

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: P300580

Luminaire Tested: **GLNA-AF-08-LED-E1-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300580
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-08-LED-E1-RW
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K 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: 48597.2 lumens
Efficiency: N/A
Efficacy: 109.2 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): 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

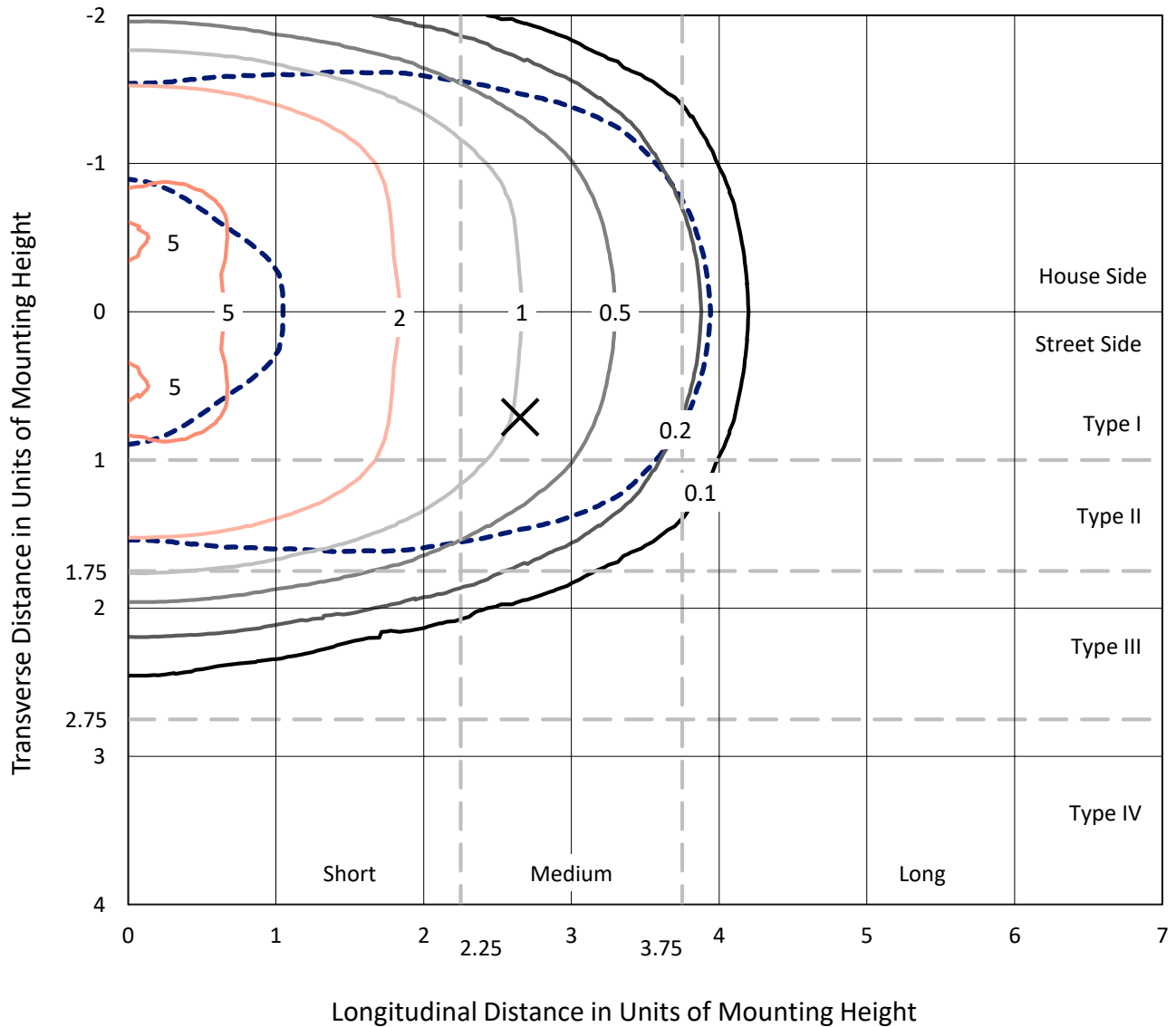


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

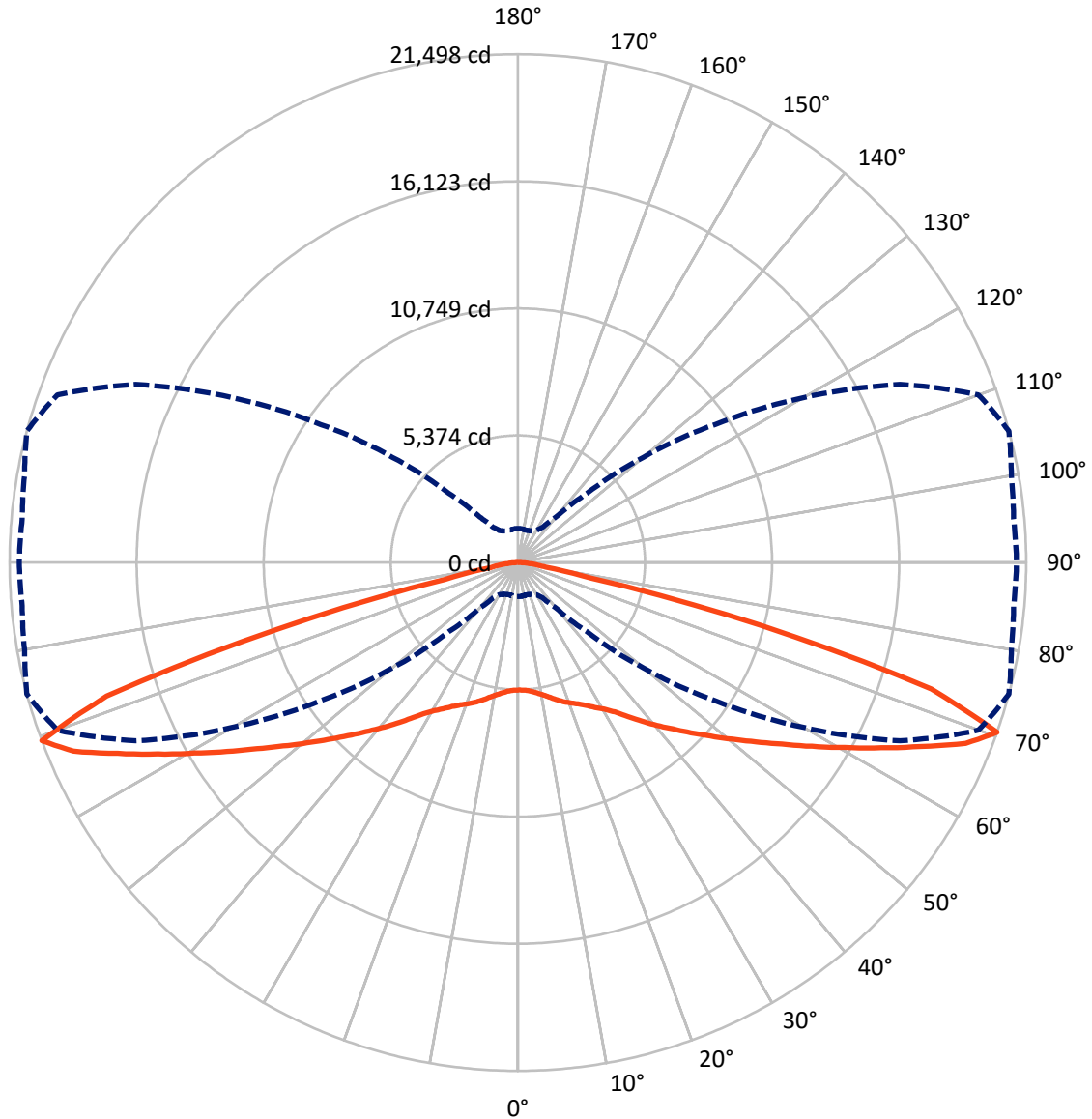


Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - Full Cutoff

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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	24298.6	0.0	24298.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24298.6	0.0	24298.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	48597.2	0.0	48597.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.0	1.1
10°-20°	1606.4	3.3
20°-30°	3023.5	6.2
30°-40°	5354.0	11.0
40°-50°	8953.6	18.4
50°-60°	12476.8	25.7
60°-70°	11570.2	23.8
70°-80°	4611.1	9.5
80°-90°	484.7	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°	48597.2	100.0
0°-180°	48597.2	100.0



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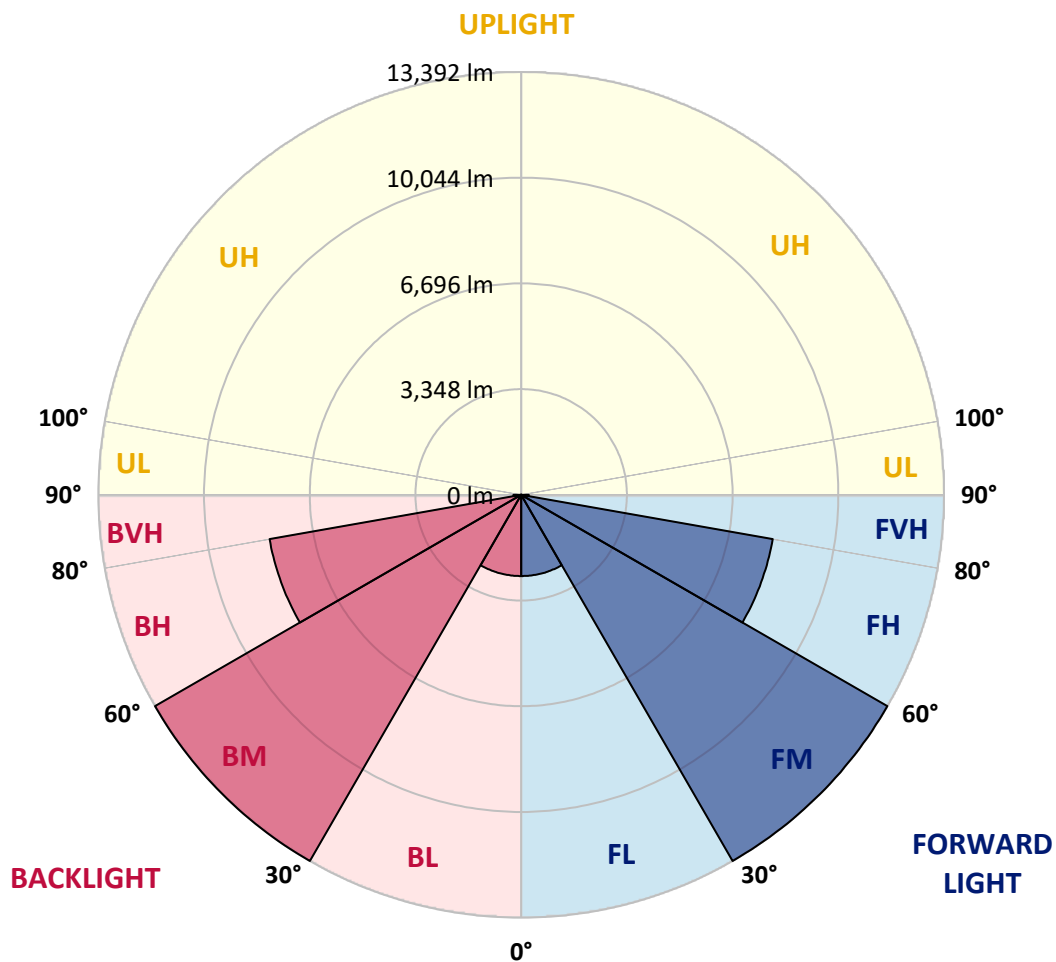
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2573.4	5.3			
