

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: P300584

Luminaire Tested: **GLNA-AF-09-LED-E1-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300584
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: GLNA-AF-09-LED-E1-RW-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND
Rectangular Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52436.4 lumens
Efficiency: N/A
Efficacy: 104.7 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

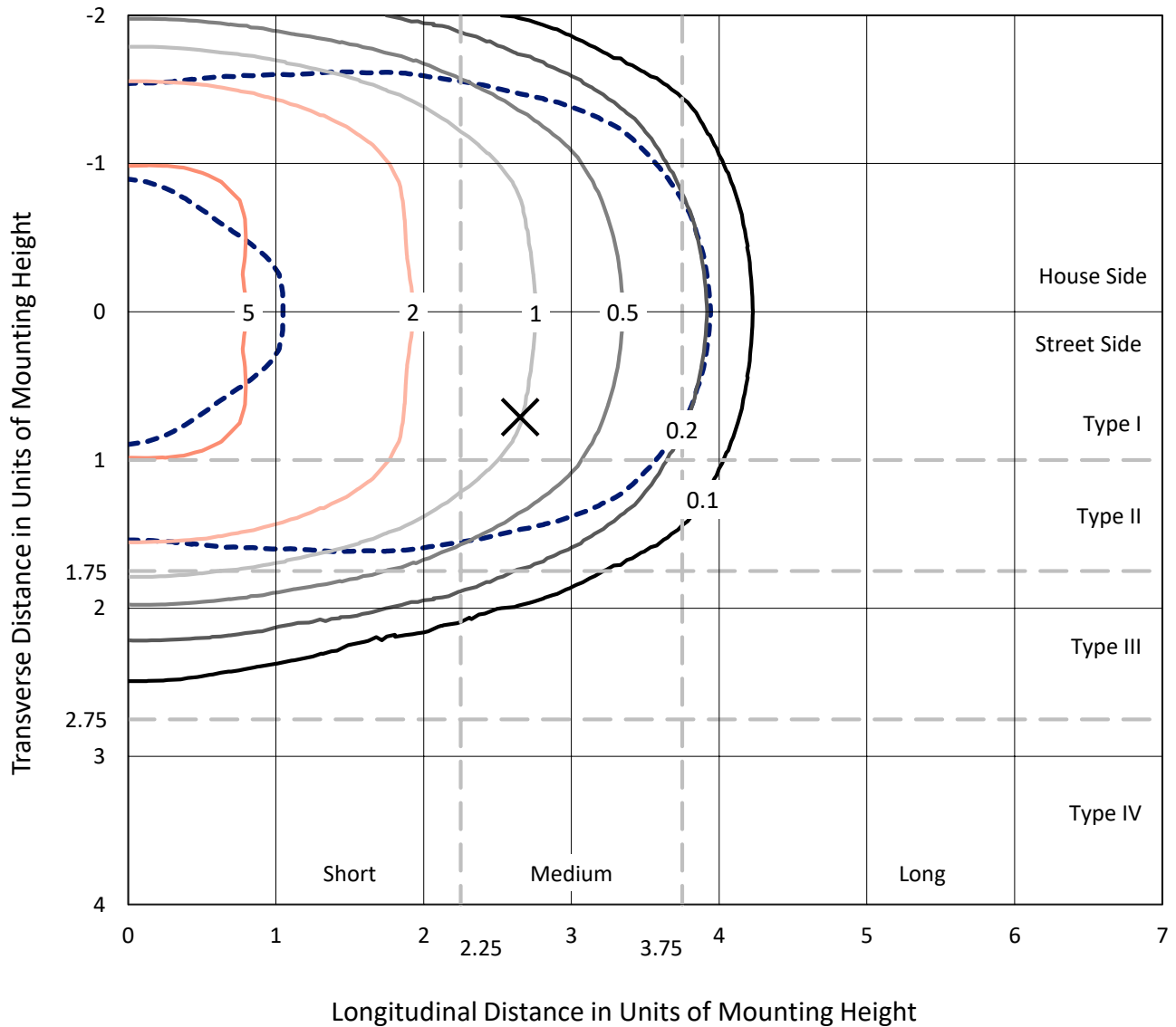
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

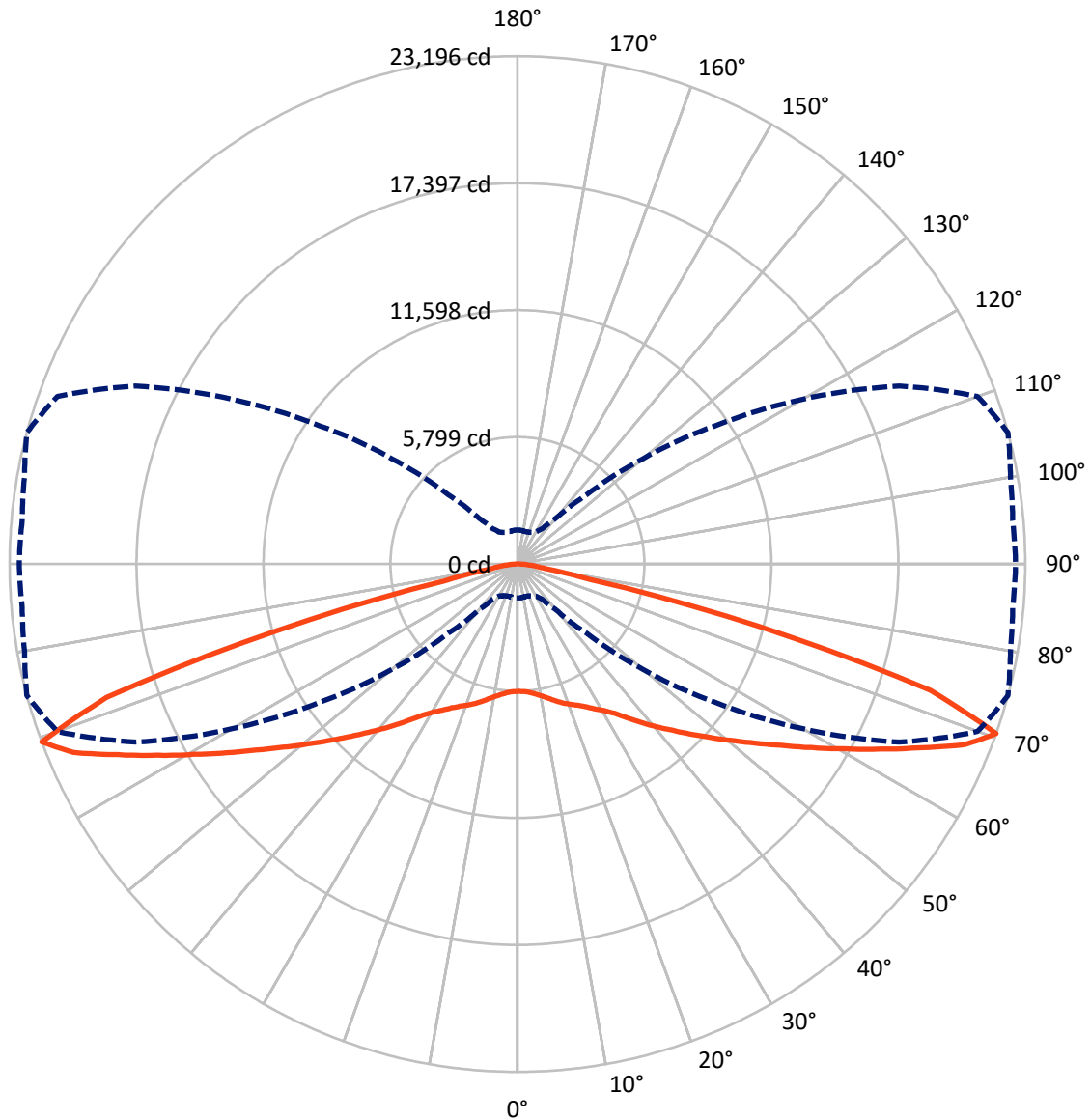
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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	26218.2	0.0	26218.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26218.2	0.0	26218.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	52436.4	0.0	52436.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.8	1.1
10°-20°	1733.3	3.3
20°-30°	3262.3	6.2
30°-40°	5776.9	11.0
40°-50°	9660.9	18.4
50°-60°	13462.5	25.7
60°-70°	12484.3	23.8
70°-80°	4975.4	9.5
80°-90°	523.0	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°	52436.4	100.0
0°-180°	52436.4	100.0

Coefficient of Utilization



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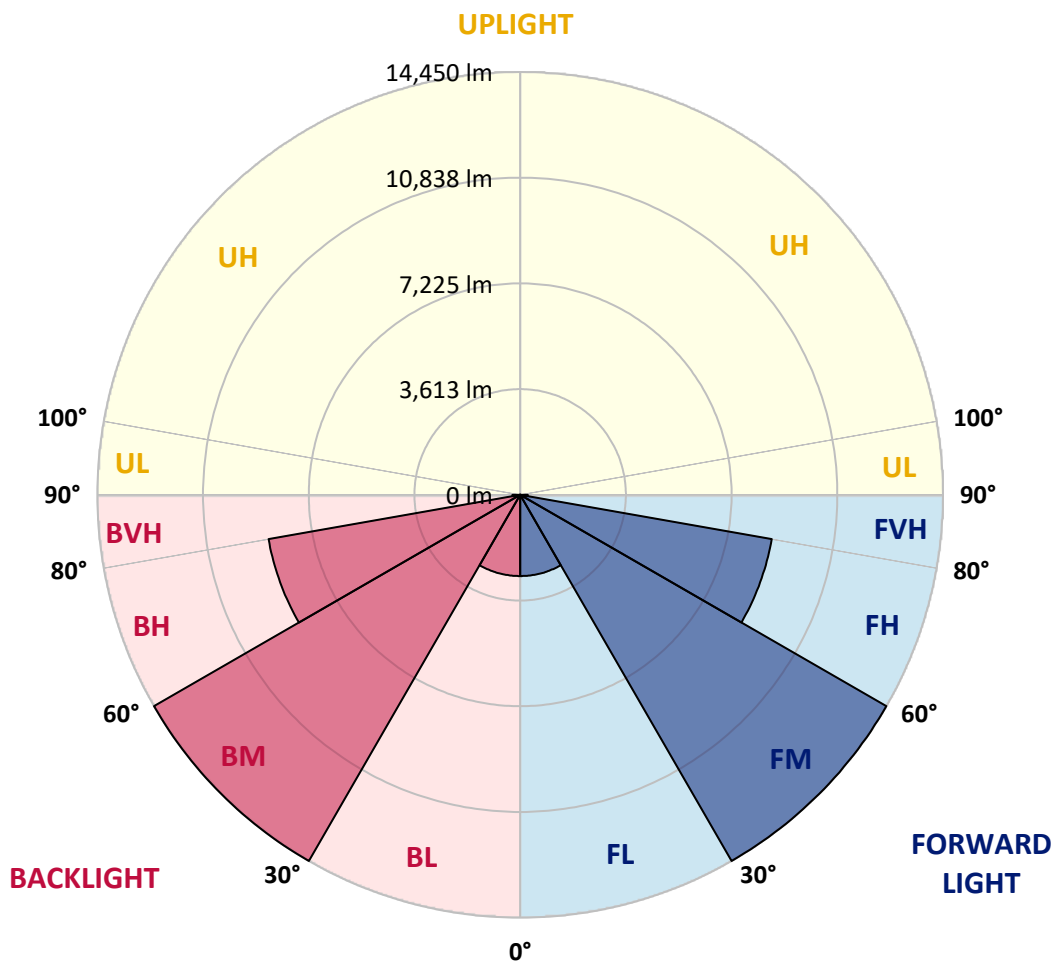
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2776.7	5.3			
FM	(30°-60°)	14450.2	27.6			
