

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: P191817

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191817
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54396 lumens
Efficiency: N/A
Efficacy: 108.6 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

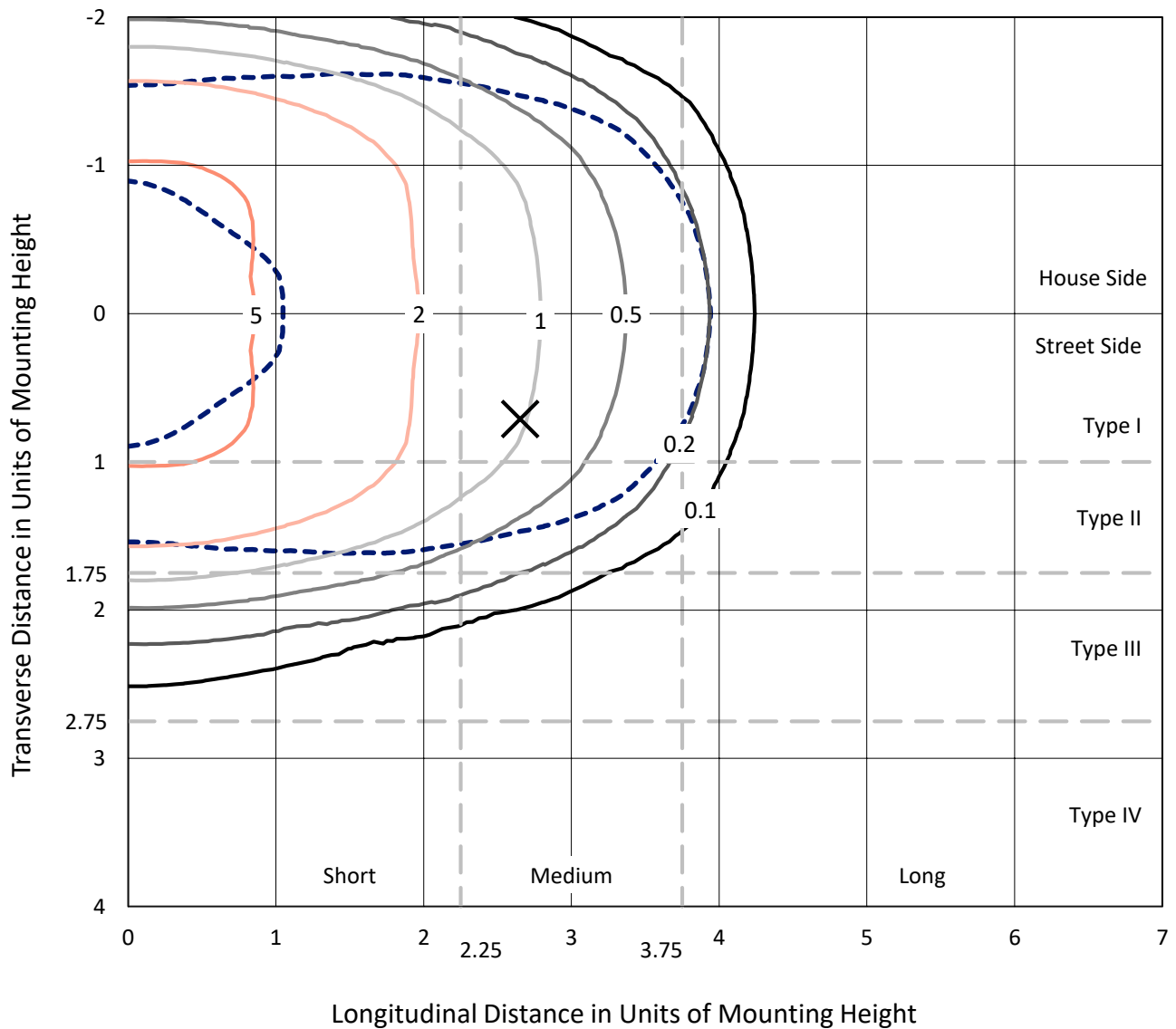
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

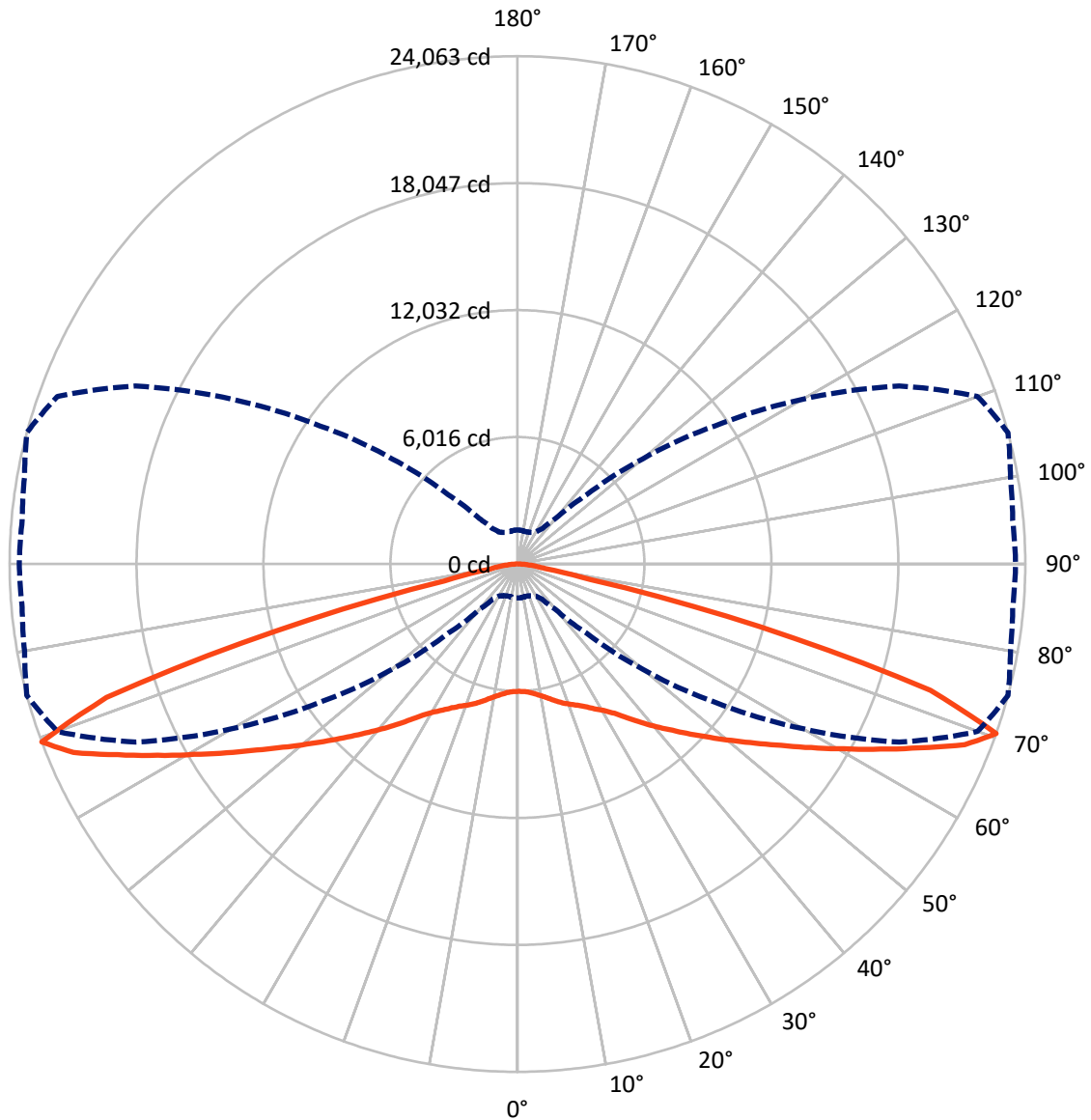
× Max cd
 - - - 1/2 Max cd



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	27198.0	0.0	27198.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27198.0	0.0	27198.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	54396.0	0.0	54396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.7	1.1
10°-20°	1798.1	3.3
20°-30°	3384.2	6.2
30°-40°	5992.8	11.0
40°-50°	10021.9	18.4
50°-60°	13965.6	25.7
60°-70°	12950.8	23.8
70°-80°	5161.3	9.5
80°-90°	542.5	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°	54396.0	100.0
0°-180°	54396.0	100.0

Coefficient of Utilization



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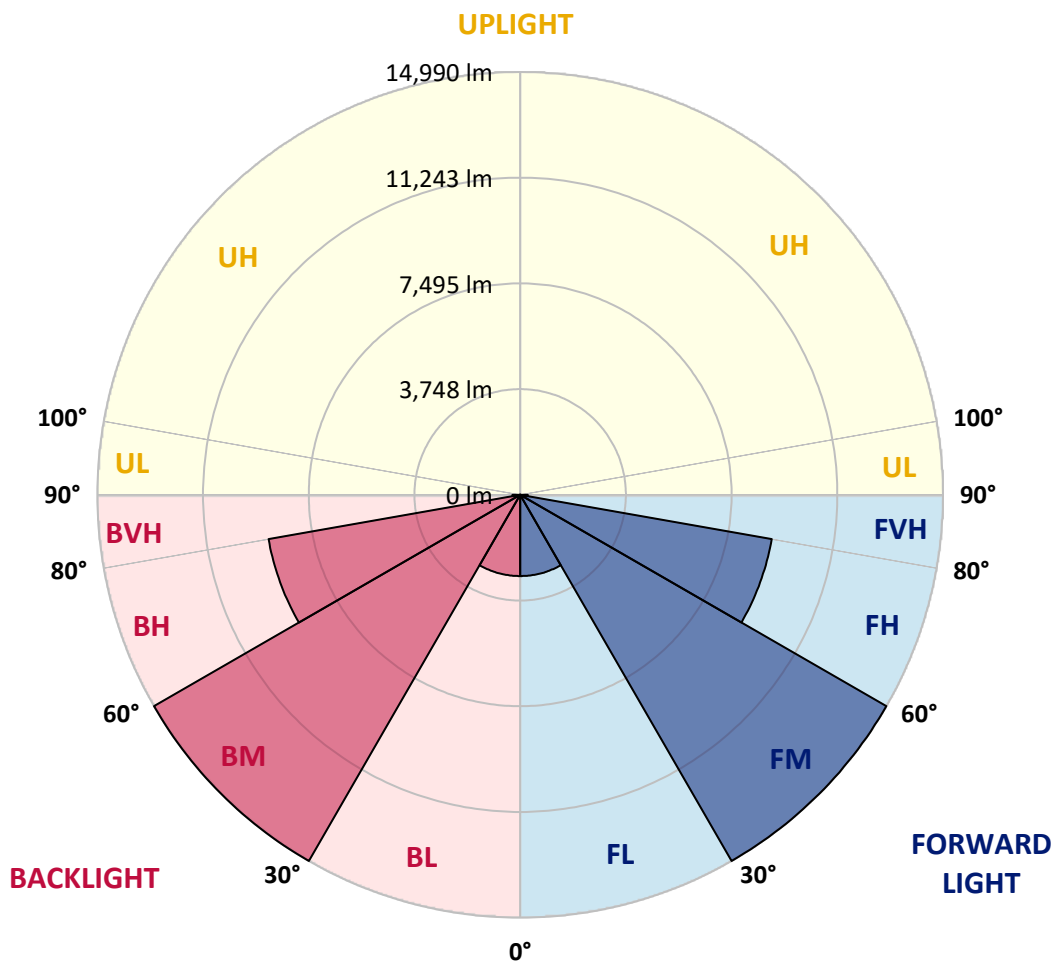
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2880.5	5.3			
FM	(30°-60°)	14990.2	27.6			
FH	(60°-80°)	9056.1	16.6			G4/12000
FVH	(80°-90°)	271.3	0.5			G3/500
BL	(0°-30°)	2880.5	5.3	B4/5000		
BM	(30°-60°)	14990.2	27.6	B5		
BH	(60°-80°)	9056.1	16.6	B5		G5