FM	(30°-60°)	13392.2	27.6			
FH	(60°-80°)	8090.7	16.6			G4/12000
FVH	(80°-90°)	242.3	0.5			G3/500
BL	(0°-30°)	2573.4	5.3	B4/5000		
BM	(30°-60°)	13392.2	27.6	B5		
BH	(60°-80°)	8090.7	16.6	B5		G5
BVH	(80°-90°)	242.3	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°	5390.6	5390.6	5390.6	5390.6	5390.6	5390.6	5390.6	5390.6	5390.6	5390.6	5390.6
2.5°	5381.4	5376.8	5381.4	5379.1	5383.7	5383.7	5388.3	5397.5	5397.5	5404.3	5402.0
5°	5328.6	5326.3	5333.1	5340.0	5346.9	5360.7	5374.5	5395.2	5411.2	5422.7	5434.2
7.5°	5225.2	5225.2	5234.4	5250.5	5266.5	5296.4	5328.6	5369.9	5411.2	5445.7	5475.5
10°	5140.2	5144.8	5156.3	5183.9	5211.4	5257.3	5301.0	5360.7	5418.1	5475.5	5521.5
12.5°	5089.7	5096.6	5117.2	5158.6	5204.5	5266.5	5333.1	5408.9	5473.2	5542.2	5588.1
15°	5105.8	5110.4	5140.2	5190.7	5250.5	5328.6	5418.1	5507.7	5583.5	5657.0	5719.0
17.5°	5195.3	5202.2	5236.7	5294.1	5356.1	5448.0	5544.4	5645.5	5739.7	5822.4	5898.2
20°	5356.1	5363.0	5406.6	5468.7	5542.2	5636.3	5732.8	5838.4	5944.1	6031.4	6116.3
22.5°	5583.5	5595.0	5636.3	5698.3	5781.0	5882.1	5996.9	6109.5	6210.5	6290.9	6366.7
25°	5882.1	5907.3	5946.4	6015.3	6102.6	6194.4	6318.5	6433.3	6529.8	6605.6	6660.7
27.5°	6304.7	6339.1	6369.0	6435.6	6520.6	6607.9	6731.9	6832.9	6924.8	6998.3	7039.7
30°	6865.1	6899.6	6929.4	6993.7	7071.8	7154.5	7271.6	7361.2	7418.6	7476.0	7473.8
32.5°	7545.0	7581.7	7593.2	7662.1	7742.5	7832.1	7937.7	7988.2	8034.2	8041.1	7999.7
