

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: P191614

Luminaire Tested: **GLEON-AF-06-LED-E1-5MQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191614
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-06-LED-E1-5MQ-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37400 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 333
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

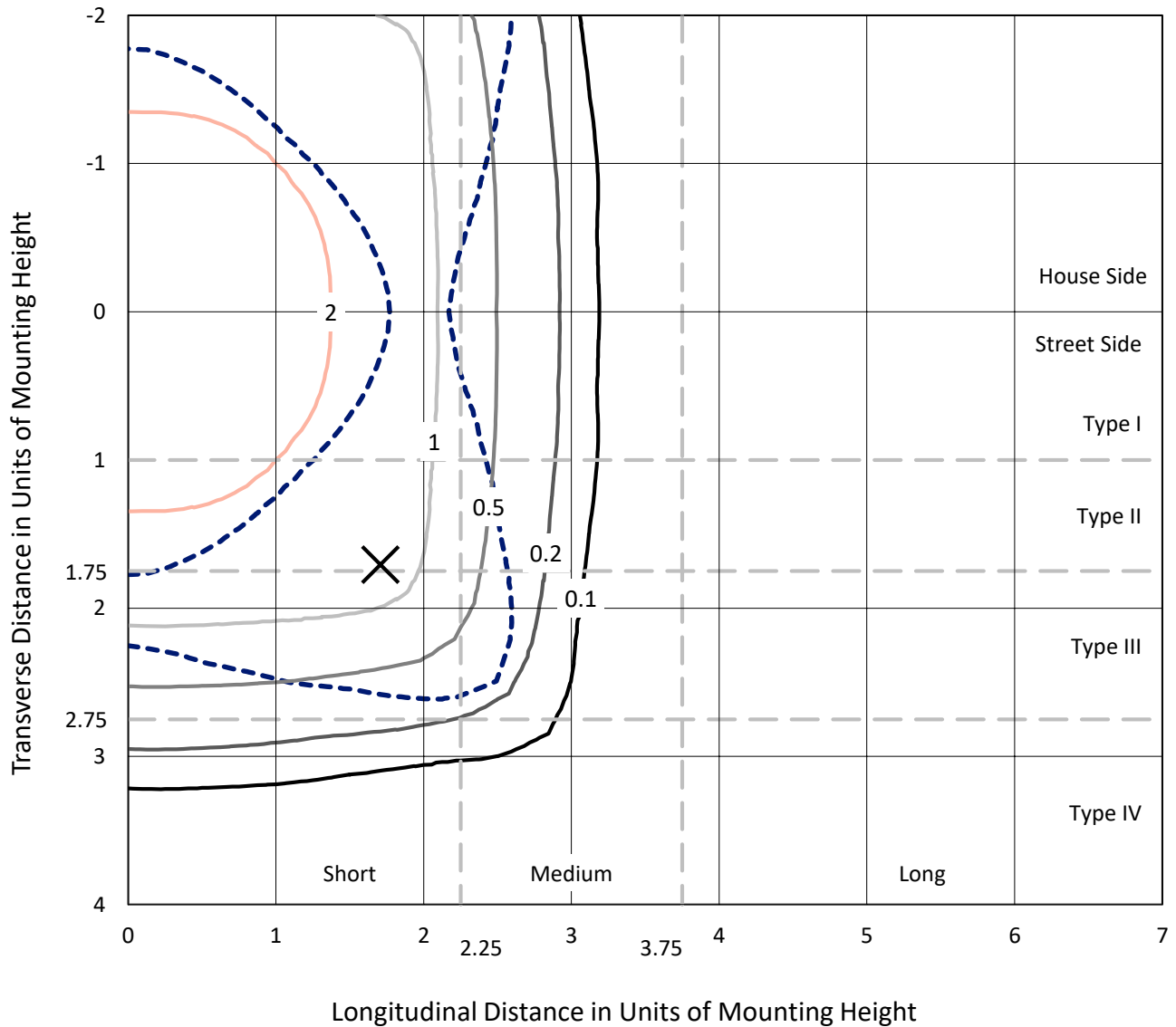


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Iso-Footcandle Lines of Horizontal Illumination

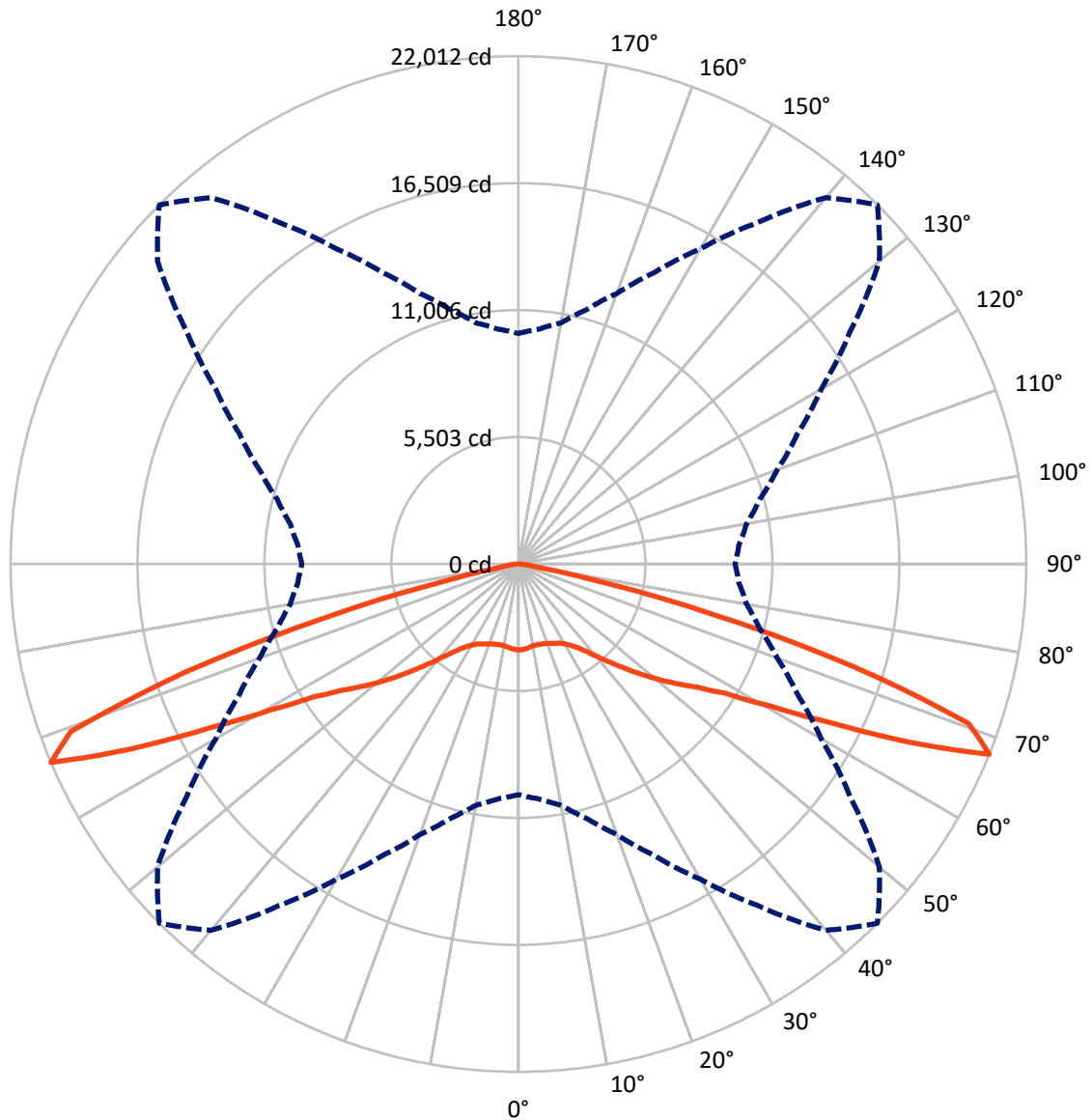
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 fc
 Type 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	18700.0	0.0	18700.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18700.0	0.0	18700.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37400.0	0.0	37400.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.8	0.9
10°-20°	1012.3	2.7
20°-30°	1720.8	4.6
30°-40°	2813.0	7.5
40°-50°	5021.7	13.4
50°-60°	8466.8	22.6
60°-70°	13139.2	35.1
70°-80°	4616.5	12.3
80°-90°	260.9	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°	37400.0	100.0
0°-180°	37400.0	100.0



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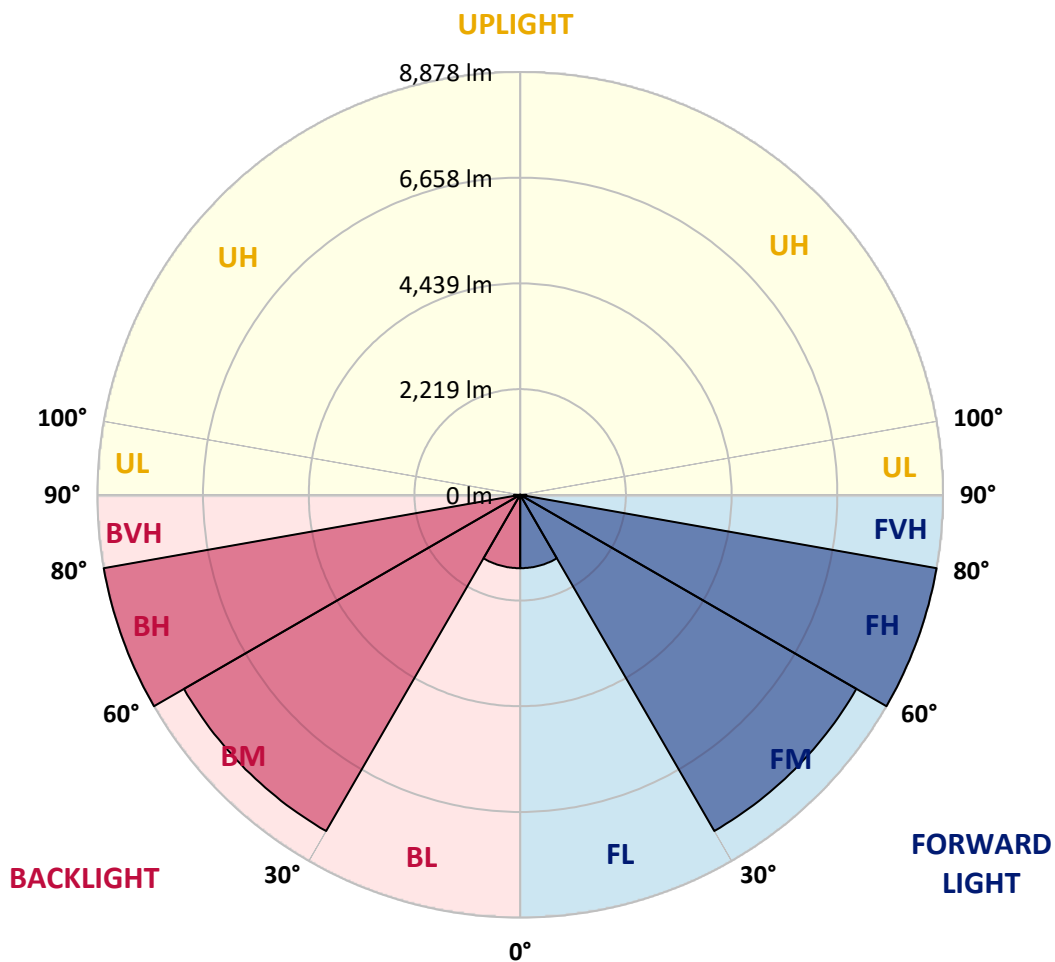
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1541.0	4.1			
FM	(30°-60°)	8150.8	21.8			
