

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: P269463

Luminaire Tested: **GLEON-AF-07-LED-E1-RW-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269463
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-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30209 lumens
Efficiency: N/A
Efficacy: 102.4 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

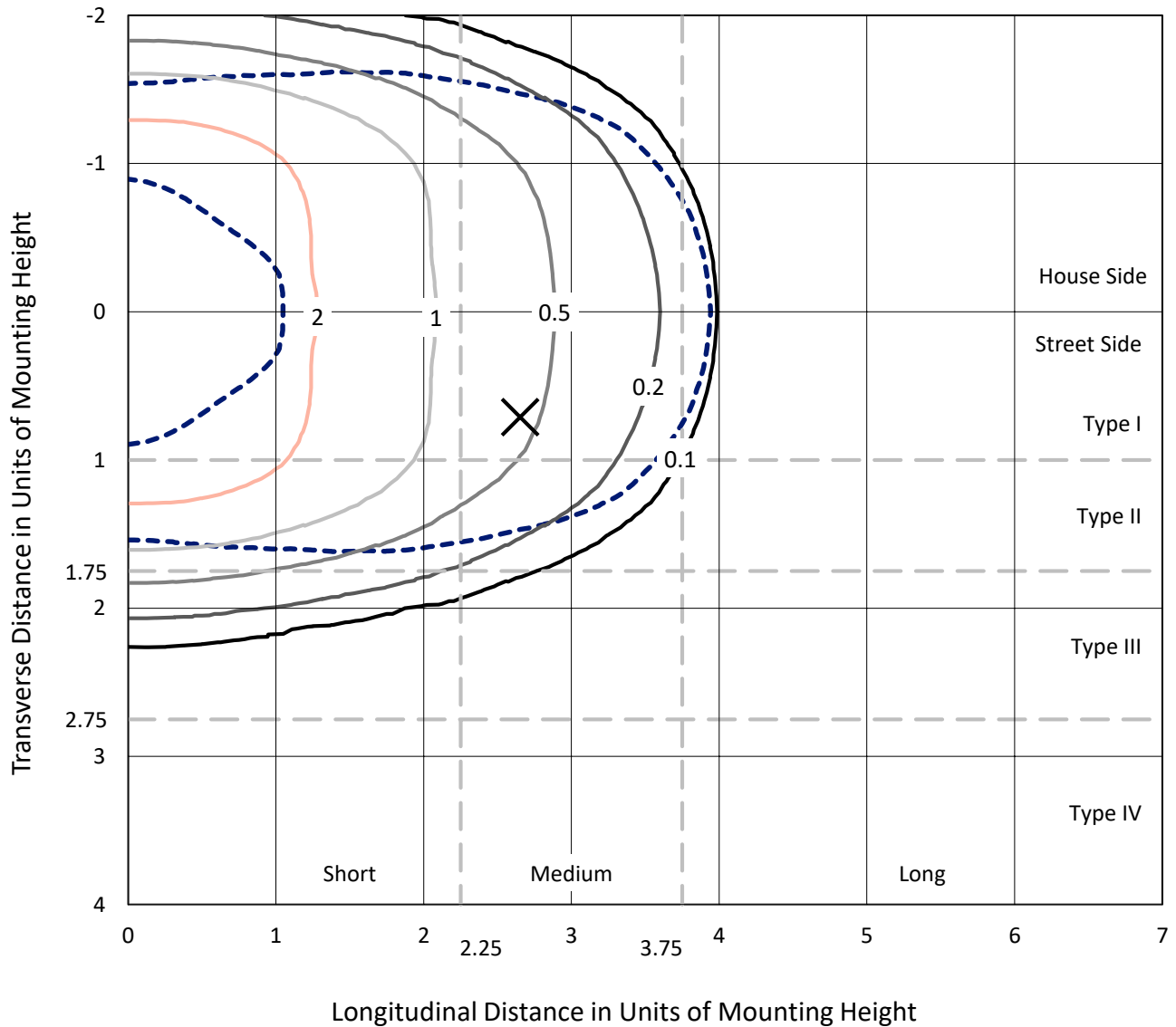


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Iso-Footcandle Lines of Horizontal Illumination

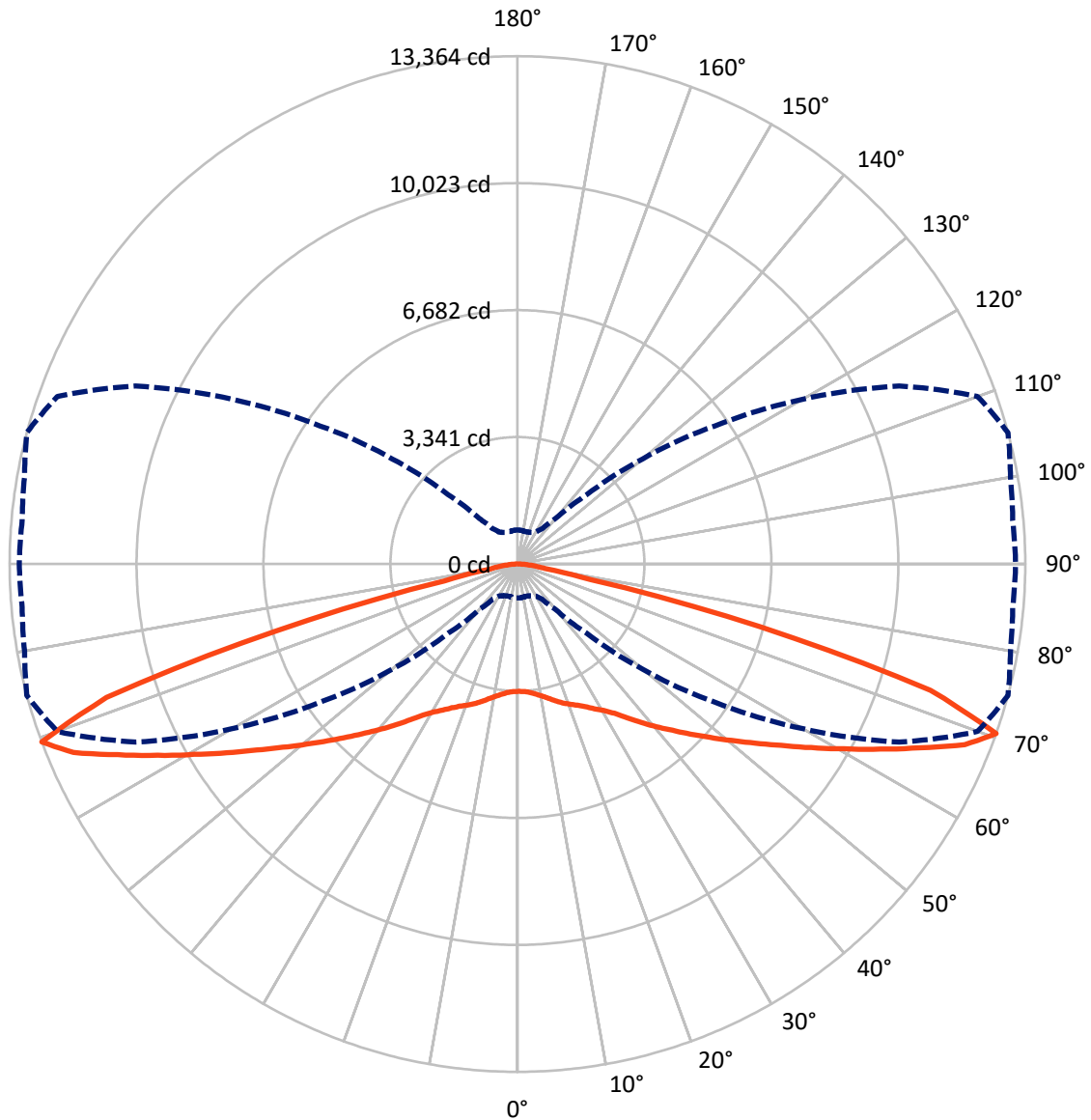
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.8 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	15104.5	0.0	15104.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15104.5	0.0	15104.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30209.0	0.0	30209.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.4	1.1
10°-20°	998.6	3.3
20°-30°	1879.4	6.2
30°-40°	3328.1	11.0
40°-50°	5565.7	18.4
50°-60°	7755.9	25.7
60°-70°	7192.3	23.8
70°-80°	2866.3	9.5
80°-90°	301.3	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°	30209.0	100.0
0°-180°	30209.0	100.0



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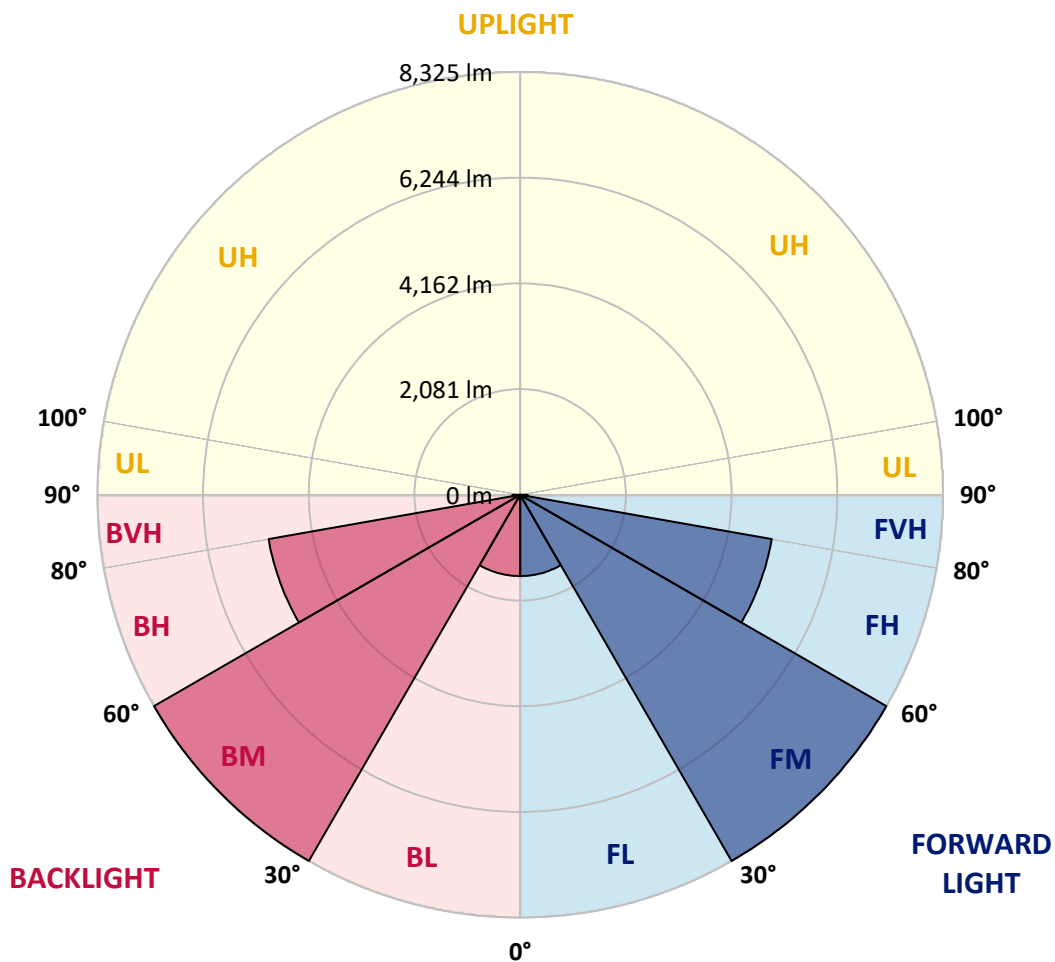
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1599.7	5.3			
FM	(30°-60°)	8324.9	27.6			
FH	(60°-80°)	5029.3	16.6			G3/7500
