

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: P193365

Luminaire Tested: **GLEON-AF-07-LED-E1-5MQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193365
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39591 lumens
Efficiency: N/A
Efficacy: 88.4 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): 448
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

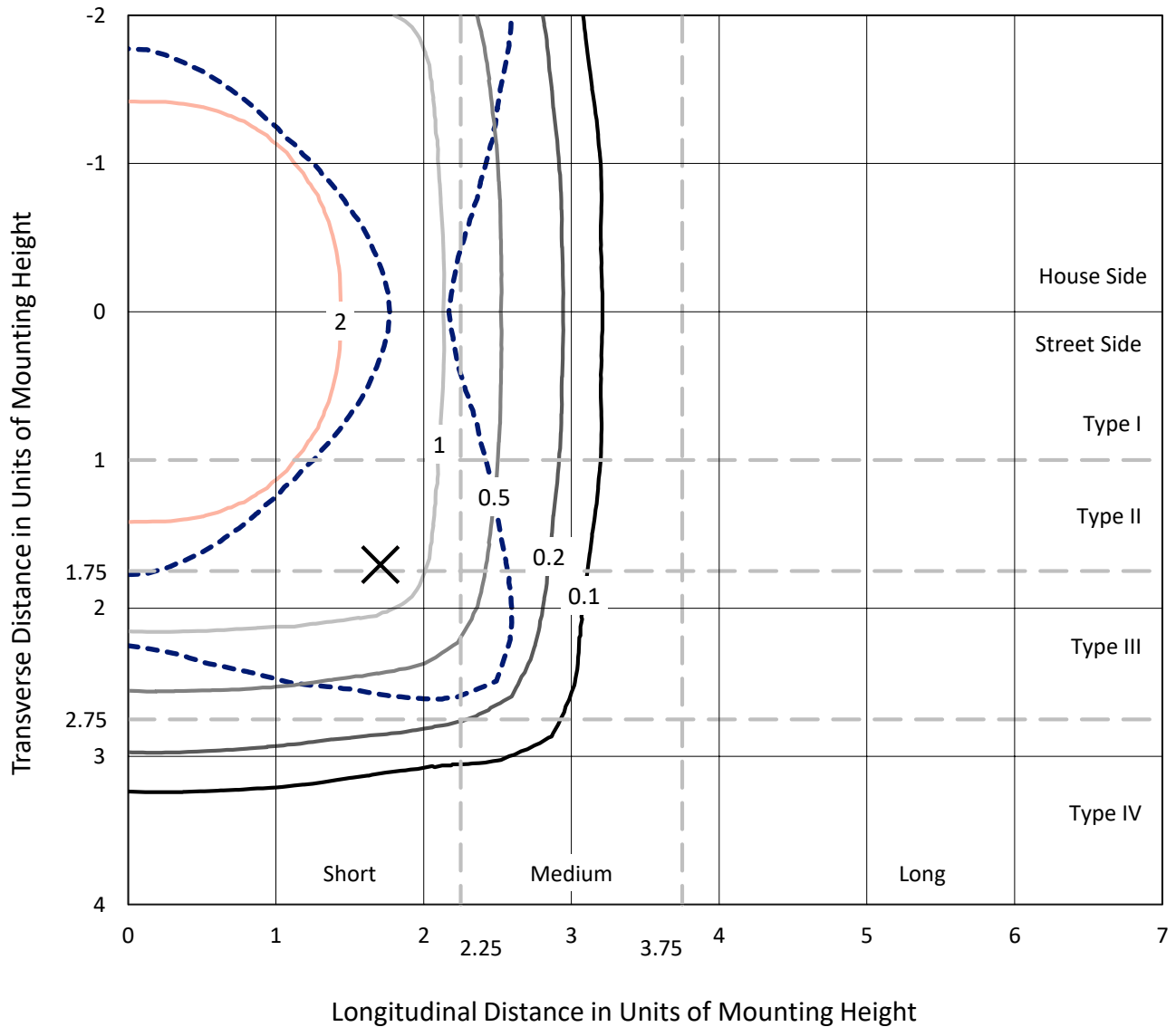


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Iso-Footcandle Lines of Horizontal Illumination

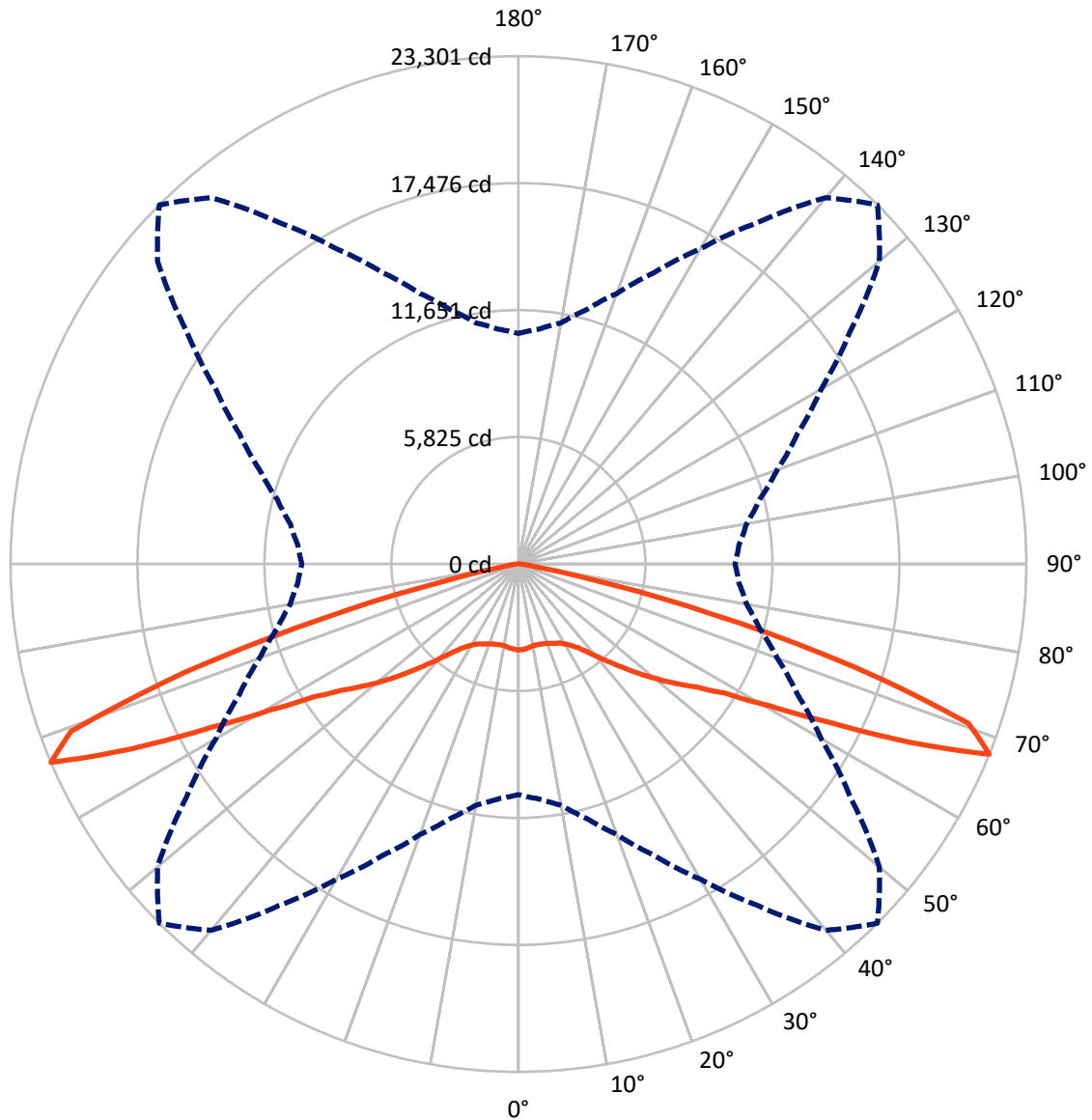
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 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	19795.5	0.0	19795.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19795.5	0.0	19795.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	39591.0	0.0	39591.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.3	0.9
10°-20°	1071.6	2.7
20°-30°	1821.6	4.6
30°-40°	2977.8	7.5
40°-50°	5315.9	13.4
50°-60°	8962.8	22.6
60°-70°	13908.9	35.1
70°-80°	4887.0	12.3
80°-90°	276.2	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°	39591.0	100.0
0°-180°	39591.0	100.0



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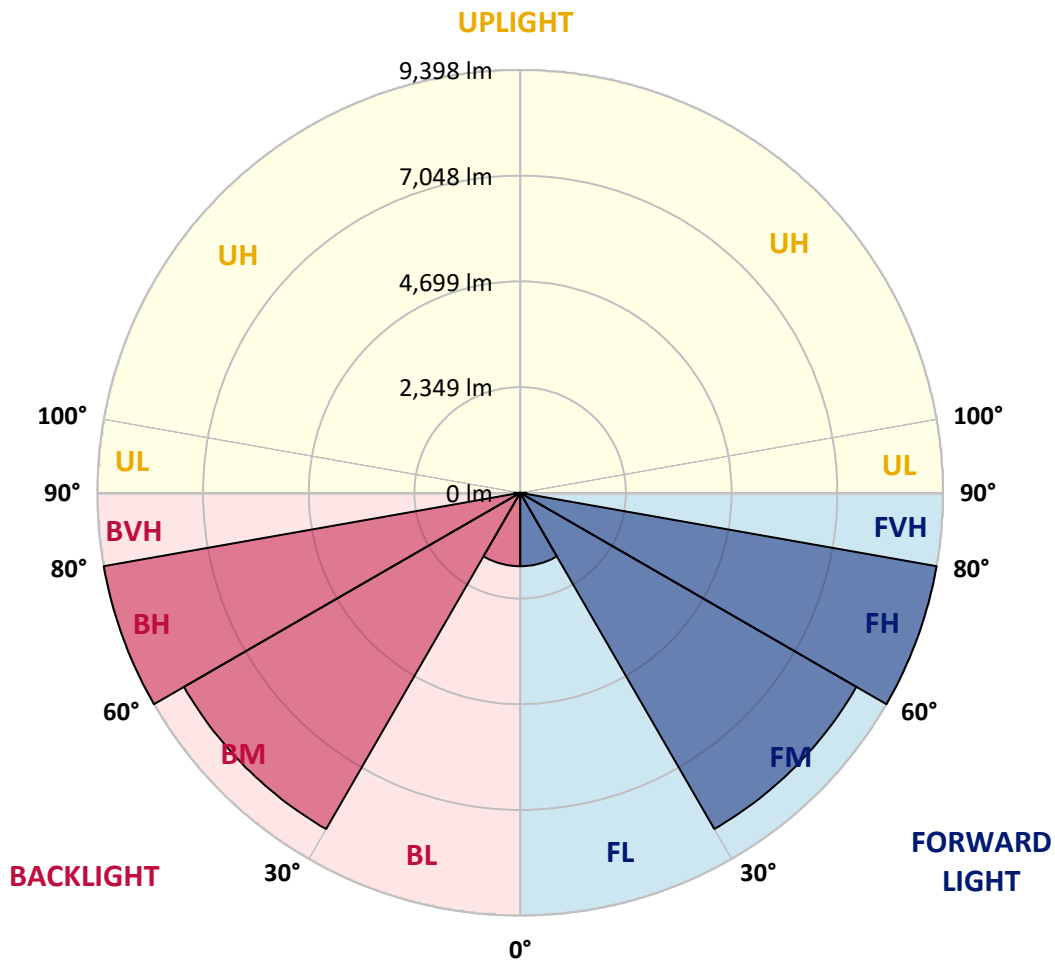
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1631.2	4.1			
FM	(30°-60°)	8628.2	21.8			
FH	(60°-80°)	9397.9	23.7			G4/12000
