

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: P193537

Luminaire Tested: **GLEON-AF-09-LED-E1-RW-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193537
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-09-LED-E1-RW-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29245 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

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

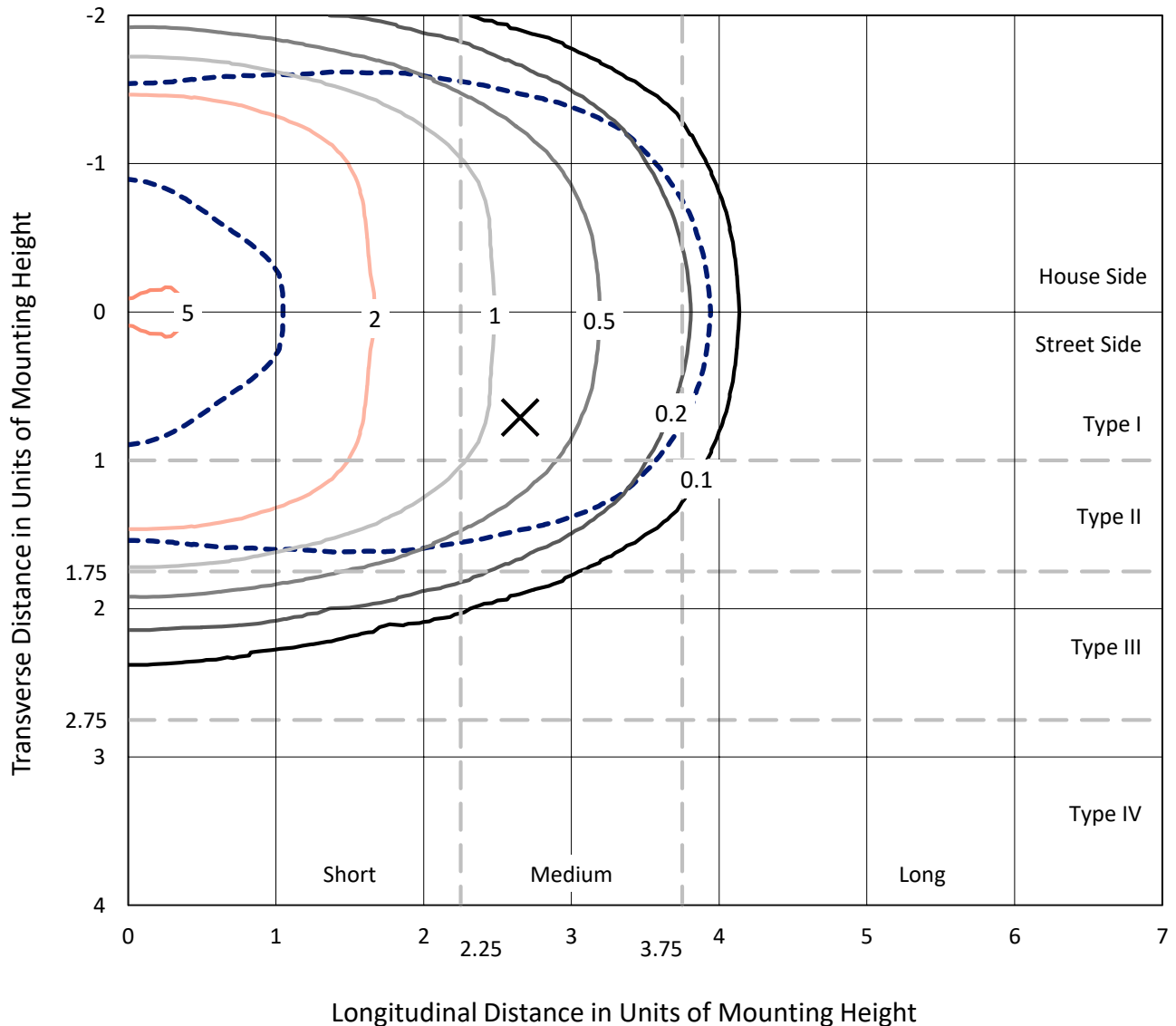


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Iso-Footcandle Lines of Horizontal Illumination

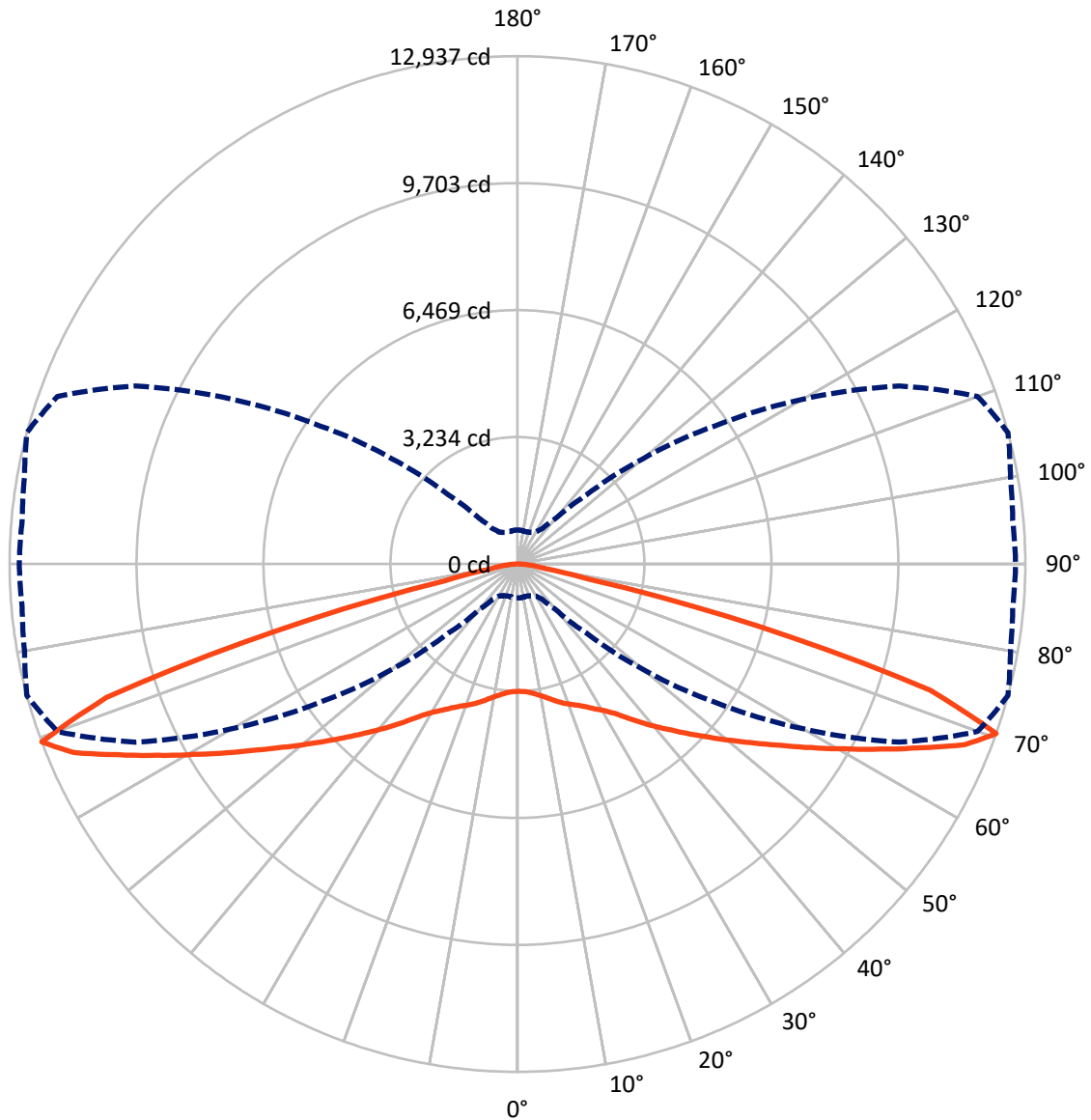
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	14622.5	0.0	14622.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14622.5	0.0	14622.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29245.0	0.0	29245.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.1	1.1
10°-20°	966.7	3.3
20°-30°	1819.5	6.2
30°-40°	3221.9	11.0
40°-50°	5388.1	18.4
50°-60°	7508.3	25.7
60°-70°	6962.8	23.8
70°-80°	2774.9	9.5
80°-90°	291.7	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°	29245.0	100.0
0°-180°	29245.0	100.0



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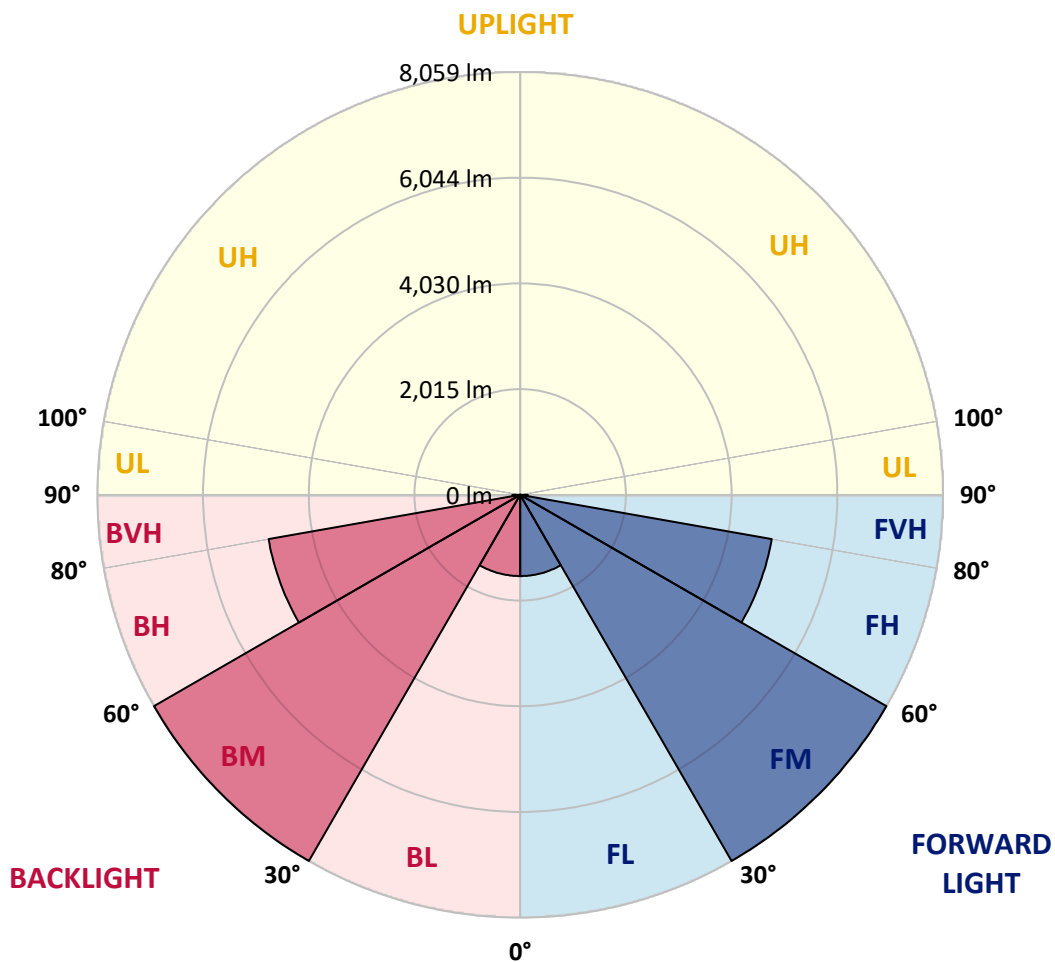
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1548.6	5.3			
FM	(30°-60°)	8059.2	27.6			
FH	(60°-80°)	4868.8	16.6			G2/5000
