

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: P190896

Luminaire Tested: **GLEON-AF-08-LED-E1-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51401.2 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 445
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

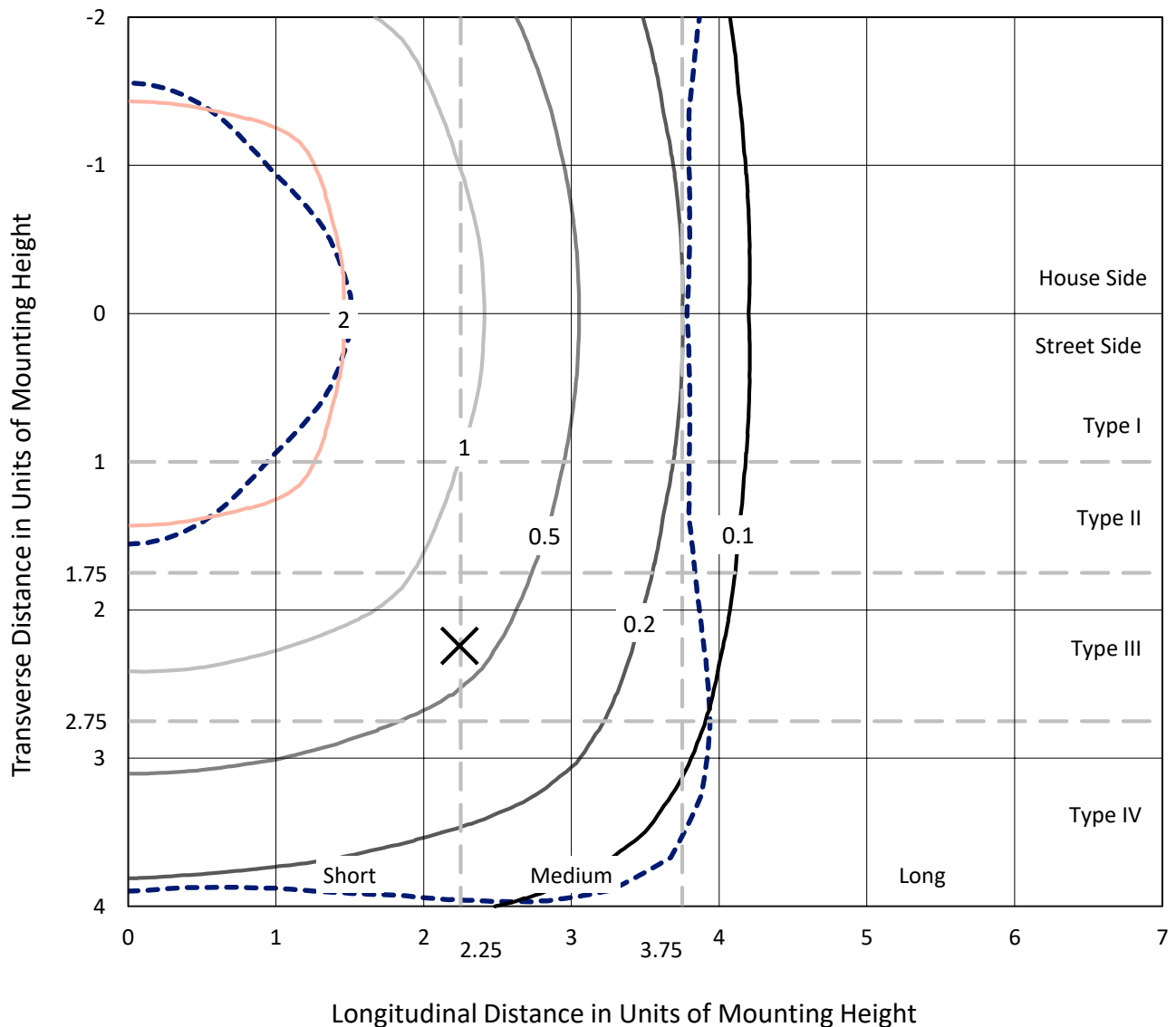


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

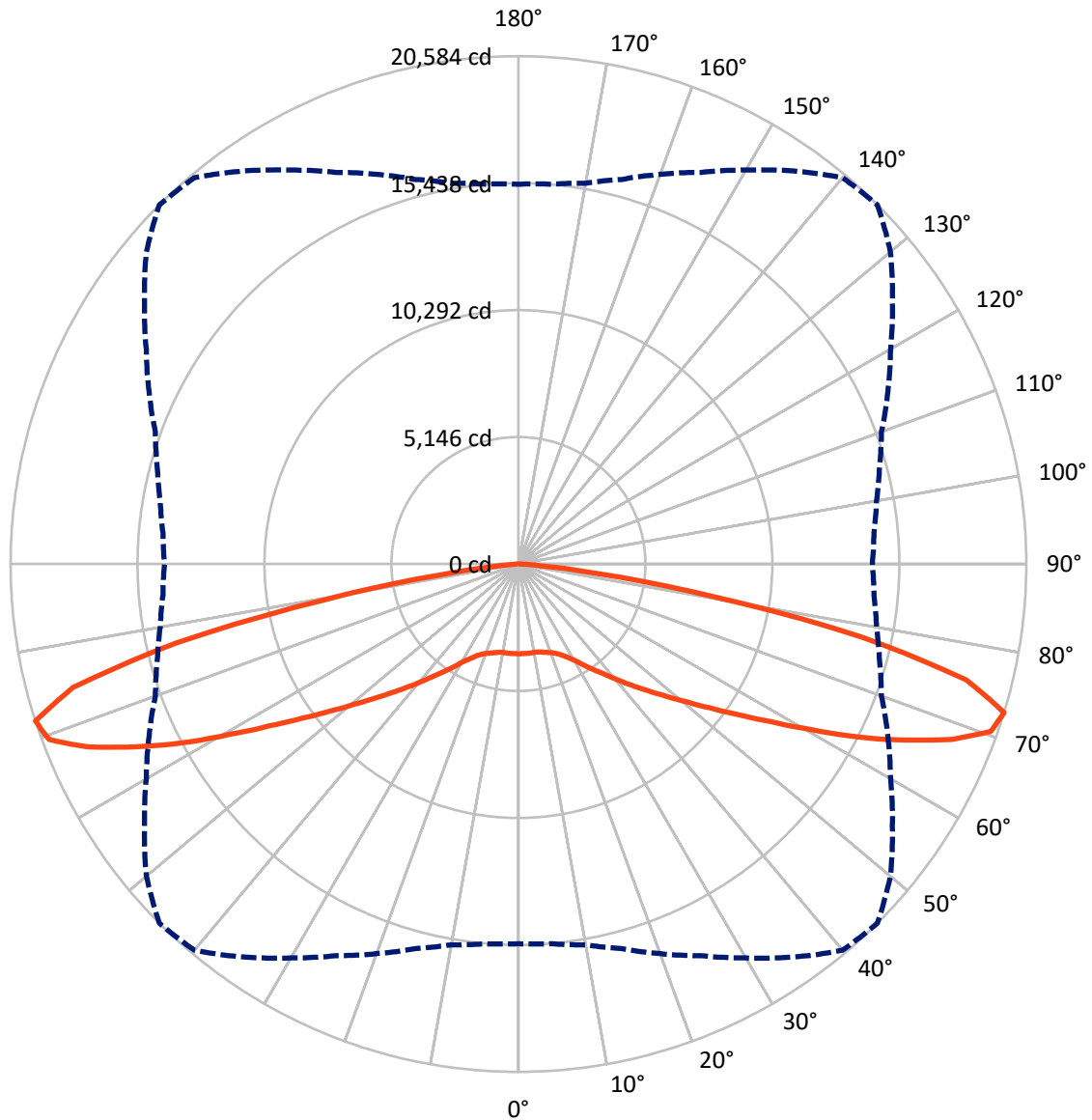


Based on 30 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25700.6	0.0	25700.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25700.6	0.0	25700.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	51401.2	0.0	51401.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.6	0.7
10°-20°	1055.6	2.1
20°-30°	1929.1	3.8
30°-40°	3326.1	6.5
40°-50°	5685.9	11.1
50°-60°	9216.1	17.9
60°-70°	15289.1	29.7
70°-80°	13466.1	26.2
80°-90°	1085.7	2.1
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°	51401.2	100.0
0°-180°	51401.2	100.0



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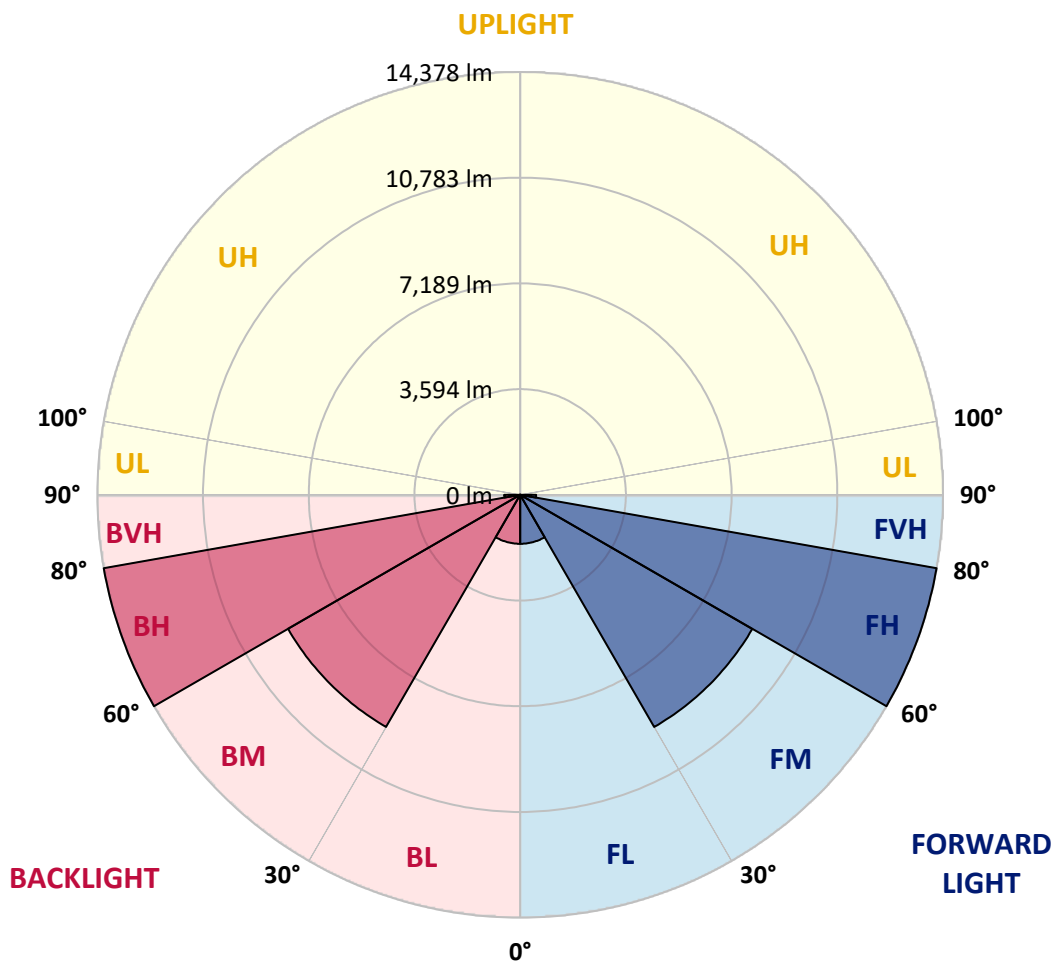
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1666.1	3.2			
FM	(30°-60°)	9114.0	17.7			
FH	(60°-80°)	14377.6	28.0			G5
FVH	(80°-90°)	542.9	1.1			G4/750
BL	(0°-30°)	1666.1	3.2	B3/2500		
BM	(30°-60°)	9114.0	17.7	B5		
BH	(60°-80°)	14377.6	28.0	B5		G5
