

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: P193546

Luminaire Tested: **GLEON-AF-08-LED-E1-RW-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193546
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-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32150 lumens
Efficiency: N/A
Efficacy: 96.3 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

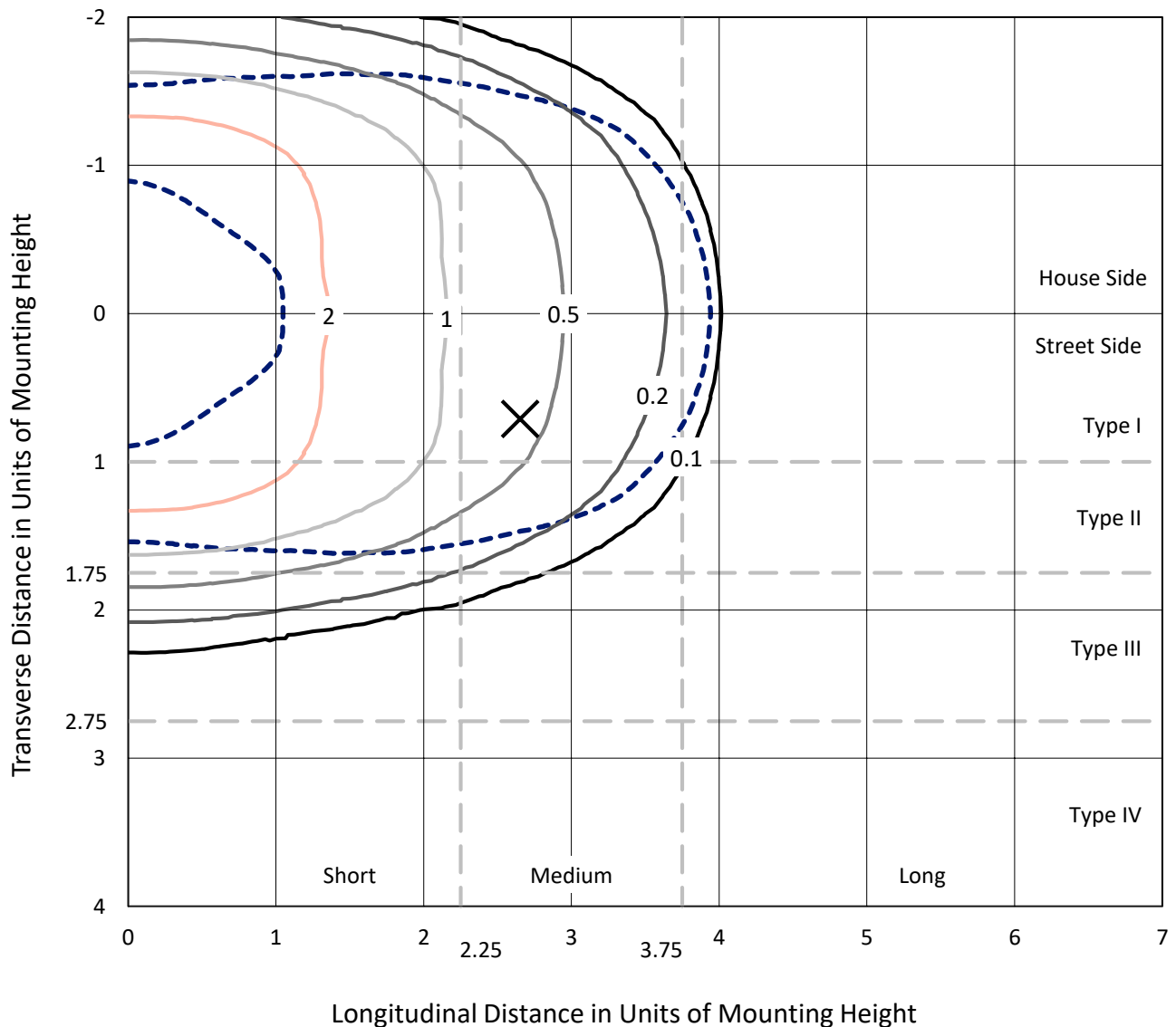
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193546
 CATALOG NUMBER: GLEON-AF-08-LED-E1-RW-8030-800

