

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: P300704

Luminaire Tested: **GLNA-AF-09-LED-E1-RW-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300704
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: GLNA-AF-09-LED-E1-RW-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34543.2 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

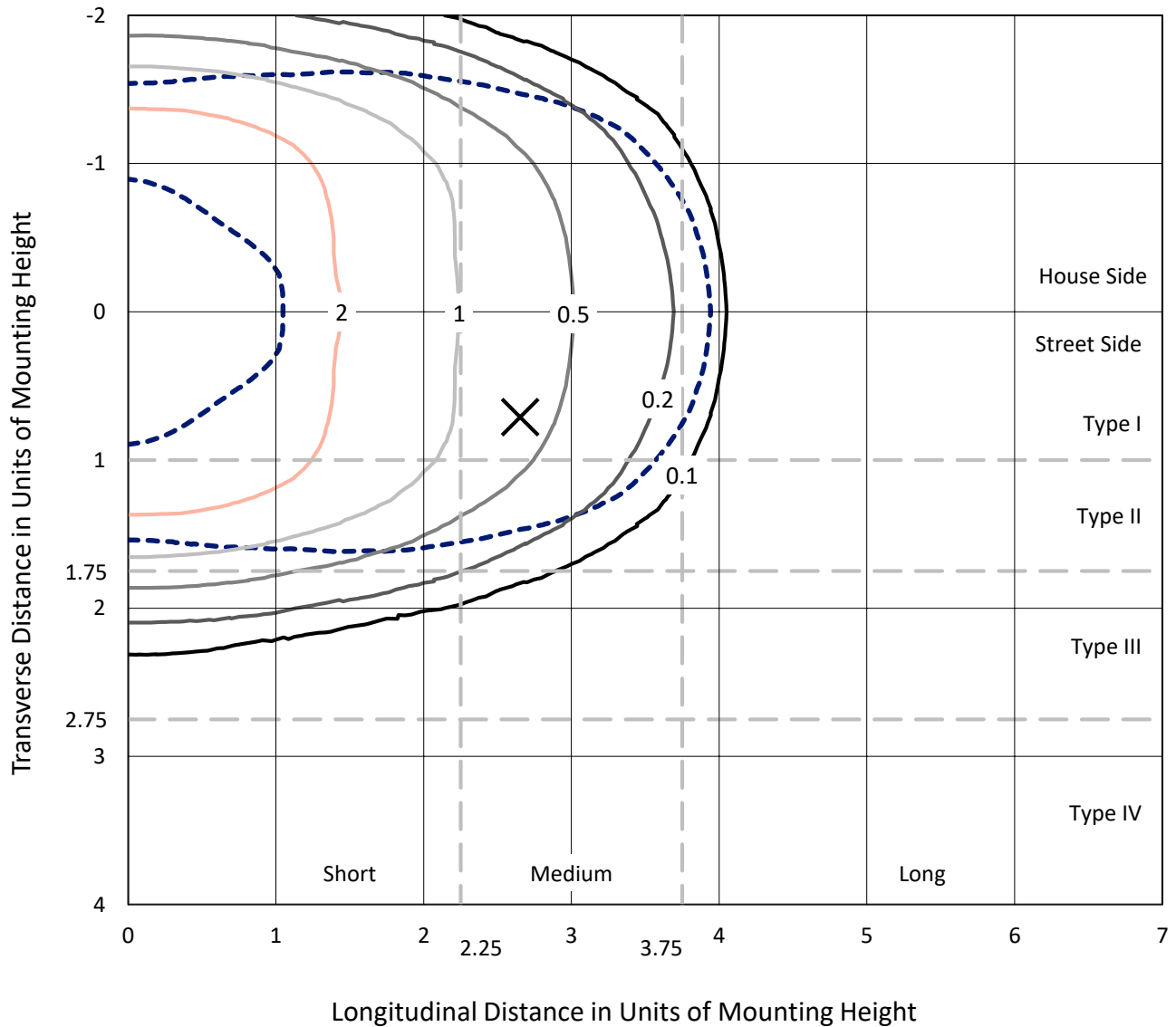
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

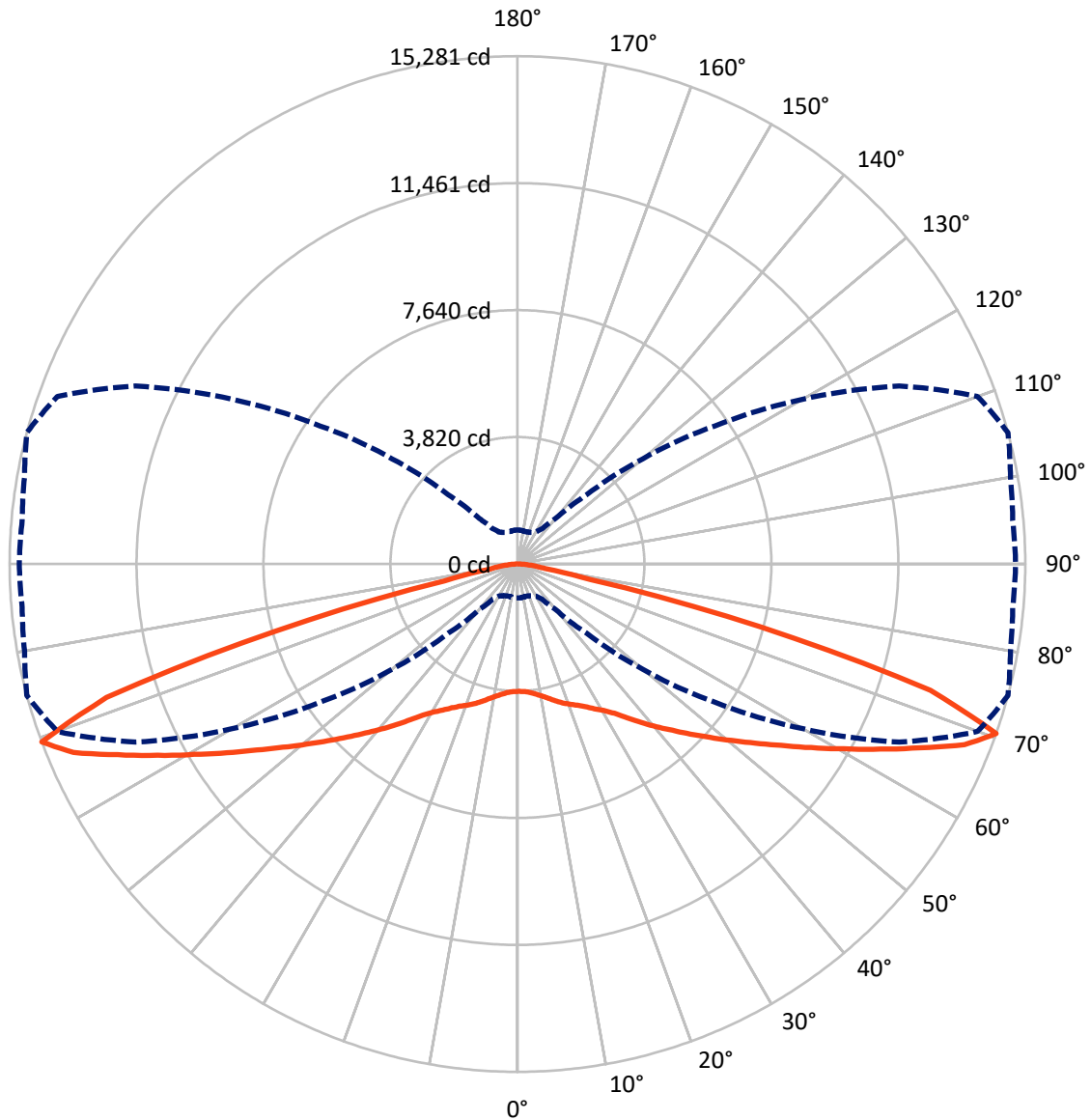
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 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	17271.6	0.0	17271.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17271.6	0.0	17271.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	34543.2	0.0	34543.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.5	1.1
10°-20°	1141.8	3.3
20°-30°	2149.1	6.2
30°-40°	3805.6	11.0
40°-50°	6364.2	18.4
50°-60°	8868.6	25.7
60°-70°	8224.2	23.8
70°-80°	3277.6	9.5
80°-90°	344.5	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°	34543.2	100.0
0°-180°	34543.2	100.0



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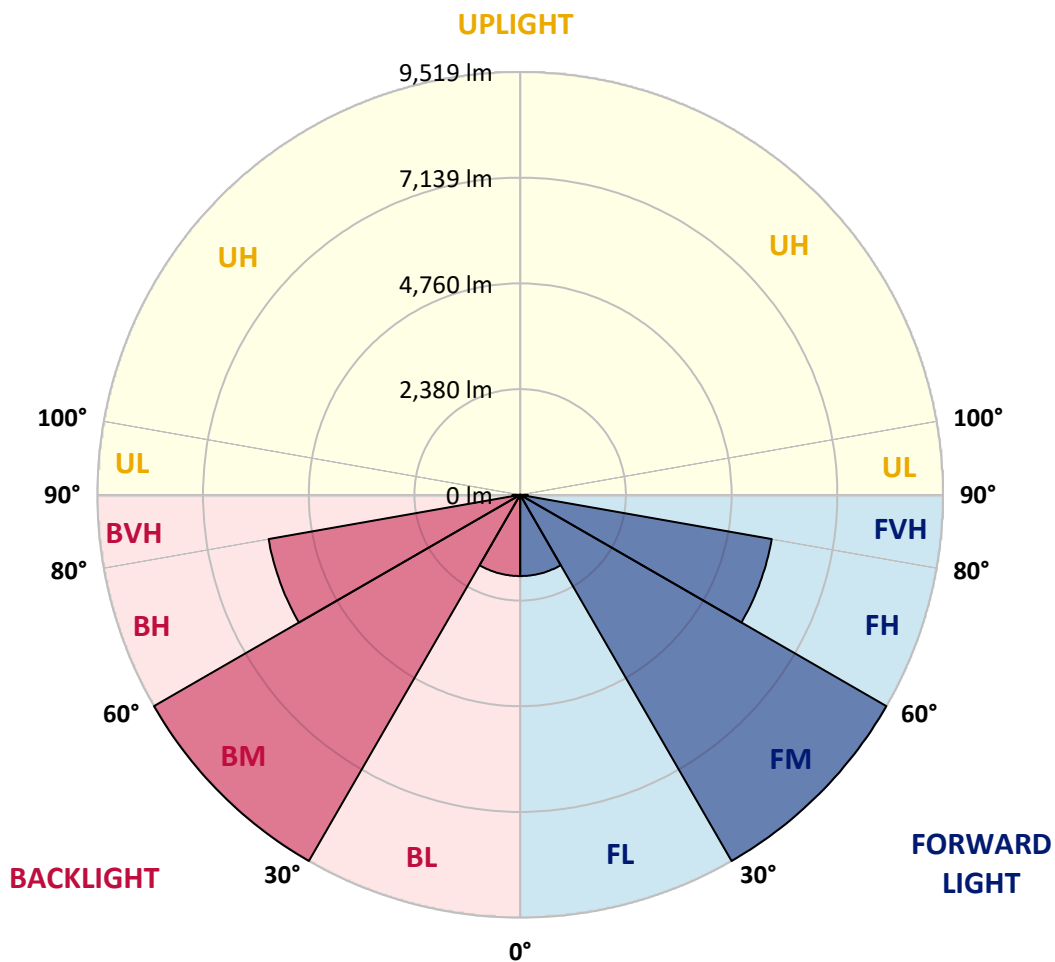
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1829.2	5.3			
FM	(30°-60°)	9519.2	27.6			
FH	(60°-80°)	5750.9	16.6			G3/7500
FVH	(80°-90°)	172.3	0.5			G2/225
