

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: P191016

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191016
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49883.2 lumens
Efficiency: N/A
Efficacy: 112.1 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): 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

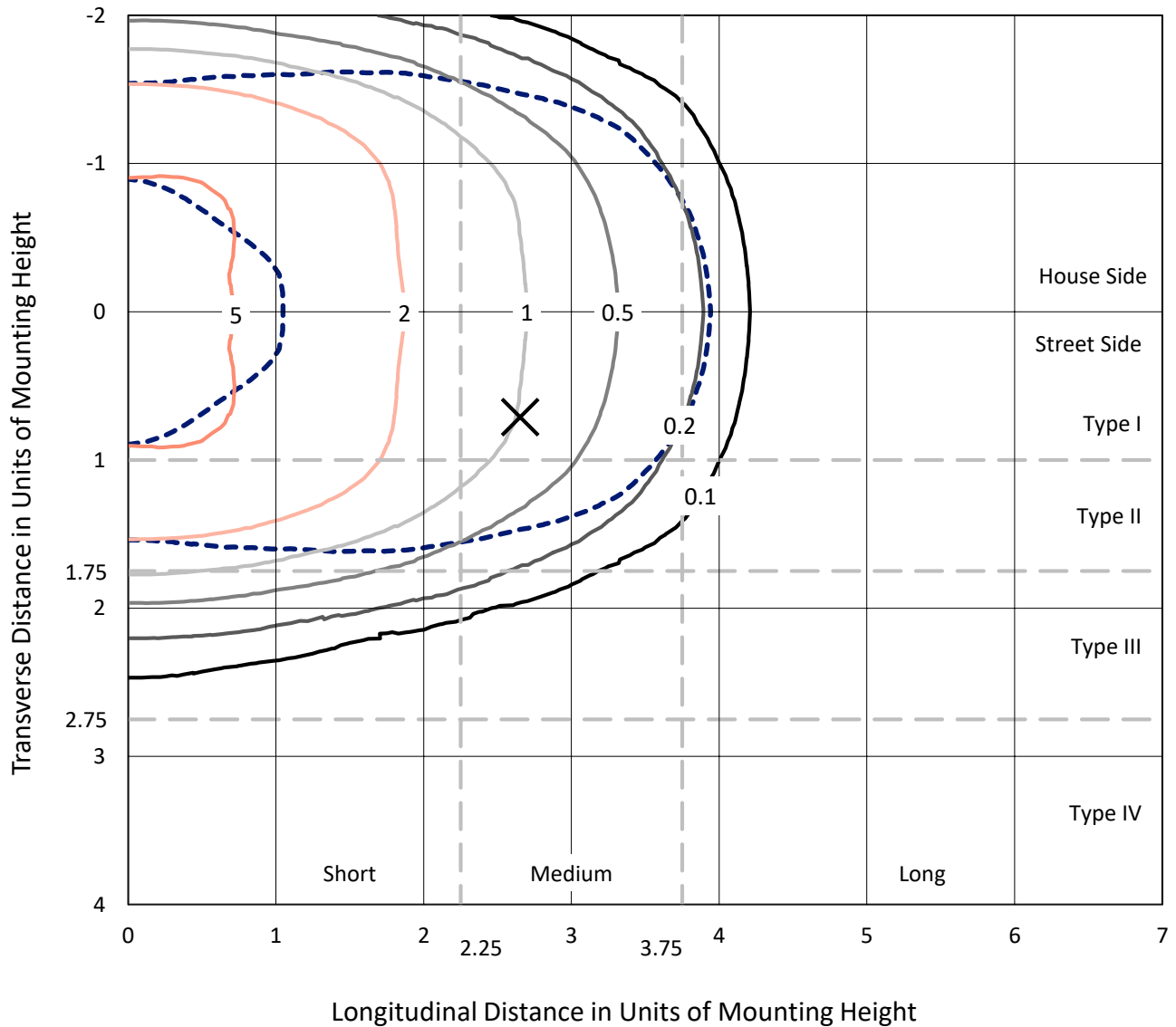


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

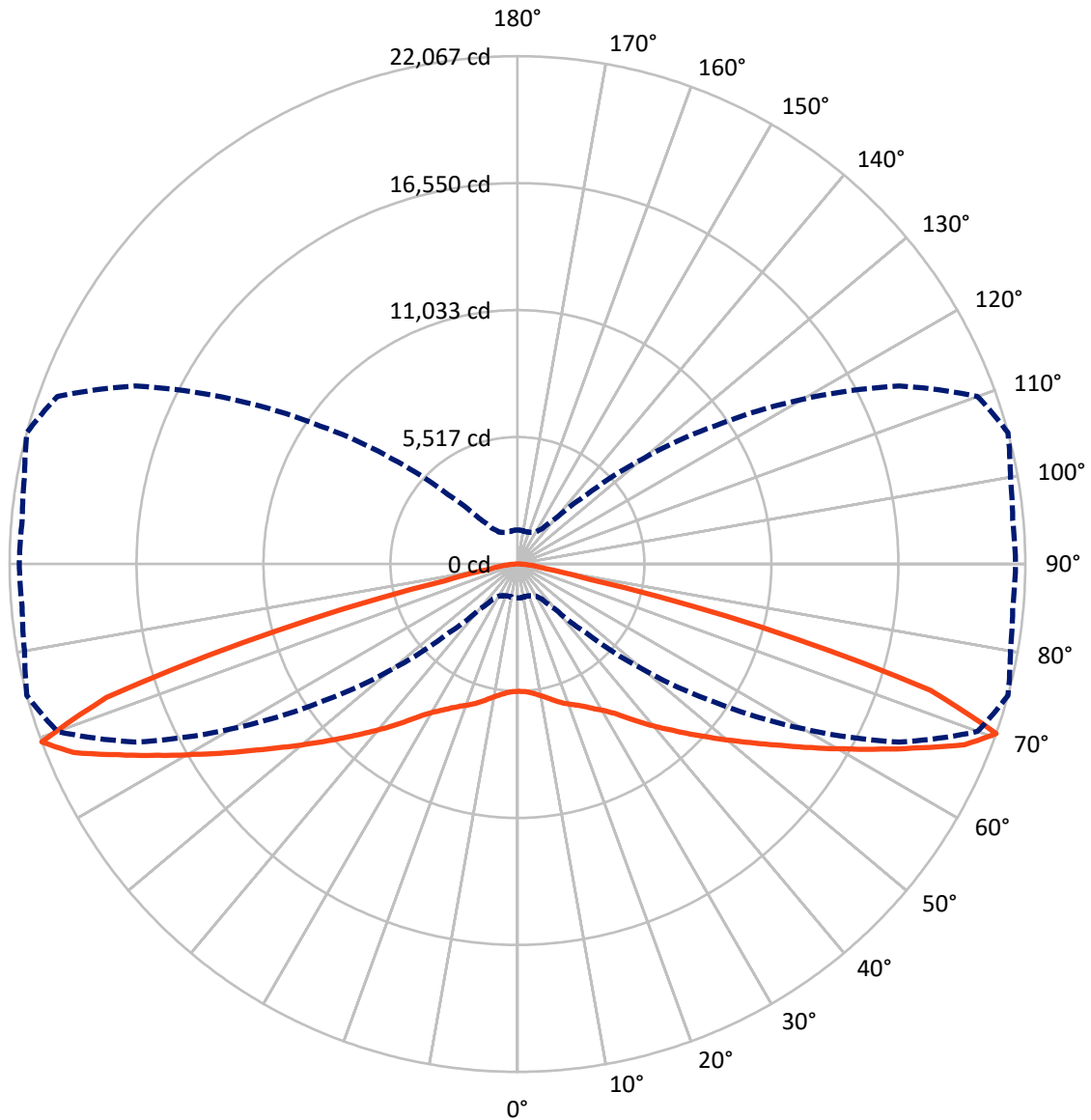


Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Medium - Full Cutoff

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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	24941.6	0.0	24941.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24941.6	0.0	24941.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	49883.2	0.0	49883.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.7	1.1
10°-20°	1648.9	3.3
20°-30°	3103.5	6.2
30°-40°	5495.6	11.0
40°-50°	9190.5	18.4
50°-60°	12807.0	25.7
60°-70°	11876.4	23.8
70°-80°	4733.1	9.5
80°-90°	497.5	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°	49883.2	100.0
0°-180°	49883.2	100.0



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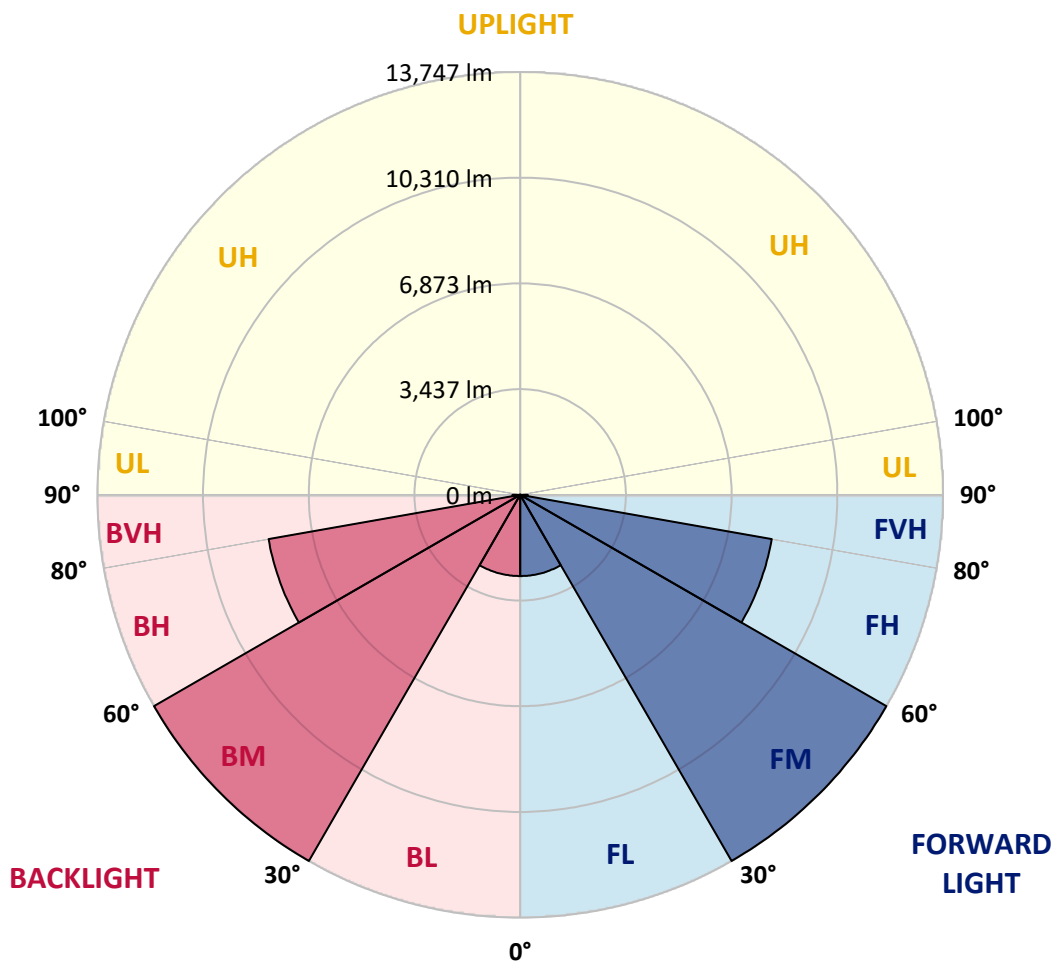
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2641.5	5.3			
FM	(30°-60°)	13746.6	27.6			
FH	(60°-80°)	8304.8	16.6			G4/12000
FVH	(80°-90°)	248.8	0.5			G3/500
