

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: P193564

Luminaire Tested: **GLEON-AF-06-LED-E1-RW-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193564
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-06-LED-E1-RW-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32576 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 382
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

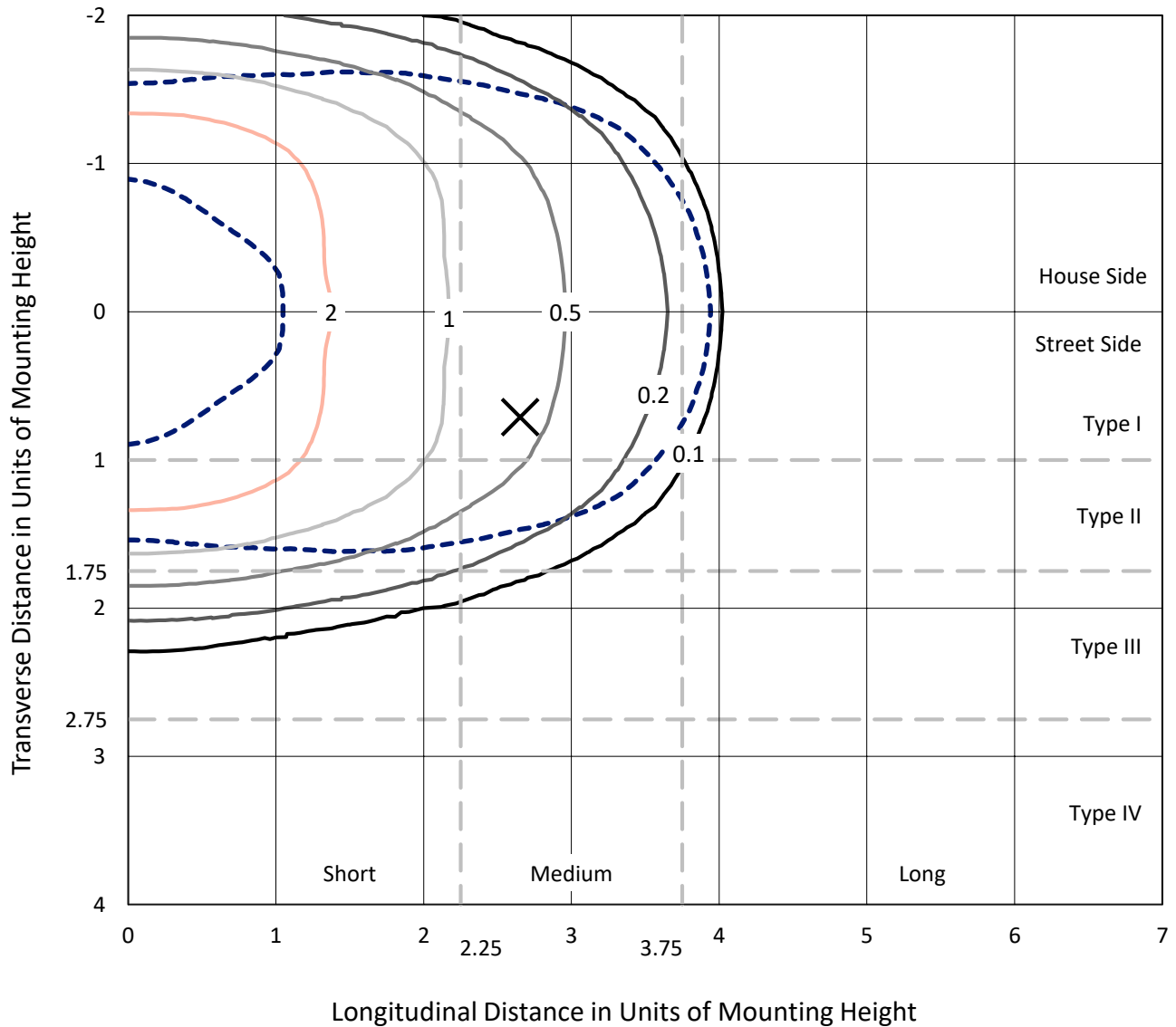


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

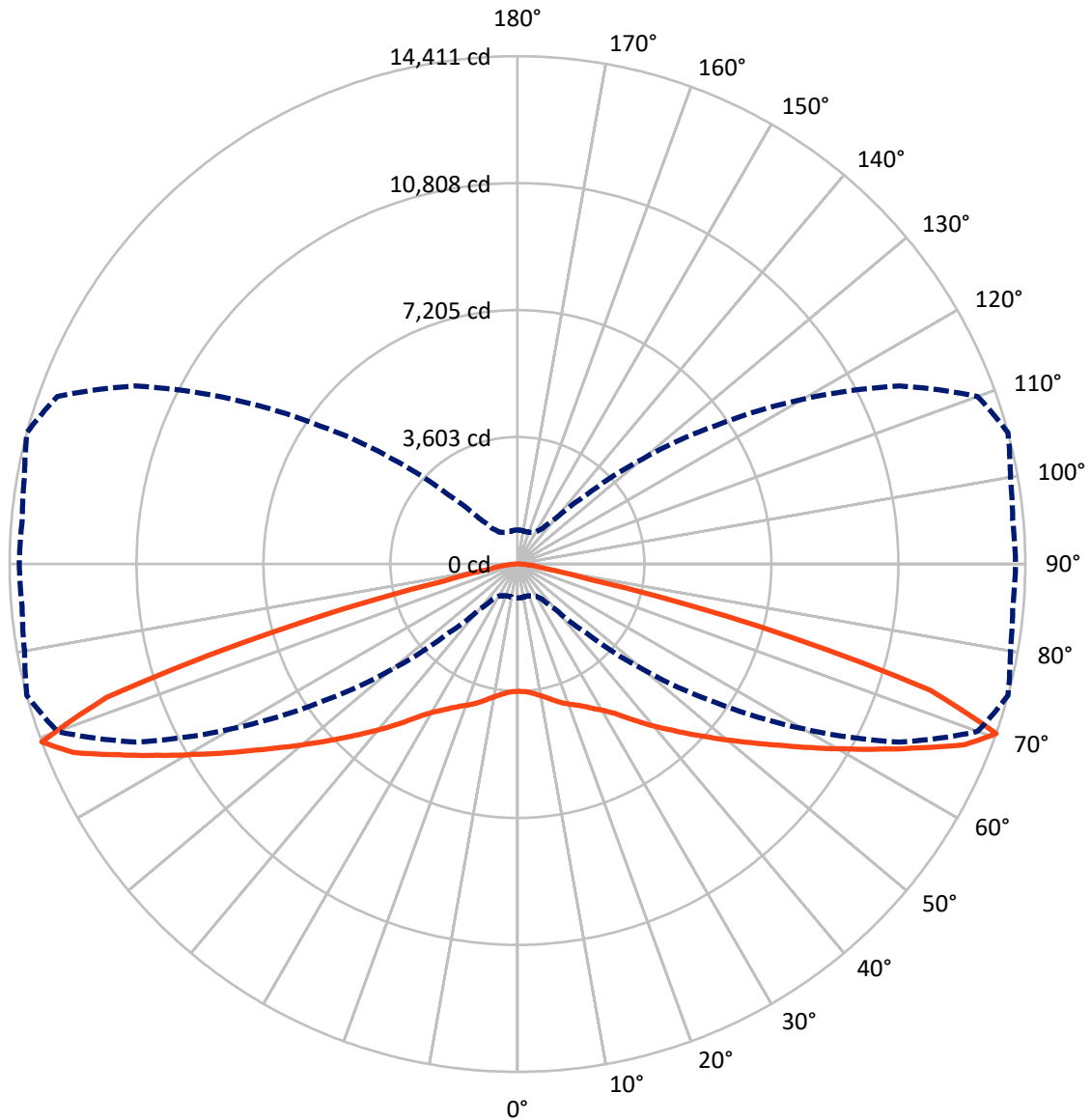


Based on 30 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Medium - Full Cutoff

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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	16288.0	0.0	16288.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16288.0	0.0	16288.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32576.0	0.0	32576.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.6	1.1
10°-20°	1076.8	3.3
20°-30°	2026.7	6.2
30°-40°	3588.9	11.0
40°-50°	6001.8	18.4
50°-60°	8363.5	25.7
60°-70°	7755.8	23.8
70°-80°	3090.9	9.5
80°-90°	324.9	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°	32576.0	100.0
0°-180°	32576.0	100.0



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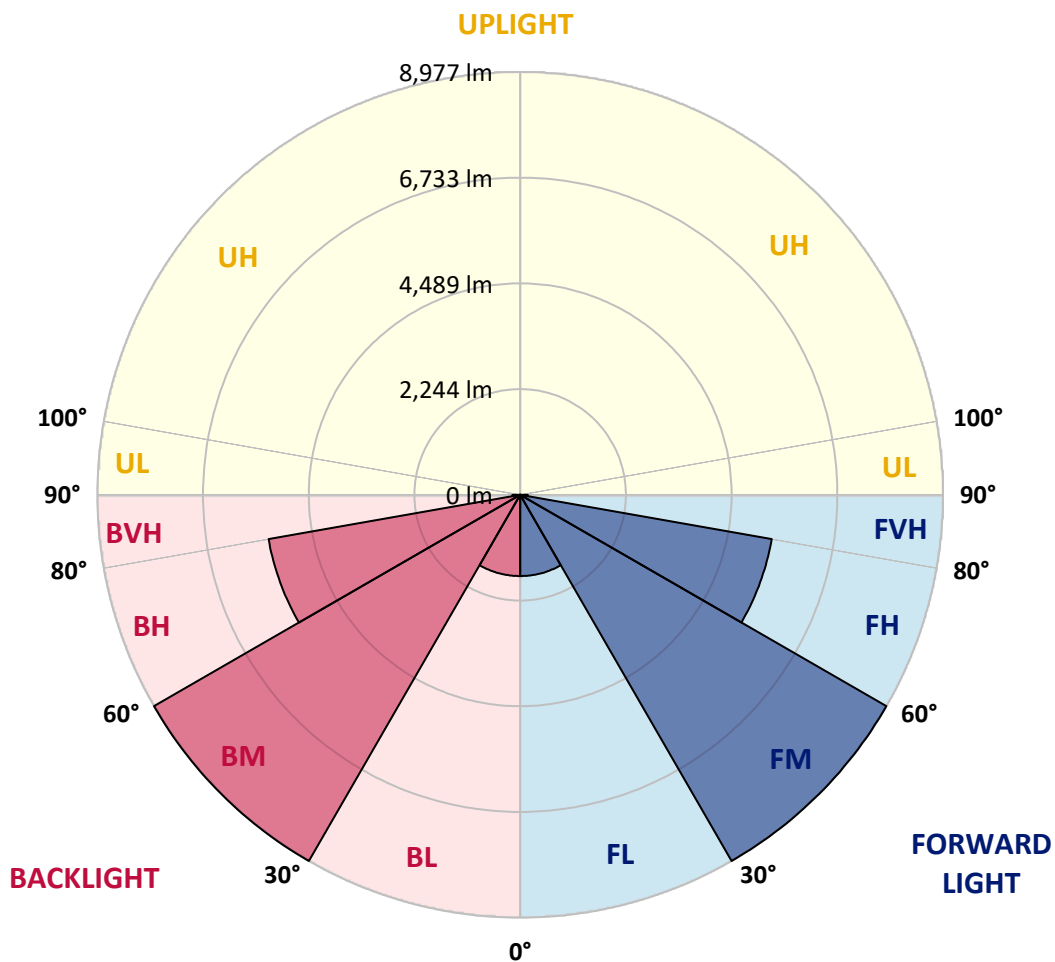
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1725.0	5.3			