BL	(0°-30°)	1829.2	5.3	B3/2500		
BM	(30°-60°)	9519.2	27.6	B5		
BH	(60°-80°)	5750.9	16.6	B5		G5
BVH	(80°-90°)	172.3	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°	3831.6	3831.6	3831.6	3831.6	3831.6	3831.6	3831.6	3831.6	3831.6	3831.6	3831.6
2.5°	3825.1	3821.8	3825.1	3823.5	3826.7	3826.7	3830.0	3836.5	3836.5	3841.4	3839.8
5°	3787.6	3785.9	3790.8	3795.7	3800.6	3810.4	3820.2	3834.9	3846.3	3854.5	3862.7
7.5°	3714.1	3714.1	3720.6	3732.1	3743.5	3764.7	3787.6	3817.0	3846.3	3870.8	3892.1
10°	3653.7	3657.0	3665.1	3684.7	3704.3	3737.0	3768.0	3810.4	3851.2	3892.1	3924.7
12.5°	3617.8	3622.7	3637.4	3666.8	3699.4	3743.5	3790.8	3844.7	3890.4	3939.4	3972.0
15°	3629.2	3632.5	3653.7	3689.6	3732.1	3787.6	3851.2	3914.9	3968.8	4021.0	4065.1
17.5°	3692.9	3697.8	3722.3	3763.1	3807.2	3872.5	3941.0	4012.9	4079.8	4138.6	4192.4
20°	3807.2	3812.1	3843.1	3887.2	3939.4	4006.3	4074.9	4150.0	4225.1	4287.1	4347.5
22.5°	3968.8	3976.9	4006.3	4050.4	4109.2	4181.0	4262.6	4342.6	4414.5	4471.6	4525.5
25°	4181.0	4199.0	4226.7	4275.7	4337.7	4403.0	4491.2	4572.8	4641.4	4695.3	4734.5
27.5°	4481.4	4505.9	4527.1	4574.5	4634.9	4696.9	4785.1	4856.9	4922.2	4974.4	5003.8
30°	4879.8	4904.2	4925.5	4971.2	5026.7	5085.5	5168.7	5232.4	5273.2	5314.0	5312.4
32.5°	5363.0	5389.1	5397.3	5446.3	5503.4	5567.1	5642.2	5678.1	5710.7	5715.6	5686.2
35°	5903.4	5916.4	5949.1	6014.4	6079.7	6131.9	6203.8	6221.7	6221.7	6197.2	6131.9
