

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: P651483

Luminaire Tested: **GALN-SA6D-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38257.9 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

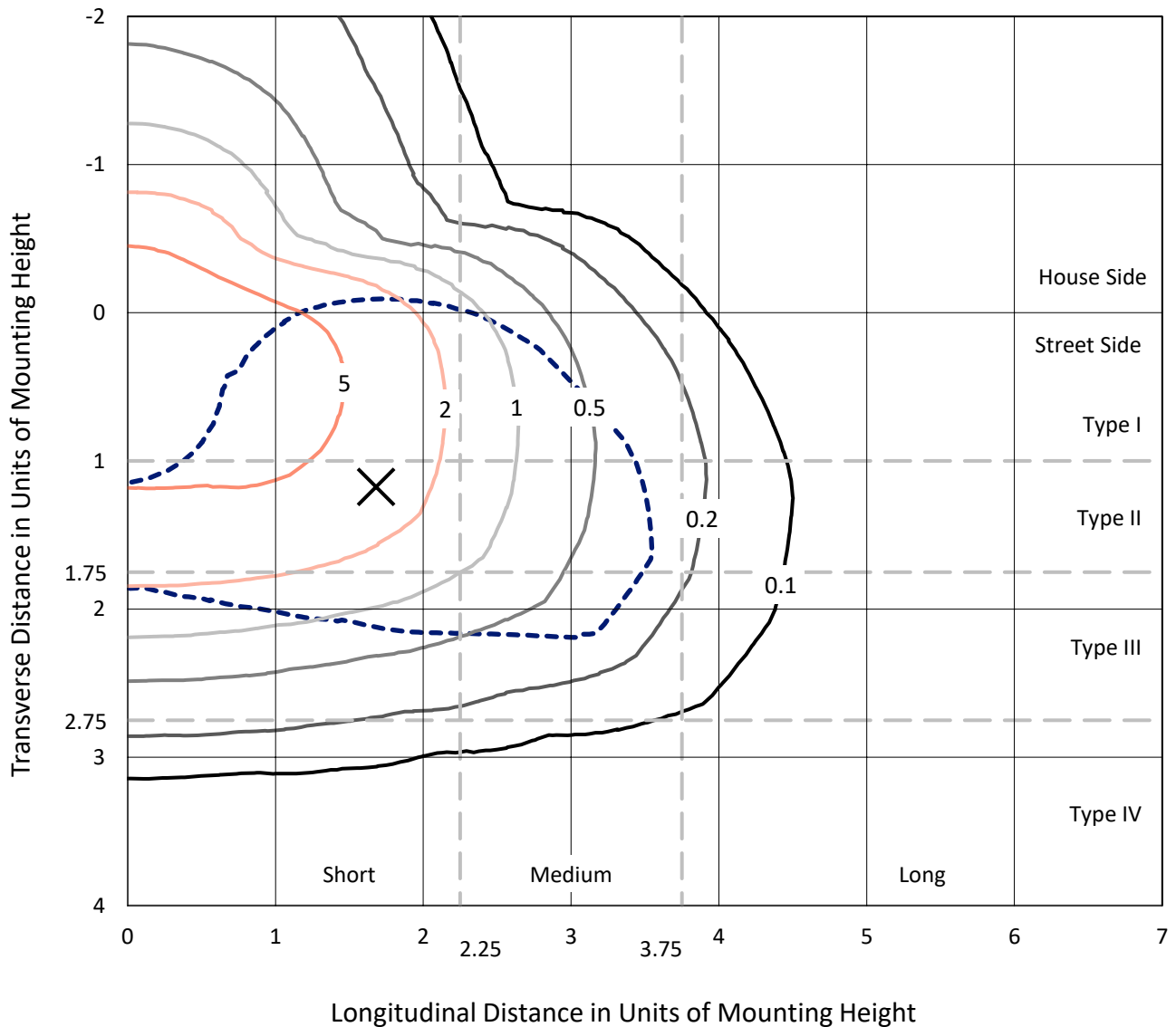
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