FH	(60°-80°)	8729.8	16.6			G4/12000
FVH	(80°-90°)	261.5	0.5			G3/500
BL	(0°-30°)	2776.7	5.3	B4/5000		
BM	(30°-60°)	14450.2	27.6	B5		
BH	(60°-80°)	8729.8	16.6	B5		G5
BVH	(80°-90°)	261.5	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°	5816.4	5816.4	5816.4	5816.4	5816.4	5816.4	5816.4	5816.4	5816.4	5816.4	5816.4
2.5°	5806.5	5801.5	5806.5	5804.0	5809.0	5809.0	5813.9	5823.9	5823.9	5831.3	5828.8
5°	5749.5	5747.0	5754.5	5761.9	5769.3	5784.2	5799.1	5821.4	5838.7	5851.1	5863.5
7.5°	5638.0	5638.0	5647.9	5665.2	5682.6	5714.8	5749.5	5794.1	5838.7	5875.9	5908.1
10°	5546.3	5551.2	5563.6	5593.4	5623.1	5672.7	5719.8	5784.2	5846.2	5908.1	5957.7
12.5°	5491.8	5499.2	5521.5	5566.1	5615.7	5682.6	5754.5	5836.2	5905.6	5980.0	6029.5
15°	5509.1	5514.1	5546.3	5600.8	5665.2	5749.5	5846.2	5942.8	6024.6	6103.9	6170.8
17.5°	5605.8	5613.2	5650.4	5712.3	5779.2	5878.4	5982.5	6091.5	6193.1	6282.3	6364.1
20°	5779.2	5786.7	5833.8	5900.7	5980.0	6081.6	6185.7	6299.7	6413.7	6507.8	6599.5
22.5°	6024.6	6037.0	6081.6	6148.5	6237.7	6346.8	6470.7	6592.1	6701.1	6787.9	6869.7
25°	6346.8	6374.0	6416.1	6490.5	6584.7	6683.8	6817.6	6941.5	7045.6	7127.4	7186.9
27.5°	6802.8	6839.9	6872.1	6944.0	7035.7	7129.9	7263.7	7372.7	7471.9	7551.2	7595.8
30°	7407.4	7444.6	7476.8	7546.2	7630.5	7719.7	7846.1	7942.7	8004.7	8066.7	8064.2
32.5°	8141.0	8180.7	8193.0	8267.4	8354.1	8450.8	8564.8	8619.3	8668.9	8676.3	8631.7