FM	(30°-60°)	8977.1	27.6			
FH	(60°-80°)	5423.4	16.6			G3/7500
FVH	(80°-90°)	162.5	0.5			G2/225
BL	(0°-30°)	1725.0	5.3	B3/2500		
BM	(30°-60°)	8977.1	27.6	B5		
BH	(60°-80°)	5423.4	16.6	B5		G5
BVH	(80°-90°)	162.5	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°	3613.4	3613.4	3613.4	3613.4	3613.4	3613.4	3613.4	3613.4	3613.4	3613.4	3613.4
2.5°	3607.3	3604.2	3607.3	3605.7	3608.8	3608.8	3611.9	3618.1	3618.1	3622.7	3621.1
5°	3571.9	3570.3	3574.9	3579.6	3584.2	3593.4	3602.7	3616.5	3627.3	3635.0	3642.7
7.5°	3502.6	3502.6	3508.7	3519.5	3530.3	3550.3	3571.9	3599.6	3627.3	3650.4	3670.4
10°	3445.6	3448.7	3456.4	3474.9	3493.3	3524.1	3553.4	3593.4	3631.9	3670.4	3701.2
12.5°	3411.8	3416.4	3430.2	3457.9	3488.7	3530.3	3574.9	3625.8	3668.9	3715.1	3745.8
15°	3422.5	3425.6	3445.6	3479.5	3519.5	3571.9	3631.9	3692.0	3742.8	3792.0	3833.6
17.5°	3482.6	3487.2	3510.3	3548.8	3590.3	3651.9	3716.6	3784.3	3847.5	3902.9	3953.7
20°	3590.3	3595.0	3624.2	3665.8	3715.1	3778.2	3842.8	3913.7	3984.5	4043.0	4100.0
22.5°	3742.8	3750.5	3778.2	3819.7	3875.2	3942.9	4019.9	4095.3	4163.1	4217.0	4267.8
25°	3942.9	3959.8	3986.0	4032.2	4090.7	4152.3	4235.4	4312.4	4377.1	4427.9	4464.8
27.5°	4226.2	4249.3	4269.3	4314.0	4370.9	4429.4	4512.6	4580.3	4641.9	4691.2	4718.9
30°	4601.9	4625.0	4645.0	4688.1	4740.4	4795.8	4874.4	4934.4	4972.9	5011.4	5009.9