37.5°	6496.0	6504.2	6549.9	6623.3	6690.3	6744.2	6793.1	6829.0	6811.1	6758.8	6649.5
40°	7145.8	7160.5	7225.8	7291.1	7366.2	7416.8	7469.0	7475.5	7457.6	7380.9	7232.3
42.5°	7766.1	7779.2	7844.5	7947.4	8045.3	8115.5	8164.5	8174.3	8117.1	8046.9	7862.5
45°	8300.0	8334.3	8419.2	8540.0	8682.0	8781.6	8848.5	8876.3	8825.7	8734.3	8520.4
47.5°	8722.8	8757.1	8877.9	9021.6	9197.9	9359.5	9470.5	9529.3	9516.3	9447.7	9214.2
50°	9033.0	9065.7	9196.3	9372.6	9578.3	9779.1	9968.5	10108.9	10157.9	10126.8	9913.0
52.5°	9068.9	9122.8	9276.3	9513.0	9780.7	10055.0	10324.4	10562.7	10724.4	10748.9	10590.5
55°	8567.7	8621.6	8833.8	9184.8	9583.2	10030.5	10461.5	10863.1	11181.5	11344.7	11261.5
57.5°	7385.8	7482.1	7705.7	8117.1	8703.2	9372.6	10059.9	10773.3	11421.5	11854.1	11937.4
60°	5660.1	5774.4	5999.7	6437.2	7090.3	7888.6	8806.1	9860.7	11005.2	11978.2	12559.4
62.5°	3630.8	3738.6	3975.3	4355.7	4887.9	5753.2	6737.6	7989.8	9527.7	11063.9	12448.4
65°	1866.0	1924.8	2048.9	2279.1	2693.7	3340.2	4223.5	5472.4	7230.7	9126.1	11127.6
67.5°	1182.0	1193.4	1221.2	1253.8	1359.9	1583.6	1995.0	2773.7	4220.2	6197.2	8540.0
70°	1022.0	1022.0	1008.9	1004.0	1017.1	1048.1	1111.8	1293.0	1781.1	2941.9	4925.5
72.5°	935.5	925.7	902.8	884.9	881.6	881.6	894.6	922.4	1000.8	1198.3	1928.1
75°	862.0	834.2	803.2	782.0	773.8	765.7	764.0	768.9	785.3	816.3	920.8