35°	8961.3	8981.1	9030.7	9129.8	9228.9	9308.2	9417.3	9444.6	9444.6	9407.4	9308.2
37.5°	9860.9	9873.3	9942.7	10054.2	10155.8	10237.6	10311.9	10366.5	10339.2	10259.9	10093.8
40°	10847.2	10869.5	10968.7	11067.8	11181.8	11258.6	11337.9	11347.8	11320.6	11204.1	10978.6
42.5°	11789.0	11808.8	11907.9	12064.0	12212.7	12319.3	12393.7	12408.5	12321.8	12215.2	11935.2
45°	12599.3	12651.4	12780.3	12963.6	13179.3	13330.4	13432.0	13474.2	13397.3	13258.6	12933.9
47.5°	13241.2	13293.3	13476.6	13694.7	13962.4	14207.7	14376.2	14465.5	14445.6	14341.5	13987.2
50°	13712.1	13761.6	13959.9	14227.5	14539.8	14844.6	15132.1	15345.2	15419.6	15372.5	15047.8
52.5°	13766.6	13848.4	14081.3	14440.7	14847.1	15263.4	15672.4	16034.2	16279.5	16316.7	16076.3
55°	13005.8	13087.6	13409.7	13942.5	14547.2	15226.3	15880.5	16490.2	16973.4	17221.3	17094.9
57.5°	11211.5	11357.7	11697.3	12321.8	13211.5	14227.5	15270.9	16353.9	17337.7	17994.5	18120.9
60°	8592.0	8765.5	9107.5	9771.7	10763.0	11974.8	13367.6	14968.5	16705.8	18182.8	19065.1
62.5°	5511.6	5675.2	6034.5	6611.9	7419.8	8733.3	10227.7	12128.5	14463.0	16795.0	18896.5
65°	2832.6	2921.8	3110.2	3459.6	4089.1	5070.5	6411.2	8307.0	10976.1	13853.3	16891.6
67.5°	1794.2	1811.6	1853.7	1903.3	2064.4	2403.9	3028.4	4210.5	6406.2	9407.4	12963.6
70°	1551.4	1551.4	1531.5	1524.1	1543.9	1591.0	1687.7	1962.8	2703.8	4465.8	7476.8
72.5°	1420.0	1405.2	1370.5	1343.2	1338.2	1338.2	1358.1	1400.2	1519.2	1819.0	2926.8
