

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: P191605

Luminaire Tested: **GLEON-AF-07-LED-E1-5MQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-E1-5MQ-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35734 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

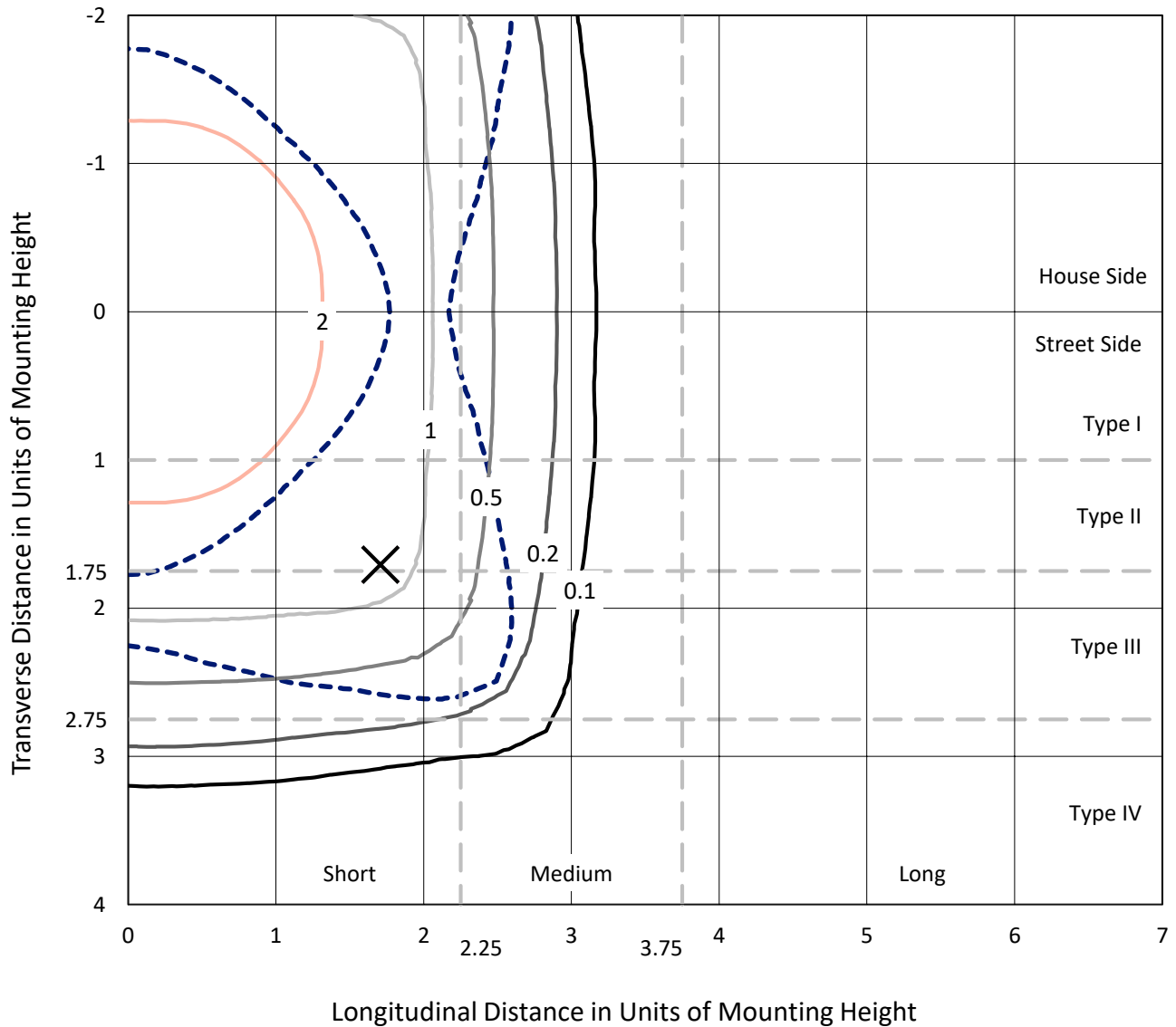
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

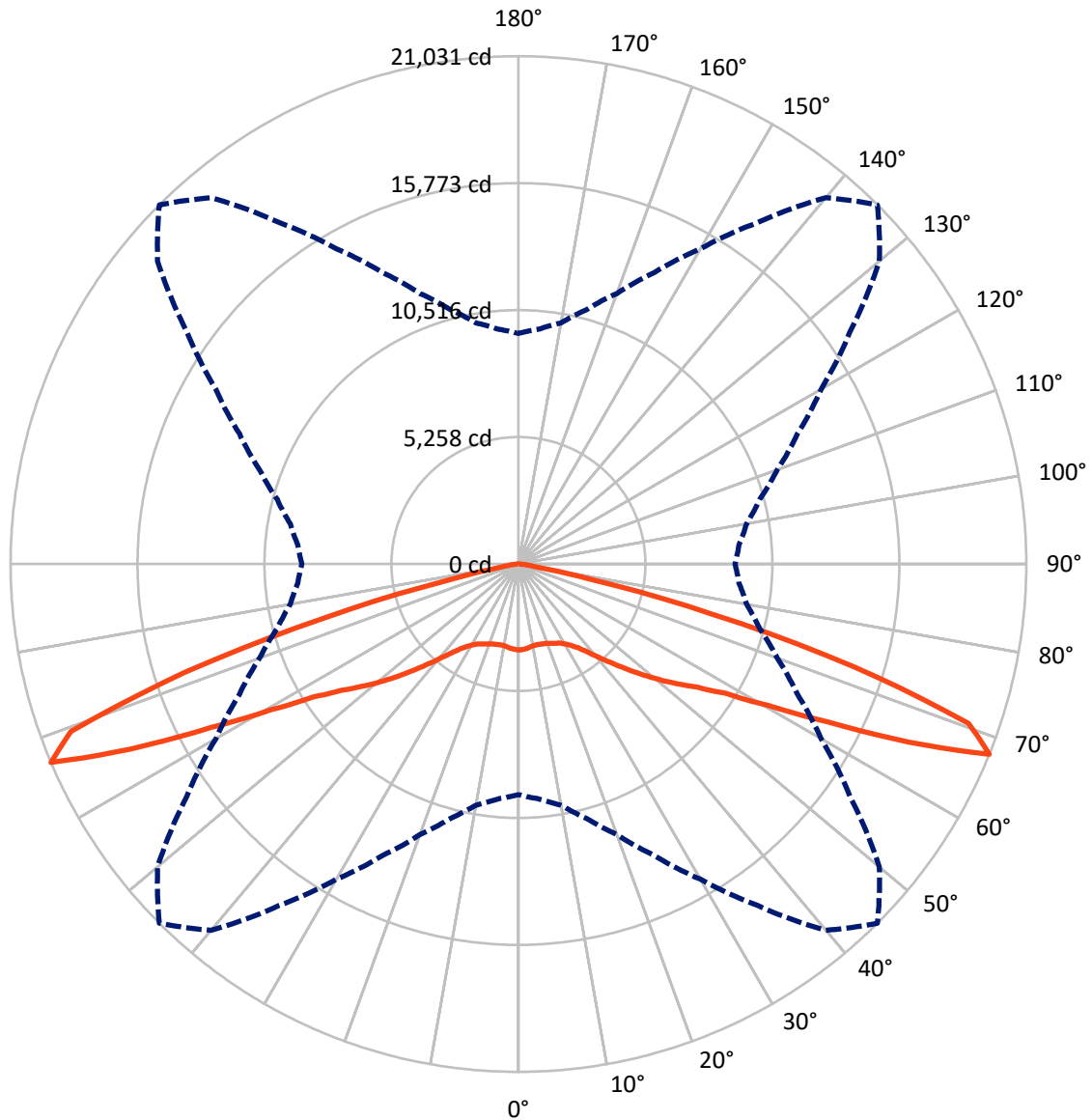
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17867.0	0.0	17867.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17867.0	0.0	17867.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35734.0	0.0	35734.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.3	0.9
10°-20°	967.2	2.7
20°-30°	1644.2	4.6
30°-40°	2687.7	7.5
40°-50°	4798.0	13.4
50°-60°	8089.6	22.6
60°-70°	12553.9	35.1
70°-80°	4410.9	12.3
80°-90°	249.3	0.7
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°	35734.0	100.0
0°-180°	35734.0	100.0



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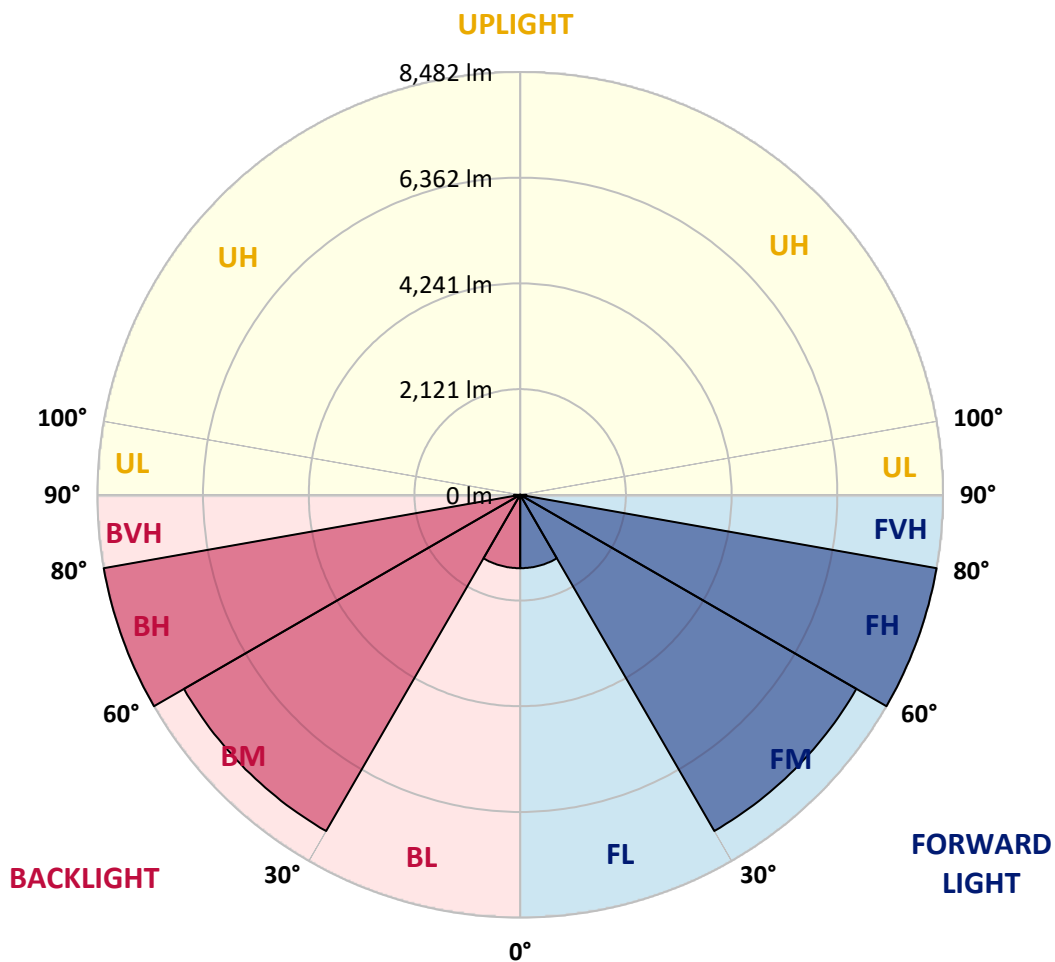
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1472.3	4.1			
FM	(30°-60°)	7787.7	21.8			
FH	(60°-80°)	8482.4	23.7			G4/12000
FVH	(80°-90°)	124.6	0.3			G2/225
BL	(0°-30°)	1472.3	4.1	B3/2500		
BM	(30°-60°)	7787.7	21.8	B4/8500		
BH	(60°-80°)	8482.4	23.7	B5		G4/12000
