

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: P191004

Luminaire Tested: **GLEON-AF-06-LED-E1-RW-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191004
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-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30076.8 lumens
Efficiency: N/A
Efficacy: 120.8 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): 249
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

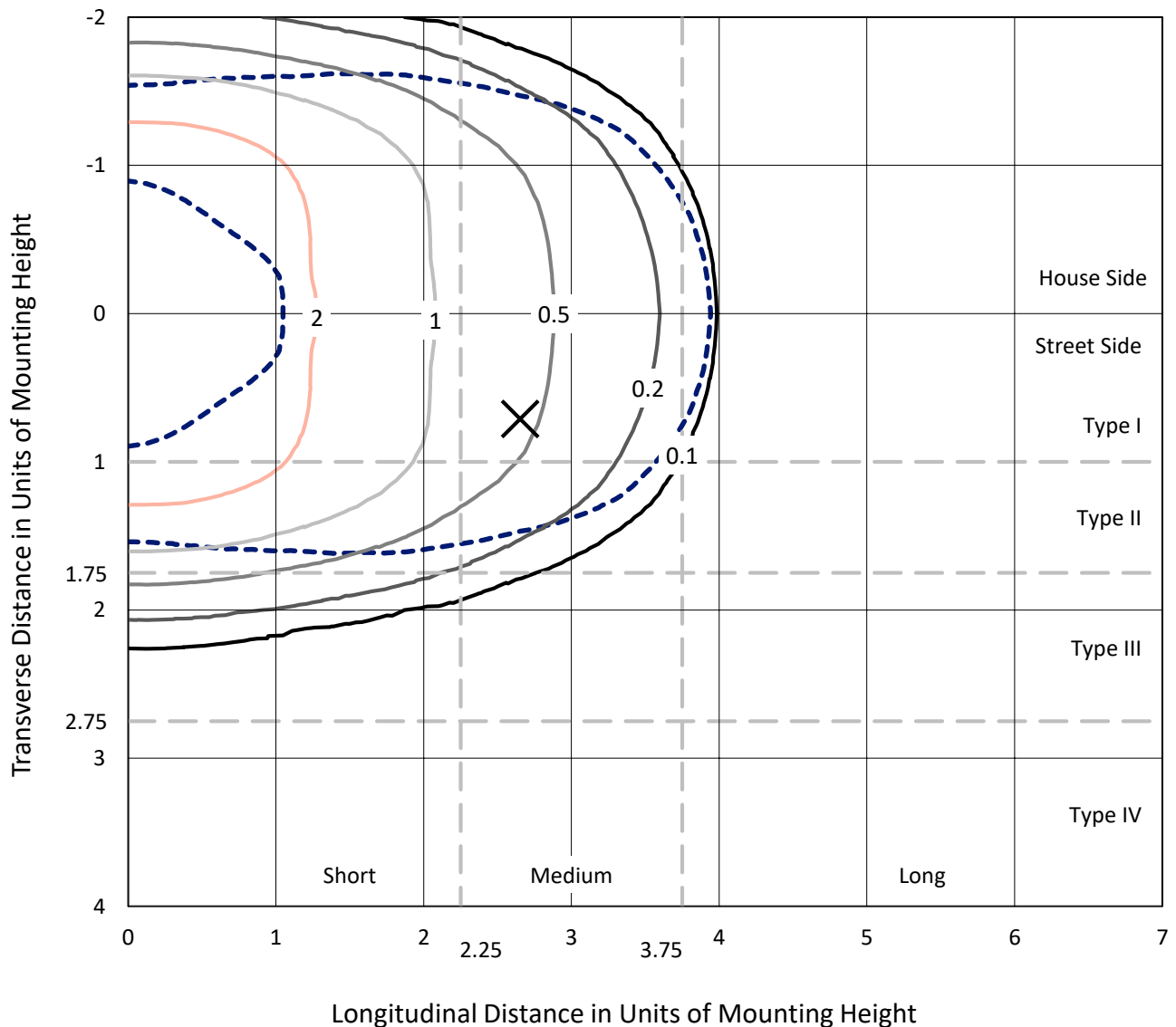


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

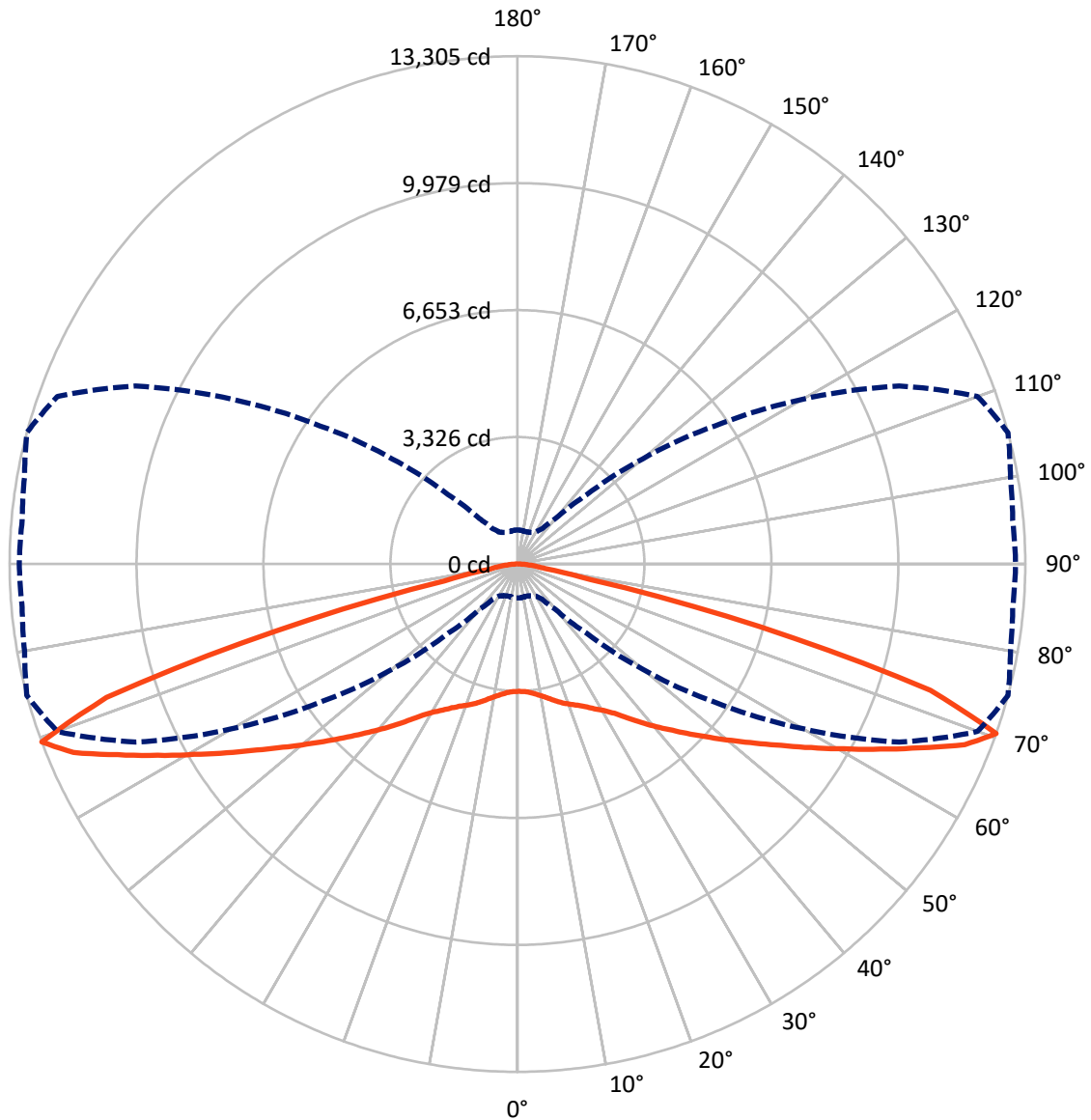


Based on 30 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Medium - Full Cutoff

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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	15038.4	0.0	15038.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15038.4	0.0	15038.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	30076.8	0.0	30076.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.0	1.1
10°-20°	994.2	3.3
20°-30°	1871.2	6.2
30°-40°	3313.6	11.0
40°-50°	5541.4	18.4
50°-60°	7721.9	25.7
60°-70°	7160.8	23.8
70°-80°	2853.8	9.5
80°-90°	300.0	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°	30076.8	100.0
0°-180°	30076.8	100.0



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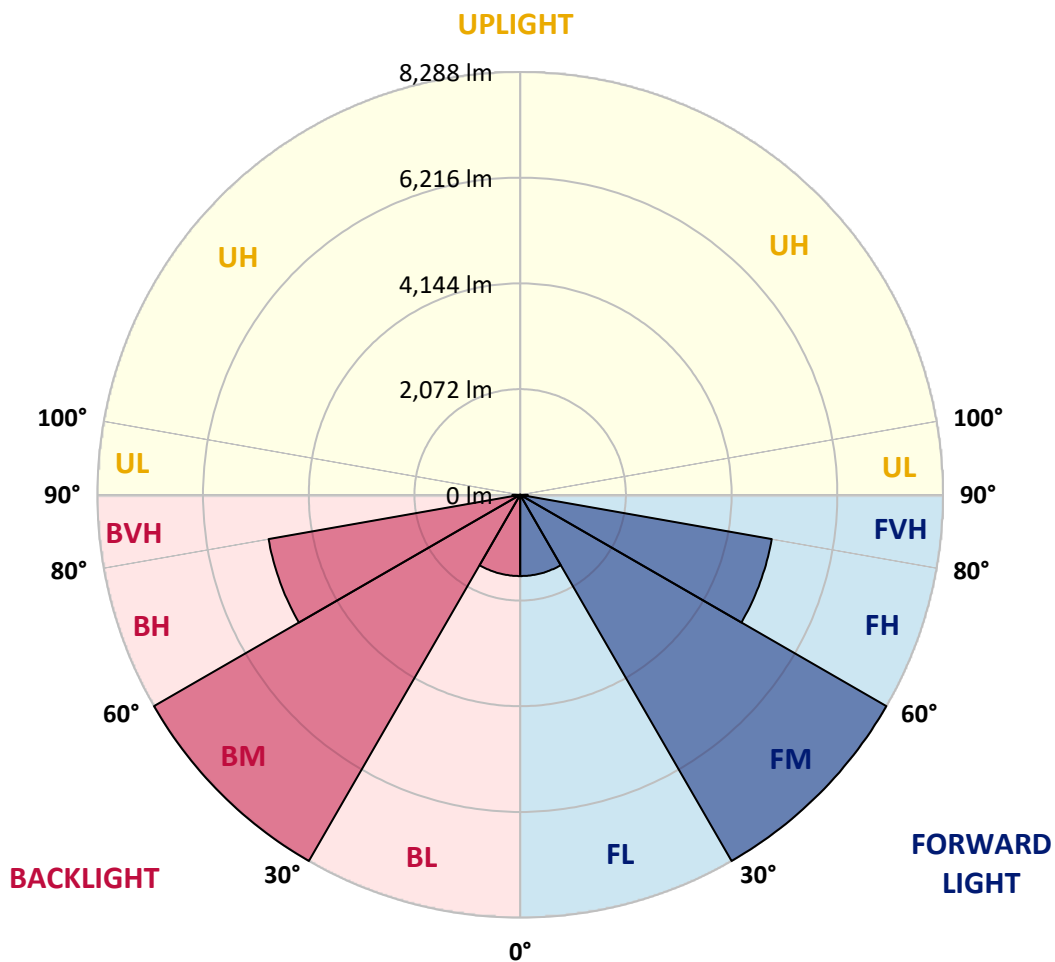