FVH	(80°-90°)	145.8	0.5			G2/225
BL	(0°-30°)	1548.6	5.3	B3/2500		
BM	(30°-60°)	8059.2	27.6	B4/8500		
BH	(60°-80°)	4868.8	16.6	B4/5000		G4/5000
BVH	(80°-90°)	145.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3244.0	3244.0	3244.0	3244.0	3244.0	3244.0	3244.0	3244.0	3244.0	3244.0	3244.0
2.5°	3238.4	3235.7	3238.4	3237.0	3239.8	3239.8	3242.6	3248.1	3248.1	3252.2	3250.9
5°	3206.6	3205.3	3209.4	3213.5	3217.7	3226.0	3234.3	3246.7	3256.4	3263.3	3270.2
7.5°	3144.4	3144.4	3150.0	3159.6	3169.3	3187.3	3206.6	3231.5	3256.4	3277.1	3295.1
10°	3093.3	3096.1	3103.0	3119.6	3136.1	3163.8	3190.0	3226.0	3260.5	3295.1	3322.7
12.5°	3062.9	3067.0	3079.5	3104.4	3132.0	3169.3	3209.4	3255.0	3293.7	3335.2	3362.8
15°	3072.6	3075.3	3093.3	3123.7	3159.6	3206.6	3260.5	3314.4	3360.1	3404.3	3441.6
17.5°	3126.5	3130.6	3151.3	3185.9	3223.2	3278.5	3336.6	3397.4	3454.0	3503.8	3549.4
20°	3223.2	3227.4	3253.6	3290.9	3335.2	3391.8	3449.9	3513.5	3577.1	3629.6	3680.7
22.5°	3360.1	3367.0	3391.8	3429.2	3478.9	3539.7	3608.8	3676.6	3737.4	3785.8	3831.4
25°	3539.7	3554.9	3578.4	3619.9	3672.4	3727.7	3802.3	3871.5	3929.5	3975.1	4008.3
27.5°	3794.1	3814.8	3832.8	3872.8	3924.0	3976.5	4051.1	4112.0	4167.2	4211.5	4236.3
30°	4131.3	4152.0	4170.0	4208.7	4255.7	4305.5	4375.9	4429.9	4464.4	4499.0	4497.6
32.5°	4540.4	4562.5	4569.5	4610.9	4659.3	4713.2	4776.8	4807.2	4834.8	4839.0	4814.1