BL	(0°-30°)	2641.5	5.3	B4/5000		
BM	(30°-60°)	13746.6	27.6	B5		
BH	(60°-80°)	8304.8	16.6	B5		G5
BVH	(80°-90°)	248.8	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°	5533.2	5533.2	5533.2	5533.2	5533.2	5533.2	5533.2	5533.2	5533.2	5533.2	5533.2
2.5°	5523.7	5519.0	5523.7	5521.4	5526.1	5526.1	5530.9	5540.3	5540.3	5547.4	5545.0
5°	5469.5	5467.2	5474.2	5481.4	5488.4	5502.6	5516.7	5537.9	5554.4	5566.2	5578.0
7.5°	5363.4	5363.4	5372.8	5389.4	5405.9	5436.6	5469.5	5512.0	5554.4	5589.8	5620.4
10°	5276.3	5281.0	5292.7	5321.0	5349.3	5396.5	5441.3	5502.6	5561.5	5620.4	5667.6
12.5°	5224.4	5231.5	5252.6	5295.1	5342.3	5405.9	5474.2	5552.1	5618.0	5688.8	5736.0
15°	5240.9	5245.6	5276.3	5328.1	5389.4	5469.5	5561.5	5653.4	5731.3	5806.7	5870.3
17.5°	5332.8	5339.9	5375.3	5434.2	5497.8	5592.2	5691.2	5794.9	5891.6	5976.4	6054.2
20°	5497.8	5504.9	5549.7	5613.3	5688.8	5785.5	5884.5	5993.0	6101.4	6191.0	6278.2
22.5°	5731.3	5743.1	5785.5	5849.1	5934.0	6037.8	6155.6	6271.1	6374.8	6457.4	6535.1
25°	6037.8	6063.6	6103.7	6174.4	6264.0	6358.4	6485.7	6603.6	6702.6	6780.3	6836.9
27.5°	6471.5	6506.9	6537.6	6605.9	6693.2	6782.7	6910.0	7013.8	7108.1	7183.5	7225.9
30°	7046.8	7082.1	7112.8	7178.8	7259.0	7343.9	7464.1	7556.0	7614.9	7673.9	7671.5
32.5°	7744.6	7782.3	7794.1	7864.9	7947.3	8039.3	8147.7	8199.6	8246.7	8253.9	8211.4
35°	8525.0	8543.8	8590.9	8685.3	8779.6	8855.0	8958.8	8984.7	8984.7	8949.3	8855.0