75°	1308.5	1266.4	1219.3	1187.1	1174.7	1162.3	1159.8	1167.2	1192.0	1239.1	1397.7
77.5°	1172.2	1117.7	1063.2	1030.9	1016.1	998.7	983.9	966.5	954.1	969.0	1038.4
80°	1008.6	946.7	904.6	884.7	869.9	845.1	812.9	783.1	755.9	750.9	793.0
82.5°	812.9	741.0	743.5	750.9	723.6	688.9	654.3	622.0	575.0	550.2	575.0
85°	656.7	619.6	602.2	649.3	609.6	557.6	503.1	446.1	371.7	312.3	339.5
87.5°	255.3	255.3	381.6	587.3	527.9	431.2	369.3	314.7	195.8	151.2	153.7
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°	5816.4	5816.4	5816.4	5816.4	5816.4	5816.4	5816.4	5816.4
2.5°	5826.3	5831.3	5828.8	5826.3	5826.3	5823.9	5826.3	5826.3
5°	5870.9	5883.3	5883.3	5888.3	5888.3	5890.8	5893.2	5890.8
7.5°	5937.9	5960.2	5975.0	5992.4	5994.8	5997.3	6002.3	5997.3
10°	6004.8	6049.4	6081.6	6113.8	6128.7	6133.6	6138.6	6138.6
12.5°	6089.0	6151.0	6208.0	6265.0	6292.2	6307.1	6307.1	6317.0
15°	6227.8	6289.8	6356.7	6433.5	6480.6	6505.4	6512.8	6512.8
17.5°	6423.6	6478.1	6535.1	6609.5	6668.9	6701.1	6708.6	6706.1
20°	6651.6	6703.6	6735.8	6782.9	6835.0	6872.1	6882.1	6882.1
22.5°	6911.8	6941.5	6946.5	6961.4	7003.5	7053.1	7075.4	7080.3
25°	7199.3	7206.7	7186.9	7186.9	7214.1	7261.2	7283.5	7286.0
27.5°	7571.0	7533.8	7484.3	7466.9	7484.3	7538.8	7566.1	7576.0
30°	8034.4	7945.2	7831.2	7769.3	7759.4	7831.2	7880.8	7888.2
32.5°	8564.8	8435.9	8284.7	8158.3	8126.1	8170.7	8230.2	8227.7
35°	9194.3	9040.6	8857.2	8696.1	8621.8	8666.4	8750.6	8760.6
