

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: P191805

Luminaire Tested: **GLEON-AF-07-LED-E1-RW-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191805
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-07-LED-E1-RW-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34771 lumens
Efficiency: N/A
Efficacy: 117.9 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

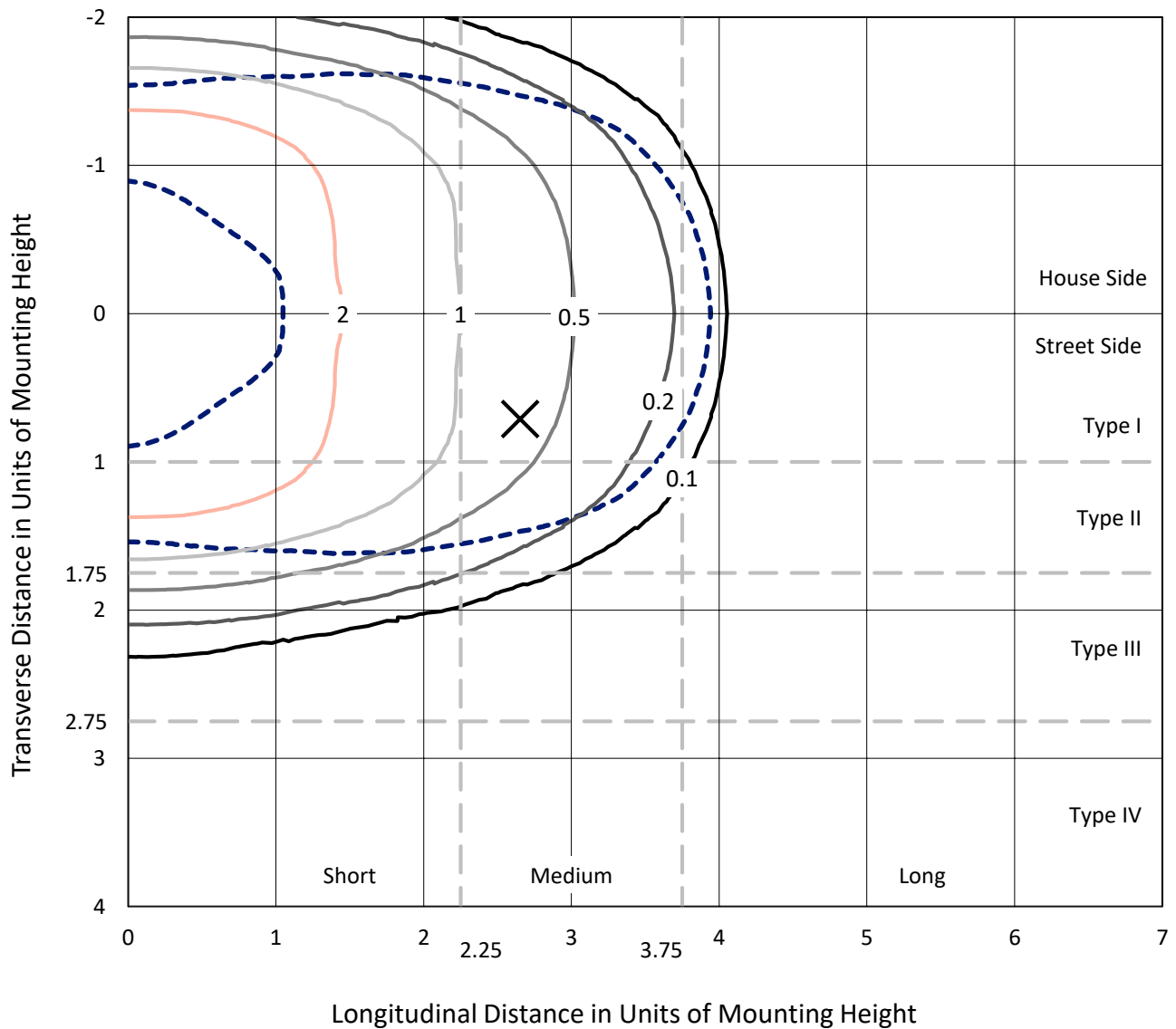
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

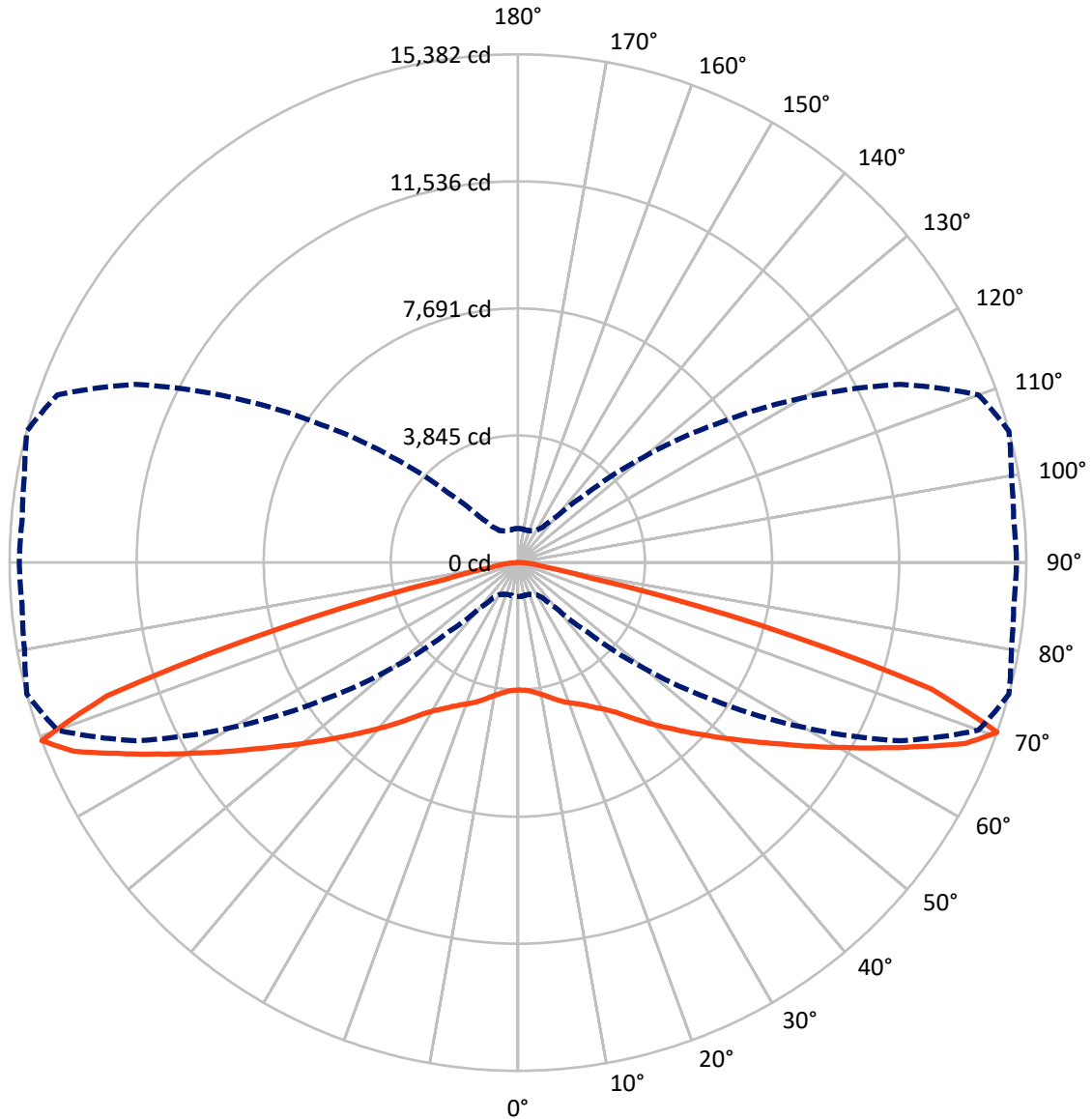
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 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	17385.5	0.0	17385.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17385.5	0.0	17385.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34771.0	0.0	34771.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.9	1.1
10°-20°	1149.4	3.3
20°-30°	2163.3	6.2
30°-40°	3830.7	11.0
40°-50°	6406.2	18.4
50°-60°	8927.1	25.7
60°-70°	8278.4	23.8
70°-80°	3299.2	9.5
80°-90°	346.8	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°	34771.0	100.0
0°-180°	34771.0	100.0



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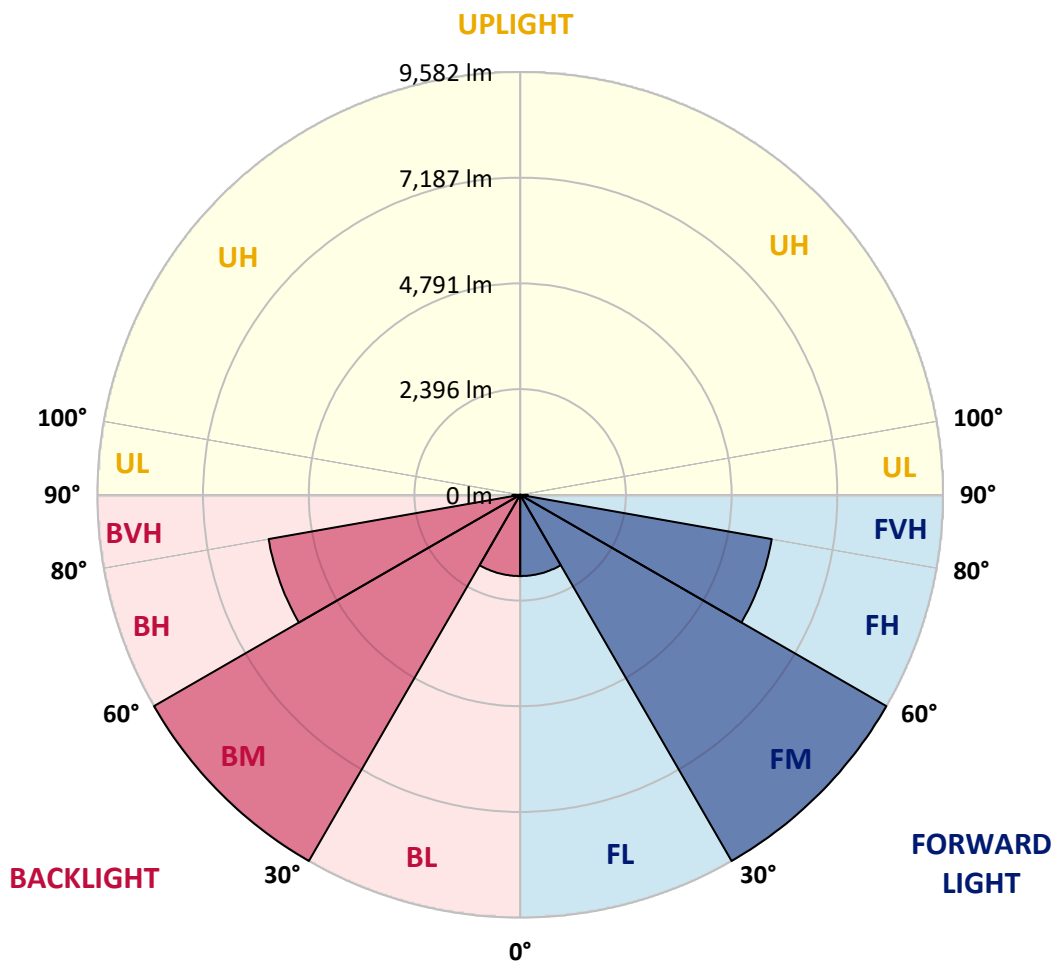
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1841.3	5.3			
FM	(30°-60°)	9582.0	27.6			
FH	(60°-80°)	5788.8	16.6			G3/7500
FVH	(80°-90°)	173.4	0.5			G2/225
