

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: P269703

Luminaire Tested: **GLEON-AF-10-LED-E1-RW-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269703
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-10-LED-E1-RW-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42274.4 lumens
Efficiency: N/A
Efficacy: 100.9 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): 419
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

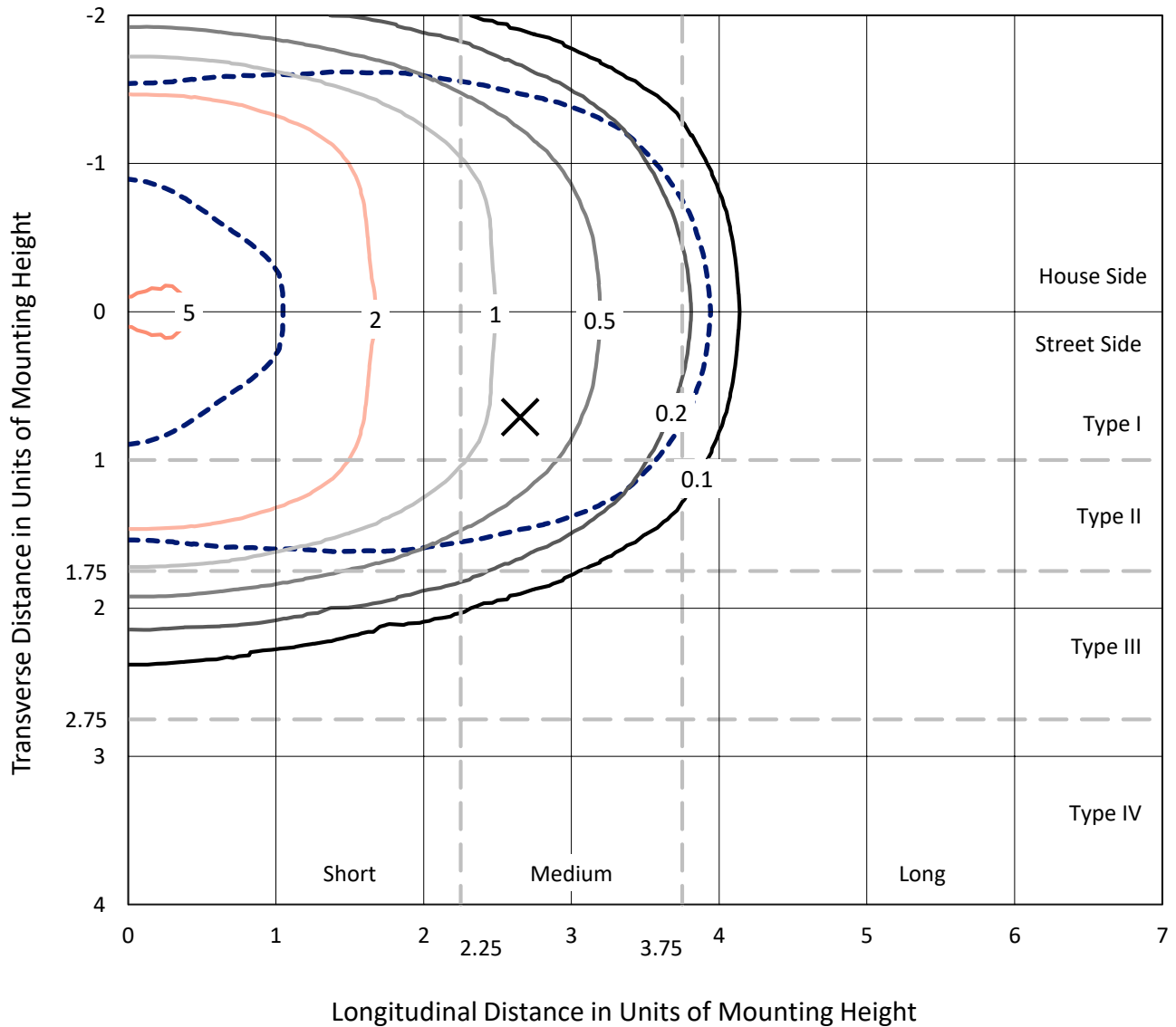


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

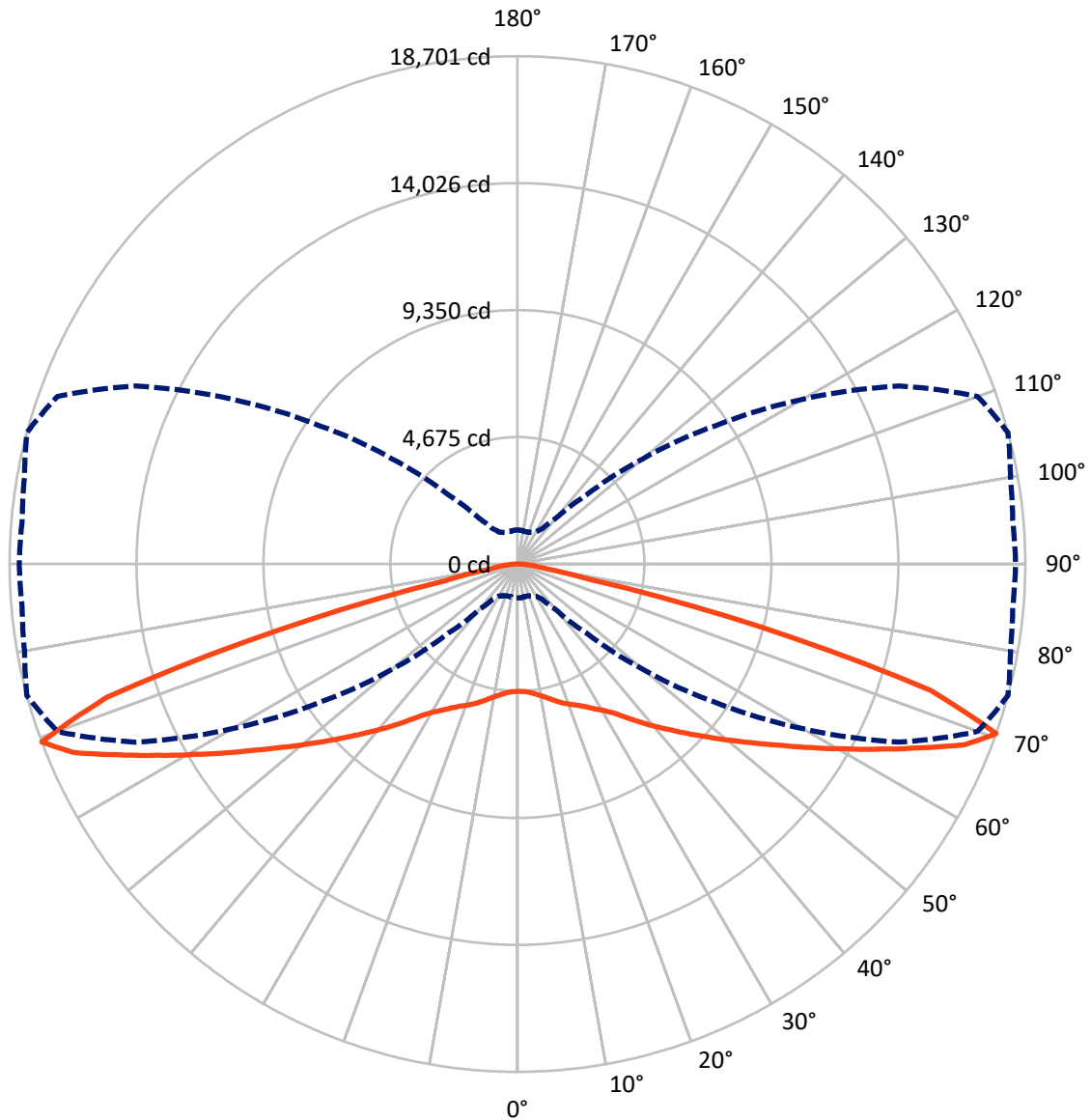


Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Medium - Full Cutoff

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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	21137.2	0.0	21137.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21137.2	0.0	21137.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	42274.4	0.0	42274.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.7	1.1
10°-20°	1397.4	3.3
20°-30°	2630.1	6.2
30°-40°	4657.4	11.0
40°-50°	7788.6	18.4
50°-60°	10853.5	25.7
60°-70°	10064.9	23.8
70°-80°	4011.1	9.5
80°-90°	421.6	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°	42274.4	100.0
0°-180°	42274.4	100.0



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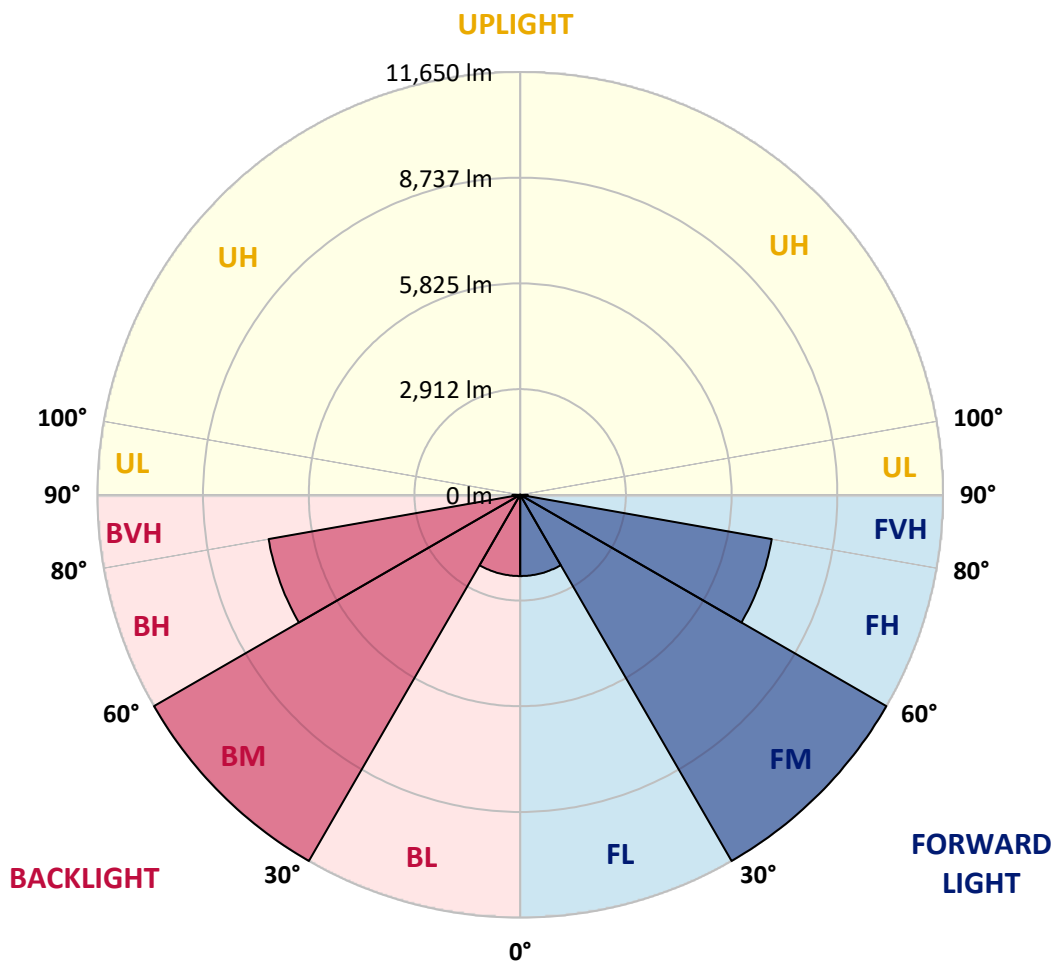
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2238.6	5.3			