32.5°	5057.6	5082.2	5089.9	5136.1	5190.0	5250.0	5320.9	5354.7	5385.5	5390.1	5362.4
35°	5567.2	5579.5	5610.3	5671.9	5733.5	5782.7	5850.5	5867.4	5867.4	5844.3	5782.7
37.5°	6126.1	6133.8	6176.9	6246.2	6309.3	6360.1	6406.3	6440.1	6423.2	6373.9	6270.8
40°	6738.8	6752.7	6814.3	6875.8	6946.7	6994.4	7043.7	7049.8	7032.9	6960.5	6820.4
42.5°	7323.9	7336.2	7397.8	7494.8	7587.1	7653.3	7699.5	7708.8	7654.9	7588.7	7414.7
45°	7827.3	7859.7	7939.7	8053.6	8187.6	8281.5	8344.6	8370.8	8323.1	8236.9	8035.2
47.5°	8226.1	8258.4	8372.3	8507.8	8674.1	8826.5	8931.2	8986.6	8974.3	8909.7	8689.5
50°	8518.6	8549.4	8672.6	8838.8	9032.8	9222.2	9400.8	9533.2	9579.4	9550.1	9348.4
52.5°	8552.5	8603.3	8748.0	8971.2	9223.7	9482.4	9736.4	9961.2	10113.6	10136.7	9987.4
55°	8079.8	8130.6	8330.8	8661.8	9037.4	9459.3	9865.7	10244.5	10544.7	10698.7	10620.1
57.5°	6965.1	7056.0	7266.9	7654.9	8207.6	8838.8	9487.0	10159.8	10771.0	11179.0	11257.5
60°	5337.8	5445.6	5658.0	6070.6	6686.5	7439.3	8304.6	9299.2	10378.4	11296.0	11844.1
62.5°	3424.1	3525.7	3748.9	4107.6	4609.6	5425.5	6353.9	7534.8	8985.1	10433.9	11739.4
65°	1759.8	1815.2	1932.2	2149.3	2540.3	3150.0	3982.9	5160.7	6818.9	8606.4	10493.9
67.5°	1114.7	1125.4	1151.6	1182.4	1282.5	1493.4	1881.4	2615.8	3979.9	5844.3	8053.6
70°	963.8	963.8	951.5	946.9	959.2	988.4	1048.5	1219.4	1679.7	2774.4	4645.0
72.5°	882.2	873.0	851.4	834.5	831.4	831.4	843.7	869.9	943.8	1130.1	1818.3
