

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: P300700

Luminaire Tested: **GLNA-AF-08-LED-E1-RW-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300700  
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-08-LED-E1-RW-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular  
Wide Type I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

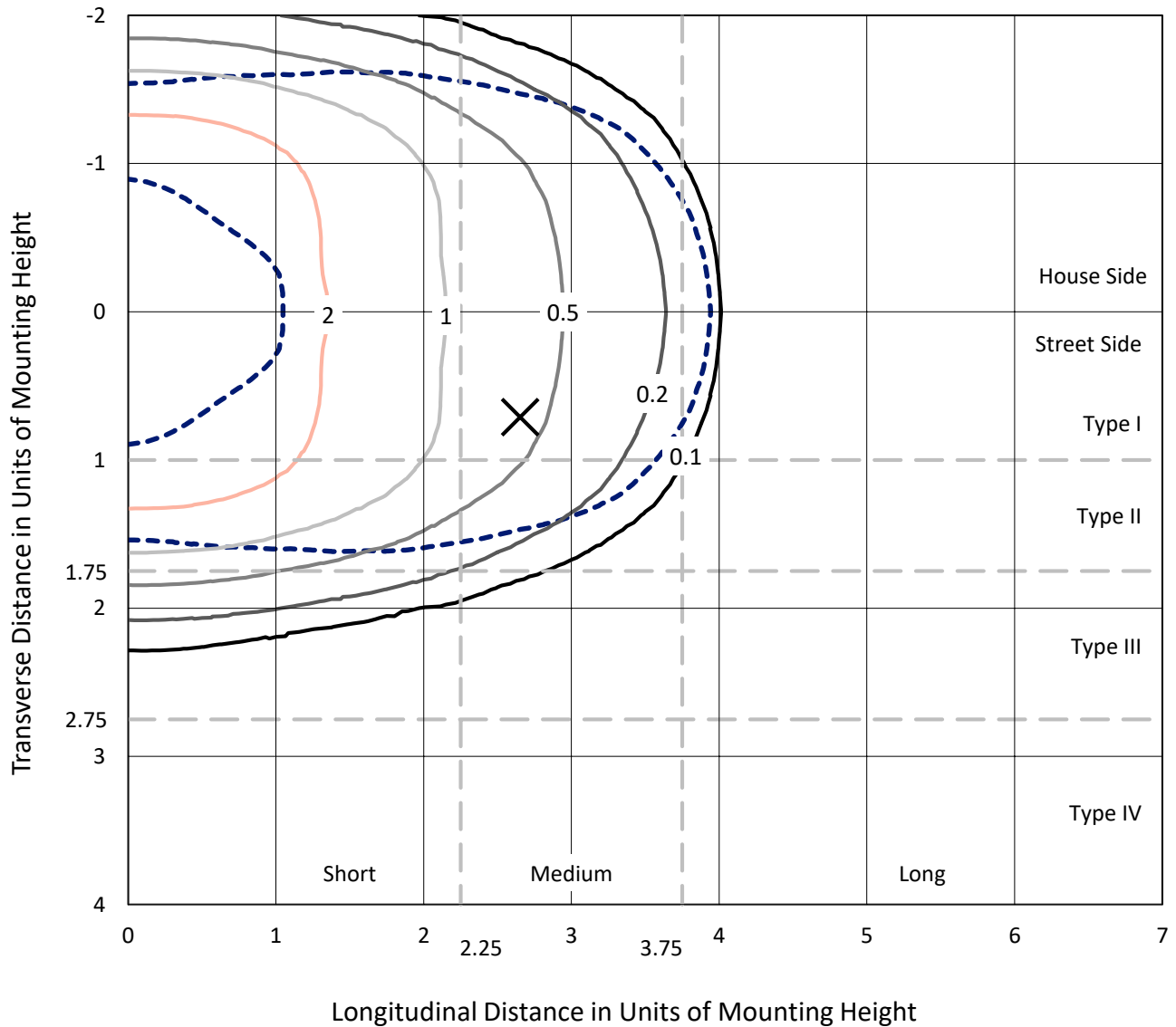
Lumens per Lamp: N/A  
Luminaire Lumens: 32014.1 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (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

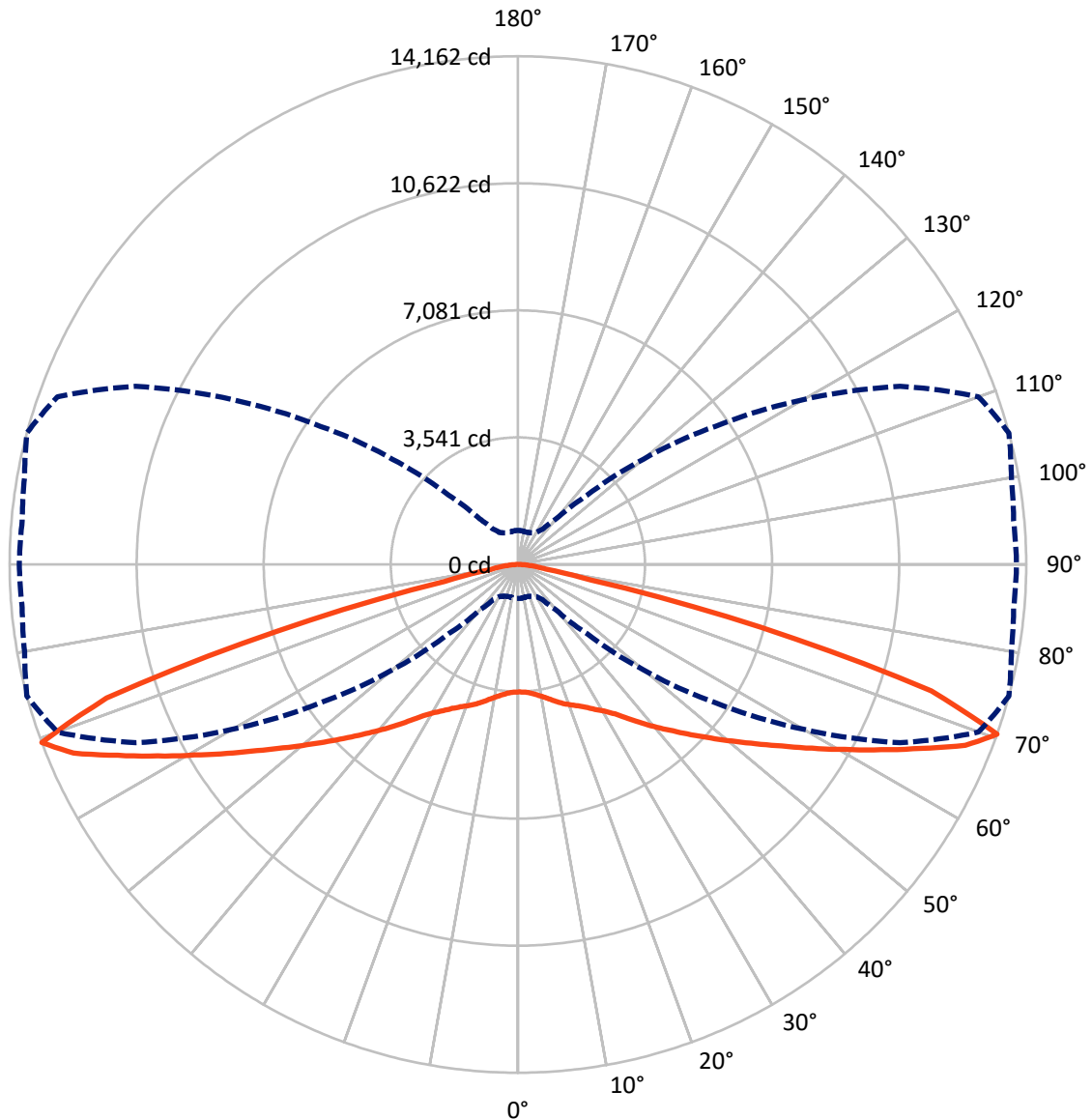
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 fc  
 Type 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
<b>House Side</b>	Lumens	16007.0	0.0	16007.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16007.0	0.0	16007.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32014.1	0.0	32014.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	340.6	1.1
10°-20°	1058.2	3.3
20°-30°	1991.8	6.2
30°-40°	3527.0	11.0
40°-50°	5898.3	18.4
50°-60°	8219.3	25.7
60°-70°	7622.1	23.8
70°-80°	3037.6	9.5
80°-90°	319.3	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°	32014.1	100.0
0°-180°	32014.1	100.0

**Coefficient of Utilization**



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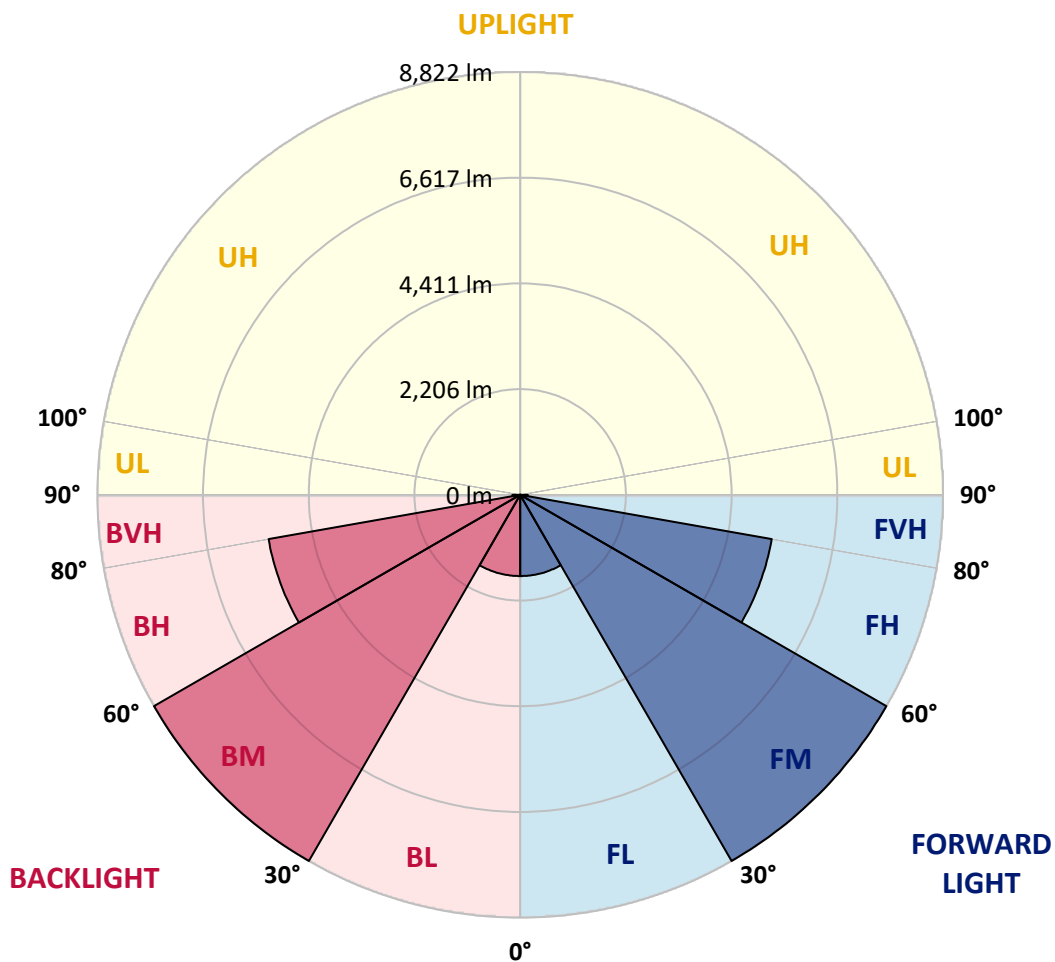