BVH	(80°-90°)	271.3	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°	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8
2.5°	6023.5	6018.4	6023.5	6020.9	6026.1	6026.1	6031.2	6041.5	6041.5	6049.2	6046.6
5°	5964.4	5961.8	5969.5	5977.2	5984.9	6000.4	6015.8	6038.9	6056.9	6069.8	6082.6
7.5°	5848.7	5848.7	5859.0	5877.0	5895.0	5928.4	5964.4	6010.6	6056.9	6095.5	6128.9
10°	5753.6	5758.7	5771.6	5802.4	5833.3	5884.7	5933.5	6000.4	6064.6	6128.9	6180.3
12.5°	5697.0	5704.7	5727.9	5774.1	5825.5	5895.0	5969.5	6054.4	6126.3	6203.5	6254.9
15°	5715.0	5720.1	5753.6	5810.1	5877.0	5964.4	6064.6	6164.9	6249.7	6332.0	6401.4
17.5°	5815.3	5823.0	5861.5	5925.8	5995.2	6098.1	6206.0	6319.1	6424.6	6517.1	6601.9
20°	5995.2	6002.9	6051.8	6121.2	6203.5	6308.9	6416.8	6535.1	6653.4	6751.1	6846.2
22.5°	6249.7	6262.6	6308.9	6378.3	6470.8	6583.9	6712.5	6838.5	6951.6	7041.6	7126.4
25°	6583.9	6612.2	6655.9	6733.1	6830.7	6933.6	7072.4	7200.9	7308.9	7393.8	7455.5
27.5°	7057.0	7095.5	7129.0	7203.5	7298.6	7396.3	7535.2	7648.3	7751.1	7833.4	7879.7
30°	7684.3	7722.8	7756.3	7828.2	7915.6	8008.2	8139.3	8239.6	8303.8	8368.1	8365.5
32.5°	8445.2	8486.4	8499.2	8576.4	8666.3	8766.6	8884.9	8941.4	8992.8	9000.5	8954.3
35°	9296.2	9316.8	9368.2	9471.0	9573.8	9656.1	9769.2	9797.5	9797.5	9758.9	9656.1
37.5°	10229.4	10242.3	10314.2	10429.9	10535.3	10620.2	10697.3	10753.9	10725.6	10643.3	10471.1