FVH	(80°-90°)	150.6	0.5			G2/225
BL	(0°-30°)	1599.7	5.3	B3/2500		
BM	(30°-60°)	8324.9	27.6	B4/8500		
BH	(60°-80°)	5029.3	16.6	B5		G5
BVH	(80°-90°)	150.6	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°	3350.9	3350.9	3350.9	3350.9	3350.9	3350.9	3350.9	3350.9	3350.9	3350.9	3350.9
2.5°	3345.2	3342.4	3345.2	3343.8	3346.5	3346.5	3349.5	3355.2	3355.2	3359.4	3358.0
5°	3312.3	3311.0	3315.1	3319.4	3323.8	3332.4	3340.8	3353.7	3363.8	3370.9	3377.9
7.5°	3248.1	3248.1	3253.8	3263.8	3273.9	3292.4	3312.3	3338.0	3363.8	3385.2	3403.7
10°	3195.2	3198.1	3205.2	3222.4	3239.5	3268.0	3295.3	3332.4	3368.0	3403.7	3432.2
12.5°	3163.8	3168.1	3181.0	3206.7	3235.2	3273.9	3315.1	3362.3	3402.3	3445.1	3473.7
15°	3173.8	3176.6	3195.2	3226.7	3263.8	3312.3	3368.0	3423.7	3470.8	3516.4	3555.0
17.5°	3229.5	3233.8	3255.2	3290.9	3329.5	3386.6	3446.5	3509.4	3567.9	3619.4	3666.4
20°	3329.5	3333.8	3360.9	3399.5	3445.1	3503.7	3563.7	3629.3	3695.0	3749.3	3802.0
22.5°	3470.8	3478.0	3503.7	3542.1	3593.6	3656.5	3727.7	3797.8	3860.6	3910.5	3957.7
25°	3656.5	3672.1	3696.3	3739.3	3793.5	3850.6	3927.7	3999.1	4059.0	4106.2	4140.4
27.5°	3919.1	3940.5	3959.1	4000.5	4053.3	4107.6	4184.7	4247.5	4304.6	4350.3	4376.1
30°	4267.5	4288.9	4307.5	4347.4	4395.9	4447.4	4520.2	4575.8	4611.5	4647.2	4645.9
32.5°	4690.1	4713.0	4720.1	4763.0	4812.8	4868.5	4934.2	4965.7	4994.1	4998.4	4972.7