FM	(30°-60°)	11649.8	27.6			
FH	(60°-80°)	7038.0	16.6			G3/7500
FVH	(80°-90°)	210.8	0.5			G2/225
BL	(0°-30°)	2238.6	5.3	B3/2500		
BM	(30°-60°)	11649.8	27.6	B5		
BH	(60°-80°)	7038.0	16.6	B5		G5
BVH	(80°-90°)	210.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4689.2	4689.2	4689.2	4689.2	4689.2	4689.2	4689.2	4689.2	4689.2	4689.2	4689.2
2.5°	4681.2	4677.3	4681.2	4679.2	4683.3	4683.3	4687.3	4695.3	4695.3	4701.2	4699.3
5°	4635.3	4633.3	4639.2	4645.2	4651.2	4663.2	4675.1	4693.3	4707.2	4717.2	4727.2
7.5°	4545.3	4545.3	4553.4	4567.3	4581.4	4607.2	4635.3	4671.2	4707.2	4737.1	4763.2
10°	4471.5	4475.4	4485.4	4509.4	4533.3	4573.4	4611.3	4663.2	4713.1	4763.2	4803.1
12.5°	4427.4	4433.4	4451.5	4487.5	4527.4	4581.4	4639.2	4705.2	4761.1	4821.1	4861.1
15°	4441.5	4445.4	4471.5	4515.4	4567.3	4635.3	4713.1	4791.1	4857.0	4920.9	4975.0
17.5°	4519.5	4525.4	4555.3	4605.3	4659.2	4739.2	4823.1	4910.9	4992.9	5064.9	5130.8
20°	4659.2	4665.3	4703.2	4757.2	4821.1	4902.9	4986.9	5078.7	5170.7	5246.6	5320.7
22.5°	4857.0	4867.0	4902.9	4956.9	5028.9	5116.7	5216.6	5314.6	5402.4	5472.5	5538.3
25°	5116.7	5138.8	5172.7	5232.6	5308.5	5388.6	5496.4	5596.4	5680.3	5746.2	5794.1
27.5°	5484.4	5514.3	5540.3	5598.2	5672.2	5748.2	5856.1	5943.9	6023.9	6087.8	6123.7
30°	5971.9	6001.8	6027.8	6083.9	6151.8	6223.6	6325.5	6403.5	6453.5	6503.4	6501.4
32.5°	6563.2	6595.3	6605.2	6665.2	6735.1	6813.0	6904.9	6948.8	6988.9	6994.8	6958.9