40°	11252.6	11275.7	11378.6	11481.4	11599.7	11679.4	11761.6	11771.9	11743.6	11622.8	11388.9
42.5°	12229.5	12250.1	12352.9	12514.9	12669.1	12779.7	12856.8	12872.2	12782.3	12671.7	12381.2
45°	13070.2	13124.2	13257.9	13448.1	13671.8	13828.6	13934.0	13977.7	13898.0	13754.0	13417.3
47.5°	13736.0	13790.0	13980.3	14206.5	14484.2	14738.7	14913.5	15006.0	14985.5	14877.5	14509.9
50°	14224.5	14275.9	14481.6	14759.2	15083.2	15399.4	15697.6	15918.7	15995.8	15947.0	15610.2
52.5°	14281.1	14365.9	14607.6	14980.3	15402.0	15833.9	16258.1	16633.4	16887.9	16926.5	16677.1
55°	13491.8	13576.7	13910.9	14463.6	15090.9	15795.3	16474.0	17106.4	17607.7	17864.8	17733.7
57.5°	11630.5	11782.2	12134.4	12782.3	13705.2	14759.2	15841.6	16965.0	17985.7	18666.9	18798.1
60°	8913.1	9093.1	9447.9	10136.9	11165.2	12422.3	13867.2	15527.9	17330.1	18862.3	19777.5
62.5°	5717.6	5887.2	6260.0	6859.0	7697.1	9059.7	10609.9	12581.7	15003.5	17422.6	19602.7
65°	2938.5	3031.0	3226.4	3588.9	4241.9	5260.0	6650.8	8617.5	11386.3	14371.0	17522.9
67.5°	1861.3	1879.3	1923.0	1974.4	2141.5	2493.7	3141.6	4367.9	6645.6	9758.9	13448.1
70°	1609.4	1609.4	1588.8	1581.1	1601.6	1650.5	1750.7	2036.1	2804.8	4632.7	7756.3
72.5°	1473.1	1457.7	1421.7	1393.4	1388.3	1388.3	1408.8	1452.5	1575.9	1887.0	3036.2
75°	1357.4	1313.7	1264.9	1231.4	1218.6	1205.7	1203.2	1210.9	1236.6	1285.4	1450.0