35°	5162.6	5174.1	5202.7	5259.8	5316.9	5362.5	5425.4	5441.0	5441.0	5419.7	5362.5
37.5°	5680.9	5688.1	5728.0	5792.4	5850.8	5897.9	5940.9	5972.2	5956.5	5910.8	5815.2
40°	6249.1	6262.1	6319.1	6376.3	6441.9	6486.2	6531.8	6537.5	6521.9	6454.9	6324.8
42.5°	6791.7	6803.1	6860.3	6950.1	7035.9	7097.2	7140.1	7148.6	7098.6	7037.3	6875.9
45°	7258.6	7288.6	7362.8	7468.5	7592.7	7679.8	7738.3	7762.6	7718.2	7638.4	7451.4
47.5°	7628.3	7658.3	7764.1	7889.6	8043.9	8185.1	8282.3	8333.7	8322.3	8262.3	8058.2
50°	7899.6	7928.3	8042.4	8196.7	8376.4	8552.1	8717.7	8840.5	8883.3	8856.2	8669.3
52.5°	7931.0	7978.1	8112.4	8319.5	8553.5	8793.4	9029.0	9237.5	9378.8	9400.1	9261.6
55°	7492.8	7539.8	7725.5	8032.5	8380.7	8771.9	9148.9	9500.1	9778.5	9921.3	9848.5
57.5°	6459.1	6543.3	6738.8	7098.6	7611.2	8196.7	8797.7	9421.7	9988.4	10366.8	10439.6
60°	4949.9	5049.9	5246.9	5629.6	6200.6	6898.9	7701.2	8623.5	9624.4	10475.2	10983.5
62.5°	3175.2	3269.6	3476.5	3809.3	4274.7	5031.3	5892.3	6987.3	8332.1	9675.7	10886.5
65°	1632.0	1683.3	1791.8	1993.1	2355.7	2921.2	3693.6	4785.8	6323.3	7981.0	9731.3
67.5°	1033.7	1043.7	1067.9	1096.6	1189.3	1384.8	1744.7	2425.8	3690.6	5419.7	7468.5
70°	893.8	893.8	882.3	878.1	889.5	916.6	972.2	1130.7	1557.7	2572.7	4307.5
72.5°	818.0	809.6	789.5	773.8	770.9	770.9	782.5	806.7	875.2	1048.0	1686.2
