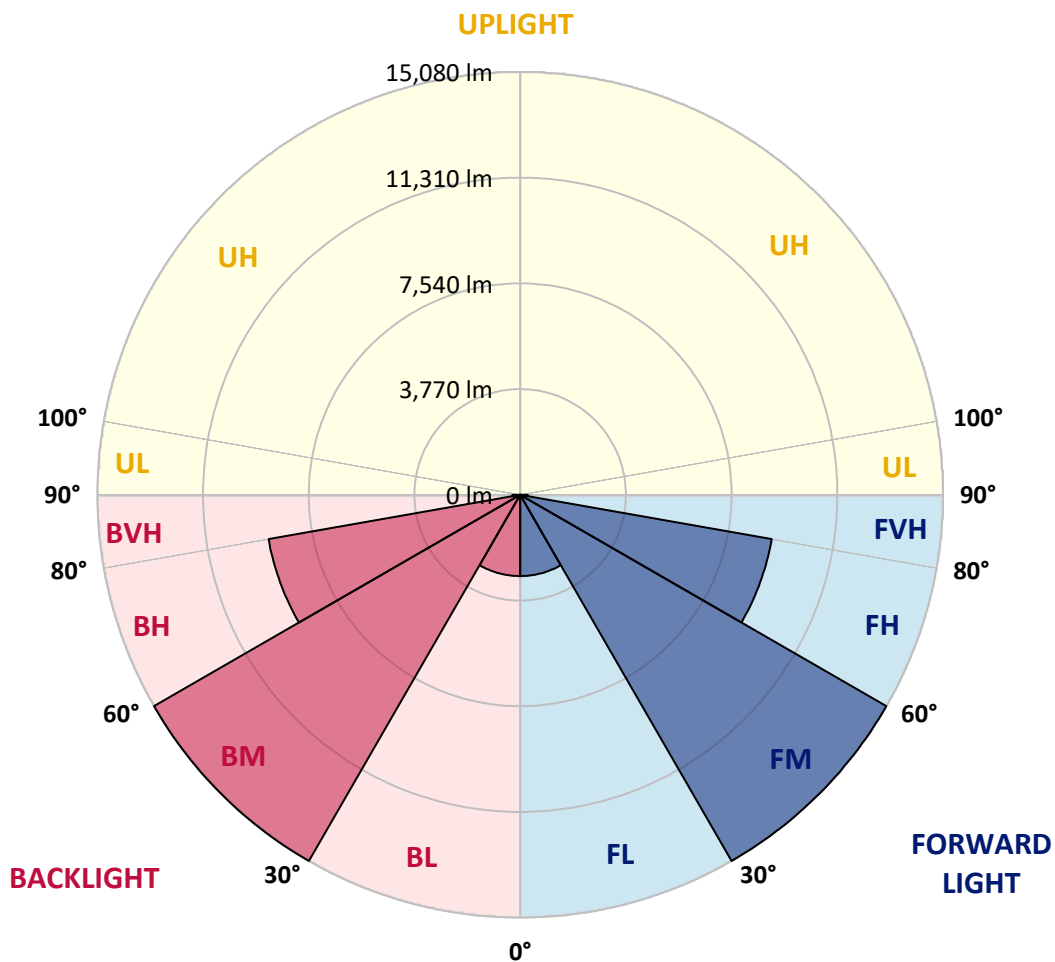
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2897.7	5.3			
FM	(30°-60°)	15079.9	27.6			
FH	(60°-80°)	9110.3	16.6			G4/12000
FVH	(80°-90°)	272.9	0.5			G3/500
BL	(0°-30°)	2897.7	5.3	B4/5000		
BM	(30°-60°)	15079.9	27.6	B5		
BH	(60°-80°)	9110.3	16.6	B5		G5
BVH	(80°-90°)	272.9	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°	6069.9	6069.9	6069.9	6069.9	6069.9	6069.9	6069.9	6069.9	6069.9	6069.9	6069.9
2.5°	6059.6	6054.4	6059.6	6057.0	6062.1	6062.1	6067.3	6077.7	6077.7	6085.4	6082.9
5°	6000.1	5997.5	6005.2	6013.0	6020.8	6036.3	6051.8	6075.1	6093.2	6106.1	6119.1
7.5°	5883.7	5883.7	5894.0	5912.1	5930.3	5963.9	6000.1	6046.7	6093.2	6132.0	6165.6
10°	5788.1	5793.2	5806.2	5837.2	5868.2	5919.9	5969.0	6036.3	6101.0	6165.6	6217.3
12.5°	5731.1	5738.9	5762.2	5808.7	5860.4	5930.3	6005.2	6090.6	6163.0	6240.6	6292.4
15°	5749.2	5754.4	5788.1	5844.9	5912.1	6000.1	6101.0	6201.8	6287.2	6369.9	6439.8
17.5°	5850.1	5857.8	5896.6	5961.2	6031.1	6134.5	6243.2	6357.0	6463.0	6556.1	6641.5
20°	6031.1	6038.9	6088.0	6157.9	6240.6	6346.7	6455.2	6574.2	6693.2	6791.5	6887.1
22.5°	6287.2	6300.0	6346.7	6416.5	6509.5	6623.4	6752.7	6879.4	6993.2	7083.7	7169.0
25°	6623.4	6651.8	6695.8	6773.4	6871.7	6975.1	7114.7	7244.0	7352.7	7438.1	7500.1
27.5°	7099.3	7138.0	7171.7	7246.7	7342.3	7440.6	7580.3	7694.1	7797.5	7880.3	7926.8
30°	7730.2	7769.1	7802.7	7875.1	7963.1	8056.1	8188.0	8288.9	8353.5	8418.3	8415.6
32.5°	8495.8	8537.2	8550.1	8627.7	8718.2	8819.1	8938.0	8994.9	9046.7	9054.4	9007.9
35°	9351.8	9372.6	9424.2	9527.8	9631.2	9713.9	9827.7	9856.1	9856.1	9817.4	9713.9
37.5°	10290.7	10303.6	10376.0	10492.4	10598.4	10683.8	10761.3	10818.2	10789.8	10707.0	10533.7
40°	11320.0	11343.3	11446.7	11550.1	11669.1	11749.3	11832.1	11842.4	11814.0	11692.4	11457.0
42.5°	12302.7	12323.5	12426.9	12589.9	12745.0	12856.2	12933.8	12949.3	12858.8	12747.6	12455.3
45°	13148.5	13202.8	13337.2	13528.6	13753.7	13911.4	14017.4	14061.4	13981.3	13836.4	13497.6