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1695.3	5.3			
FM	(30°-60°)	8822.3	27.6			
FH	(60°-80°)	5329.8	16.6			G3/7500
FVH	(80°-90°)	159.6	0.5			G2/225
BL	(0°-30°)	1695.3	5.3	B3/2500		
BM	(30°-60°)	8822.3	27.6	B5		
BH	(60°-80°)	5329.8	16.6	B5		G5
BVH	(80°-90°)	159.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1
2.5°	3545.1	3542.0	3545.1	3543.5	3546.6	3546.6	3549.6	3555.6	3555.6	3560.2	3558.7
5°	3510.3	3508.7	3513.3	3517.8	3522.4	3531.4	3540.5	3554.1	3564.7	3572.3	3579.9
7.5°	3442.2	3442.2	3448.2	3458.8	3469.4	3489.1	3510.3	3537.5	3564.7	3587.4	3607.1
10°	3386.2	3389.2	3396.8	3414.9	3433.1	3463.4	3492.1	3531.4	3569.3	3607.1	3637.4
12.5°	3352.9	3357.4	3371.1	3398.3	3428.6	3469.4	3513.3	3563.2	3605.6	3651.0	3681.2
15°	3363.5	3366.5	3386.2	3419.5	3458.8	3510.3	3569.3	3628.3	3678.2	3726.6	3767.5
17.5°	3422.5	3427.0	3449.7	3487.6	3528.4	3588.9	3652.5	3719.1	3781.1	3835.6	3885.5
20°	3528.4	3533.0	3561.7	3602.6	3651.0	3713.0	3776.6	3846.2	3915.8	3973.2	4029.2
22.5°	3678.2	3685.8	3713.0	3753.9	3808.3	3874.9	3950.6	4024.7	4091.3	4144.2	4194.2
25°	3874.9	3891.5	3917.3	3962.7	4020.2	4080.7	4162.4	4238.0	4301.6	4351.5	4387.8
27.5°	4153.3	4176.0	4195.7	4239.5	4295.5	4353.0	4434.7	4501.3	4561.8	4610.2	4637.5
30°	4522.5	4545.2	4564.8	4607.2	4658.7	4713.1	4790.3	4849.3	4887.1	4925.0	4923.4
32.5°	4970.3	4994.6	5002.1	5047.5	5100.5	5159.5	5229.1	5262.4	5292.6	5297.2	5269.9