Iso-Footcandle Lines of Horizontal Illumination

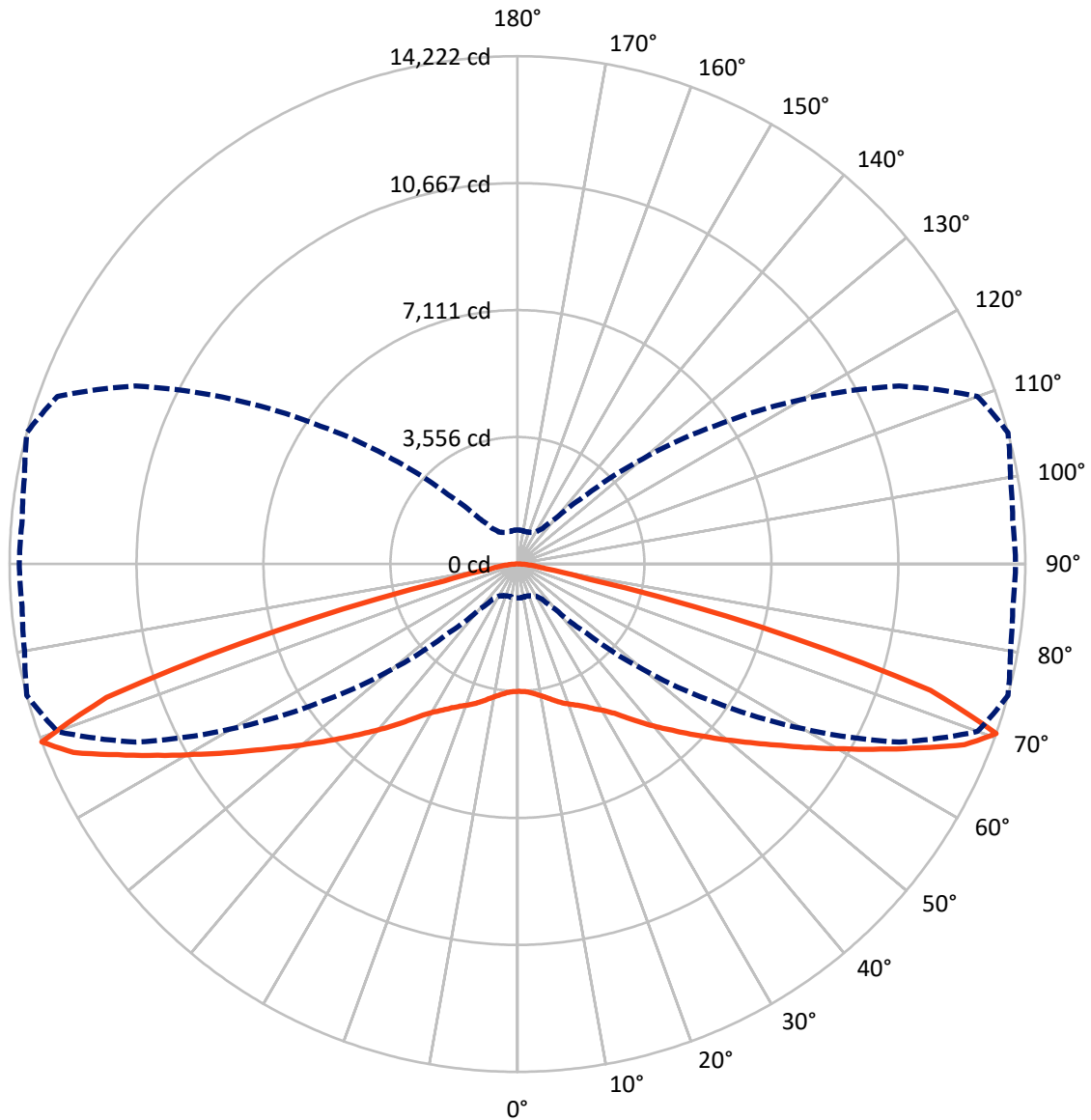
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P193546
CATALOG NUMBER: GLEON-AF-08-LED-E1-RW-8030-800

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P193546

CATALOG NUMBER: GLEON-AF-08-LED-E1-RW-8030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16075.0	0.0	16075.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16075.0	0.0	16075.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32150.0	0.0	32150.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.0	1.1
10°-20°	1062.7	3.3
20°-30°	2000.2	6.2
30°-40°	3542.0	11.0
40°-50°	5923.3	18.4
50°-60°	8254.2	25.7
60°-70°	7654.4	23.8
70°-80°	3050.5	9.5
80°-90°	320.7	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°	32150.0	100.0
0°-180°	32150.0	100.0