75°	753.9	729.6	702.5	683.9	676.8	669.5	668.2	672.4	686.8	713.9	805.2
77.5°	675.3	643.9	612.6	593.9	585.3	575.4	566.8	556.8	549.7	558.2	598.2
80°	581.2	545.5	521.1	509.7	501.2	486.8	468.2	451.2	435.5	432.7	456.9
82.5°	468.2	426.9	428.3	432.7	417.0	397.0	376.8	358.3	331.3	316.9	331.3
85°	378.4	356.9	346.9	374.1	351.1	321.2	289.9	256.9	214.2	179.9	195.7
87.5°	147.1	147.1	219.8	338.4	304.0	248.4	212.7	181.3	112.7	87.0	88.6
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°	3350.9	3350.9	3350.9	3350.9	3350.9	3350.9	3350.9	3350.9
2.5°	3356.5	3359.4	3358.0	3356.5	3356.5	3355.2	3356.5	3356.5
5°	3382.3	3389.5	3389.5	3392.3	3392.3	3393.6	3395.1	3393.6
7.5°	3420.8	3433.7	3442.2	3452.2	3453.7	3455.2	3457.9	3455.2
10°	3459.5	3485.1	3503.7	3522.3	3530.8	3533.7	3536.4	3536.4
12.5°	3507.9	3543.6	3576.4	3609.3	3625.0	3633.6	3633.6	3639.4
15°	3587.9	3623.7	3662.1	3706.3	3733.5	3747.8	3752.1	3752.1
17.5°	3700.7	3732.1	3764.9	3807.7	3842.1	3860.6	3864.9	3863.4
20°	3832.0	3862.1	3880.6	3907.6	3937.7	3959.1	3964.8	3964.8
22.5°	3981.9	3999.1	4001.9	4010.6	4034.7	4063.4	4076.1	4079.1
25°	4147.6	4151.8	4140.4	4140.4	4156.1	4183.2	4196.2	4197.5
27.5°	4361.7	4340.3	4311.8	4301.8	4311.8	4343.1	4358.8	4364.5
30°	4628.6	4577.4	4511.6	4476.0	4470.2	4511.6	4540.2	4544.4
32.5°	4934.2	4860.0	4773.0	4700.1	4681.5	4707.2	4741.6	4740.0
35°	5296.9	5208.4	5102.7	5009.8	4967.1	4992.8	5041.3	5047.0