47.5°	13818.3	13872.6	14064.0	14291.5	14570.9	14827.0	15002.8	15095.9	15075.2	14966.6	14596.8
50°	14309.6	14361.4	14568.4	14847.6	15173.5	15491.6	15791.6	16014.0	16091.6	16042.4	15703.6
52.5°	14366.6	14451.9	14695.0	15070.0	15494.2	15928.7	16355.4	16733.0	16989.1	17027.8	16777.0
55°	13572.6	13657.9	13994.2	14550.2	15181.2	15889.9	16572.6	17208.9	17713.2	17971.8	17840.0
57.5°	11700.2	11852.7	12207.1	12858.8	13787.2	14847.6	15936.4	17066.6	18093.3	18778.7	18910.6
60°	8966.5	9147.5	9504.4	10197.6	11232.1	12496.8	13950.2	15620.9	17433.8	18975.2	19896.0
62.5°	5751.8	5922.5	6297.5	6900.1	7743.2	9113.9	10673.5	12657.1	15093.3	17526.9	19720.1
65°	2956.1	3049.2	3245.7	3610.4	4267.3	5291.4	6690.6	8669.1	11454.5	14457.1	17627.8
67.5°	1872.4	1890.5	1934.5	1986.3	2154.3	2508.7	3160.4	4394.0	6685.4	9817.4	13528.6
70°	1619.0	1619.0	1598.3	1590.6	1611.2	1660.4	1761.2	2048.3	2821.6	4660.5	7802.7
72.5°	1481.9	1466.4	1430.2	1401.7	1396.5	1396.5	1417.3	1461.2	1585.4	1898.3	3054.3
75°	1365.5	1321.6	1272.4	1238.8	1225.9	1212.9	1210.4	1218.1	1244.0	1293.1	1458.6
77.5°	1223.2	1166.4	1109.5	1075.8	1060.4	1042.3	1026.7	1008.6	995.7	1011.2	1083.6
80°	1052.6	988.0	944.0	923.3	907.8	881.9	848.3	817.2	788.8	783.7	827.6
82.5°	848.3	773.2	775.9	783.7	755.1	718.9	682.7	649.2	600.0	574.2	600.0
85°	685.4	646.6	628.5	677.6	636.2	581.9	525.0	465.5	387.9	325.9	354.4
87.5°	266.4	266.4	398.2	613.0	550.9	450.0	385.3	328.5	204.3	157.7	160.3
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°	6069.9	6069.9	6069.9	6069.9	6069.9	6069.9	6069.9	6069.9
2.5°	6080.2	6085.4	6082.9	6080.2	6080.2	6077.7	6080.2	6080.2
5°	6126.9	6139.8	6139.8	6144.9	6144.9	6147.5	6150.1	6147.5
7.5°	6196.6	6220.0	6235.4	6253.5	6256.2	6258.7	6263.8	6258.7
10°	6266.5	6313.0	6346.7	6380.2	6395.8	6400.9	6406.1	6406.1
12.5°	6354.4	6419.0	6478.6	6538.0	6566.4	6582.0	6582.0	6592.3
15°	6499.2	6563.9	6633.7	6713.9	6763.0	6788.9	6796.7	6796.7