77.5°	1216.0	1159.5	1102.9	1069.5	1054.0	1036.1	1020.6	1002.6	989.8	1005.2	1077.2
80°	1046.3	982.1	938.4	917.8	902.4	876.7	843.2	812.4	784.1	779.0	822.7
82.5°	843.2	768.7	771.3	779.0	750.7	714.7	678.7	645.3	596.4	570.7	596.4
85°	681.3	642.7	624.7	673.6	632.4	578.4	521.9	462.8	385.6	323.9	352.2
87.5°	264.8	264.8	395.9	609.3	547.6	447.3	383.1	326.5	203.1	156.8	159.4
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°	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8	6033.8
2.5°	6044.1	6049.2	6046.6	6044.1	6044.1	6041.5	6044.1	6044.1
5°	6090.3	6103.2	6103.2	6108.3	6108.3	6110.9	6113.5	6110.9
7.5°	6159.8	6182.9	6198.3	6216.3	6218.9	6221.5	6226.6	6221.5
10°	6229.2	6275.4	6308.9	6342.3	6357.7	6362.9	6368.0	6368.0
12.5°	6316.6	6380.8	6440.0	6499.1	6527.4	6542.8	6542.8	6553.1
15°	6460.5	6524.8	6594.2	6673.9	6722.8	6748.5	6756.2	6756.2
17.5°	6663.6	6720.2	6779.3	6856.5	6918.2	6951.6	6959.3	6956.7
20°	6900.2	6954.1	6987.6	7036.4	7090.4	7129.0	7139.2	7139.2
22.5°	7170.1	7200.9	7206.1	7221.5	7265.2	7316.6	7339.8	7344.9
25°	7468.3	7476.0	7455.5	7455.5	7483.7	7532.6	7555.7	7558.3
27.5°	7853.9	7815.4	7764.0	7746.0	7764.0	7820.5	7848.8	7859.1
30°	8334.7	8242.1	8123.9	8059.6	8049.3	8123.9	8175.3	8183.0
32.5°	8884.9	8751.2	8594.4	8463.2	8429.8	8476.1	8537.8	8535.2
35°	9537.9	9378.5	9188.2	9021.1	8944.0	8990.3	9077.7	9088.0
37.5°	10291.1	10082.9	9864.3	9653.5	9532.7	9545.6	9638.1	9669.0