BL	(0°-30°)	1841.3	5.3	B3/2500		
BM	(30°-60°)	9582.0	27.6	B5		
BH	(60°-80°)	5788.8	16.6	B5		G5
BVH	(80°-90°)	173.4	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°	3856.9	3856.9	3856.9	3856.9	3856.9	3856.9	3856.9	3856.9	3856.9	3856.9	3856.9
2.5°	3850.3	3847.1	3850.3	3848.7	3852.0	3852.0	3855.3	3861.8	3861.8	3866.8	3865.1
5°	3812.5	3810.9	3815.8	3820.8	3825.7	3835.6	3845.4	3860.2	3871.7	3879.9	3888.1
7.5°	3738.6	3738.6	3745.2	3756.7	3768.2	3789.5	3812.5	3842.1	3871.7	3896.4	3917.7
10°	3677.8	3681.1	3689.3	3709.0	3728.7	3761.6	3792.8	3835.6	3876.6	3917.7	3950.6
12.5°	3641.6	3646.6	3661.4	3690.9	3723.8	3768.2	3815.8	3870.1	3916.1	3965.4	3998.2
15°	3653.1	3656.4	3677.8	3713.9	3756.7	3812.5	3876.6	3940.7	3995.0	4047.5	4091.9
17.5°	3717.2	3722.2	3746.8	3787.9	3832.3	3898.0	3967.0	4039.3	4106.7	4165.9	4220.1
20°	3832.3	3837.2	3868.4	3912.8	3965.4	4032.8	4101.8	4177.4	4253.0	4315.4	4376.2
22.5°	3995.0	4003.2	4032.8	4077.1	4136.3	4208.6	4290.8	4371.3	4443.6	4501.1	4555.3
25°	4208.6	4226.7	4254.6	4303.9	4366.3	4432.1	4520.8	4603.0	4672.0	4726.2	4765.7
27.5°	4511.0	4535.6	4557.0	4604.6	4665.4	4727.9	4816.6	4888.9	4954.7	5007.3	5036.8
30°	4911.9	4936.6	4958.0	5004.0	5059.8	5119.0	5202.8	5266.9	5308.0	5349.1	5347.4
32.5°	5398.4	5424.7	5432.9	5482.2	5539.7	5603.8	5679.4	5715.5	5748.4	5753.3	5723.7
