

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: P300873

Luminaire Tested: **GLNA-AF-06-LED-E1-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300873  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-06-LED-E1-SL4  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Square Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33710.9 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G5

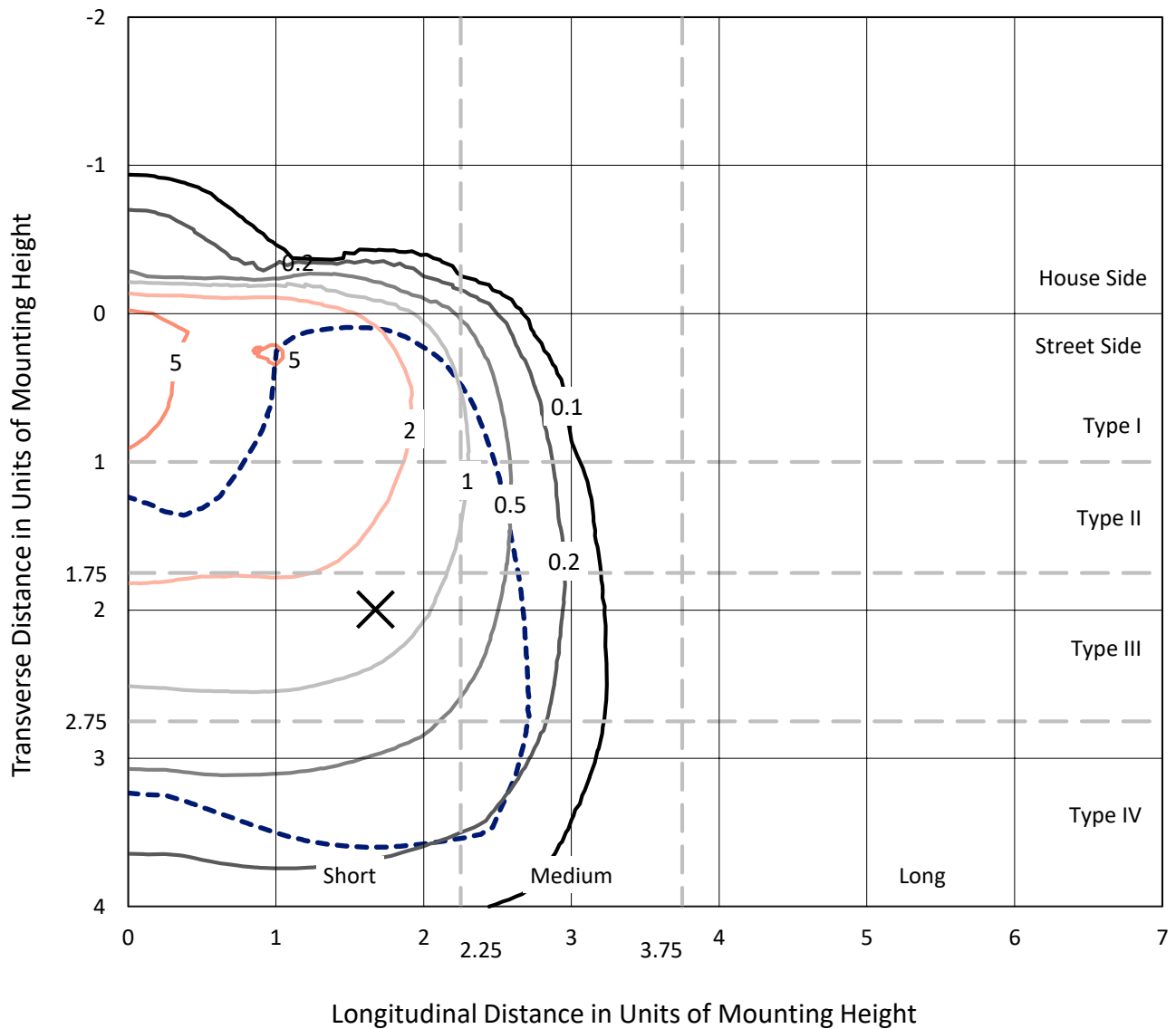
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

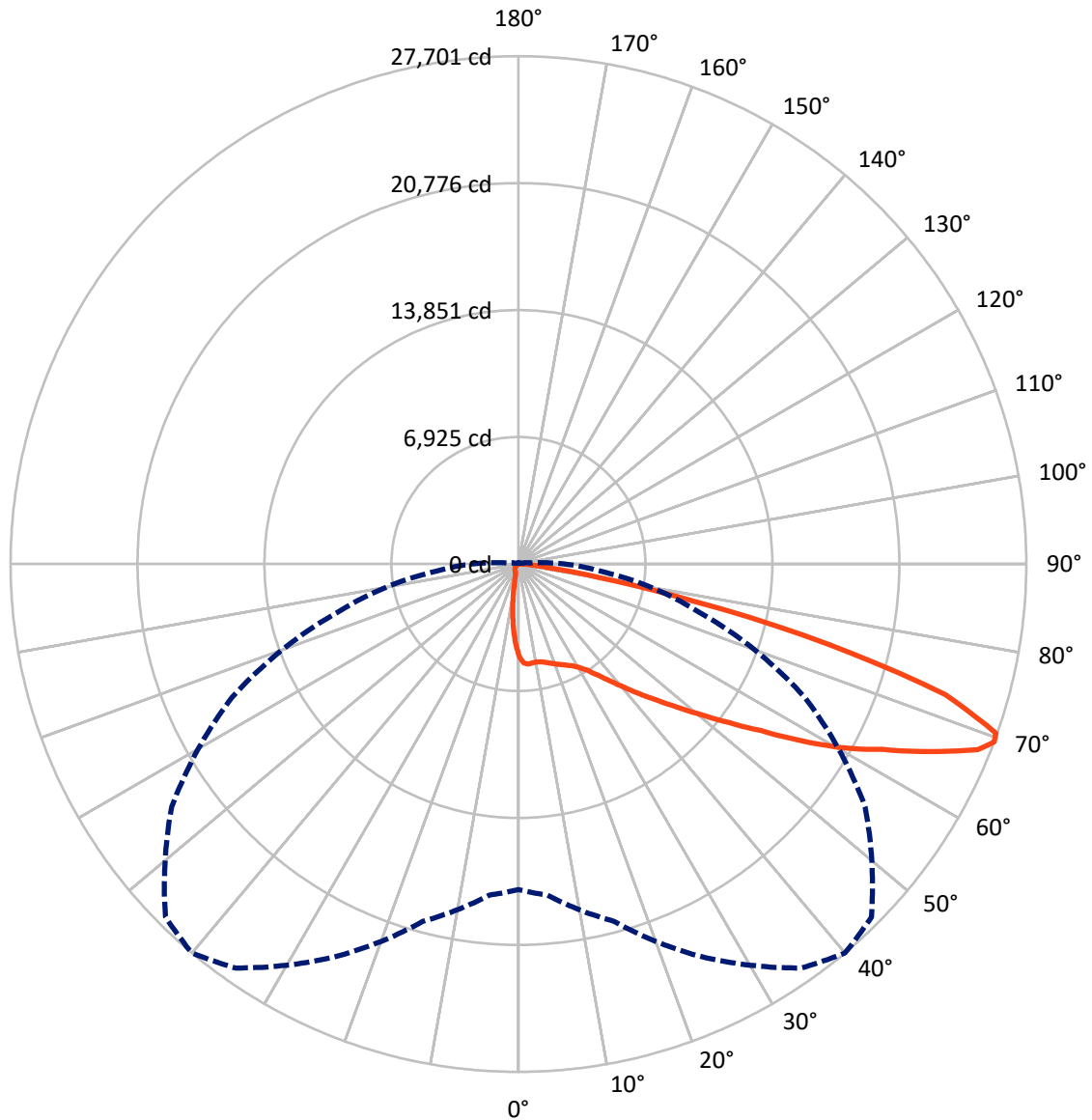
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1972.3	0.0	1972.3
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	31738.7	0.0	31738.7
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	33710.9	0.0	33710.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.4	1.2
10°-20°	1004.2	3.0
20°-30°	1691.5	5.0
30°-40°	2769.0	8.2
40°-50°	4794.5	14.2
50°-60°	7551.8	22.4
60°-70°	9862.4	29.3
70°-80°	5079.6	15.1
80°-90°	549.5	1.6
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°	33710.9	100.0
0°-180°	33710.9	100.0



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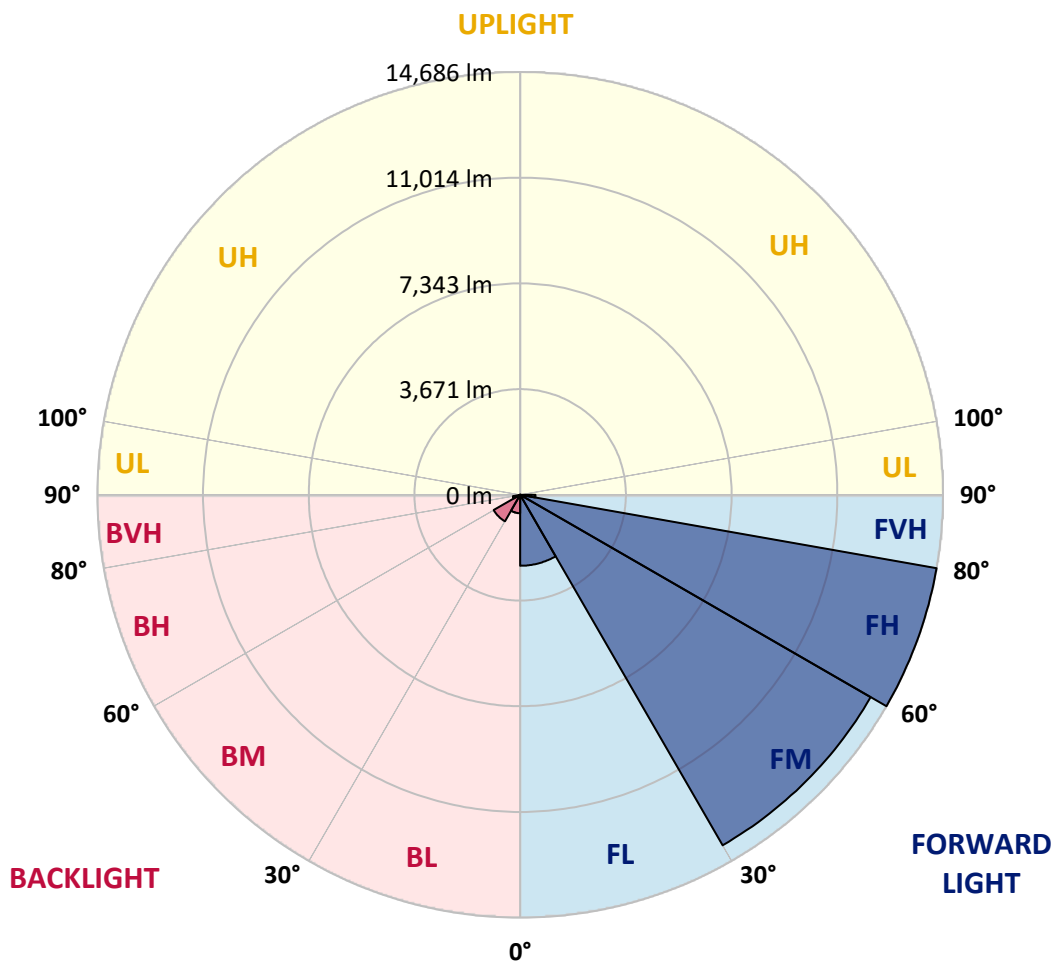
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2465.2	7.3			
FM	(30°-60°)	14055.3	41.7			
FH	(60°-80°)	14685.9	43.6			G5
FVH	(80°-90°)	532.2	1.6			G4/750
BL	(0°-30°)	638.9	1.9	B2/1000		
BM	(30°-60°)	1060.1	3.1	B2/2500		
BH	(60°-80°)	256.1	0.8	B1/500		G1/500