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1592.7	5.3			
FM	(30°-60°)	8288.4	27.6			
FH	(60°-80°)	5007.3	16.6			G3/7500
FVH	(80°-90°)	150.0	0.5			G2/225
BL	(0°-30°)	1592.7	5.3	B3/2500		
BM	(30°-60°)	8288.4	27.6	B4/8500		
BH	(60°-80°)	5007.3	16.6	B5		G5
BVH	(80°-90°)	150.0	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°	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3
2.5°	3330.5	3327.7	3330.5	3329.1	3332.0	3332.0	3334.8	3340.4	3340.4	3344.7	3343.3
5°	3297.8	3296.5	3300.7	3304.9	3309.2	3317.7	3326.2	3339.0	3349.0	3356.1	3363.3
7.5°	3233.9	3233.9	3239.6	3249.5	3259.4	3277.9	3297.8	3323.5	3349.0	3370.3	3388.8
10°	3181.3	3184.1	3191.2	3208.3	3225.4	3253.8	3280.8	3317.7	3353.2	3388.8	3417.3
12.5°	3150.0	3154.3	3167.1	3192.6	3221.1	3259.4	3300.7	3347.6	3387.4	3430.1	3458.5
15°	3160.0	3162.8	3181.3	3212.6	3249.5	3297.8	3353.2	3408.7	3455.6	3501.2	3539.5
17.5°	3215.4	3219.6	3241.0	3276.5	3314.9	3371.7	3431.5	3494.0	3552.3	3603.4	3650.4
20°	3314.9	3319.2	3346.2	3384.5	3430.1	3488.4	3548.0	3613.4	3678.8	3732.8	3785.4
22.5°	3455.6	3462.7	3488.4	3526.7	3577.9	3640.4	3711.5	3781.1	3843.7	3893.5	3940.3
25°	3640.4	3656.0	3680.2	3722.8	3776.8	3833.7	3910.5	3981.5	4041.3	4088.2	4122.3
27.5°	3901.9	3923.3	3941.7	3983.0	4035.5	4089.6	4166.4	4228.9	4285.8	4331.3	4356.8
30°	4248.8	4270.1	4288.6	4328.4	4376.7	4427.9	4500.4	4555.8	4591.4	4626.9	4625.5