BVH	(80°-90°)	542.9	1.1			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3640.0	3640.0	3640.0	3640.0	3640.0	3640.0	3640.0	3640.0	3640.0	3640.0	3640.0
2.5°	3640.0	3642.3	3644.7	3642.3	3642.3	3640.0	3637.6	3640.0	3637.6	3632.9	3635.3
5°	3651.8	3656.5	3656.5	3651.8	3654.2	3651.8	3647.1	3649.5	3644.7	3637.6	3637.6
7.5°	3665.9	3668.3	3668.3	3663.6	3665.9	3661.2	3656.5	3654.2	3649.5	3640.0	3632.9
10°	3687.1	3689.5	3687.1	3682.4	3682.4	3675.4	3663.6	3658.9	3649.5	3635.3	3628.2
12.5°	3710.8	3713.1	3710.8	3706.0	3703.7	3691.8	3682.4	3675.4	3668.3	3656.5	3644.7
15°	3743.7	3748.5	3743.7	3734.3	3727.2	3717.8	3713.1	3715.5	3717.8	3708.4	3696.5
17.5°	3805.1	3807.4	3800.4	3779.1	3769.7	3760.3	3760.3	3765.0	3772.0	3767.3	3755.6
20°	3918.2	3911.2	3894.6	3868.7	3856.9	3840.4	3838.0	3840.4	3840.4	3838.0	3828.6
22.5°	4059.7	4055.0	4033.7	4000.7	3984.2	3974.8	3960.7	3948.8	3946.4	3939.4	3930.0
25°	4229.4	4227.0	4201.1	4172.8	4161.1	4149.2	4137.4	4121.0	4106.8	4090.3	4080.9
27.5°	4446.3	4436.8	4399.1	4385.0	4368.5	4361.5	4344.9	4326.1	4314.3	4293.0	4281.3
30°	4684.4	4684.4	4653.7	4649.0	4649.0	4632.5	4613.6	4580.7	4559.4	4538.2	4531.2
32.5°	4922.5	4924.9	4894.2	4903.6	4910.7	4922.5	4927.2	4915.4	4901.3	4898.9	4884.8
35°	5266.7	5257.3	5226.7	5233.7	5231.4	5229.0	5229.0	5254.9	5259.6	5264.3	5236.1
37.5°	5693.4	5693.4	5662.7	5662.7	5648.6	5634.5	5615.6	5632.1	5658.0	5665.1	5646.3