17.5°	6703.5	6760.5	6819.9	6897.6	6959.5	6993.2	7001.0	6998.4
20°	6941.4	6995.8	7029.4	7078.5	7132.8	7171.7	7182.0	7182.0
22.5°	7213.0	7244.0	7249.2	7264.8	7308.7	7360.4	7383.8	7388.9
25°	7513.1	7520.8	7500.1	7500.1	7528.5	7577.7	7600.9	7603.6
27.5°	7901.0	7862.2	7810.4	7792.3	7810.4	7867.3	7895.9	7906.2
30°	8384.6	8291.5	8172.6	8107.9	8097.6	8172.6	8224.2	8232.0
32.5°	8938.0	8803.6	8645.8	8513.9	8480.3	8526.8	8588.9	8586.3
35°	9595.0	9434.6	9243.3	9075.1	8997.6	9044.1	9132.0	9142.4
37.5°	10352.8	10143.3	9923.4	9711.4	9589.8	9602.7	9695.8	9726.8
40°	11198.4	10926.9	10650.1	10365.7	10192.4	10158.7	10272.6	10290.7
42.5°	12103.7	11754.5	11405.3	11053.6	10831.2	10779.4	10911.4	10903.6
45°	13068.3	12623.4	12214.9	11826.8	11563.1	11485.5	11594.1	11594.1
47.5°	14105.4	13557.1	13070.9	12631.2	12344.2	12233.0	12336.4	12344.2
50°	15204.5	14622.7	14051.0	13562.3	13218.3	13076.1	13210.5	13231.3
52.5°	16298.5	15732.2	15155.4	14596.8	14180.3	14007.1	14162.2	14229.6
55°	17408.0	16852.0	16301.1	15755.4	15261.4	15057.1	15222.6	15307.9
57.5°	18579.5	18064.9	17539.9	16989.1	16513.2	16195.1	16370.9	16484.8
60°	19952.9	19513.2	18967.6	18359.7	17878.7	17555.5	17656.3	17757.2
62.5°	21039.1	21209.8	20746.9	20043.4	19425.3	19011.4	19109.7	19215.8
65°	20514.1	22264.9	22676.2	21965.0	21108.9	20464.9	20423.5	20477.8
67.5°	17146.8	20547.7	23028.0	23705.6	22989.1	22094.3	21928.8	22008.9
70°	11470.0	15706.3	20082.2	23340.9	24207.2	23860.7	23697.8	23746.9
72.5°	5508.7	9147.5	13624.4	17956.3	20594.3	21804.6	22192.6	22381.3
75°	2014.7	3631.1	6566.4	9895.0	11945.8	13828.7	15057.1	15558.9
77.5°	1215.6	1466.4	2097.5	3157.8	3576.7	4003.5	3838.0	3920.8
80°	900.0	1016.4	1150.9	1293.1	1339.7	1339.7	1288.0	1246.6
82.5°	631.1	706.0	770.7	848.3	869.0	830.2	682.7	543.1
85°	406.0	439.7	468.1	517.2	504.3	481.0	323.3	287.0
87.5°	186.2	212.1	222.4	245.7	235.4	225.0	160.3	134.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)