75°	812.9	786.7	757.5	737.5	729.8	722.1	720.5	725.2	740.5	769.8	868.3
77.5°	728.2	694.4	660.5	640.5	631.2	620.5	611.2	600.4	592.7	602.0	645.1
80°	626.6	588.1	562.0	549.6	540.4	525.0	505.0	486.5	469.6	466.5	492.7
82.5°	505.0	460.3	461.9	466.5	449.6	428.0	406.5	386.4	357.2	341.8	357.2
85°	408.0	384.9	374.1	403.4	378.7	346.4	312.5	277.1	230.9	194.0	210.9
87.5°	158.6	158.6	237.1	364.9	327.9	267.9	229.4	195.5	121.6	93.9	95.5
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°	3613.4	3613.4	3613.4	3613.4	3613.4	3613.4	3613.4	3613.4
2.5°	3619.6	3622.7	3621.1	3619.6	3619.6	3618.1	3619.6	3619.6
5°	3647.3	3655.0	3655.0	3658.1	3658.1	3659.6	3661.2	3659.6
7.5°	3688.9	3702.7	3712.0	3722.7	3724.3	3725.8	3728.9	3725.8
10°	3730.4	3758.2	3778.2	3798.2	3807.4	3810.5	3813.6	3813.6
12.5°	3782.8	3821.3	3856.7	3892.1	3909.0	3918.3	3918.3	3924.4
15°	3869.0	3907.5	3949.1	3996.8	4026.0	4041.4	4046.1	4046.1
17.5°	3990.6	4024.5	4059.9	4106.1	4143.1	4163.1	4167.7	4166.2
20°	4132.3	4164.6	4184.6	4213.9	4246.2	4269.3	4275.5	4275.5
22.5°	4293.9	4312.4	4315.5	4324.7	4350.9	4381.7	4395.6	4398.6
25°	4472.5	4477.2	4464.8	4464.8	4481.8	4511.0	4524.9	4526.4
27.5°	4703.5	4680.4	4649.6	4638.8	4649.6	4683.5	4700.4	4706.6
30°	4991.4	4936.0	4865.1	4826.6	4820.5	4865.1	4895.9	4900.5
32.5°	5320.9	5240.8	5146.9	5068.4	5048.3	5076.1	5113.0	5111.5
35°	5711.9	5616.5	5502.5	5402.5	5356.3	5384.0	5436.3	5442.5