40°	6181.4	6198.0	6160.2	6157.9	6162.6	6117.8	6096.6	6122.5	6138.9	6167.3	6146.1
42.5°	6756.7	6744.8	6707.2	6702.4	6676.5	6662.4	6643.5	6664.7	6690.6	6709.5	6716.6
45°	7308.3	7298.9	7256.4	7256.4	7230.5	7218.8	7228.2	7263.5	7275.3	7301.2	7327.2
47.5°	7852.9	7841.1	7812.8	7824.6	7827.0	7848.2	7878.9	7911.8	7944.8	7980.2	7992.0
50°	8409.3	8411.6	8380.9	8409.3	8444.7	8503.6	8586.0	8640.3	8708.7	8753.5	8767.6
52.5°	8916.1	8925.6	8958.6	9024.6	9095.3	9210.9	9352.2	9484.3	9597.4	9672.9	9668.2
55°	9524.4	9538.5	9618.7	9731.8	9847.3	10021.8	10231.7	10465.0	10653.6	10762.1	10693.7
57.5°	10302.3	10333.0	10422.5	10575.8	10747.9	10974.2	11261.9	11613.2	11905.4	12051.6	11940.8
60°	11370.3	11389.1	11497.6	11667.4	11874.8	12155.3	12539.6	13011.1	13423.7	13617.0	13489.8
62.5°	12777.8	12813.1	12900.3	13072.4	13284.7	13602.9	14072.0	14661.4	15175.4	15444.1	15156.4
65°	14458.7	14571.8	14644.9	14819.4	15017.4	15354.5	15844.9	16476.7	17028.3	17205.1	16872.8
67.5°	16123.0	16222.1	16349.4	16549.8	16750.2	17129.7	17584.7	18197.7	18803.6	18963.9	18447.6
70°	16851.6	16908.1	17106.1	17379.6	17763.8	18211.8	18737.5	19425.9	20175.7	20307.6	19652.2
72.5°	15392.2	15448.8	15670.4	16134.8	16804.4	17516.4	18433.5	19444.8	20435.0	20583.5	19680.6
75°	11641.4	11549.5	11877.2	12492.5	13395.4	14387.9	15670.4	17120.3	18551.3	18737.5	17660.1