35°	8305.2	8323.6	8369.5	8461.4	8553.2	8626.7	8727.8	8753.1	8753.1	8718.6	8626.7
37.5°	9138.9	9150.4	9214.7	9318.1	9412.2	9488.0	9556.9	9607.5	9582.2	9508.7	9354.8
40°	10053.0	10073.7	10165.6	10257.5	10363.1	10434.3	10507.8	10517.0	10491.7	10383.8	10174.8
42.5°	10925.8	10944.2	11036.1	11180.8	11318.6	11417.3	11486.2	11500.0	11419.6	11320.9	11061.3
45°	11676.9	11725.1	11844.5	12014.5	12214.3	12354.4	12448.6	12487.6	12416.4	12287.8	11986.9
47.5°	12271.7	12320.0	12489.9	12692.1	12940.1	13167.5	13323.7	13406.4	13388.0	13291.5	12963.1
50°	12708.1	12754.1	12937.8	13185.9	13475.3	13757.8	14024.2	14221.7	14290.6	14247.0	13946.1
52.5°	12758.7	12834.5	13050.4	13383.4	13760.1	14145.9	14524.9	14860.2	15087.6	15122.1	14899.3
55°	12053.5	12129.3	12427.9	12921.7	13482.2	14111.5	14717.8	15282.8	15730.7	15960.4	15843.3
57.5°	10390.7	10526.2	10840.8	11419.6	12244.2	13185.9	14152.8	15156.5	16068.3	16677.0	16794.1
60°	7963.0	8123.7	8440.7	9056.2	9975.0	11098.1	12388.9	13872.6	15482.7	16851.5	17669.2
62.5°	5108.1	5259.6	5592.7	6127.8	6876.6	8093.9	9478.8	11240.5	13404.1	15565.3	17513.0
65°	2625.2	2707.9	2882.5	3206.3	3789.7	4699.2	5941.8	7698.8	10172.5	12839.1	15654.9
67.5°	1662.9	1679.0	1718.0	1763.9	1913.2	2227.9	2806.7	3902.2	5937.2	8718.6	12014.5
70°	1437.8	1437.8	1419.4	1412.5	1430.9	1474.5	1564.1	1819.1	2505.8	4138.8	6929.4
72.5°	1316.1	1302.3	1270.1	1244.9	1240.3	1240.3	1258.6	1297.7	1407.9	1685.8	2712.5