FH	(60°-80°)	8877.8	23.7			G4/12000
FVH	(80°-90°)	130.4	0.3			G2/225
BL	(0°-30°)	1541.0	4.1	B3/2500		
BM	(30°-60°)	8150.8	21.8	B4/8500		
BH	(60°-80°)	8877.8	23.7	B5		G4/12000
BVH	(80°-90°)	130.4	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°	3727.1	3727.1	3727.1	3727.1	3727.1	3727.1	3727.1	3727.1	3727.1	3727.1	3727.1
2.5°	3713.3	3716.7	3716.7	3716.7	3715.0	3715.0	3711.6	3715.0	3713.3	3708.1	3709.9
5°	3682.3	3685.8	3685.8	3684.1	3689.2	3687.5	3682.3	3685.8	3684.1	3680.6	3682.3
7.5°	3637.6	3642.8	3642.8	3641.1	3646.2	3644.5	3641.1	3642.8	3642.8	3637.6	3637.6
10°	3587.8	3591.2	3591.2	3589.5	3598.1	3598.1	3596.4	3601.5	3603.2	3598.1	3594.6
12.5°	3541.3	3546.5	3546.5	3553.4	3562.0	3565.4	3574.0	3580.9	3587.8	3586.0	3579.2
15°	3513.8	3517.2	3524.1	3532.7	3546.5	3558.5	3572.3	3587.8	3601.5	3605.0	3594.6
17.5°	3496.6	3501.8	3512.1	3524.1	3543.0	3563.7	3584.3	3605.0	3623.9	3630.8	3618.7
20°	3491.4	3494.9	3505.2	3525.8	3551.6	3582.6	3611.8	3635.9	3661.7	3670.3	3661.7
22.5°	3501.8	3508.6	3520.7	3544.8	3579.2	3618.7	3653.1	3685.8	3718.5	3733.9	3721.9
25°	3548.2	3555.1	3570.6	3601.5	3639.4	3680.6	3720.2	3758.0	3787.3	3802.7	3794.1
27.5°	3634.2	3642.8	3661.7	3692.7	3733.9	3778.7	3821.7	3852.6	3876.7	3881.9	3871.5
30°	3763.2	3782.1	3804.5	3838.9	3887.0	3924.9	3967.9	3995.4	4024.6	4024.6	4016.0
32.5°	3964.4	3983.3	4007.4	4040.1	4077.9	4119.2	4157.0	4181.1	4212.1	4213.8	4193.2