35°	7224.6	7240.6	7280.6	7360.5	7440.4	7504.4	7592.3	7614.3	7614.3	7584.3	7504.4
37.5°	7949.9	7959.9	8015.8	8105.8	8187.6	8253.5	8313.5	8357.6	8335.6	8271.6	8137.7
40°	8745.1	8763.1	8842.9	8922.9	9014.9	9076.7	9140.7	9148.7	9126.7	9032.7	8851.0
42.5°	9504.2	9520.2	9600.1	9726.0	9846.0	9931.9	9991.8	10003.7	9933.8	9847.9	9622.1
45°	10157.7	10199.5	10303.5	10451.3	10625.2	10747.1	10829.0	10862.9	10801.0	10689.1	10427.3
47.5°	10675.1	10717.0	10864.9	11040.7	11256.5	11454.3	11590.2	11662.1	11646.0	11562.3	11276.6
50°	11054.7	11094.6	11254.5	11470.3	11722.1	11967.8	12199.5	12371.4	12431.4	12393.3	12131.6
52.5°	11098.6	11164.7	11352.4	11642.2	11969.7	12305.4	12635.1	12926.8	13124.5	13154.6	12960.7
55°	10485.2	10551.2	10810.9	11240.5	11728.0	12275.5	12803.0	13294.5	13684.1	13883.8	13781.9
57.5°	9038.7	9156.7	9430.3	9933.8	10651.2	11470.3	12311.5	13184.6	13977.7	14507.2	14609.0
60°	6926.9	7066.7	7342.4	7878.0	8677.2	9654.2	10777.0	12067.7	13468.3	14659.0	15370.3
62.5°	4443.5	4575.3	4865.0	5330.5	5982.0	7040.8	8245.6	9778.1	11660.1	13540.2	15234.4
65°	2283.8	2355.5	2507.4	2789.1	3296.6	4087.8	5168.7	6697.1	8848.9	11168.5	13618.0
67.5°	1446.5	1460.6	1494.5	1534.5	1664.3	1938.1	2441.6	3394.5	5164.7	7584.3	10451.3
70°	1250.7	1250.7	1234.7	1228.7	1244.7	1282.7	1360.7	1582.4	2179.7	3600.3	6027.8
72.5°	1144.8	1132.9	1104.8	1082.8	1079.0	1079.0	1094.9	1128.8	1224.7	1466.6	2359.6