35°	4997.9	5009.0	5036.6	5091.9	5147.2	5191.4	5252.2	5267.4	5267.4	5246.7	5191.4
37.5°	5499.7	5506.6	5545.3	5607.5	5664.1	5709.7	5751.2	5781.6	5766.4	5722.2	5629.6
40°	6049.8	6062.2	6117.5	6172.8	6236.3	6279.2	6323.4	6329.0	6313.8	6248.8	6123.0
42.5°	6575.0	6586.0	6641.3	6728.4	6811.3	6870.8	6912.2	6920.5	6872.1	6812.7	6656.5
45°	7027.0	7056.0	7127.8	7230.1	7350.4	7434.7	7491.4	7514.9	7472.0	7394.6	7213.5
47.5°	7384.9	7414.0	7516.2	7637.9	7787.1	7924.0	8018.0	8067.7	8056.7	7998.6	7801.0
50°	7647.5	7675.2	7785.8	7935.0	8109.2	8279.2	8439.5	8558.4	8599.9	8573.6	8392.5
52.5°	7678.0	7723.6	7853.5	8053.9	8280.6	8512.8	8740.8	8942.6	9079.5	9100.2	8966.1
55°	7253.6	7299.2	7478.9	7776.1	8113.3	8492.0	8856.9	9197.0	9466.5	9604.7	9534.2
57.5°	6252.9	6334.5	6523.8	6872.1	7368.3	7935.0	8516.9	9120.9	9669.7	10035.9	10106.4
60°	4792.0	4888.7	5079.5	5449.9	6002.8	6678.6	7455.4	8348.3	9317.2	10141.0	10633.0
62.5°	3073.9	3165.2	3365.6	3687.6	4138.2	4870.8	5704.2	6764.3	8066.3	9367.0	10539.0
65°	1579.8	1629.6	1734.6	1929.5	2280.6	2827.9	3575.7	4633.0	6121.6	7726.3	9420.9
67.5°	1000.7	1010.4	1033.9	1061.5	1151.3	1340.7	1689.0	2348.3	3572.9	5246.7	7230.1
70°	865.2	865.2	854.2	850.0	861.1	887.4	941.3	1094.7	1507.9	2490.7	4170.0
72.5°	792.0	783.7	764.3	749.1	746.4	746.4	757.4	780.9	847.3	1014.5	1632.3
75°	729.8	706.3	680.0	662.1	655.1	648.2	646.9	651.0	664.8	691.1	779.5