32.5°	4669.6	4692.3	4699.4	4742.1	4791.8	4847.3	4912.6	4943.9	4972.4	4976.7	4951.0
35°	5140.1	5151.5	5179.9	5236.7	5293.6	5339.1	5401.6	5417.2	5417.2	5396.0	5339.1
37.5°	5656.1	5663.2	5703.0	5767.0	5825.2	5872.1	5914.8	5946.1	5930.5	5884.9	5789.7
40°	6221.8	6234.6	6291.5	6348.3	6413.7	6457.8	6503.3	6508.9	6493.3	6426.5	6297.2
42.5°	6762.0	6773.4	6830.2	6919.8	7005.1	7066.2	7108.8	7117.4	7067.6	7006.5	6845.9
45°	7226.8	7256.7	7330.6	7435.7	7559.4	7646.1	7704.5	7728.6	7684.5	7604.9	7418.7
47.5°	7595.0	7624.9	7730.0	7855.1	8008.6	8149.3	8246.0	8297.2	8285.8	8226.2	8022.8
50°	7865.1	7893.5	8007.2	8160.7	8339.8	8514.6	8679.5	8801.8	8844.4	8817.4	8631.2
52.5°	7896.4	7943.2	8076.8	8282.9	8516.1	8754.9	8989.5	9196.9	9337.7	9359.1	9221.2
55°	7460.0	7506.8	7691.7	7997.2	8344.1	8733.5	9108.9	9458.5	9735.7	9877.9	9805.4
57.5°	6430.8	6514.7	6709.4	7067.6	7577.9	8160.7	8759.2	9380.4	9944.7	10321.4	10393.9
60°	4928.3	5027.8	5223.9	5605.0	6173.5	6868.6	7667.4	8585.7	9582.2	10429.4	10935.4
62.5°	3161.3	3255.2	3461.4	3792.5	4255.9	5009.3	5866.4	6956.8	8295.7	9633.3	10838.8
65°	1624.8	1675.9	1783.9	1984.4	2345.4	2908.4	3677.4	4764.8	6295.8	7946.1	9688.8
67.5°	1029.2	1039.1	1063.3	1091.7	1184.1	1378.8	1737.1	2415.1	3674.5	5396.0	7435.7
70°	889.9	889.9	878.5	874.2	885.6	912.6	968.0	1125.9	1550.8	2561.5	4288.6
72.5°	814.5	806.0	786.0	770.5	767.6	767.6	779.0	803.1	871.3	1043.4	1678.8