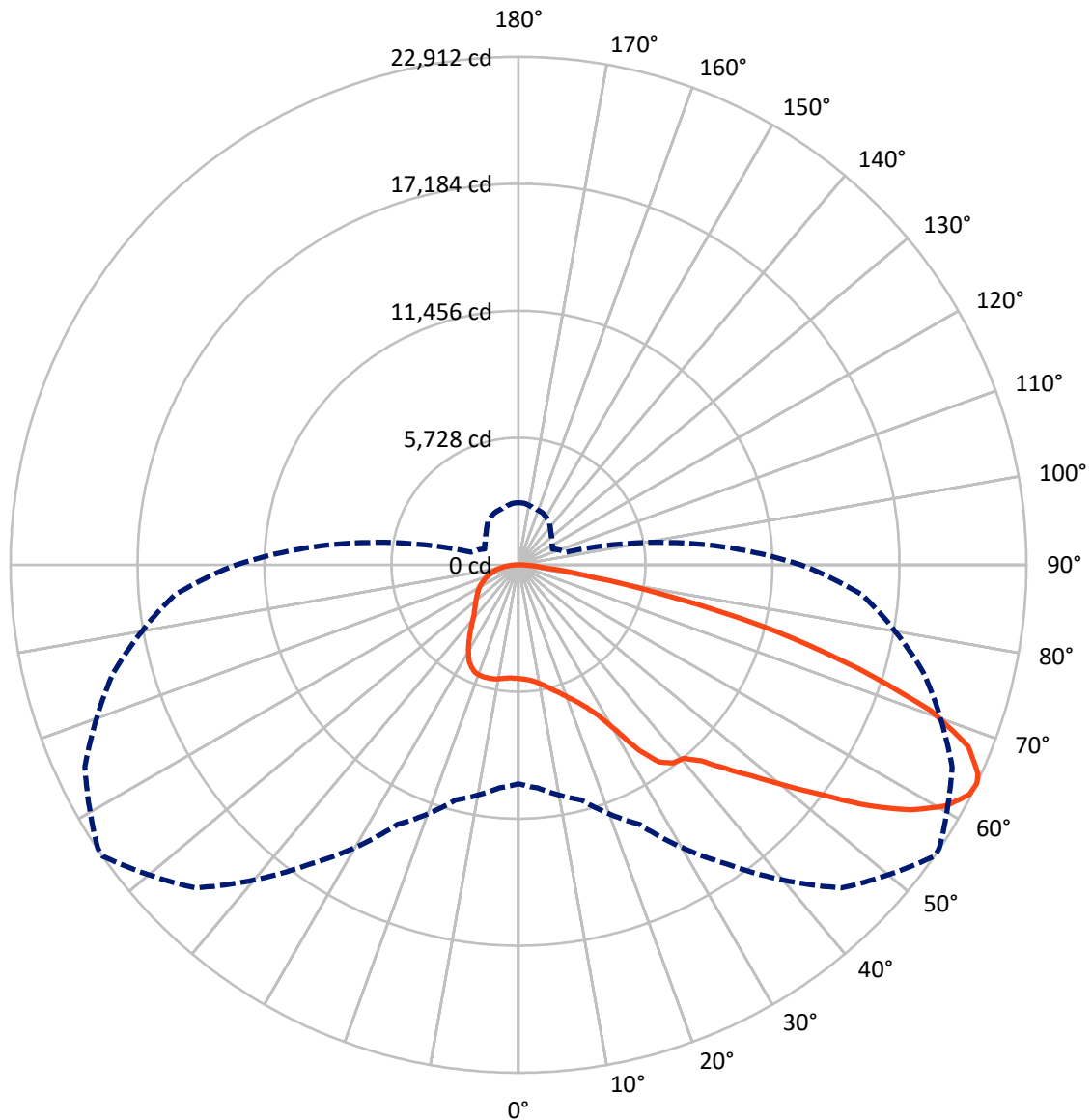
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9293.6	0.0	9293.6
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	28964.3	0.0	28964.3
	% Fixture	75.7	0.0	75.7
Total	Lumens	38257.9	0.0	38257.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.3	1.3
10°-20°	1575.5	4.1
20°-30°	2804.8	7.3
30°-40°	4315.4	11.3
40°-50°	6117.5	16.0
50°-60°	8854.9	23.1
60°-70°	9163.9	24.0
70°-80°	4291.5	11.2
80°-90°	635.3	1.7
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°	38257.9	100.0
0°-180°	38257.9	100.0