BVH	(80°-90°)	124.6	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3561.0	3561.0	3561.0	3561.0	3561.0	3561.0	3561.0	3561.0	3561.0	3561.0	3561.0
2.5°	3547.9	3551.2	3551.2	3551.2	3549.5	3549.5	3546.3	3549.5	3547.9	3543.0	3544.6
5°	3518.3	3521.6	3521.6	3520.0	3524.9	3523.2	3518.3	3521.6	3520.0	3516.7	3518.3
7.5°	3475.6	3480.5	3480.5	3478.9	3483.8	3482.2	3478.9	3480.5	3480.5	3475.6	3475.6
10°	3427.9	3431.2	3431.2	3429.6	3437.8	3437.8	3436.2	3441.1	3442.7	3437.8	3434.5
12.5°	3383.6	3388.5	3388.5	3395.1	3403.3	3406.6	3414.8	3421.4	3427.9	3426.3	3419.7
15°	3357.3	3360.6	3367.1	3375.4	3388.5	3400.0	3413.1	3427.9	3441.1	3444.4	3434.5
17.5°	3340.8	3345.8	3355.6	3367.1	3385.2	3404.9	3424.6	3444.4	3462.4	3469.0	3457.5
20°	3335.9	3339.2	3349.1	3368.8	3393.4	3423.0	3450.9	3473.9	3498.6	3506.8	3498.6
22.5°	3345.8	3352.3	3363.8	3386.9	3419.7	3457.5	3490.4	3521.6	3552.8	3567.6	3556.1
25°	3390.1	3396.7	3411.5	3441.1	3477.2	3516.7	3554.5	3590.6	3618.6	3633.3	3625.1
27.5°	3472.3	3480.5	3498.6	3528.2	3567.6	3610.3	3651.4	3681.0	3704.0	3708.9	3699.1
30°	3595.6	3613.6	3635.0	3667.9	3713.9	3750.0	3791.1	3817.4	3845.3	3845.3	3837.1
32.5°	3787.8	3805.9	3828.9	3860.1	3896.3	3935.7	3971.9	3994.9	4024.5	4026.1	4006.4
35°	4075.4	4083.6	4103.3	4123.1	4155.9	4190.4	4221.7	4236.4	4261.1	4262.7	4244.7