35°	5471.2	5483.3	5513.5	5574.0	5634.6	5683.0	5749.6	5766.2	5766.2	5743.5	5683.0
37.5°	6020.4	6028.0	6070.3	6138.4	6200.4	6250.4	6295.8	6329.1	6312.4	6264.0	6162.6
40°	6622.6	6636.2	6696.7	6757.2	6826.8	6873.7	6922.2	6928.2	6911.6	6840.5	6702.8
42.5°	7197.5	7209.6	7270.2	7365.5	7456.3	7521.3	7566.7	7575.8	7522.8	7457.8	7286.8
45°	7692.3	7724.1	7802.8	7914.7	8046.4	8138.7	8200.7	8226.4	8179.5	8094.8	7896.6
47.5°	8084.2	8116.0	8227.9	8361.1	8524.5	8674.3	8777.2	8831.6	8819.5	8756.0	8539.6
50°	8371.7	8401.9	8523.0	8686.4	8877.0	9063.1	9238.6	9368.8	9414.1	9385.4	9187.2
52.5°	8404.9	8454.9	8597.1	8816.5	9064.6	9318.8	9568.5	9789.4	9939.2	9961.9	9815.1
55°	7940.4	7990.4	8187.1	8512.4	8881.6	9296.1	9695.6	10067.8	10362.8	10514.1	10437.0
57.5°	6845.0	6934.3	7141.6	7522.8	8066.0	8686.4	9323.4	9984.6	10585.2	10986.2	11063.4
60°	5245.7	5351.6	5560.4	5965.9	6571.1	7311.0	8161.3	9138.8	10199.4	11101.2	11639.8
62.5°	3365.0	3464.9	3684.3	4036.8	4530.0	5332.0	6244.3	7404.8	8830.1	10253.9	11536.9
65°	1729.4	1783.9	1898.9	2112.2	2496.5	3095.7	3914.2	5071.7	6701.3	8457.9	10312.9
67.5°	1095.4	1106.0	1131.8	1162.0	1260.4	1467.7	1848.9	2570.7	3911.2	5743.5	7914.7
70°	947.2	947.2	935.1	930.5	942.6	971.4	1030.4	1198.3	1650.7	2726.5	4564.8
72.5°	867.0	857.9	836.7	820.1	817.0	817.0	829.1	854.9	927.5	1110.6	1786.9
