

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: P191804

Luminaire Tested: **GLEON-AF-06-LED-E1-RW-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191804
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-06-LED-E1-RW-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29402 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 249
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

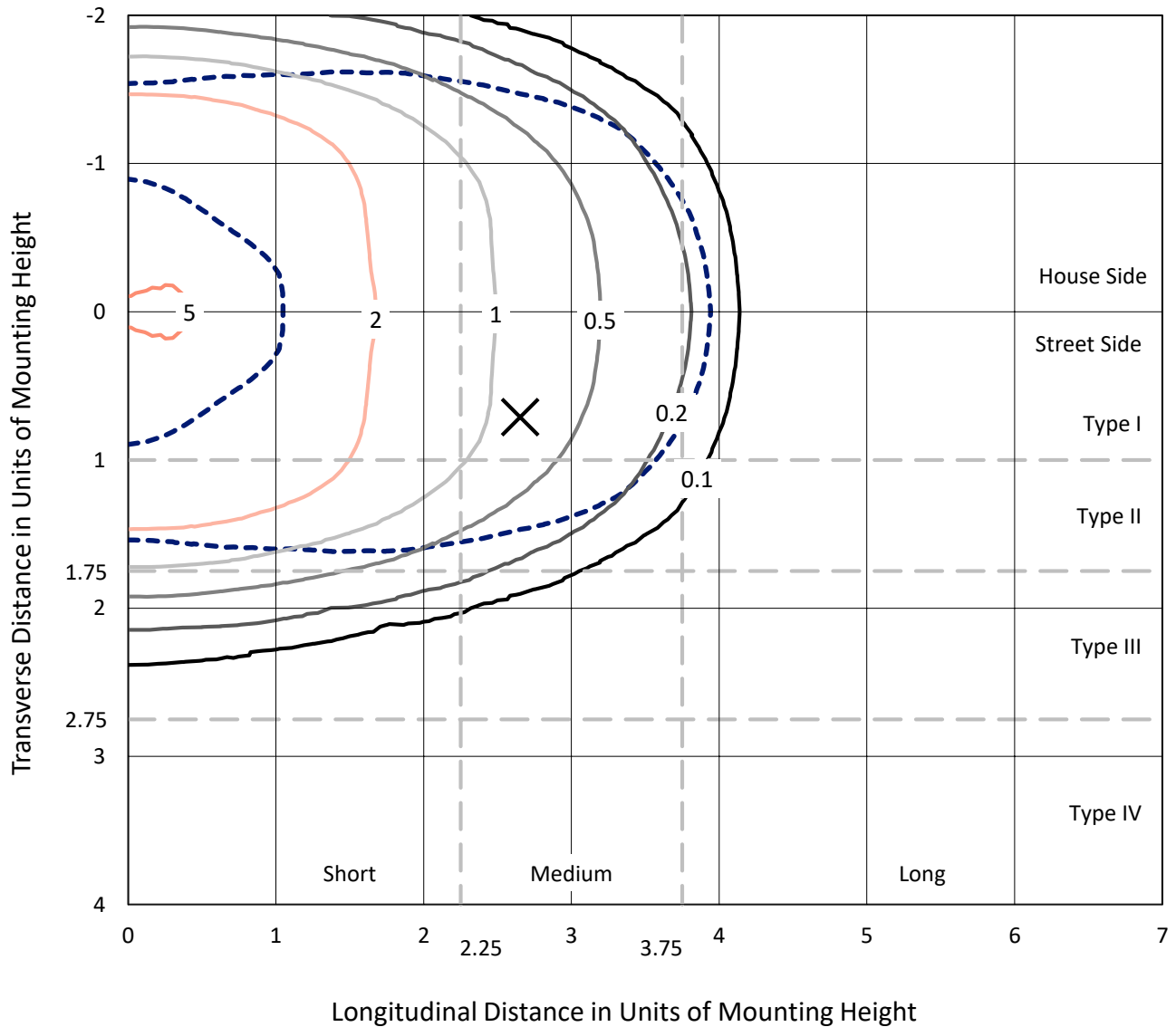


REPORT NUMBER: P191804

CATALOG NUMBER: GLEON-AF-06-LED-E1-RW-7050-800

Iso-Footcandle Lines of Horizontal Illumination

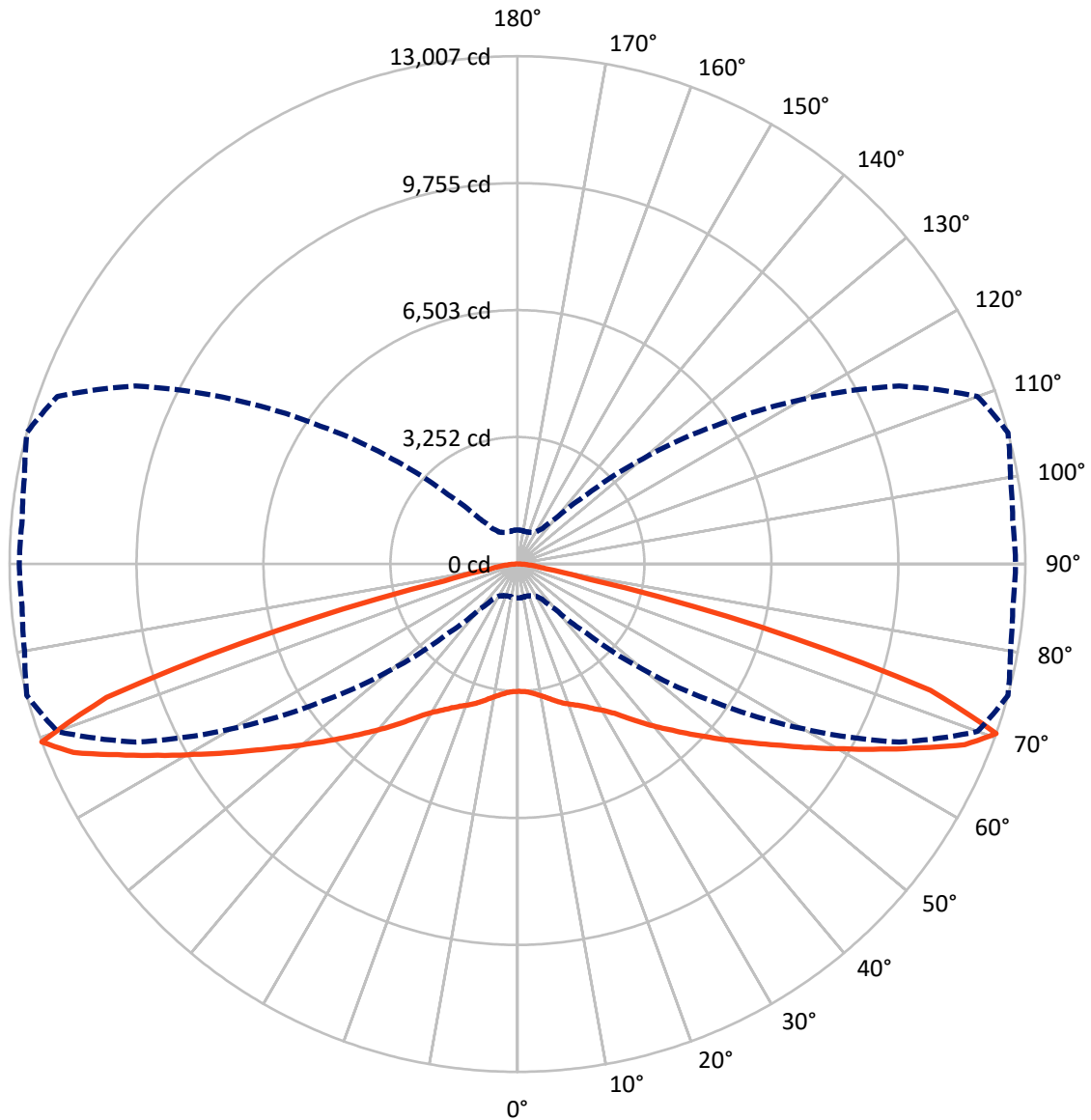
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P191804
CATALOG NUMBER: GLEON-AF-06-LED-E1-RW-7050-800

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P191804

CATALOG NUMBER: GLEON-AF-06-LED-E1-RW-7050-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14701.0	0.0	14701.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14701.0	0.0	14701.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29402.0	0.0	29402.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.8	1.1
10°-20°	971.9	3.3
20°-30°	1829.2	6.2
30°-40°	3239.2	11.0
40°-50°	5417.0	18.4
50°-60°	7548.6	25.7
60°-70°	7000.2	23.8
70°-80°	2789.8	9.5
80°-90°	293.3	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°	29402.0	100.0
0°-180°	29402.0	100.0