77.5°	6016.4	6004.6	6252.2	7016.0	8093.4	9222.6	10634.8	12273.3	13673.6	14239.4	13362.4
80°	1695.0	1714.0	1831.8	2211.3	2840.8	3656.5	4759.8	6294.5	7440.3	8024.9	7534.6
82.5°	664.8	716.7	761.5	832.2	914.7	1034.9	1381.5	2055.7	2758.3	3295.8	2699.4
85°	238.1	254.6	360.7	426.7	433.8	457.4	521.0	608.2	733.1	874.6	719.0
87.5°	89.6	99.0	115.5	191.0	188.6	172.1	209.8	219.2	165.0	150.9	186.3
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°	3640.0	3640.0	3640.0	3640.0	3640.0	3640.0	3640.0	3640.0
2.5°	3630.6	3632.9	3632.9	3635.3	3637.6	3637.6	3642.3	3642.3
5°	3632.9	3632.9	3628.2	3630.6	3628.2	3628.2	3630.6	3630.6
7.5°	3628.2	3625.8	3621.1	3618.8	3614.1	3614.1	3614.1	3614.1
10°	3621.1	3618.8	3614.1	3611.7	3609.4	3609.4	3609.4	3609.4
12.5°	3640.0	3632.9	3628.2	3625.8	3625.8	3625.8	3625.8	3625.8
15°	3689.5	3673.0	3661.2	3661.2	3663.6	3668.3	3668.3	3673.0
17.5°	3750.9	3731.9	3720.2	3710.8	3715.5	3722.5	3727.2	3731.9
20°	3823.9	3814.5	3797.9	3788.5	3788.5	3797.9	3802.7	3805.1
22.5°	3925.3	3918.2	3911.2	3899.3	3899.3	3904.1	3913.5	3913.5
25°	4076.2	4071.4	4066.7	4057.3	4055.0	4055.0	4059.7	4064.4
27.5°	4264.8	4267.1	4262.4	4260.1	4252.9	4250.6	4257.7	4255.3
30°	4517.0	4528.8	4540.6	4531.2	4519.4	4512.2	4505.2	4495.8
32.5°	4858.8	4844.7	4835.3	4818.8	4797.5	4778.7	4764.5	4748.0
35°	5181.9	5158.2	5148.8	5162.9	5160.6	5148.8	5132.3	5118.1
37.5°	5577.8	5573.1	5577.8	5603.8	5599.1	5610.9	5577.8	5575.5