BVH	(80°-90°)	17.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6
2.5°	5530.2	5500.1	5482.1	5458.0	5427.9	5401.8	5391.8	5317.5	5247.3	5151.0	5040.6
5°	5632.6	5622.5	5590.4	5558.3	5522.2	5482.1	5460.0	5371.7	5271.4	5130.9	4938.3
7.5°	5642.6	5630.5	5590.4	5546.3	5496.1	5447.9	5409.8	5321.5	5229.2	5086.8	4852.0
10°	5626.5	5612.5	5582.4	5534.2	5472.0	5425.9	5387.7	5303.5	5225.2	5096.8	4835.9
12.5°	5608.5	5594.4	5580.4	5556.3	5502.1	5470.0	5437.9	5357.6	5287.4	5179.1	4894.1
15°	5626.5	5618.5	5634.6	5624.5	5594.4	5566.3	5534.2	5462.0	5397.8	5307.5	5000.5
17.5°	5702.8	5702.8	5752.9	5759.0	5730.9	5690.7	5644.6	5572.4	5518.2	5441.9	5126.9
20°	5881.4	5875.4	5939.6	5951.6	5883.4	5821.2	5752.9	5664.7	5622.5	5574.4	5251.3
22.5°	6188.4	6160.3	6198.4	6186.4	6051.9	5955.6	5871.3	5763.0	5740.9	5718.8	5389.8
25°	6587.7	6571.6	6597.7	6479.3	6242.6	6112.1	6011.8	5889.4	5889.4	5911.5	5546.3
27.5°	7167.6	7107.4	7019.1	6810.4	6455.3	6288.7	6180.4	6049.9	6084.0	6166.3	5752.9
30°	7761.6	7695.3	7492.7	7171.6	6714.1	6539.5	6413.1	6276.7	6356.9	6507.4	6029.9
32.5°	8347.5	8273.2	7986.3	7581.0	7085.3	6910.8	6788.4	6637.9	6772.3	7025.1	6435.2
35°	8915.4	8849.1	8518.1	8040.5	7579.0	7434.5	7322.1	7191.7	7364.3	7717.4	7007.1
37.5°	9553.5	9481.2	9077.9	8560.2	8178.9	8074.6	7992.3	7861.9	8162.9	8680.6	7803.7
40°	10338.0	10215.6	9671.9	9156.2	8873.2	8823.1	8766.9	8748.8	9216.4	9932.7	8865.2
42.5°	11237.0	11036.3	10293.9	9784.2	9635.7	9671.9	9657.8	9738.1	10534.7	11489.8	10157.5