75°	798.9	773.2	744.4	724.7	717.2	709.6	708.1	712.6	727.8	756.5	853.4
77.5°	715.7	682.4	649.1	629.4	620.3	609.8	600.7	590.1	582.5	591.6	634.0
80°	615.8	578.0	552.3	540.2	531.1	515.9	496.3	478.1	461.5	458.5	484.2
82.5°	496.3	452.4	453.9	458.5	441.8	420.6	399.4	379.8	351.0	335.9	351.0
85°	401.0	378.3	367.7	396.4	372.2	340.4	307.1	272.3	227.0	190.6	207.3
87.5°	155.8	155.8	233.0	358.6	322.3	263.3	225.4	192.2	119.5	92.3	93.8
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°	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1
2.5°	3557.2	3560.2	3558.7	3557.2	3557.2	3555.6	3557.2	3557.2
5°	3584.4	3592.0	3592.0	3595.0	3595.0	3596.5	3598.0	3596.5
7.5°	3625.2	3638.9	3647.9	3658.5	3660.0	3661.6	3664.6	3661.6
10°	3666.1	3693.3	3713.0	3732.7	3741.8	3744.8	3747.8	3747.8
12.5°	3717.5	3755.4	3790.2	3825.0	3841.6	3850.7	3850.7	3856.7
15°	3802.3	3840.1	3881.0	3927.9	3956.6	3971.7	3976.3	3976.3
17.5°	3921.8	3955.1	3989.9	4035.3	4071.6	4091.3	4095.8	4094.3
20°	4061.0	4092.8	4112.4	4141.2	4173.0	4195.7	4201.7	4201.7
22.5°	4219.9	4238.0	4241.1	4250.1	4275.9	4306.1	4319.7	4322.8
25°	4395.4	4399.9	4387.8	4387.8	4404.5	4433.2	4446.8	4448.3
27.5°	4622.3	4599.6	4569.4	4558.8	4569.4	4602.7	4619.3	4625.4
30°	4905.3	4850.8	4781.2	4743.4	4737.3	4781.2	4811.5	4816.0
32.5°	5229.1	5150.4	5058.1	4980.9	4961.3	4988.5	5024.8	5023.3
35°	5613.4	5519.6	5407.6	5309.3	5263.9	5291.1	5342.5	5348.6