REPORT NUMBER: P193546

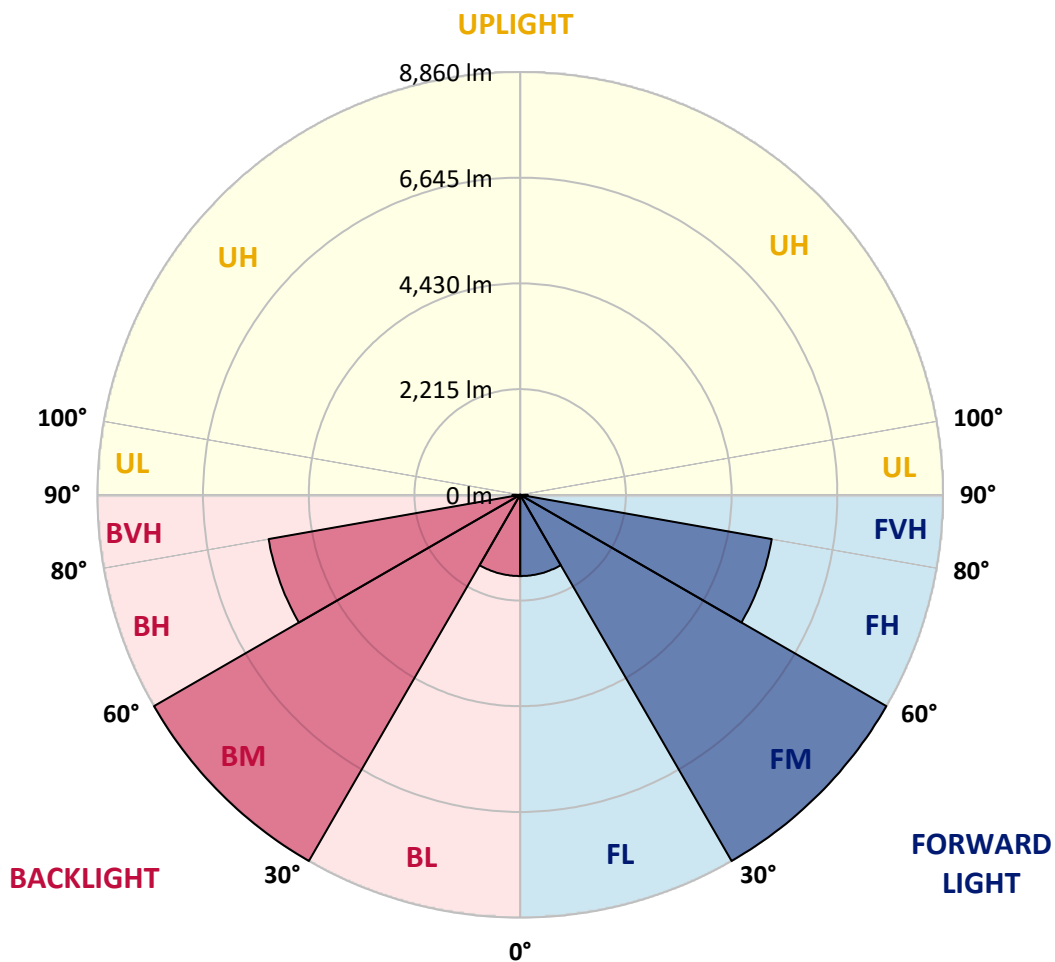
CATALOG NUMBER: GLEON-AF-08-LED-E1-RW-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1702.5	5.3			
FM	(30°-60°)	8859.7	27.6			
FH	(60°-80°)	5352.5	16.6			G3/7500
FVH	(80°-90°)	160.3	0.5			G2/225
BL	(0°-30°)	1702.5	5.3	B3/2500		
BM	(30°-60°)	8859.7	27.6	B5		
BH	(60°-80°)	5352.5	16.6	B5		G5
BVH	(80°-90°)	160.3	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