77.5°	772.2	736.3	700.4	679.1	669.4	657.9	648.1	636.7	628.5	638.3	684.0
80°	664.5	623.6	595.9	582.8	573.0	556.7	535.5	515.9	497.9	494.7	522.4
82.5°	535.5	488.1	489.8	494.7	476.7	453.9	431.0	409.8	378.8	362.4	378.8
85°	432.6	408.1	396.7	427.7	401.6	367.3	331.4	293.9	244.9	205.7	223.7
87.5°	168.2	168.2	251.4	386.9	347.7	284.1	243.3	207.3	129.0	99.6	101.2
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°	3831.6	3831.6	3831.6	3831.6	3831.6	3831.6	3831.6	3831.6
2.5°	3838.2	3841.4	3839.8	3838.2	3838.2	3836.5	3838.2	3838.2
5°	3867.6	3875.7	3875.7	3879.0	3879.0	3880.6	3882.3	3880.6
7.5°	3911.6	3926.3	3936.1	3947.6	3949.2	3950.8	3954.1	3950.8
10°	3955.7	3985.1	4006.3	4027.6	4037.3	4040.6	4043.9	4043.9
12.5°	4011.2	4052.0	4089.6	4127.1	4145.1	4154.9	4154.9	4161.4
15°	4102.7	4143.5	4187.5	4238.2	4269.2	4285.5	4290.4	4290.4
17.5°	4231.6	4267.5	4305.1	4354.1	4393.2	4414.5	4419.4	4417.7
20°	4381.8	4416.1	4437.3	4468.3	4502.6	4527.1	4533.7	4533.7
22.5°	4553.2	4572.8	4576.1	4585.9	4613.6	4646.3	4661.0	4664.3
25°	4742.6	4747.5	4734.5	4734.5	4752.4	4783.4	4798.1	4799.8
27.5°	4987.5	4963.0	4930.4	4918.9	4930.4	4966.3	4984.2	4990.8
30°	5292.8	5234.0	5158.9	5118.1	5111.6	5158.9	5191.6	5196.5
32.5°	5642.2	5557.3	5457.7	5374.4	5353.2	5382.6	5421.8	5420.1
35°	6056.8	5955.6	5834.8	5728.7	5679.7	5709.1	5764.6	5771.1