37.5°	6056.7	5934.1	5805.5	5681.5	5610.4	5617.9	5672.4	5690.5
40°	6551.5	6392.6	6230.7	6064.3	5962.9	5943.2	6009.8	6020.4
42.5°	7081.0	6876.8	6672.5	6466.7	6336.6	6306.4	6383.5	6379.0
45°	7645.4	7385.2	7146.1	6919.1	6764.8	6719.4	6783.0	6783.0
47.5°	8252.1	7931.4	7646.9	7389.7	7221.7	7156.7	7217.2	7221.7
50°	8895.2	8554.7	8220.4	7934.4	7733.2	7649.9	7728.6	7740.7
52.5°	9535.2	9203.8	8866.4	8539.6	8296.0	8194.6	8285.4	8324.8
55°	10184.3	9859.0	9536.7	9217.4	8928.5	8808.9	8905.8	8955.7
57.5°	10869.7	10568.6	10261.4	9939.2	9660.8	9474.7	9577.6	9644.1
60°	11673.1	11415.9	11096.6	10741.1	10459.7	10270.5	10329.5	10388.5
62.5°	12308.6	12408.5	12137.6	11726.1	11364.5	11122.4	11179.9	11241.9
65°	12001.4	13025.8	13266.3	12850.3	12349.4	11972.7	11948.5	11980.3
67.5°	10031.5	12021.1	13472.1	13868.5	13449.4	12925.9	12829.1	12876.0
70°	6710.3	9188.7	11748.8	13655.2	14162.1	13959.3	13864.0	13892.7
72.5°	3222.8	5351.6	7970.7	10505.0	12048.4	12756.5	12983.4	13093.9
75°	1178.7	2124.3	3841.6	5788.9	6988.7	8090.2	8808.9	9102.5
77.5°	711.1	857.9	1227.1	1847.4	2092.5	2342.2	2245.4	2293.8
80°	526.5	594.6	673.3	756.5	783.8	783.8	753.5	729.3
82.5°	369.2	413.1	450.9	496.3	508.4	485.7	399.4	317.7
85°	237.5	257.2	273.9	302.6	295.0	281.4	189.1	167.9
87.5°	108.9	124.1	130.1	143.7	137.7	131.6	93.8	78.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)