37.5°	4455.0	4456.6	4469.8	4476.4	4505.9	4543.7	4573.3	4583.2	4606.2	4602.9	4584.8
40°	4897.1	4905.3	4910.2	4920.1	4951.3	4987.4	5018.7	5023.6	5048.2	5043.3	5020.3
42.5°	5408.1	5411.4	5439.3	5454.1	5483.7	5501.8	5541.2	5546.2	5575.7	5562.6	5536.3
45°	5981.6	6011.2	6037.5	6067.1	6098.3	6119.7	6150.9	6144.3	6164.0	6144.3	6129.5
47.5°	6584.7	6606.1	6665.2	6711.3	6762.2	6780.3	6824.6	6804.9	6824.6	6796.7	6791.8
50°	7248.6	7286.4	7337.4	7389.9	7444.2	7473.8	7531.3	7506.6	7532.9	7506.6	7491.8
52.5°	7902.7	7912.5	8024.3	8101.5	8177.1	8211.6	8246.1	8234.6	8236.2	8234.6	8219.8
55°	8523.8	8546.8	8658.6	8763.8	8895.2	8992.2	9051.3	9044.8	9030.0	9015.2	8990.5
57.5°	9223.9	9246.9	9375.1	9504.9	9654.4	9792.5	9912.4	10035.7	10083.3	10096.5	10042.2
60°	10170.4	10168.8	10339.7	10497.4	10711.1	10916.5	11179.4	11447.3	11754.6	11897.5	11708.6
62.5°	11133.4	11172.8	11419.3	11698.7	12139.1	12568.0	13052.8	13529.3	14015.8	14411.8	13991.1
65°	11018.4	11169.5	11536.0	12168.7	12982.1	13948.4	14993.5	16099.5	17098.6	17785.5	17014.8
67.5°	9549.3	9764.5	10137.6	10906.6	11923.8	13317.4	15072.4	17259.6	19801.8	21031.0	19507.7
70°	6921.6	7164.8	7555.9	8306.9	9314.3	10638.8	12545.0	15171.0	18536.5	19775.5	18097.7
72.5°	3444.4	3575.8	3817.4	4295.6	5058.1	6132.8	7861.6	10385.7	13363.4	14500.5	12967.3
75°	1170.0	1230.8	1271.9	1428.0	1669.6	2091.9	2951.4	4540.5	6926.5	8303.6	6827.9