35°	5942.3	5955.5	5988.3	6054.1	6119.8	6172.4	6244.7	6262.8	6262.8	6238.1	6172.4
37.5°	6538.8	6547.1	6593.1	6667.0	6734.4	6788.6	6837.9	6874.1	6856.0	6803.4	6693.3
40°	7192.9	7207.7	7273.4	7339.1	7414.7	7465.7	7518.3	7524.8	7506.8	7429.5	7280.0
42.5°	7817.4	7830.5	7896.2	7999.8	8098.4	8169.0	8218.3	8228.2	8170.7	8100.0	7914.3
45°	8354.7	8389.2	8474.7	8596.3	8739.3	8839.5	8906.9	8934.8	8883.9	8791.9	8576.6
47.5°	8780.4	8814.9	8936.5	9081.1	9258.6	9421.3	9533.0	9592.2	9579.0	9510.0	9275.0
50°	9092.6	9125.5	9256.9	9434.4	9641.5	9843.6	10034.2	10175.5	10224.8	10193.6	9978.3
52.5°	9128.7	9183.0	9337.4	9575.7	9845.2	10121.3	10392.5	10632.4	10795.1	10819.7	10660.3
55°	8624.2	8678.5	8892.1	9245.4	9646.4	10096.7	10530.5	10934.8	11255.2	11419.6	11335.7
57.5°	7434.5	7531.4	7756.6	8170.7	8760.6	9434.4	10126.2	10844.4	11496.8	11932.3	12016.1
60°	5697.5	5812.5	6039.3	6479.7	7137.0	7940.6	8864.2	9925.8	11077.7	12057.2	12642.2
62.5°	3654.8	3763.2	4001.5	4384.4	4920.2	5791.1	6782.1	8042.5	9590.5	11136.9	12530.5
65°	1878.3	1937.5	2062.4	2294.1	2711.5	3362.3	4251.3	5508.5	7278.3	9186.3	11201.0
67.5°	1189.8	1201.3	1229.2	1262.1	1368.9	1594.0	2008.2	2792.0	4248.0	6238.1	8596.3
70°	1028.7	1028.7	1015.6	1010.7	1023.8	1055.0	1119.1	1301.5	1792.9	2961.3	4958.0
72.5°	941.6	931.8	908.8	890.7	887.4	887.4	900.5	928.5	1007.4	1206.2	1940.8
75°	867.7	839.7	808.5	787.2	778.9	770.7	769.1	774.0	790.4	821.7	926.8