35°	4265.4	4274.0	4294.6	4315.3	4349.7	4385.8	4418.5	4434.0	4459.8	4461.5	4442.6
37.5°	4662.7	4664.4	4678.2	4685.1	4716.0	4755.6	4786.5	4796.9	4820.9	4817.5	4798.6
40°	5125.4	5134.0	5139.1	5149.4	5182.1	5220.0	5252.6	5257.8	5283.6	5278.4	5254.4
42.5°	5660.3	5663.7	5692.9	5708.4	5739.4	5758.3	5799.6	5804.7	5835.7	5821.9	5794.4
45°	6260.5	6291.5	6319.0	6349.9	6382.6	6405.0	6437.7	6430.8	6451.4	6430.8	6415.3
47.5°	6891.7	6914.1	6976.0	7024.2	7077.5	7096.4	7142.8	7122.2	7142.8	7113.6	7108.4
50°	7586.6	7626.1	7679.4	7734.5	7791.2	7822.2	7882.4	7856.6	7884.1	7856.6	7841.1
52.5°	8271.1	8281.4	8398.4	8479.2	8558.3	8594.4	8630.6	8618.5	8620.2	8618.5	8603.0
55°	8921.2	8945.3	9062.3	9172.3	9309.9	9411.4	9473.3	9466.4	9451.0	9435.5	9409.7
57.5°	9653.9	9678.0	9812.1	9948.0	10104.5	10249.0	10374.6	10503.6	10553.4	10567.2	10510.4
60°	10644.6	10642.9	10821.7	10986.9	11210.4	11425.4	11700.6	11981.0	12302.6	12452.2	12254.4
62.5°	11652.5	11693.7	11951.7	12244.1	12705.1	13154.0	13661.3	14160.1	14669.2	15083.7	14643.4
65°	11532.1	11690.3	12073.8	12736.0	13587.4	14598.7	15692.6	16850.1	17895.8	18614.7	17808.1
67.5°	9994.5	10219.8	10610.2	11415.1	12479.7	13938.2	15775.1	18064.3	20725.0	22011.5	20417.2
70°	7244.3	7498.9	7908.2	8694.2	9748.5	11134.8	13129.9	15878.3	19400.7	20697.5	18941.5
72.5°	3605.0	3742.5	3995.4	4495.9	5293.9	6418.7	8228.1	10869.9	13986.4	15176.6	13571.9
