

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: P193555

Luminaire Tested: **GLEON-AF-07-LED-E1-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193555
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-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35118 lumens
Efficiency: N/A
Efficacy: 89.8 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

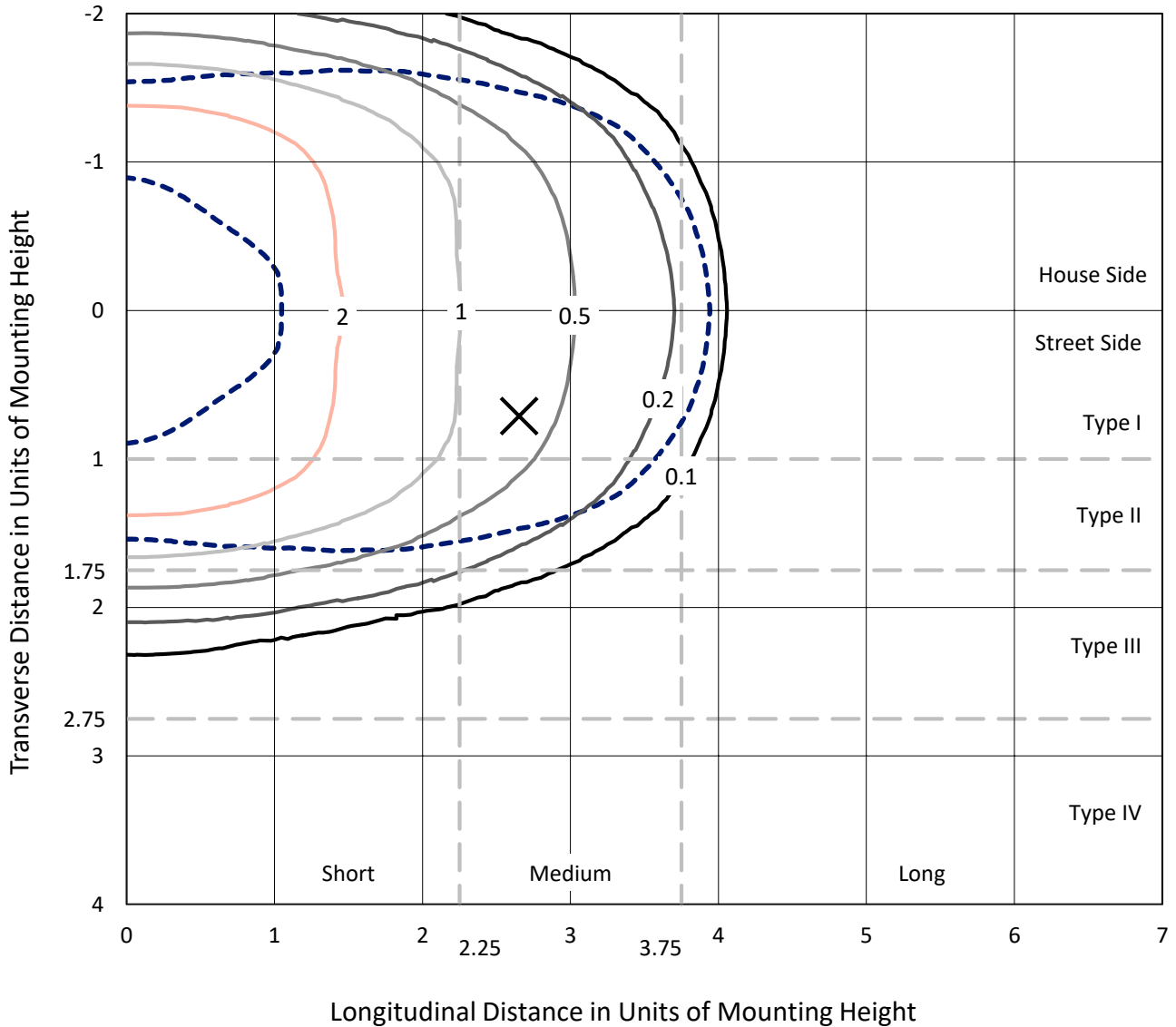
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

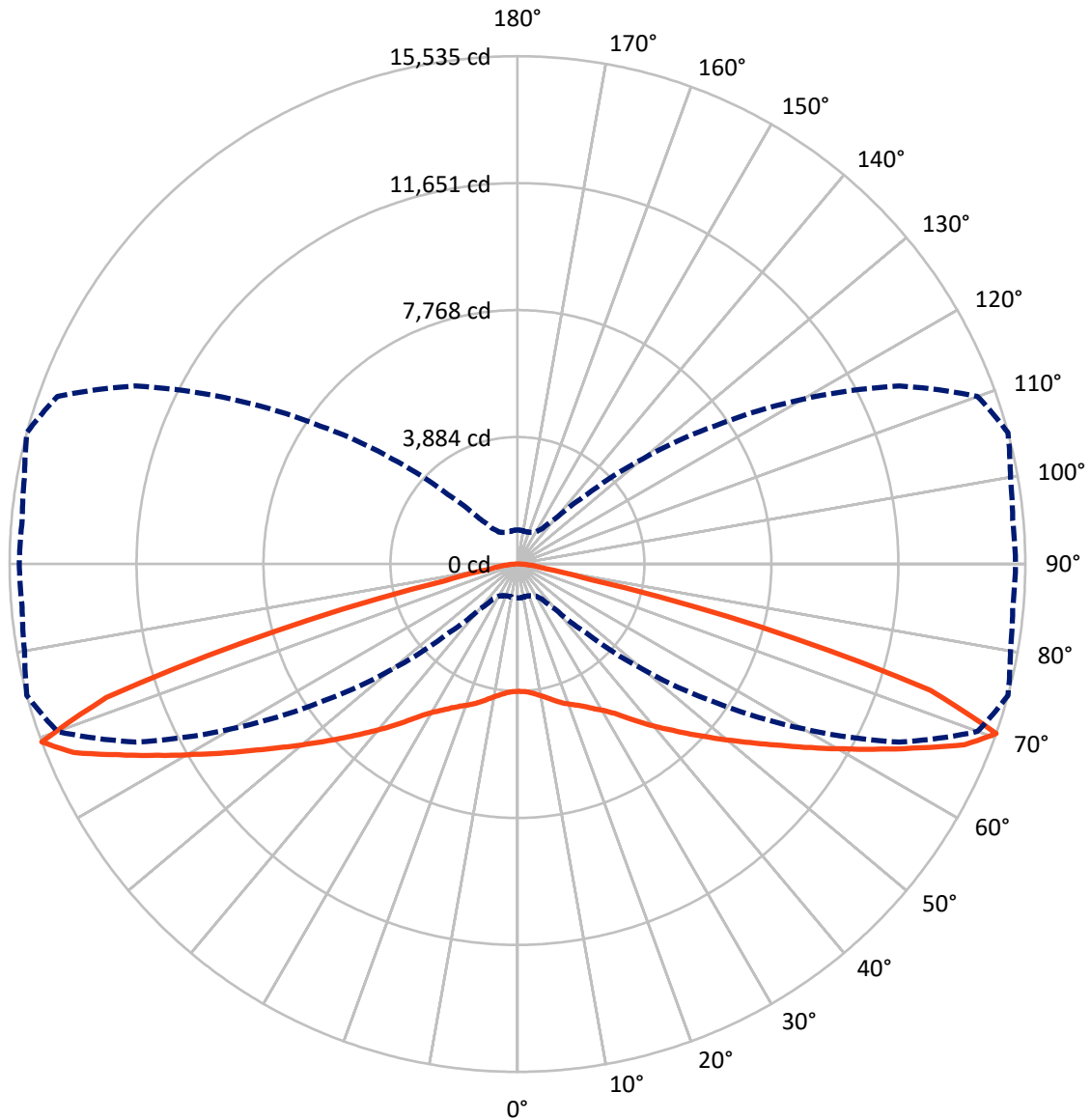
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 fc
 Type 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	17559.0	0.0	17559.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17559.0	0.0	17559.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35118.0	0.0	35118.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.6	1.1
10°-20°	1160.8	3.3
20°-30°	2184.9	6.2
30°-40°	3869.0	11.0
40°-50°	6470.2	18.4
50°-60°	9016.2	25.7
60°-70°	8361.0	23.8
70°-80°	3332.1	9.5
80°-90°	350.3	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°	35118.0	100.0
0°-180°	35118.0	100.0



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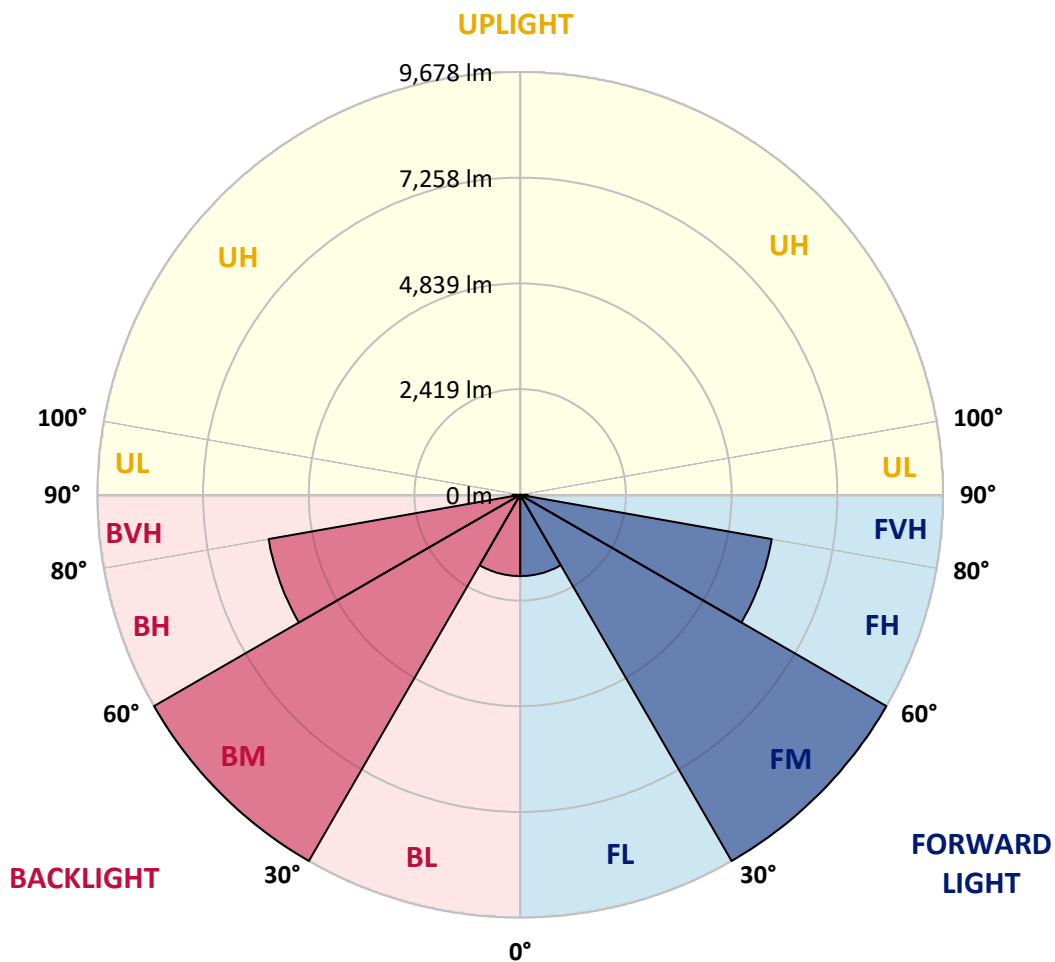
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1859.6	5.3			
FM	(30°-60°)	9677.6	27.6			
FH	(60°-80°)	5846.6	16.6			G3/7500
FVH	(80°-90°)	175.1	0.5			G2/225