77.5°	675.4	677.0	705.0	732.9	774.0	820.0	935.0	1227.5	2123.2	3015.5	2197.1
80°	437.1	435.5	458.5	479.8	507.8	530.8	537.4	568.6	655.7	777.3	695.1
82.5°	226.8	254.7	305.7	333.6	386.2	396.0	382.9	371.4	392.8	407.5	417.4
85°	124.9	108.5	162.7	210.3	233.3	236.6	236.6	223.5	231.7	226.8	246.5
87.5°	57.5	52.6	64.1	103.5	110.1	93.7	98.6	87.1	62.4	60.8	69.0
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°	3561.0	3561.0	3561.0	3561.0	3561.0	3561.0	3561.0	3561.0
2.5°	3544.6	3546.3	3546.3	3551.2	3552.8	3556.1	3559.4	3561.0
5°	3516.7	3521.6	3518.3	3523.2	3523.2	3526.5	3526.5	3528.2
7.5°	3475.6	3480.5	3480.5	3480.5	3478.9	3483.8	3483.8	3483.8
10°	3432.9	3436.2	3434.5	3431.2	3427.9	3432.9	3431.2	3429.6
12.5°	3419.7	3411.5	3404.9	3401.6	3395.1	3396.7	3391.8	3391.8
15°	3427.9	3413.1	3401.6	3396.7	3390.1	3386.9	3383.6	3385.2
17.5°	3449.3	3431.2	3416.4	3408.2	3400.0	3395.1	3388.5	3390.1
20°	3487.1	3465.7	3444.4	3427.9	3413.1	3404.9	3400.0	3398.4
22.5°	3543.0	3511.7	3480.5	3455.9	3436.2	3424.6	3419.7	3416.4
25°	3607.1	3572.5	3536.4	3508.5	3488.7	3473.9	3464.1	3464.1
27.5°	3687.6	3659.6	3626.8	3593.9	3575.8	3561.0	3554.5	3551.2
30°	3822.3	3796.0	3769.7	3738.5	3715.5	3700.7	3689.2	3679.4
32.5°	3994.9	3973.5	3952.2	3929.1	3907.8	3888.1	3870.0	3861.8
35°	4238.1	4221.7	4206.9	4180.6	4172.4	4160.9	4151.0	4142.8