75°	1224.6	1288.2	1331.2	1494.6	1747.4	2189.5	3089.0	4752.1	7249.5	8690.8	7146.3
77.5°	706.9	708.6	737.8	767.1	810.1	858.2	978.6	1284.8	2222.1	3156.1	2299.5
80°	457.5	455.8	479.9	502.2	531.5	555.5	562.4	595.1	686.2	813.5	727.5
82.5°	237.3	266.6	319.9	349.1	404.2	414.5	400.7	388.7	411.1	426.5	436.9
85°	130.7	113.5	170.3	220.1	244.2	247.7	247.7	233.9	242.5	237.3	258.0
87.5°	60.2	55.0	67.1	108.4	115.2	98.0	103.2	91.2	65.4	63.6	72.2
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°	3727.1	3727.1	3727.1	3727.1	3727.1	3727.1	3727.1	3727.1
2.5°	3709.9	3711.6	3711.6	3716.7	3718.5	3721.9	3725.3	3727.1
5°	3680.6	3685.8	3682.3	3687.5	3687.5	3690.9	3690.9	3692.7
7.5°	3637.6	3642.8	3642.8	3642.8	3641.1	3646.2	3646.2	3646.2
10°	3592.9	3596.4	3594.6	3591.2	3587.8	3592.9	3591.2	3589.5
12.5°	3579.2	3570.6	3563.7	3560.2	3553.4	3555.1	3549.9	3549.9
15°	3587.8	3572.3	3560.2	3555.1	3548.2	3544.8	3541.3	3543.0
17.5°	3610.1	3591.2	3575.7	3567.1	3558.5	3553.4	3546.5	3548.2
20°	3649.7	3627.3	3605.0	3587.8	3572.3	3563.7	3558.5	3556.8
22.5°	3708.1	3675.5	3642.8	3617.0	3596.4	3584.3	3579.2	3575.7
25°	3775.2	3739.1	3701.3	3672.0	3651.4	3635.9	3625.6	3625.6
27.5°	3859.5	3830.3	3795.9	3761.5	3742.5	3727.1	3720.2	3716.7
30°	4000.5	3973.0	3945.5	3912.8	3888.7	3873.3	3861.2	3850.9
32.5°	4181.1	4158.8	4136.4	4112.3	4090.0	4069.3	4050.4	4041.8