REPORT NUMBER: P191804

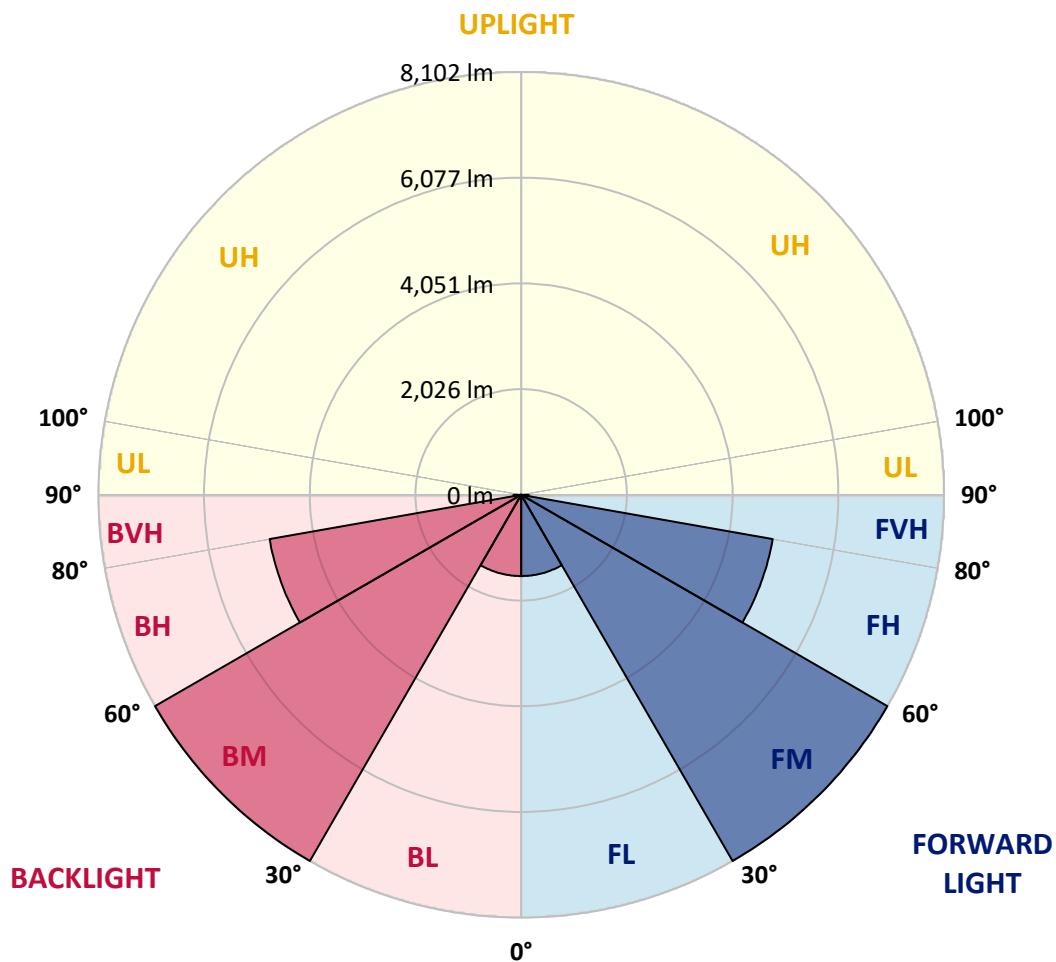
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1557.0	5.3			
FM	(30°-60°)	8102.5	27.6			
FH	(60°-80°)	4895.0	16.6			G2/5000
FVH	(80°-90°)	146.6	0.5			G2/225
BL	(0°-30°)	1557.0	5.3	B3/2500		
BM	(30°-60°)	8102.5	27.6	B4/8500		
BH	(60°-80°)	4895.0	16.6	B4/5000		G4/5000
BVH	(80°-90°)	146.6	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