75°	1054.9	1021.0	982.9	957.1	947.1	937.0	935.0	941.1	961.0	998.9	1126.8
77.5°	945.0	901.1	857.2	831.1	819.2	805.2	793.3	779.2	769.2	781.2	837.1
80°	813.1	763.2	729.2	713.3	701.2	681.4	655.4	631.4	609.4	605.4	639.4
82.5°	655.4	597.5	599.3	605.4	583.4	555.4	527.5	501.6	463.5	443.6	463.5
85°	529.5	499.5	485.5	523.4	491.6	449.5	405.6	359.6	299.7	251.7	273.8
87.5°	205.8	205.8	307.7	473.5	425.5	347.6	297.7	253.7	157.8	121.9	123.8
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°	4689.2	4689.2	4689.2	4689.2	4689.2	4689.2	4689.2	4689.2
2.5°	4697.1	4701.2	4699.3	4697.1	4697.1	4695.3	4697.1	4697.1
5°	4733.2	4743.2	4743.2	4747.2	4747.2	4749.2	4751.1	4749.2
7.5°	4787.1	4805.2	4817.2	4831.1	4833.2	4835.0	4839.1	4835.0
10°	4841.1	4877.0	4902.9	4929.0	4940.9	4945.0	4948.9	4948.9
12.5°	4909.0	4959.0	5004.8	5050.8	5072.8	5084.8	5084.8	5092.9
15°	5020.8	5070.8	5124.8	5186.8	5224.6	5244.7	5250.7	5250.7
17.5°	5178.6	5222.7	5268.6	5328.6	5376.5	5402.4	5408.4	5406.4
20°	5362.5	5404.6	5430.4	5468.4	5510.4	5540.3	5548.3	5548.3
22.5°	5572.2	5596.4	5600.3	5612.3	5646.2	5686.2	5704.1	5708.2
25°	5804.0	5810.1	5794.1	5794.1	5816.0	5854.1	5872.0	5873.9
27.5°	6103.8	6073.8	6033.8	6019.8	6033.8	6077.8	6099.9	6107.8
30°	6477.4	6405.5	6313.6	6263.6	6255.5	6313.6	6353.5	6359.6
32.5°	6904.9	6801.1	6679.2	6577.3	6551.2	6587.4	6635.2	6633.3
35°	7412.5	7288.6	7140.6	7010.8	6950.9	6986.8	7054.7	7062.7