77.5°	653.8	623.4	593.0	575.0	566.7	557.0	548.7	539.0	532.1	540.4	579.1
80°	562.5	528.0	504.5	493.4	485.1	471.3	453.4	436.8	421.6	418.8	442.3
82.5°	453.4	413.3	414.7	418.8	403.6	384.2	364.9	346.9	320.7	306.8	320.7
85°	366.3	345.5	335.9	362.1	340.0	311.0	280.6	248.8	207.3	174.2	189.4
87.5°	142.4	142.4	212.9	327.6	294.4	240.5	205.9	175.5	109.2	84.3	85.7
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°	3244.0	3244.0	3244.0	3244.0	3244.0	3244.0	3244.0	3244.0
2.5°	3249.5	3252.2	3250.9	3249.5	3249.5	3248.1	3249.5	3249.5
5°	3274.4	3281.3	3281.3	3284.0	3284.0	3285.4	3286.8	3285.4
7.5°	3311.7	3324.1	3332.4	3342.1	3343.5	3344.9	3347.6	3344.9
10°	3349.0	3373.9	3391.8	3409.8	3418.1	3420.9	3423.6	3423.6
12.5°	3396.0	3430.5	3462.3	3494.1	3509.3	3517.6	3517.6	3523.2
15°	3473.4	3507.9	3545.3	3588.1	3614.4	3628.2	3632.3	3632.3
17.5°	3582.6	3613.0	3644.8	3686.2	3719.4	3737.4	3741.5	3740.2
20°	3709.7	3738.8	3756.7	3783.0	3812.0	3832.8	3838.3	3838.3
22.5°	3854.9	3871.5	3874.2	3882.5	3906.0	3933.7	3946.1	3948.9
25°	4015.2	4019.3	4008.3	4008.3	4023.5	4049.8	4062.2	4063.6
27.5°	4222.5	4201.8	4174.2	4164.5	4174.2	4204.6	4219.8	4225.3
30°	4481.0	4431.2	4367.7	4333.1	4327.6	4367.7	4395.3	4399.4
32.5°	4776.8	4704.9	4620.6	4550.1	4532.1	4557.0	4590.2	4588.8
35°	5127.8	5042.2	4939.9	4850.0	4808.6	4833.4	4880.4	4886.0