FVH	(80°-90°)	138.1	0.3			G2/225
BL	(0°-30°)	1631.2	4.1	B3/2500		
BM	(30°-60°)	8628.2	21.8	B5		
BH	(60°-80°)	9397.9	23.7	B5		G4/12000
BVH	(80°-90°)	138.1	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°	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4
2.5°	3930.8	3934.5	3934.5	3934.5	3932.7	3932.7	3929.0	3932.7	3930.8	3925.4	3927.2
5°	3898.1	3901.7	3901.7	3899.9	3905.4	3903.5	3898.1	3901.7	3899.9	3896.3	3898.1
7.5°	3850.7	3856.2	3856.2	3854.4	3859.8	3858.0	3854.4	3856.2	3856.2	3850.7	3850.7
10°	3797.9	3801.6	3801.6	3799.8	3808.9	3808.9	3807.0	3812.5	3814.3	3808.9	3805.2
12.5°	3748.8	3754.2	3754.2	3761.5	3770.6	3774.3	3783.4	3790.7	3797.9	3796.1	3788.8
15°	3719.6	3723.3	3730.6	3739.7	3754.2	3767.0	3781.5	3797.9	3812.5	3816.1	3805.2
17.5°	3701.4	3706.9	3717.8	3730.6	3750.6	3772.4	3794.3	3816.1	3836.2	3843.5	3830.7
20°	3696.0	3699.6	3710.5	3732.4	3759.7	3792.5	3823.4	3848.9	3876.2	3885.3	3876.2
22.5°	3706.9	3714.2	3726.9	3752.4	3788.8	3830.7	3867.1	3901.7	3936.3	3952.7	3939.9
25°	3756.1	3763.3	3779.7	3812.5	3852.6	3896.3	3938.1	3978.2	4009.1	4025.5	4016.4
27.5°	3847.1	3856.2	3876.2	3909.0	3952.7	4000.0	4045.5	4078.3	4103.8	4109.3	4098.3
30°	3983.6	4003.7	4027.3	4063.8	4114.7	4154.8	4200.3	4229.4	4260.4	4260.4	4251.3
32.5°	4196.7	4216.7	4242.2	4276.8	4316.8	4360.5	4400.6	4426.1	4458.8	4460.7	4438.8