75°	750.5	726.4	699.4	680.9	673.8	666.7	665.2	669.5	683.7	710.7	801.7
77.5°	672.4	641.1	609.8	591.4	582.8	572.9	564.4	554.3	547.3	555.8	595.6
80°	578.6	543.0	518.8	507.5	498.9	484.8	466.3	449.2	433.5	430.7	454.9
82.5°	466.3	425.0	426.5	430.7	415.1	395.2	375.3	356.8	329.8	315.6	329.8
85°	376.7	355.4	345.5	372.5	349.6	319.9	288.6	255.8	213.2	179.1	194.8
87.5°	146.4	146.4	218.9	336.9	302.8	247.3	211.8	180.6	112.3	86.7	88.2
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°	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3
2.5°	3341.9	3344.7	3343.3	3341.9	3341.9	3340.4	3341.9	3341.9
5°	3367.5	3374.6	3374.6	3377.5	3377.5	3378.9	3380.2	3378.9
7.5°	3405.9	3418.7	3427.2	3437.1	3438.5	3440.0	3442.8	3440.0
10°	3444.3	3469.8	3488.4	3506.8	3515.4	3518.1	3521.0	3521.0
12.5°	3492.6	3528.2	3560.8	3593.5	3609.2	3617.7	3617.7	3623.4
15°	3572.1	3607.7	3646.1	3690.2	3717.2	3731.4	3735.6	3735.6
17.5°	3684.5	3715.8	3748.4	3791.1	3825.2	3843.7	3847.9	3846.5
20°	3815.3	3845.1	3863.6	3890.6	3920.5	3941.7	3947.5	3947.5
22.5°	3964.5	3981.5	3984.4	3993.0	4017.1	4045.6	4058.4	4061.2
25°	4129.4	4133.6	4122.3	4122.3	4137.9	4164.9	4177.7	4179.2
27.5°	4342.6	4321.4	4292.9	4282.9	4292.9	4324.1	4339.8	4345.5
30°	4608.4	4557.2	4491.9	4456.4	4450.7	4491.9	4520.3	4524.6
32.5°	4912.6	4838.8	4752.0	4679.5	4661.1	4686.6	4720.7	4719.3
35°	5273.7	5185.5	5080.4	4988.0	4945.4	4970.9	5019.2	5024.9