37.5°	5532.8	5420.9	5303.4	5190.0	5125.1	5132.0	5181.8	5198.3
40°	5984.8	5839.7	5691.8	5539.7	5447.1	5429.2	5490.0	5499.7
42.5°	6468.6	6282.0	6095.4	5907.4	5788.5	5760.9	5831.4	5827.2
45°	6984.1	6746.4	6528.0	6320.7	6179.7	6138.2	6196.3	6196.3
47.5°	7538.4	7245.3	6985.5	6750.5	6597.1	6537.7	6592.9	6597.1
50°	8125.8	7814.8	7509.3	7248.1	7064.3	6988.2	7060.1	7071.2
52.5°	8710.4	8407.7	8099.5	7801.0	7578.4	7485.8	7568.8	7604.7
55°	9303.4	9006.2	8711.8	8420.2	8156.2	8047.0	8135.5	8181.1
57.5°	9929.5	9654.5	9373.9	9079.5	8825.2	8655.1	8749.1	8809.9
60°	10663.4	10428.5	10136.8	9812.0	9554.9	9382.2	9436.1	9490.0
62.5°	11243.9	11335.2	11087.8	10711.8	10381.5	10160.3	10212.9	10269.5
65°	10963.4	11899.1	12118.9	11738.8	11281.3	10937.1	10915.0	10944.0
67.5°	9163.8	10981.3	12306.8	12669.0	12286.1	11807.9	11719.4	11762.3
70°	6129.9	8393.9	10732.5	12474.1	12937.1	12751.9	12664.8	12691.1
72.5°	2944.0	4888.7	7281.3	9596.4	11006.2	11653.1	11860.4	11961.3
75°	1076.7	1940.6	3509.3	5288.2	6384.2	7390.5	8047.0	8315.1
77.5°	649.6	783.7	1120.9	1687.6	1911.5	2139.6	2051.1	2095.4
80°	481.0	543.2	615.1	691.1	716.0	716.0	688.3	666.2
82.5°	337.2	377.3	411.9	453.4	464.4	443.7	364.9	290.3
85°	217.0	235.0	250.2	276.4	269.5	257.1	172.8	153.4
87.5°	99.5	113.3	118.9	131.3	125.8	120.2	85.7	71.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)