37.5°	9920.4	9719.6	9509.0	9305.8	9189.3	9201.7	9290.9	9320.6
40°	10730.8	10470.5	10205.4	9932.8	9766.7	9734.5	9843.5	9860.9
42.5°	11598.1	11263.6	10929.0	10592.0	10378.8	10329.3	10455.7	10448.2
45°	12522.5	12096.3	11704.7	11333.0	11080.2	11005.8	11109.9	11109.9
47.5°	13516.3	12990.9	12525.0	12103.7	11828.6	11722.0	11821.2	11828.6
50°	14569.5	14011.9	13464.2	12995.9	12666.3	12530.0	12658.8	12678.6
52.5°	15617.8	15075.1	14522.5	13987.2	13588.2	13422.1	13570.8	13635.2
55°	16681.0	16148.2	15620.3	15097.4	14624.1	14428.3	14586.9	14668.7
57.5°	17803.6	17310.5	16807.4	16279.5	15823.5	15518.7	15687.2	15796.3
60°	19119.6	18698.3	18175.4	17593.0	17132.0	16822.3	16918.9	17015.6
62.5°	20160.4	20324.0	19880.4	19206.3	18614.0	18217.5	18311.7	18413.3
65°	19657.4	21335.1	21729.2	21047.6	20227.4	19610.3	19570.6	19622.7
67.5°	16430.7	19689.6	22066.2	22715.5	22029.0	21171.6	21013.0	21089.8
70°	10991.0	15050.3	19243.5	22366.1	23196.3	22864.2	22708.1	22755.2
72.5°	5278.6	8765.5	13055.3	17206.4	19734.2	20894.0	21265.7	21446.6
75°	1930.5	3479.4	6292.2	9481.7	11447.0	13251.1	14428.3	14909.1
77.5°	1164.8	1405.2	2009.8	3025.9	3427.4	3836.3	3677.7	3757.0
80°	862.4	973.9	1102.8	1239.1	1283.7	1283.7	1234.2	1194.5
82.5°	604.7	676.6	738.5	812.9	832.7	795.5	654.3	520.4
85°	389.1	421.3	448.6	495.6	483.3	461.0	309.8	275.1
87.5°	178.4	203.2	213.1	235.4	225.5	215.6	153.7	128.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)