40°	11131.8	10861.8	10586.8	10304.0	10131.7	10098.3	10211.4	10229.4
42.5°	12031.6	11684.5	11337.4	10987.8	10766.7	10715.3	10846.4	10838.7
45°	12990.5	12548.3	12142.1	11756.5	11494.3	11417.1	11525.1	11525.1
47.5°	14021.4	13476.4	12993.1	12556.0	12270.7	12160.1	12263.0	12270.7
50°	15114.0	14535.6	13967.4	13481.5	13139.6	12998.2	13131.9	13152.5
52.5°	16201.5	15638.5	15065.2	14509.9	14096.0	13923.7	14078.0	14144.8
55°	17304.4	16751.7	16204.1	15661.6	15170.6	14967.5	15132.0	15216.9
57.5°	18469.0	17957.4	17435.5	16887.9	16414.9	16098.7	16273.5	16386.6
60°	19834.1	19397.1	18854.6	18250.5	17772.3	17450.9	17551.2	17651.5
62.5°	20913.9	21083.5	20623.4	19924.1	19309.7	18898.3	18996.0	19101.4
65°	20392.0	22132.4	22541.2	21834.2	20983.3	20343.1	20302.0	20356.0
67.5°	17044.7	20425.4	22890.8	23564.4	22852.3	21962.8	21798.2	21877.9
70°	11401.7	15612.8	19962.6	23201.9	24063.2	23718.7	23556.7	23605.5
72.5°	5475.9	9093.1	13543.2	17849.4	20471.7	21674.8	22060.5	22248.1
75°	2002.7	3609.5	6527.4	9836.1	11874.8	13746.3	14967.5	15466.2
77.5°	1208.3	1457.7	2085.0	3139.0	3555.5	3979.7	3815.1	3897.4
80°	894.7	1010.3	1144.0	1285.4	1331.7	1331.7	1280.3	1239.1
82.5°	627.3	701.8	766.1	843.2	863.8	825.2	678.7	539.9
85°	403.6	437.0	465.3	514.2	501.3	478.2	321.4	285.4
87.5°	185.1	210.8	221.1	244.2	233.9	223.7	159.4	133.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)