37.5°	9380.8	9392.5	9458.5	9564.7	9661.3	9739.1	9809.8	9861.7	9835.8	9760.3	9602.3
40°	10319.0	10340.3	10434.6	10528.9	10637.4	10710.4	10785.9	10795.3	10769.3	10658.5	10444.0
42.5°	11214.9	11233.8	11328.1	11476.6	11618.1	11719.4	11790.2	11804.3	11721.8	11620.4	11354.0
45°	11985.8	12035.3	12158.0	12332.4	12537.5	12681.3	12778.0	12818.1	12745.0	12613.0	12304.2
47.5°	12596.5	12646.0	12820.4	13027.9	13282.5	13515.9	13676.2	13761.1	13742.2	13643.2	13306.1
50°	13044.4	13091.5	13280.2	13534.8	13831.8	14121.8	14395.3	14598.0	14668.8	14624.0	14315.2
52.5°	13096.3	13174.1	13395.6	13737.5	14124.2	14520.3	14909.2	15253.4	15486.9	15522.3	15293.5
55°	12372.5	12450.3	12756.8	13263.7	13838.9	14484.9	15107.2	15687.3	16147.0	16382.8	16262.5
57.5°	10665.6	10804.7	11127.7	11721.8	12568.2	13534.8	14527.3	15557.5	16493.5	17118.3	17238.6
60°	8173.7	8338.7	8664.1	9295.9	10238.9	11391.8	12716.7	14239.7	15892.4	17297.5	18136.7
62.5°	5243.2	5398.8	5740.7	6290.0	7058.6	8308.1	9729.7	11538.0	13758.8	15977.3	17976.4
65°	2694.7	2779.6	2958.8	3291.1	3890.0	4823.6	6099.0	7902.6	10441.7	13178.8	16069.1
67.5°	1706.9	1723.4	1763.5	1810.6	1963.9	2286.8	2880.9	4005.5	6094.3	8949.3	12332.4
70°	1475.8	1475.8	1457.0	1449.9	1468.8	1513.6	1605.5	1867.2	2572.1	4248.3	7112.8
72.5°	1350.9	1336.7	1303.8	1277.8	1273.1	1273.1	1292.0	1332.0	1445.2	1730.4	2784.3
75°	1244.8	1204.7	1159.9	1129.2	1117.5	1105.7	1103.4	1110.4	1133.9	1178.7	1329.6