37.5°	6163.0	6038.3	5907.4	5781.2	5708.8	5716.5	5772.0	5790.4
40°	6666.5	6504.8	6340.1	6170.7	6067.6	6047.5	6115.3	6126.1
42.5°	7205.3	6997.5	6789.6	6580.2	6447.8	6417.0	6495.6	6490.9
45°	7779.6	7514.8	7271.5	7040.6	6883.5	6837.4	6902.0	6902.0
47.5°	8397.0	8070.6	7781.1	7519.4	7348.5	7282.3	7343.9	7348.5
50°	9051.3	8704.9	8364.6	8073.7	7868.9	7784.2	7864.3	7876.6
52.5°	9702.5	9365.4	9022.0	8689.5	8441.6	8338.5	8430.8	8470.9
55°	10363.0	10032.0	9704.1	9379.2	9085.2	8963.5	9062.1	9112.9
57.5°	11060.5	10754.1	10441.6	10113.6	9830.3	9641.0	9745.7	9813.4
60°	11878.0	11616.3	11291.4	10929.6	10643.2	10450.8	10510.8	10570.9
62.5°	12524.6	12626.2	12350.7	11931.9	11563.9	11317.6	11376.1	11439.2
65°	12212.1	13254.4	13499.2	13075.8	12566.2	12182.8	12158.2	12190.5
67.5°	10207.5	12232.1	13708.6	14112.0	13685.5	13152.8	13054.3	13102.0
70°	6828.1	9350.0	11955.0	13894.9	14410.6	14204.3	14107.3	14136.6
72.5°	3279.3	5445.6	8110.6	10689.4	12259.8	12980.4	13211.3	13323.7
75°	1199.3	2161.6	3909.0	5890.5	7111.4	8232.2	8963.5	9262.2
77.5°	723.6	873.0	1248.6	1879.8	2129.3	2383.3	2284.8	2334.0
80°	535.8	605.1	685.1	769.8	797.5	797.5	766.7	742.1
82.5°	375.7	420.3	458.8	505.0	517.3	494.2	406.5	323.3
85°	241.7	261.7	278.7	307.9	300.2	286.4	192.4	170.9
87.5°	110.9	126.2	132.4	146.3	140.1	133.9	95.5	80.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)