45°	12136.0	11877.1	10986.2	10454.4	10474.5	10600.9	10679.2	11000.2	12186.1	13275.7	11548.0
47.5°	12898.5	12643.6	11650.4	11178.8	11419.6	11668.4	11881.1	12489.1	13883.7	15033.5	12629.6
50°	13550.6	13309.8	12354.7	11975.4	12517.2	12918.5	13263.7	14164.7	15709.7	16371.9	13388.1
52.5°	14084.4	13923.9	13085.1	12888.4	13771.4	14359.3	14865.0	15944.5	17327.1	17459.5	13978.0
55°	14604.1	14489.7	13869.7	13974.0	15244.2	16044.8	16685.0	17832.7	18719.7	18366.5	14543.9
57.5°	15202.1	15097.7	14764.6	15350.6	17180.6	18187.9	18886.2	19506.2	19945.7	19293.5	15077.7
60°	15812.1	15751.9	15759.9	16879.6	19403.9	20371.1	20756.4	20916.9	21149.7	20166.4	15107.8
62.5°	16394.0	16508.4	16897.7	18581.2	21532.9	22275.4	22470.0	22628.5	22355.6	20304.9	13958.0
65°	17379.2	17565.9	18494.9	20858.7	23874.6	24669.3	24869.9	24326.1	22546.3	18515.0	11353.4
67.5°	17860.8	18202.0	19859.4	22981.7	26146.1	27029.0	26954.8	24436.5	20232.6	14118.5	7286.0
69°	17760.5	18123.7	20174.4	23631.8	26900.6	27701.2	27229.7	23086.0	17236.8	10227.7	4472.7
70°	17363.2	17730.4	20011.9	23607.8	26996.9	27631.0	26720.0	21418.5	14574.0	7478.6	2797.2
72.5°	14499.8	14816.8	17766.5	21338.3	24869.9	24354.2	22353.6	14838.9	7101.4	2036.7	630.1
75°	8925.4	9102.0	12748.0	16074.9	18783.9	17459.5	14893.1	7382.3	2117.0	575.9	349.1
77.5°	4715.5	4795.8	6979.0	9475.2	11907.2	9852.5	7633.1	2879.5	975.2	361.2	252.8
80°	2787.2	2847.4	3758.4	4332.3	5153.0	4304.2	3052.1	1767.8	698.3	226.7	224.7