REPORT NUMBER: P193546

CATALOG NUMBER: GLEON-AF-08-LED-E1-RW-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3566.2	3566.2	3566.2	3566.2	3566.2	3566.2	3566.2	3566.2	3566.2	3566.2	3566.2
2.5°	3560.1	3557.1	3560.1	3558.6	3561.6	3561.6	3564.7	3570.7	3570.7	3575.3	3573.8
5°	3525.2	3523.6	3528.2	3532.8	3537.3	3546.4	3555.5	3569.2	3579.9	3587.5	3595.1
7.5°	3456.8	3456.8	3462.9	3473.5	3484.1	3503.9	3525.2	3552.5	3579.9	3602.7	3622.4
10°	3400.6	3403.6	3411.2	3429.4	3447.7	3478.1	3506.9	3546.4	3584.4	3622.4	3652.8
12.5°	3367.1	3371.7	3385.4	3412.7	3443.1	3484.1	3528.2	3578.3	3620.9	3666.5	3696.9
15°	3377.8	3380.8	3400.6	3434.0	3473.5	3525.2	3584.4	3643.7	3693.8	3742.4	3783.5
17.5°	3437.0	3441.6	3464.4	3502.4	3543.4	3604.2	3668.0	3734.8	3797.1	3851.8	3902.0
20°	3543.4	3548.0	3576.8	3617.8	3666.5	3728.8	3792.6	3862.5	3932.4	3990.1	4046.3
22.5°	3693.8	3701.4	3728.8	3769.8	3824.5	3891.3	3967.3	4041.8	4108.6	4161.8	4212.0
25°	3891.3	3908.1	3933.9	3979.5	4037.2	4098.0	4180.0	4256.0	4319.8	4370.0	4406.4
27.5°	4170.9	4193.7	4213.5	4257.5	4313.8	4371.5	4453.6	4520.4	4581.2	4629.8	4657.2
30°	4541.7	4564.5	4584.2	4626.8	4678.4	4733.1	4810.6	4869.9	4907.9	4945.9	4944.3
32.5°	4991.4	5015.8	5023.4	5068.9	5122.1	5181.4	5251.3	5284.7	5315.1	5319.6	5292.3
35°	5494.4	5506.5	5536.9	5597.7	5658.5	5707.1	5774.0	5790.7	5790.7	5767.9	5707.1
37.5°	6046.0	6053.5	6096.1	6164.5	6226.8	6276.9	6322.5	6355.9	6339.2	6290.6	6188.8
40°	6650.7	6664.4	6725.2	6785.9	6855.8	6902.9	6951.6	6957.6	6940.9	6869.5	6731.2
42.5°	7228.1	7240.3	7301.0	7396.8	7487.9	7553.3	7598.8	7608.0	7554.8	7489.4	7317.7
45°	7725.0	7756.9	7835.9	7948.3	8080.5	8173.2	8235.5	8261.3	8214.2	8129.1	7930.1
47.5°	8118.5	8150.4	8262.9	8396.6	8560.7	8711.1	8814.4	8869.1	8857.0	8793.1	8575.9
50°	8407.2	8437.6	8559.1	8723.2	8914.7	9101.6	9277.9	9408.5	9454.1	9425.2	9226.2
52.5°	8440.6	8490.8	8633.6	8853.9	9103.1	9358.4	9609.1	9830.9	9981.4	10004.2	9856.8
55°	7974.2	8024.3	8221.8	8548.5	8919.3	9335.6	9736.7	10110.5	10406.8	10558.8	10481.3
57.5°	6874.1	6963.7	7171.9	7554.8	8100.3	8723.2	9362.9	10026.9	10630.2	11032.8	11110.3
60°	5268.0	5374.3	5584.0	5991.3	6599.0	7342.1	8196.0	9177.6	10242.7	11148.3	11689.2
62.5°	3379.3	3479.6	3699.9	4053.9	4549.3	5354.6	6270.8	7436.3	8867.6	10297.4	11585.9
65°	1736.7	1791.4	1906.9	2121.2	2507.1	3108.8	3930.9	5093.2	6729.7	8493.8	10356.7
67.5°	1100.1	1110.7	1136.6	1166.9	1265.7	1473.9	1856.8	2581.6	3927.8	5767.9	7948.3
70°	951.2	951.2	939.0	934.5	946.6	975.5	1034.8	1203.4	1657.7	2738.1	4584.2
72.5°	870.7	861.5	840.3	823.5	820.5	820.5	832.7	858.5	931.4	1115.3	1794.5
75°	802.3	776.4	747.6	727.8	720.2	712.6	711.1	715.7	730.9	759.7	857.0
77.5°	718.7	685.3	651.9	632.1	623.0	612.3	603.2	592.6	585.0	594.1	636.7
80°	618.4	580.4	554.6	542.4	533.3	518.1	498.4	480.2	463.4	460.4	486.2
82.5°	498.4	454.3	455.8	460.4	443.7	422.4	401.1	381.4	352.5	337.3	352.5
85°	402.7	379.9	369.2	398.1	373.8	341.9	308.5	273.5	227.9	191.5	208.2
87.5°	156.5	156.5	234.0	360.1	323.6	264.4	226.4	193.0	120.0	92.7	94.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P193546