77.5°	1115.1	1063.3	1011.4	980.7	966.6	950.1	936.0	919.4	907.7	921.8	987.9
80°	959.5	900.6	860.5	841.7	827.5	803.9	773.2	745.0	719.0	714.3	754.4
82.5°	773.2	704.9	707.3	714.3	688.4	655.4	622.4	591.8	547.0	523.3	547.0
85°	624.7	589.4	572.9	617.7	579.9	530.5	478.5	424.3	353.6	297.1	322.9
87.5°	242.8	242.8	363.0	558.7	502.2	410.2	351.3	299.4	186.3	143.8	146.2
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°	5533.2	5533.2	5533.2	5533.2	5533.2	5533.2	5533.2	5533.2
2.5°	5542.7	5547.4	5545.0	5542.7	5542.7	5540.3	5542.7	5542.7
5°	5585.1	5596.9	5596.9	5601.6	5601.6	5603.9	5606.3	5603.9
7.5°	5648.7	5669.9	5684.1	5700.6	5703.0	5705.3	5710.0	5705.3
10°	5712.4	5754.8	5785.5	5816.1	5830.3	5835.0	5839.7	5839.7
12.5°	5792.6	5851.5	5905.7	5959.9	5985.9	6000.0	6000.0	6009.4
15°	5924.5	5983.5	6047.2	6120.2	6165.0	6188.6	6195.7	6195.7
17.5°	6110.8	6162.7	6216.9	6287.7	6344.2	6374.8	6381.9	6379.5
20°	6327.7	6377.2	6407.9	6452.7	6502.2	6537.6	6547.0	6547.0
22.5°	6575.2	6603.6	6608.3	6622.4	6662.5	6709.6	6730.8	6735.5
25°	6848.8	6855.8	6836.9	6836.9	6862.9	6907.7	6928.9	6931.2
27.5°	7202.4	7167.0	7119.8	7103.4	7119.8	7171.7	7197.7	7207.1
30°	7643.2	7558.4	7449.9	7390.9	7381.5	7449.9	7497.1	7504.2
32.5°	8147.7	8025.2	7881.3	7761.1	7730.4	7772.9	7829.5	7827.1
35°	8746.5	8600.4	8425.9	8272.7	8202.0	8244.4	8324.6	8334.0