82.5°	1595.3	1633.4	2725.0	2407.9	2030.7	1733.7	1519.0	1675.5	419.4	152.5	232.8
85°	585.9	594.0	1533.0	1832.0	1208.0	718.4	754.5	1388.6	112.4	96.3	182.6
87.5°	272.9	266.9	788.6	1121.7	706.3	455.5	587.9	305.0	44.1	62.2	50.2
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6
2.5°	4976.4	4902.1	4767.7	4629.2	4488.8	4380.4	4274.1	4189.8	4161.7	4109.5	4113.5
5°	4823.9	4687.4	4406.5	4121.6	3824.6	3579.8	3349.0	3162.4	3072.1	2979.8	2979.8
7.5°	4691.5	4492.8	4053.4	3589.8	3110.2	2706.9	2343.7	2070.8	1920.3	1799.9	1797.9
10°	4641.3	4372.4	3758.4	3094.2	2426.0	1876.2	1444.8	1167.8	1025.4	933.1	929.1
12.5°	4663.4	4330.3	3531.6	2636.7	1797.9	1206.0	836.8	658.2	598.0	569.9	569.9
15°	4727.6	4318.2	3304.9	2189.2	1270.2	754.5	555.8	507.7	503.7	503.7	503.7
17.5°	4805.8	4322.2	3072.1	1753.8	864.8	539.8	479.6	473.6	477.6	477.6	477.6
20°	4886.1	4324.2	2821.3	1350.4	610.0	469.5	451.5	449.5	453.5	453.5	455.5
22.5°	4984.4	4334.3	2570.5	1009.3	503.7	443.5	429.4	429.4	431.4	431.4	429.4
25°	5096.8	4354.3	2309.6	748.5	459.5	425.4	413.4	411.4	413.4	411.4	409.3
27.5°	5237.2	4382.4	2018.6	585.9	439.4	407.3	397.3	397.3	395.3	393.3	391.3
30°	5413.8	4414.5	1691.6	497.6	419.4	391.3	381.3	379.2	377.2	373.2	373.2
32.5°	5682.7	4484.8	1368.5	451.5	397.3	369.2	361.2	361.2	357.2	353.2	351.2
35°	6096.1	4623.2	1079.6	423.4	373.2	345.1	335.1	335.1	331.1	329.1	327.1
37.5°	6668.0	4833.9	838.8	397.3	349.1	319.1	309.0	307.0	303.0	299.0	297.0