77.5°	777.3	741.1	705.0	683.6	673.8	662.3	652.4	640.9	632.7	642.5	688.6
80°	668.8	627.8	599.8	586.7	576.8	560.4	539.0	519.3	501.2	497.9	525.9
82.5°	539.0	491.4	493.0	497.9	479.9	456.8	433.8	412.5	381.3	364.8	381.3
85°	435.5	410.8	399.3	430.6	404.3	369.8	333.6	295.8	246.5	207.1	225.1
87.5°	169.3	169.3	253.1	389.5	350.0	285.9	244.9	208.7	129.8	100.2	101.9
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°	3856.9	3856.9	3856.9	3856.9	3856.9	3856.9	3856.9	3856.9
2.5°	3863.5	3866.8	3865.1	3863.5	3863.5	3861.8	3863.5	3863.5
5°	3893.1	3901.3	3901.3	3904.6	3904.6	3906.2	3907.9	3906.2
7.5°	3937.4	3952.2	3962.1	3973.6	3975.2	3976.9	3980.2	3976.9
10°	3981.8	4011.4	4032.8	4054.1	4064.0	4067.3	4070.5	4070.5
12.5°	4037.7	4078.8	4116.6	4154.4	4172.4	4182.3	4182.3	4188.9
15°	4129.7	4170.8	4215.2	4266.1	4297.3	4313.8	4318.7	4318.7
17.5°	4259.5	4295.7	4333.5	4382.8	4422.2	4443.6	4448.5	4446.9
20°	4410.7	4445.2	4466.6	4497.8	4532.3	4557.0	4563.5	4563.5
22.5°	4583.3	4603.0	4606.3	4616.1	4644.1	4676.9	4691.7	4695.0
25°	4773.9	4778.8	4765.7	4765.7	4783.8	4815.0	4829.8	4831.4
27.5°	5020.4	4995.7	4962.9	4951.4	4962.9	4999.0	5017.1	5023.7
30°	5327.7	5268.5	5192.9	5151.9	5145.3	5192.9	5225.8	5230.7
32.5°	5679.4	5593.9	5493.7	5409.9	5388.5	5418.1	5457.5	5455.9
35°	6096.8	5994.9	5873.3	5766.5	5717.2	5746.8	5802.6	5809.2