35°	4515.3	4524.4	4546.2	4568.1	4604.5	4642.7	4677.3	4693.7	4721.0	4722.8	4702.8
37.5°	4935.9	4937.7	4952.2	4959.5	4992.3	5034.2	5066.9	5077.9	5103.4	5099.7	5079.7
40°	5425.6	5434.7	5440.2	5451.1	5485.7	5525.8	5560.4	5565.8	5593.1	5587.7	5562.2
42.5°	5991.9	5995.5	6026.4	6042.8	6075.6	6095.6	6139.3	6144.8	6177.6	6163.0	6133.9
45°	6627.3	6660.0	6689.2	6721.9	6756.5	6780.2	6814.8	6807.5	6829.4	6807.5	6791.1
47.5°	7295.5	7319.1	7384.7	7435.7	7492.1	7512.1	7561.3	7539.4	7561.3	7530.3	7524.9
50°	8031.0	8072.9	8129.3	8187.6	8247.7	8280.4	8344.2	8316.9	8346.0	8316.9	8300.5
52.5°	8755.6	8766.6	8890.4	8975.9	9059.7	9097.9	9136.2	9123.4	9125.2	9123.4	9107.0
55°	9443.9	9469.3	9593.2	9709.7	9855.3	9962.8	10028.3	10021.0	10004.6	9988.2	9960.9
57.5°	10219.5	10245.0	10387.0	10530.8	10696.5	10849.4	10982.3	11118.9	11171.7	11186.2	11126.2
60°	11268.2	11266.4	11455.7	11630.5	11867.2	12094.8	12386.1	12682.8	13023.3	13181.7	12972.3
62.5°	12335.1	12378.8	12651.9	12961.4	13449.4	13924.5	14461.6	14989.6	15528.6	15967.3	15501.3
65°	12207.6	12375.2	12781.2	13482.1	14383.4	15453.9	16611.9	17837.2	18944.2	19705.2	18851.3
67.5°	10580.0	10818.5	11231.8	12083.8	13210.8	14754.8	16699.3	19122.6	21939.2	23301.0	21613.3
70°	7668.7	7938.2	8371.5	9203.5	10319.6	11787.1	13899.1	16808.5	20537.3	21910.0	20051.1
72.5°	3816.1	3961.8	4229.4	4759.3	5604.0	6794.8	8710.1	11506.7	14805.8	16065.7	14367.0