40°	7428.5	5094.8	660.2	373.2	325.1	293.0	284.9	280.9	272.9	266.9	266.9
42.5°	8383.6	5391.8	535.8	347.1	297.0	268.9	262.9	256.8	242.8	236.8	234.8
45°	9382.9	5658.6	453.5	317.0	268.9	244.8	240.8	230.8	212.7	206.7	206.7
47.5°	10103.3	5720.8	399.3	289.0	242.8	218.7	216.7	198.7	182.6	178.6	176.6
50°	10552.8	5598.4	355.2	260.9	218.7	194.6	188.6	166.5	156.5	152.5	150.5
52.5°	10855.8	5379.7	319.1	236.8	196.6	172.6	158.5	142.5	134.4	130.4	130.4
55°	11098.6	5070.7	282.9	214.7	178.6	154.5	134.4	122.4	114.4	110.4	110.4
57.5°	11166.8	4651.3	246.8	196.6	160.5	136.4	114.4	106.4	96.3	94.3	94.3
60°	10671.1	3894.8	218.7	174.6	144.5	118.4	100.3	90.3	80.3	78.3	76.3
62.5°	9364.8	3013.9	192.6	154.5	126.4	102.3	86.3	74.2	66.2	66.2	66.2
65°	7143.5	2020.7	168.6	134.4	110.4	86.3	74.2	60.2	56.2	56.2	58.2
67.5°	4276.1	1099.6	144.5	114.4	94.3	72.2	62.2	52.2	50.2	52.2	52.2
69°	2506.3	646.1	130.4	102.3	82.3	64.2	54.2	46.2	50.2	52.2	52.2
70°	1547.1	435.4	120.4	92.3	74.2	58.2	50.2	44.1	48.2	50.2	50.2
72.5°	431.4	224.7	96.3	72.2	60.2	48.2	40.1	40.1	46.2	48.2	48.2
75°	280.9	166.5	74.2	54.2	46.2	38.1	34.1	38.1	44.1	46.2	46.2
77.5°	232.8	136.4	60.2	44.1	38.1	36.1	32.1	34.1	40.1	42.1	42.1
80°	212.7	96.3	48.2	40.1	34.1	32.1	30.1	28.1	36.1	38.1	38.1
82.5°	202.7	76.3	42.1	36.1	32.1	28.1	26.1	28.1	32.1	34.1	36.1
85°	126.4	50.2	38.1	34.1	28.1	26.1	26.1	26.1	30.1	32.1	32.1
87.5°	46.2	40.1	34.1	28.1	24.1	24.1	24.1	24.1	26.1	30.1	30.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)