37.5°	5690.2	5575.1	5454.3	5337.7	5270.9	5277.9	5329.2	5346.1
40°	6155.0	6005.7	5853.6	5697.3	5602.1	5583.6	5646.2	5656.1
42.5°	6652.6	6460.7	6268.7	6075.4	5953.2	5924.7	5997.3	5993.0
45°	7182.8	6938.3	6713.6	6500.4	6355.5	6312.8	6372.5	6372.5
47.5°	7752.7	7451.4	7184.2	6942.6	6784.7	6723.7	6780.4	6784.7
50°	8356.9	8037.0	7722.9	7454.2	7265.2	7187.0	7260.9	7272.3
52.5°	8958.2	8646.9	8329.9	8022.8	7794.0	7698.7	7784.0	7821.0
55°	9568.0	9262.4	8959.6	8659.7	8388.2	8275.9	8366.8	8413.8
57.5°	10211.9	9929.1	9640.5	9337.7	9076.1	8901.3	8998.0	9060.5
60°	10966.7	10725.1	10425.2	10091.1	9826.7	9649.0	9704.4	9759.9
62.5°	11563.7	11657.5	11403.1	11016.5	10676.7	10449.3	10503.4	10561.7
65°	11275.2	12237.6	12463.5	12072.7	11602.1	11248.2	11225.5	11255.3
67.5°	9424.4	11293.7	12656.9	13029.3	12635.6	12143.8	12052.7	12096.8
70°	6304.2	8632.7	11037.8	12828.8	13305.1	13114.6	13025.0	13052.0
72.5°	3027.7	5027.8	7488.4	9869.3	11319.3	11984.5	12197.8	12301.5
75°	1107.3	1995.8	3609.2	5438.6	6565.8	7600.6	8275.9	8551.7
77.5°	668.1	806.0	1152.9	1735.6	1965.9	2200.5	2109.5	2154.9
80°	494.7	558.6	632.6	710.7	736.3	736.3	707.9	685.2
82.5°	346.9	388.1	423.6	466.3	477.6	456.3	375.3	298.5
85°	223.2	241.6	257.3	284.3	277.2	264.4	177.7	157.7
87.5°	102.4	116.5	122.2	135.0	129.4	123.7	88.2	74.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)