75°	1296.3	1363.7	1409.2	1582.2	1849.8	2317.7	3269.9	5030.5	7674.2	9199.9	7564.9
77.5°	748.3	750.1	781.1	812.0	857.5	908.5	1036.0	1360.0	2352.3	3340.9	2434.2
80°	484.3	482.5	508.0	531.6	562.6	588.1	595.4	630.0	726.5	861.2	770.1
82.5°	251.3	282.2	338.6	369.6	427.9	438.8	424.2	411.5	435.1	451.5	462.5
85°	138.4	120.2	180.2	233.0	258.5	262.2	262.2	247.6	256.7	251.3	273.1
87.5°	63.7	58.3	71.0	114.7	122.0	103.8	109.2	96.5	69.2	67.4	76.5
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°	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4
2.5°	3927.2	3929.0	3929.0	3934.5	3936.3	3939.9	3943.6	3945.4
5°	3896.3	3901.7	3898.1	3903.5	3903.5	3907.2	3907.2	3909.0
7.5°	3850.7	3856.2	3856.2	3856.2	3854.4	3859.8	3859.8	3859.8
10°	3803.4	3807.0	3805.2	3801.6	3797.9	3803.4	3801.6	3799.8
12.5°	3788.8	3779.7	3772.4	3768.8	3761.5	3763.3	3757.9	3757.9
15°	3797.9	3781.5	3768.8	3763.3	3756.1	3752.4	3748.8	3750.6
17.5°	3821.6	3801.6	3785.2	3776.1	3767.0	3761.5	3754.2	3756.1
20°	3863.5	3839.8	3816.1	3797.9	3781.5	3772.4	3767.0	3765.2
22.5°	3925.4	3890.8	3856.2	3828.9	3807.0	3794.3	3788.8	3785.2
25°	3996.4	3958.2	3918.1	3887.1	3865.3	3848.9	3838.0	3838.0
27.5°	4085.6	4054.7	4018.2	3981.8	3961.8	3945.4	3938.1	3934.5
30°	4234.9	4205.8	4176.6	4142.0	4116.6	4100.2	4087.4	4076.5
32.5°	4426.1	4402.4	4378.7	4353.2	4329.6	4307.7	4287.7	4278.6
35°	4695.5	4677.3	4660.9	4631.8	4622.7	4610.0	4599.0	4589.9