BL	(0°-30°)	1859.6	5.3	B3/2500		
BM	(30°-60°)	9677.6	27.6	B5		
BH	(60°-80°)	5846.6	16.6	B5		G5
BVH	(80°-90°)	175.1	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°	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4
2.5°	3888.8	3885.4	3888.8	3887.1	3890.4	3890.4	3893.7	3900.4	3900.4	3905.4	3903.7
5°	3850.6	3848.9	3853.9	3858.9	3863.9	3873.8	3883.8	3898.7	3910.3	3918.6	3926.9
7.5°	3775.9	3775.9	3782.5	3794.2	3805.8	3827.4	3850.6	3880.5	3910.3	3935.2	3956.8
10°	3714.5	3717.8	3726.1	3746.0	3765.9	3799.1	3830.7	3873.8	3915.3	3956.8	3990.0
12.5°	3678.0	3683.0	3697.9	3727.8	3761.0	3805.8	3853.9	3908.7	3955.2	4004.9	4038.1
15°	3689.6	3692.9	3714.5	3751.0	3794.2	3850.6	3915.3	3980.1	4034.8	4087.9	4132.7
17.5°	3754.3	3759.3	3784.2	3825.7	3870.5	3936.9	4006.6	4079.6	4147.7	4207.4	4262.2
20°	3870.5	3875.5	3907.0	3951.8	4004.9	4073.0	4142.7	4219.1	4295.4	4358.5	4419.9
22.5°	4034.8	4043.1	4073.0	4117.8	4177.6	4250.6	4333.6	4414.9	4487.9	4546.0	4600.8
25°	4250.6	4268.8	4297.1	4346.9	4409.9	4476.3	4565.9	4648.9	4718.6	4773.4	4813.2
27.5°	4556.0	4580.9	4602.5	4650.6	4712.0	4775.1	4864.7	4937.7	5004.1	5057.2	5087.1
30°	4961.0	4985.9	5007.4	5053.9	5110.3	5170.1	5254.7	5319.5	5361.0	5402.4	5400.8
32.5°	5452.2	5478.8	5487.1	5536.9	5595.0	5659.7	5736.1	5772.6	5805.8	5810.7	5780.9
35°	6001.6	6014.9	6048.1	6114.5	6180.9	6234.0	6307.0	6325.3	6325.3	6300.4	6234.0