37.5°	6535.2	6402.9	6264.2	6130.3	6053.6	6061.7	6120.5	6140.1
40°	7069.0	6897.6	6722.9	6543.3	6434.0	6412.7	6484.6	6496.0
42.5°	7640.4	7420.0	7199.6	6977.6	6837.2	6804.6	6887.8	6882.9
45°	8249.4	7968.6	7710.6	7465.7	7299.2	7250.2	7318.8	7318.8
47.5°	8904.0	8557.9	8251.0	7973.5	7792.3	7722.1	7787.4	7792.3
50°	9597.9	9230.6	8869.8	8561.2	8344.1	8254.3	8339.2	8352.2
52.5°	10288.5	9930.9	9566.9	9214.2	8951.4	8842.0	8940.0	8982.4
55°	10988.8	10637.8	10290.1	9945.6	9633.8	9504.8	9609.3	9663.2
57.5°	11728.4	11403.5	11072.1	10724.4	10424.0	10223.2	10334.2	10406.0
60°	12595.3	12317.8	11973.3	11589.6	11286.0	11081.9	11145.6	11209.2
62.5°	13281.0	13388.7	13096.5	12652.4	12262.2	12001.0	12063.1	12130.0
65°	12949.6	14054.8	14314.4	13865.4	13325.0	12918.5	12892.4	12926.7
67.5°	10823.9	12970.8	14536.4	14964.2	14511.9	13947.1	13842.6	13893.2
70°	7240.5	9914.6	12676.9	14734.0	15280.9	15062.1	14959.3	14990.3
72.5°	3477.4	5774.4	8600.4	11334.9	13000.2	13764.2	14009.1	14128.3
75°	1271.8	2292.1	4145.1	6246.2	7540.8	8729.4	9504.8	9821.6
77.5°	767.3	925.7	1324.0	1993.4	2257.8	2527.2	2422.7	2475.0
80°	568.1	641.6	726.5	816.3	845.7	845.7	813.0	786.9
82.5°	398.3	445.7	486.5	535.5	548.5	524.1	431.0	342.8
85°	256.3	277.5	295.5	326.5	318.4	303.7	204.1	181.2
87.5°	117.5	133.9	140.4	155.1	148.6	142.0	101.2	84.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)