REPORT NUMBER: P191804

CATALOG NUMBER: GLEON-AF-06-LED-E1-RW-7050-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4
2.5°	3255.8	3253.0	3255.8	3254.4	3257.2	3257.2	3260.0	3265.5	3265.5	3269.7	3268.3
5°	3223.8	3222.5	3226.6	3230.8	3235.0	3243.3	3251.6	3264.1	3273.9	3280.8	3287.8
7.5°	3161.3	3161.3	3166.9	3176.6	3186.3	3204.4	3223.8	3248.9	3273.9	3294.7	3312.8
10°	3109.9	3112.7	3119.6	3136.3	3153.0	3180.8	3207.2	3243.3	3278.0	3312.8	3340.6
12.5°	3079.3	3083.5	3096.0	3121.0	3148.8	3186.3	3226.6	3272.5	3311.4	3353.1	3380.9
15°	3089.1	3091.8	3109.9	3140.5	3176.6	3223.8	3278.0	3332.2	3378.1	3422.6	3460.1
17.5°	3143.3	3147.4	3168.3	3203.0	3240.5	3296.1	3354.5	3415.6	3472.6	3522.6	3568.5
20°	3240.5	3244.7	3271.1	3308.6	3353.1	3410.1	3468.4	3532.3	3596.3	3649.1	3700.5
22.5°	3378.1	3385.0	3410.1	3447.6	3497.6	3558.7	3628.2	3696.3	3757.5	3806.1	3851.9
25°	3558.7	3574.0	3597.6	3639.3	3692.1	3747.7	3822.8	3892.2	3950.6	3996.5	4029.8
27.5°	3814.4	3835.3	3853.3	3893.6	3945.0	3997.8	4072.9	4134.0	4189.6	4234.1	4259.1
30°	4153.5	4174.3	4192.4	4231.3	4278.5	4328.6	4399.4	4453.6	4488.4	4523.1	4521.7
32.5°	4564.8	4587.0	4594.0	4635.7	4684.3	4738.5	4802.4	4833.0	4860.8	4865.0	4839.9
35°	5024.8	5035.9	5063.7	5119.2	5174.8	5219.3	5280.4	5295.7	5295.7	5274.9	5219.3
37.5°	5529.2	5536.1	5575.0	5637.6	5694.5	5740.4	5782.1	5812.7	5797.4	5752.9	5659.8
40°	6082.2	6094.7	6150.3	6205.9	6269.8	6312.9	6357.4	6362.9	6347.6	6282.3	6155.9
42.5°	6610.3	6621.4	6677.0	6764.5	6847.9	6907.7	6949.3	6957.7	6909.0	6849.3	6692.3
45°	7064.7	7093.9	7166.1	7268.9	7389.8	7474.6	7531.6	7555.2	7512.1	7434.3	7252.3
47.5°	7424.6	7453.8	7556.6	7678.9	7828.9	7966.5	8061.0	8111.0	8099.9	8041.6	7842.8
50°	7688.6	7716.4	7827.6	7977.6	8152.7	8323.6	8484.8	8604.3	8646.0	8619.6	8437.6
52.5°	7719.2	7765.0	7895.6	8097.1	8325.0	8558.5	8787.8	8990.6	9128.2	9149.1	9014.3
55°	7292.6	7338.4	7519.1	7817.8	8156.9	8537.6	8904.5	9246.3	9517.3	9656.3	9585.4
57.5°	6286.5	6368.5	6558.9	6909.0	7407.9	7977.6	8562.7	9169.9	9721.6	10089.8	10160.7
60°	4817.7	4915.0	5106.7	5479.2	6035.0	6714.5	7495.4	8393.1	9367.2	10195.4	10690.1
62.5°	3090.4	3182.2	3383.7	3707.4	4160.4	4896.9	5734.8	6800.7	8109.6	9417.2	10595.6
65°	1588.3	1638.3	1743.9	1939.9	2292.8	2843.1	3594.9	4657.9	6154.5	7767.8	9471.4
67.5°	1006.1	1015.8	1039.4	1067.2	1157.5	1347.9	1698.1	2360.9	3592.1	5274.9	7268.9
70°	869.9	869.9	858.8	854.6	865.7	892.1	946.3	1100.6	1516.0	2504.0	4192.4
72.5°	796.2	787.9	768.4	753.2	750.4	750.4	761.5	785.1	851.8	1020.0	1641.1
75°	733.7	710.1	683.7	665.6	658.7	651.7	650.3	654.5	668.4	694.8	783.7
77.5°	657.3	626.7	596.1	578.1	569.7	560.0	551.7	541.9	535.0	543.3	582.2
80°	565.6	530.8	507.2	496.1	487.7	473.9	455.8	439.1	423.8	421.0	444.7
82.5°	455.8	415.5	416.9	421.0	405.8	386.3	366.9	348.8	322.4	308.5	322.4
85°	368.2	347.4	337.7	364.1	341.8	312.7	282.1	250.1	208.4	175.1	190.4
87.5°	143.1	143.1	214.0	329.3	296.0	241.8	207.0	176.5	109.8	84.8	86.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191804