37.5°	6604.1	6612.4	6658.9	6733.6	6801.6	6856.4	6906.2	6942.7	6924.4	6871.3	6760.1
40°	7264.7	7279.6	7346.0	7412.4	7488.7	7540.2	7593.3	7599.9	7581.7	7503.7	7352.6
42.5°	7895.4	7908.7	7975.0	8079.6	8179.2	8250.6	8300.3	8310.3	8252.2	8180.8	7993.3
45°	8438.1	8473.0	8559.3	8682.1	8826.5	8927.7	8995.8	9024.0	8972.5	8879.6	8662.2
47.5°	8868.0	8902.8	9025.7	9171.7	9351.0	9515.3	9628.1	9687.9	9674.6	9604.9	9367.6
50°	9183.3	9216.5	9349.3	9528.6	9737.7	9941.8	10134.4	10277.1	10326.9	10295.4	10077.9
52.5°	9219.8	9274.6	9430.6	9671.3	9943.5	10222.3	10496.2	10738.5	10902.8	10927.7	10766.7
55°	8710.3	8765.1	8980.8	9337.7	9742.7	10197.4	10635.6	11043.9	11367.5	11533.5	11448.9
57.5°	7508.7	7606.6	7834.0	8252.2	8848.1	9528.6	10227.3	10952.6	11611.5	12051.4	12136.0
60°	5754.3	5870.5	6099.5	6544.3	7208.2	8019.9	8952.6	10024.8	11188.3	12177.5	12768.4
62.5°	3691.3	3800.8	4041.5	4428.2	4969.3	5848.9	6849.7	8122.8	9686.2	11248.0	12655.5
65°	1897.1	1956.8	2083.0	2317.0	2738.6	3395.8	4293.7	5563.4	7351.0	9277.9	11312.8
67.5°	1201.7	1213.3	1241.5	1274.7	1382.6	1609.9	2028.2	2819.9	4290.4	6300.4	8682.1
70°	1039.0	1039.0	1025.7	1020.7	1034.0	1065.6	1130.3	1314.5	1810.8	2990.8	5007.4
72.5°	951.0	941.1	917.8	899.6	896.3	896.3	909.5	937.8	1017.4	1218.2	1960.2
75°	876.3	848.1	816.6	795.0	786.7	778.4	776.8	781.7	798.3	829.9	936.1