75°	1212.7	1173.7	1130.0	1100.2	1088.7	1077.2	1074.9	1081.8	1104.8	1148.4	1295.4
77.5°	1086.4	1035.9	985.3	955.5	941.7	925.6	911.8	895.7	884.3	898.0	962.4
80°	934.8	877.4	838.3	820.0	806.2	783.2	753.3	725.8	700.5	695.9	735.0
82.5°	753.3	686.7	689.0	695.9	670.7	638.5	606.4	576.5	532.9	509.9	532.9
85°	608.6	574.2	558.1	601.8	565.0	516.8	466.2	413.4	344.5	289.4	314.7
87.5°	236.6	236.6	353.7	544.3	489.2	399.6	342.2	291.7	181.4	140.1	142.4
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°	5390.6	5390.6	5390.6	5390.6	5390.6	5390.6	5390.6	5390.6
2.5°	5399.8	5404.3	5402.0	5399.8	5399.8	5397.5	5399.8	5399.8
5°	5441.1	5452.6	5452.6	5457.2	5457.2	5459.5	5461.8	5459.5
7.5°	5503.1	5523.8	5537.6	5553.6	5555.9	5558.2	5562.8	5558.2
10°	5565.1	5606.5	5636.3	5666.2	5680.0	5684.6	5689.1	5689.1
12.5°	5643.2	5700.6	5753.5	5806.3	5831.5	5845.3	5845.3	5854.5
15°	5771.8	5829.3	5891.3	5962.5	6006.1	6029.1	6036.0	6036.0
17.5°	5953.3	6003.8	6056.6	6125.5	6180.7	6210.5	6217.4	6215.1
20°	6164.6	6212.8	6242.7	6286.3	6334.5	6369.0	6378.2	6378.2
22.5°	6405.7	6433.3	6437.9	6451.7	6490.7	6536.7	6557.3	6561.9
25°	6672.2	6679.1	6660.7	6660.7	6686.0	6729.6	6750.3	6752.6
27.5°	7016.7	6982.2	6936.3	6920.2	6936.3	6986.8	7012.1	7021.3
30°	7446.2	7363.5	7257.9	7200.4	7191.2	7257.9	7303.8	7310.7
32.5°	7937.7	7818.3	7678.2	7561.0	7531.2	7572.5	7627.6	7625.3
35°	8521.1	8378.7	8208.7	8059.4	7990.5	8031.9	8110.0	8119.1