CATALOG NUMBER: GLEON-AF-06-LED-E1-RW-7050-800

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4
2.5°	3266.9	3269.7	3268.3	3266.9	3266.9	3265.5	3266.9	3266.9
5°	3291.9	3298.9	3298.9	3301.7	3301.7	3303.1	3304.4	3303.1
7.5°	3329.5	3342.0	3350.3	3360.0	3361.4	3362.8	3365.6	3362.8
10°	3367.0	3392.0	3410.1	3428.1	3436.5	3439.2	3442.0	3442.0
12.5°	3414.2	3449.0	3480.9	3512.9	3528.2	3536.5	3536.5	3542.1
15°	3492.0	3526.8	3564.3	3607.4	3633.8	3647.7	3651.8	3651.8
17.5°	3601.8	3632.4	3664.3	3706.0	3739.4	3757.5	3761.6	3760.2
20°	3729.7	3758.8	3776.9	3803.3	3832.5	3853.3	3858.9	3858.9
22.5°	3875.6	3892.2	3895.0	3903.4	3927.0	3954.8	3967.3	3970.1
25°	4036.8	4040.9	4029.8	4029.8	4045.1	4071.5	4084.0	4085.4
27.5°	4245.2	4224.4	4196.6	4186.8	4196.6	4227.1	4242.4	4248.0
30°	4505.0	4455.0	4391.1	4356.4	4350.8	4391.1	4418.9	4423.1
32.5°	4802.4	4730.2	4645.4	4574.5	4556.5	4581.5	4614.8	4613.4
35°	5155.4	5069.2	4966.4	4876.1	4834.4	4859.4	4906.6	4912.2
37.5°	5562.5	5450.0	5331.9	5217.9	5152.6	5159.5	5209.6	5226.2
40°	6016.9	5871.0	5722.3	5569.5	5476.4	5458.3	5519.5	5529.2
42.5°	6503.3	6315.7	6128.1	5939.1	5819.6	5791.8	5862.7	5858.5
45°	7021.6	6782.6	6563.0	6354.6	6212.9	6171.2	6229.5	6229.5
47.5°	7578.8	7284.2	7023.0	6786.8	6632.5	6572.8	6628.3	6632.5
50°	8169.4	7856.7	7549.6	7287.0	7102.2	7025.8	7098.0	7109.1
52.5°	8757.2	8452.9	8143.0	7842.8	7619.1	7526.0	7609.4	7645.5
55°	9353.3	9054.6	8758.6	8465.4	8200.0	8090.2	8179.1	8225.0
57.5°	9982.8	9706.3	9424.2	9128.2	8872.5	8701.6	8796.1	8857.2
60°	10720.7	10484.5	10191.3	9864.7	9606.2	9432.5	9486.7	9540.9
62.5°	11304.3	11396.0	11147.3	10769.3	10437.2	10214.9	10267.7	10324.7
65°	11022.2	11963.0	12183.9	11801.8	11341.8	10995.8	10973.6	11002.8
67.5°	9213.0	11040.3	12372.9	12737.0	12352.1	11871.3	11782.3	11825.4
70°	6162.8	8439.0	10790.2	12541.0	13006.6	12820.4	12732.8	12759.2
72.5°	2959.8	4915.0	7320.4	9647.9	11065.3	11715.6	11924.1	12025.5
75°	1082.5	1951.0	3528.2	5316.6	6418.5	7430.1	8090.2	8359.8
77.5°	653.1	787.9	1127.0	1696.7	1921.8	2151.1	2062.2	2106.6
80°	483.6	546.1	618.4	694.8	719.8	719.8	692.0	669.8
82.5°	339.1	379.4	414.1	455.8	466.9	446.1	366.9	291.8
85°	218.2	236.2	251.5	277.9	271.0	258.5	173.7	154.2
87.5°	100.1	113.9	119.5	132.0	126.5	120.9	86.2	72.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)