77.5°	785.1	748.5	712.0	690.5	680.5	668.9	658.9	647.3	639.0	649.0	695.4
80°	675.5	634.0	605.8	592.5	582.6	566.0	544.4	524.5	506.2	502.9	531.1
82.5°	544.4	496.3	497.9	502.9	484.6	461.4	438.2	416.6	385.1	368.5	385.1
85°	439.8	414.9	403.3	434.9	408.3	373.4	336.9	298.8	249.0	209.1	227.4
87.5°	171.0	171.0	255.6	393.4	353.5	288.8	247.3	210.8	131.1	101.2	102.9
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°	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4
2.5°	3902.0	3905.4	3903.7	3902.0	3902.0	3900.4	3902.0	3902.0
5°	3931.9	3940.2	3940.2	3943.5	3943.5	3945.2	3946.9	3945.2
7.5°	3976.7	3991.7	4001.6	4013.2	4014.9	4016.6	4019.9	4016.6
10°	4021.5	4051.4	4073.0	4094.6	4104.5	4107.9	4111.2	4111.2
12.5°	4078.0	4119.5	4157.6	4195.8	4214.1	4224.0	4224.0	4230.7
15°	4170.9	4212.4	4257.2	4308.7	4340.2	4356.8	4361.8	4361.8
17.5°	4302.0	4338.6	4376.7	4426.5	4466.4	4487.9	4492.9	4491.3
20°	4454.7	4489.6	4511.2	4542.7	4577.6	4602.5	4609.1	4609.1
22.5°	4629.0	4648.9	4652.2	4662.2	4690.4	4723.6	4738.6	4741.9
25°	4821.5	4826.5	4813.2	4813.2	4831.5	4863.0	4878.0	4879.6
27.5°	5070.5	5045.6	5012.4	5000.8	5012.4	5048.9	5067.2	5073.8
30°	5380.9	5321.1	5244.8	5203.3	5196.6	5244.8	5278.0	5282.9
32.5°	5736.1	5649.7	5548.5	5463.9	5442.3	5472.2	5512.0	5510.3
35°	6157.6	6054.7	5931.9	5824.0	5774.2	5804.1	5860.5	5867.2