37.5°	5066.9	5059.7	5059.7	5028.7	5021.4	5016.0	5005.0	5006.9
40°	5554.9	5562.2	5553.1	5542.1	5536.7	5522.1	5522.1	5534.9
42.5°	6132.0	6137.5	6157.5	6139.3	6159.4	6141.1	6130.2	6139.3
45°	6802.1	6822.1	6862.1	6843.9	6856.7	6825.7	6787.5	6789.3
47.5°	7554.0	7572.2	7588.6	7575.8	7577.7	7526.7	7475.7	7463.0
50°	8335.1	8342.3	8351.5	8333.2	8336.9	8280.4	8222.2	8224.0
52.5°	9107.0	9141.6	9178.0	9128.9	9118.0	9054.2	8972.3	8939.5
55°	9990.1	10039.2	9997.3	9911.8	9826.2	9740.6	9633.2	9615.0
57.5°	11078.8	10995.1	10864.0	10701.9	10583.6	10463.4	10354.2	10308.7
60°	12593.6	12278.7	12042.0	11801.6	11650.5	11503.0	11359.2	11337.4
62.5°	14734.8	14190.4	13718.8	13221.8	12815.8	12499.0	12245.9	12174.9
65°	17418.4	16131.2	15015.1	13973.7	13068.8	12386.1	11956.4	11767.0
67.5°	18572.7	16031.1	14117.5	12639.1	11455.7	10629.1	10164.8	9933.6
70°	16320.6	13294.6	11213.6	9733.3	8655.5	7774.3	7353.7	7106.1
72.5°	11228.1	8457.1	6687.4	5458.4	4597.2	3859.8	3568.5	3546.7
75°	5041.5	3339.1	2301.3	1773.3	1493.0	1298.1	1238.1	1192.5
77.5°	1411.0	1043.2	930.4	870.3	812.0	744.7	719.2	724.6
80°	686.4	648.2	622.7	584.4	531.6	475.2	449.7	460.6
82.5°	455.2	449.7	466.1	438.8	362.3	307.7	258.5	236.7
85°	276.7	280.4	285.8	287.7	244.0	171.1	116.5	131.1
87.5°	109.2	125.6	136.6	142.0	132.9	81.9	65.5	67.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)