37.5°	7997.8	7835.9	7666.1	7502.4	7408.4	7418.5	7490.3	7514.3
40°	8651.1	8441.5	8227.5	8007.9	7874.0	7848.0	7935.8	7949.9
42.5°	9350.5	9080.7	8811.0	8539.3	8367.4	8327.5	8429.3	8423.3
45°	10095.7	9752.0	9436.3	9136.8	8932.8	8873.0	8956.9	8956.9
47.5°	10896.9	10473.2	10097.7	9758.1	9536.2	9450.3	9530.3	9536.2
50°	11746.0	11296.5	10854.8	10477.3	10211.6	10101.7	10205.6	10221.5
52.5°	12591.2	12153.6	11708.1	11276.6	10954.8	10821.0	10940.8	10992.7
55°	13448.3	13018.6	12593.2	12171.6	11790.0	11632.2	11760.0	11825.9
57.5°	14353.4	13955.8	13550.2	13124.5	12757.0	12511.2	12647.1	12735.0
60°	15414.2	15074.5	14653.1	14183.5	13811.9	13562.2	13640.0	13717.9
62.5°	16253.5	16385.3	16027.6	15484.2	15006.6	14687.0	14762.9	14844.9
65°	15847.8	17200.4	17518.0	16968.7	16307.3	15809.9	15777.9	15819.8
67.5°	13246.4	15873.8	17789.9	18313.2	17759.9	17068.5	16940.6	17002.6
70°	8860.9	12133.5	15514.2	18031.6	18700.9	18433.2	18307.3	18345.2
72.5°	4255.7	7066.7	10525.3	13871.8	15909.7	16844.7	17144.5	17290.3
75°	1556.5	2805.1	5072.8	7644.1	9228.6	10683.2	11632.2	12019.7
77.5°	939.1	1132.9	1620.4	2439.4	2763.1	3092.9	2964.9	3028.9
80°	695.3	785.2	889.1	998.9	1034.9	1034.9	995.1	963.1
82.5°	487.5	545.5	595.3	655.4	671.4	641.3	527.5	419.6
85°	313.7	339.6	361.7	399.6	389.7	371.5	249.8	221.8
87.5°	143.9	163.9	171.8	189.8	181.7	173.8	123.8	103.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)