37.5°	9437.3	9246.4	9046.0	8852.6	8741.8	8753.6	8838.5	8866.8
40°	10208.2	9960.7	9708.4	9449.1	9291.2	9260.5	9364.3	9380.8
42.5°	11033.4	10715.1	10396.9	10076.3	9873.5	9826.4	9946.6	9939.5
45°	11912.8	11507.3	11134.8	10781.2	10540.7	10469.9	10568.9	10568.9
47.5°	12858.2	12358.4	11915.1	11514.3	11252.7	11151.3	11245.6	11252.7
50°	13860.2	13329.7	12808.7	12363.1	12049.5	11919.8	12042.5	12061.3
52.5°	14857.3	14341.1	13815.4	13306.1	12926.5	12768.6	12910.0	12971.3
55°	15868.7	15361.9	14859.7	14362.3	13912.0	13725.7	13876.6	13954.5
57.5°	16936.8	16467.6	15989.0	15486.9	15053.0	14763.1	14923.4	15027.1
60°	18188.6	17787.8	17290.4	16736.4	16297.9	16003.1	16095.1	16187.1
62.5°	19178.8	19334.4	18912.4	18271.1	17707.7	17330.4	17420.0	17516.7
65°	18700.3	20296.3	20671.2	20022.8	19242.4	18655.5	18617.7	18667.2
67.5°	15630.7	18730.8	20991.8	21609.4	20956.4	20140.7	19989.8	20062.9
70°	10455.8	14317.5	18306.5	21277.1	22066.8	21750.9	21602.4	21647.2
72.5°	5021.7	8338.7	12419.6	16368.5	18773.3	19876.7	20230.3	20402.3
75°	1836.5	3310.1	5985.9	9020.1	10889.6	12605.9	13725.7	14183.1
77.5°	1108.1	1336.7	1912.0	2878.6	3260.6	3649.5	3498.6	3574.1
80°	820.4	926.5	1049.1	1178.7	1221.2	1221.2	1174.0	1136.4
82.5°	575.2	643.6	702.6	773.2	792.2	756.8	622.4	495.1
85°	370.1	400.8	426.7	471.5	459.7	438.5	294.7	261.7
87.5°	169.7	193.3	202.7	223.9	214.5	205.1	146.2	122.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)