37.5°	6643.9	6509.5	6368.4	6232.3	6154.3	6162.6	6222.4	6242.3
40°	7186.7	7012.4	6834.8	6652.2	6541.0	6519.4	6592.5	6604.1
42.5°	7767.6	7543.5	7319.4	7093.7	6951.0	6917.8	7002.4	6997.5
45°	8386.7	8101.2	7838.9	7590.0	7420.7	7370.9	7440.6	7440.6
47.5°	9052.2	8700.3	8388.3	8106.2	7921.9	7850.6	7916.9	7921.9
50°	9757.6	9384.2	9017.4	8703.7	8482.9	8391.6	8477.9	8491.2
52.5°	10459.7	10096.2	9726.1	9367.6	9100.3	8989.1	9088.7	9131.9
55°	11171.7	10814.9	10461.3	10111.1	9794.1	9663.0	9769.2	9824.0
57.5°	11923.6	11593.3	11256.3	10902.8	10597.4	10393.3	10506.1	10579.2
60°	12804.9	12522.7	12172.5	11782.5	11473.8	11266.3	11331.0	11395.8
62.5°	13502.0	13611.5	13314.4	12863.0	12466.3	12200.7	12263.8	12331.9
65°	13165.0	14288.7	14552.6	14096.2	13546.8	13133.5	13106.9	13141.8
67.5°	11004.1	13186.6	14778.3	15213.2	14753.4	14179.1	14072.9	14124.4
70°	7360.9	10079.6	12887.9	14979.1	15535.1	15312.7	15208.2	15239.7
72.5°	3535.2	5870.5	8743.5	11523.6	13216.5	13993.2	14242.2	14363.4
75°	1292.9	2330.3	4214.1	6350.2	7666.3	8874.6	9663.0	9985.0
77.5°	780.1	941.1	1346.0	2026.5	2295.4	2569.3	2463.1	2516.2
80°	577.6	652.3	738.6	829.9	859.7	859.7	826.5	800.0
82.5°	405.0	453.1	494.6	544.4	557.7	532.8	438.2	348.5
85°	260.6	282.2	300.4	331.9	323.6	308.7	207.5	184.2
87.5°	119.5	136.1	142.7	157.7	151.0	144.4	102.9	86.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)