37.5°	4573.3	4566.7	4566.7	4538.8	4532.2	4527.3	4517.4	4519.1
40°	5013.7	5020.3	5012.1	5002.2	4997.3	4984.1	4984.1	4995.6
42.5°	5534.7	5539.6	5557.7	5541.2	5559.3	5542.9	5533.0	5541.2
45°	6139.4	6157.5	6193.6	6177.2	6188.7	6160.8	6126.2	6127.9
47.5°	6818.1	6834.5	6849.3	6837.8	6839.4	6793.4	6747.4	6735.9
50°	7523.1	7529.6	7537.8	7521.4	7524.7	7473.8	7421.2	7422.8
52.5°	8219.8	8251.0	8283.9	8239.5	8229.7	8172.2	8098.2	8068.6
55°	9016.8	9061.2	9023.4	8946.2	8868.9	8791.7	8694.7	8678.3
57.5°	9999.5	9923.9	9805.6	9659.4	9552.5	9444.1	9345.5	9304.4
60°	11366.7	11082.5	10868.8	10651.9	10515.5	10382.4	10252.6	10232.9
62.5°	13299.3	12807.9	12382.3	11933.7	11567.2	11281.3	11052.9	10988.8
65°	15721.5	14559.7	13552.3	12612.4	11795.6	11179.4	10791.6	10620.7
67.5°	16763.4	14469.3	12742.2	11407.8	10339.7	9593.6	9174.6	8965.9
70°	14730.6	11999.4	10121.1	8785.1	7812.3	7016.9	6637.3	6413.8
72.5°	10134.3	7633.2	6035.9	4926.6	4149.3	3483.8	3220.9	3201.2
75°	4550.3	3013.8	2077.1	1600.6	1347.5	1171.7	1117.4	1076.4
77.5°	1273.6	941.6	839.7	785.5	732.9	672.1	649.1	654.0
80°	619.5	585.0	562.0	527.5	479.8	428.9	405.9	415.8
82.5°	410.8	405.9	420.7	396.0	327.0	277.7	233.3	213.6
85°	249.8	253.1	258.0	259.6	220.2	154.5	105.2	118.3
87.5°	98.6	113.4	123.2	128.2	120.0	73.9	59.2	60.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)