40°	6077.7	6082.4	6115.4	6146.1	6162.6	6179.0	6160.2	6141.3
42.5°	6657.7	6655.3	6667.1	6709.5	6737.8	6756.7	6716.6	6711.9
45°	7270.6	7254.1	7263.5	7298.9	7327.2	7348.4	7303.6	7303.6
47.5°	7944.8	7916.5	7885.9	7925.9	7942.5	7956.6	7921.2	7909.5
50°	8696.9	8637.9	8571.9	8588.4	8588.4	8583.7	8538.9	8536.5
52.5°	9559.7	9451.2	9331.1	9286.2	9260.4	9232.0	9154.3	9116.5
55°	10552.2	10389.6	10201.0	10085.5	10024.2	9946.4	9816.7	9781.4
57.5°	11712.2	11457.6	11132.2	10990.8	10854.0	10726.7	10582.9	10542.8
60°	13086.6	12711.7	12280.3	12018.6	11870.1	11747.5	11598.9	11591.9
62.5°	14619.0	14027.2	13539.3	13303.5	13195.0	13086.6	12945.1	12964.0
65°	16177.3	15559.6	15102.2	14911.2	14809.9	14720.4	14578.9	14600.1
67.5°	17714.3	17146.2	16644.0	16448.4	16335.2	16222.1	16094.8	16116.0
70°	18817.7	18112.8	17547.0	17113.3	16842.1	16535.6	16337.5	16288.0
72.5°	18501.8	17415.0	16516.8	15656.3	15151.7	14741.5	14463.4	14343.1
75°	16012.2	14527.0	13371.8	12315.7	11721.6	11238.2	10887.1	10667.7
77.5°	11891.3	10222.1	8857.2	7640.7	6678.8	6032.9	5577.8	5283.2
80°	6509.1	4950.8	3618.8	2543.8	1869.5	1553.6	1372.1	1284.8
82.5°	2027.5	1308.5	964.2	832.2	773.2	740.3	686.0	598.8
85°	646.0	565.8	525.7	502.2	478.5	417.3	287.7	261.7
87.5°	249.9	257.0	254.6	240.5	245.2	176.8	141.5	124.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)