37.5°	5715.1	5599.6	5478.3	5361.2	5294.0	5301.2	5352.6	5369.7
40°	6182.0	6032.2	5879.3	5722.4	5626.8	5608.1	5670.9	5680.9
42.5°	6681.9	6489.0	6296.3	6102.1	5979.4	5950.8	6023.6	6019.4
45°	7214.3	6968.7	6743.1	6529.1	6383.4	6340.5	6400.6	6400.6
47.5°	7786.9	7484.1	7215.7	6973.1	6814.5	6753.2	6810.3	6814.5
50°	8393.7	8072.3	7756.9	7487.1	7297.1	7218.6	7292.8	7304.3
52.5°	8997.6	8685.0	8366.5	8058.2	7828.3	7732.6	7818.3	7855.4
55°	9610.1	9303.0	8999.0	8697.7	8425.1	8312.2	8403.6	8450.7
57.5°	10256.8	9972.8	9682.9	9378.8	9116.1	8940.4	9037.6	9100.4
60°	11014.9	10772.3	10471.0	10135.4	9869.9	9691.5	9747.1	9802.8
62.5°	11614.5	11708.8	11453.3	11065.0	10723.6	10495.3	10549.4	10608.1
65°	11324.8	12291.2	12518.3	12125.7	11653.2	11297.7	11274.7	11304.8
67.5°	9465.9	11343.3	12712.5	13086.6	12691.2	12197.0	12105.6	12149.9
70°	6332.1	8670.6	11086.3	12885.3	13363.5	13172.2	13082.2	13109.4
72.5°	3041.0	5049.9	7521.2	9912.7	11368.9	12037.2	12251.4	12355.6
75°	1112.2	2004.6	3625.0	5462.6	6594.6	7634.1	8312.2	8589.2
77.5°	671.0	809.6	1157.8	1743.3	1974.6	2210.1	2118.7	2164.5
80°	496.9	561.1	635.3	713.9	739.6	739.6	711.0	688.2
82.5°	348.4	389.8	425.4	468.2	479.8	458.2	376.8	299.9
85°	224.1	242.7	258.4	285.5	278.5	265.5	178.5	158.6
87.5°	102.8	117.0	122.8	135.6	130.0	124.2	88.6	74.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)