37.5°	6578.3	6445.2	6305.5	6170.7	6093.5	6101.7	6160.9	6180.6
40°	7115.7	6943.1	6767.3	6586.5	6476.4	6455.0	6527.3	6538.8
42.5°	7690.8	7469.0	7247.1	7023.6	6882.3	6849.4	6933.2	6928.3
45°	8303.8	8021.1	7761.5	7515.0	7347.4	7298.1	7367.1	7367.1
47.5°	8962.8	8614.4	8305.4	8026.1	7843.7	7773.0	7838.7	7843.7
50°	9661.2	9291.4	8928.3	8617.7	8399.1	8308.7	8394.2	8407.3
52.5°	10356.3	9996.4	9630.0	9275.0	9010.4	8900.3	8998.9	9041.6
55°	11061.3	10708.0	10358.0	10011.2	9697.3	9567.5	9672.7	9726.9
57.5°	11805.7	11478.7	11145.1	10795.1	10492.7	10290.6	10402.3	10474.6
60°	12678.4	12399.0	12052.2	11666.1	11360.4	11155.0	11219.1	11283.2
62.5°	13368.6	13477.0	13182.9	12735.9	12343.1	12080.2	12142.6	12210.0
65°	13035.0	14147.5	14408.8	13956.9	13412.9	13003.7	12977.4	13011.9
67.5°	10895.3	13056.3	14632.3	15062.8	14607.6	14039.0	13933.9	13984.8
70°	7288.2	9980.0	12760.5	14831.1	15381.6	15161.4	15057.9	15089.1
72.5°	3500.3	5812.5	8657.1	11409.7	13085.9	13855.0	14101.5	14221.4
75°	1280.2	2307.2	4172.4	6287.4	7590.6	8786.9	9567.5	9886.3
77.5°	772.4	931.8	1332.7	2006.5	2272.7	2543.9	2438.7	2491.3
80°	571.9	645.8	731.3	821.7	851.2	851.2	818.4	792.1
82.5°	401.0	448.6	489.7	539.0	552.2	527.5	433.8	345.1
85°	258.0	279.4	297.4	328.7	320.5	305.7	205.4	182.4
87.5°	118.3	134.8	141.3	156.1	149.5	143.0	101.9	85.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)