CATALOG NUMBER: GLEON-AF-08-LED-E1-RW-8030-800

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3566.2	3566.2	3566.2	3566.2	3566.2	3566.2	3566.2	3566.2
2.5°	3572.3	3575.3	3573.8	3572.3	3572.3	3570.7	3572.3	3572.3
5°	3599.6	3607.2	3607.2	3610.2	3610.2	3611.8	3613.3	3611.8
7.5°	3640.6	3654.3	3663.4	3674.1	3675.6	3677.1	3680.1	3677.1
10°	3681.7	3709.0	3728.8	3748.5	3757.6	3760.7	3763.7	3763.7
12.5°	3733.3	3771.3	3806.3	3841.2	3857.9	3867.0	3867.0	3873.1
15°	3818.4	3856.4	3897.4	3944.5	3973.4	3988.6	3993.2	3993.2
17.5°	3938.5	3971.9	4006.8	4052.4	4088.9	4108.6	4113.2	4111.7
20°	4078.2	4110.2	4129.9	4158.8	4190.7	4213.5	4219.6	4219.6
22.5°	4237.8	4256.0	4259.1	4268.2	4294.0	4324.4	4338.1	4341.1
25°	4414.0	4418.6	4406.4	4406.4	4423.2	4452.0	4465.7	4467.2
27.5°	4642.0	4619.2	4588.8	4578.1	4588.8	4622.2	4638.9	4645.0
30°	4926.1	4871.4	4801.5	4763.5	4757.4	4801.5	4831.9	4836.5
32.5°	5251.3	5172.3	5079.6	5002.1	4982.3	5009.7	5046.1	5044.6
35°	5637.2	5543.0	5430.6	5331.8	5286.2	5313.6	5365.2	5371.3
37.5°	6082.4	5959.3	5830.2	5705.6	5634.2	5641.8	5696.5	5714.7
40°	6579.3	6419.7	6257.2	6090.0	5988.2	5968.5	6035.3	6046.0
42.5°	7111.1	6906.0	6700.8	6494.2	6363.5	6333.1	6410.6	6406.1
45°	7677.9	7416.5	7176.4	6948.5	6793.5	6747.9	6811.8	6811.8
47.5°	8287.2	7965.0	7679.4	7421.1	7252.4	7187.1	7247.8	7252.4
50°	8932.9	8591.1	8255.3	7968.1	7766.0	7682.4	7761.4	7773.6
52.5°	9575.7	9242.9	8904.1	8575.9	8331.2	8229.4	8320.6	8360.1
55°	10227.5	9900.8	9577.2	9256.6	8966.4	8846.3	8943.6	8993.7
57.5°	10915.8	10613.5	10305.0	9981.4	9701.8	9514.9	9618.2	9685.1
60°	11722.7	11464.4	11143.8	10786.7	10504.1	10314.1	10373.4	10432.6
62.5°	12360.8	12461.1	12189.1	11775.9	11412.7	11169.6	11227.3	11289.6
65°	12052.4	13081.1	13322.7	12904.8	12401.9	12023.5	11999.2	12031.1
67.5°	10074.1	12072.1	13529.3	13927.4	13506.5	12980.8	12883.5	12930.6
70°	6738.8	9227.7	11798.6	13713.2	14222.2	14018.6	13922.9	13951.7
72.5°	3236.5	5374.3	8004.5	10549.6	12099.5	12810.6	13038.5	13149.4
75°	1183.7	2133.3	3857.9	5813.5	7018.4	8124.6	8846.3	9141.1
77.5°	714.1	861.5	1232.3	1855.3	2101.4	2352.1	2254.9	2303.5
80°	528.8	597.1	676.2	759.7	787.1	787.1	756.7	732.4
82.5°	370.7	414.8	452.8	498.4	510.5	487.7	401.1	319.1
85°	238.6	258.3	275.0	303.9	296.3	282.6	189.9	168.7
87.5°	109.4	124.6	130.7	144.3	138.3	132.2	94.2	79.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)