35°	4435.7	4418.5	4403.0	4375.5	4366.9	4354.8	4344.5	4335.9
37.5°	4786.5	4779.7	4779.7	4750.4	4743.5	4738.4	4728.1	4729.8
40°	5247.5	5254.4	5245.8	5235.4	5230.3	5216.5	5216.5	5228.6
42.5°	5792.7	5797.9	5816.8	5799.6	5818.5	5801.3	5791.0	5799.6
45°	6425.6	6444.5	6482.4	6465.2	6477.2	6448.0	6411.9	6413.6
47.5°	7136.0	7153.1	7168.6	7156.6	7158.3	7110.2	7062.0	7050.0
50°	7873.8	7880.7	7889.3	7872.1	7875.5	7822.2	7767.2	7768.9
52.5°	8603.0	8635.7	8670.1	8623.7	8613.4	8553.2	8475.8	8444.8
55°	9437.2	9483.6	9444.1	9363.2	9282.4	9201.6	9100.1	9082.9
57.5°	10465.7	10386.6	10262.8	10109.7	9997.9	9884.4	9781.2	9738.2
60°	11896.7	11599.1	11375.6	11148.5	11005.8	10866.5	10730.6	10709.9
62.5°	13919.3	13405.1	12959.6	12490.1	12106.5	11807.3	11568.2	11501.1
65°	16454.5	15238.5	14184.2	13200.4	12345.6	11700.6	11294.7	11115.8
67.5°	17544.9	15143.9	13336.3	11939.7	10821.7	10040.9	9602.3	9383.9
70°	15417.4	12558.9	10593.0	9194.7	8176.5	7344.1	6946.8	6712.8
72.5°	10606.7	7989.0	6317.3	5156.3	4342.8	3646.2	3371.0	3350.4
75°	4762.5	3154.3	2174.0	1675.2	1410.3	1226.3	1169.5	1126.5
77.5°	1332.9	985.5	878.9	822.1	767.1	703.4	679.4	684.5
80°	648.4	612.3	588.2	552.1	502.2	448.9	424.8	435.1
82.5°	430.0	424.8	440.3	414.5	342.3	290.7	244.2	223.6
85°	261.4	264.9	270.0	271.7	230.5	161.7	110.1	123.8
87.5°	103.2	118.7	129.0	134.2	125.6	77.4	61.9	63.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)