37.5°	9194.0	9008.0	8812.8	8624.4	8516.5	8528.0	8610.7	8638.2
40°	9945.1	9703.9	9458.2	9205.5	9051.6	9021.8	9122.8	9138.9
42.5°	10749.0	10438.9	10128.8	9816.5	9619.0	9573.0	9690.2	9683.3
45°	11605.7	11210.6	10847.7	10503.2	10268.9	10200.0	10296.5	10296.5
47.5°	12526.7	12039.8	11608.0	11217.5	10962.6	10863.8	10955.7	10962.6
50°	13502.8	12986.0	12478.5	12044.4	11738.9	11612.6	11732.0	11750.4
52.5°	14474.4	13971.4	13459.2	12963.1	12593.3	12439.4	12577.2	12636.9
55°	15459.7	14965.9	14476.7	13992.0	13553.4	13371.9	13518.9	13594.7
57.5°	16500.1	16043.1	15576.8	15087.6	14665.0	14382.5	14538.7	14639.7
60°	17719.7	17329.3	16844.6	16304.9	15877.7	15590.6	15680.2	15769.8
62.5°	18684.4	18836.0	18424.8	17800.1	17251.2	16883.7	16971.0	17065.1
65°	18218.1	19773.1	20138.2	19506.6	18746.4	18174.5	18137.7	18186.0
67.5°	15227.7	18248.0	20450.6	21052.4	20416.2	19621.5	19474.5	19545.7
70°	10186.3	13948.4	17834.6	20728.5	21497.9	21190.2	21045.5	21089.1
72.5°	4892.2	8123.7	12099.5	15946.6	18289.3	19364.2	19708.7	19876.4
75°	1789.2	3224.7	5831.5	8787.5	10608.9	12280.9	13371.9	13817.5
77.5°	1079.5	1302.3	1862.7	2804.4	3176.5	3555.4	3408.4	3481.9
80°	799.3	902.6	1022.1	1148.4	1189.7	1189.7	1143.8	1107.1
82.5°	560.4	627.0	684.4	753.3	771.7	737.3	606.4	482.3
85°	360.6	390.5	415.7	459.4	447.9	427.2	287.1	254.9
87.5°	165.4	188.3	197.5	218.2	209.0	199.8	142.4	119.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)