Coefficient of Utilization



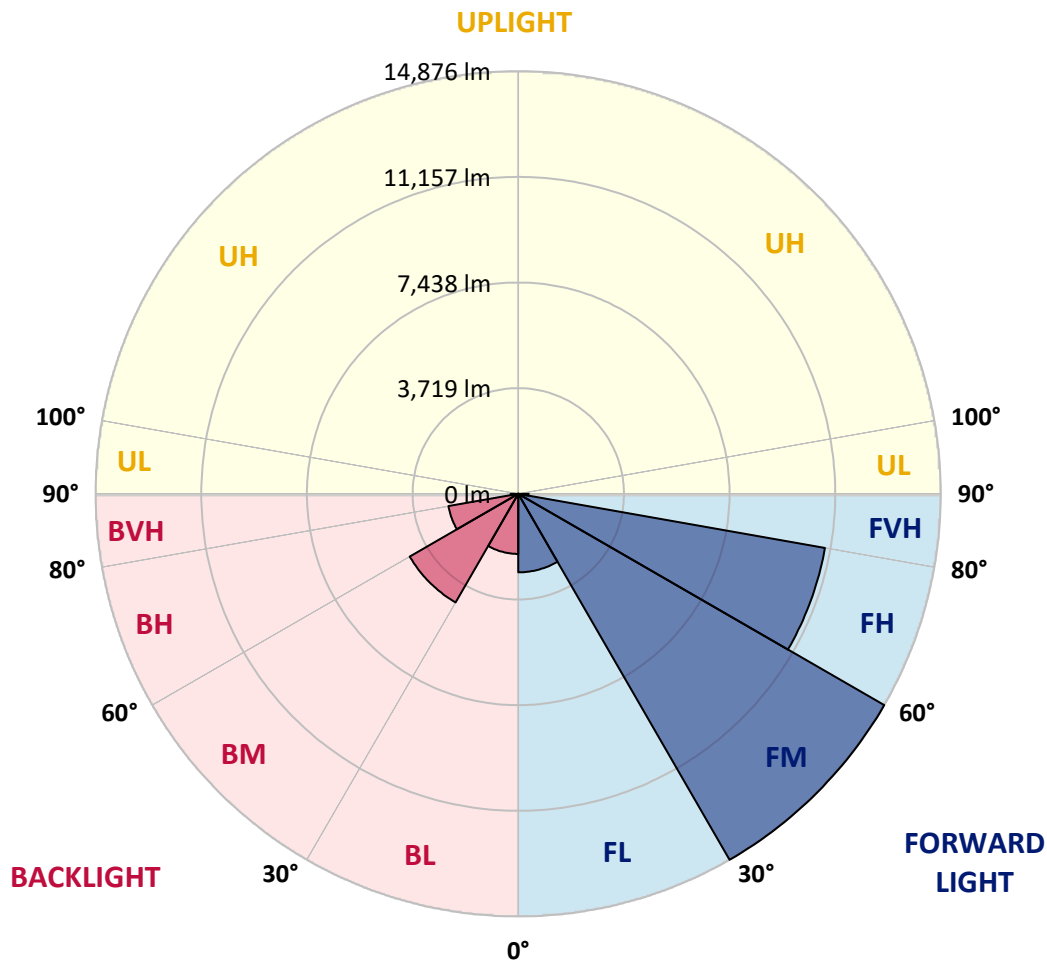
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2762.8	7.2			
FM (30°-60°)	14875.7	38.9			
FH (60°-80°)	10962.0	28.7			G4/12000
FVH (80°-90°)	363.8	1.0			G3/500
BL (0°-30°)	2116.7	5.5	B3/2500		
BM (30°-60°)	4412.0	11.5	B3/5000		
BH (60°-80°)	2493.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	271.5	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5133.0	5133.0	5133.0	5133.0	5133.0	5133.0	5133.0	5133.0	5133.0	5133.0	5133.0
2.5°	5190.7	5188.5	5194.9	5188.5	5192.8	5177.9	5171.5	5175.7	5169.3	5158.6	5139.4
5°	5254.7	5252.5	5254.7	5246.1	5250.4	5241.8	5226.9	5231.2	5220.5	5197.0	5169.3
7.5°	5363.4	5354.8	5354.8	5352.7	5344.2	5331.4	5320.8	5316.5	5305.8	5275.9	5233.3
10°	5504.1	5504.1	5506.3	5489.2	5499.9	5476.4	5465.7	5463.6	5427.4	5389.0	5329.2
12.5°	5689.6	5700.3	5693.9	5685.4	5681.1	5672.6	5636.4	5644.9	5604.3	5538.2	5465.7
15°	5920.0	5937.0	5926.4	5922.1	5911.5	5879.4	5864.5	5858.2	5804.8	5708.9	5612.9
17.5°	6224.9	6203.6	6195.1	6184.4	6139.6	6116.2	6090.6	6086.3	6039.4	5926.4	5777.1
20°	6491.5	6521.4	6504.3	6493.6	6448.9	6404.0	6384.9	6378.5	6337.9	6214.2	5975.4
22.5°	6809.2	6815.6	6822.0	6796.5	6775.1	6741.0	6706.9	6696.2	6681.3	6553.3	6261.2
25°	7148.3	7173.9	7152.6	7127.0	7101.4	7099.3	7131.3	7127.0	7120.6	6997.0	6640.8
27.5°	7700.6	7724.1	7730.5	7702.8	7604.7	7613.2	7685.7	7709.2	7807.3	7602.6	7129.2
30°	8012.0	8035.5	8088.8	8193.3	8348.9	8485.4	8660.3	8713.6	8807.5	8421.4	7709.2
32.5°	8204.0	8212.4	8308.4	8502.5	8969.5	9479.2	9954.7	9973.9	10033.6	9492.0	8240.2
35°	8506.8	8513.2	8589.9	8803.2	9351.2	10200.0	10935.8	10959.2	10910.1	9824.6	8487.5
37.5°	8880.0	8897.0	8946.1	9123.1	9777.8	10803.5	11343.1	11326.0	10890.9	10089.1	8924.8
40°	9423.7	9423.7	9366.2	9605.1	10227.7	11149.0	11486.0	11456.1	11340.9	10854.7	9590.1
42.5°	9903.6	9895.0	10031.5	10193.6	10790.7	11682.2	12085.2	12134.2	12324.0	11816.5	10347.2
45°	10528.4	10566.8	10643.6	10937.9	11748.3	12592.7	13113.0	13160.0	13428.7	12948.9	11232.1
47.5°	11159.6	11172.4	11413.5	11805.8	12933.9	13827.5	14254.0	14330.8	14576.0	14273.2	12185.4
50°	11607.5	11729.1	12115.0	12733.5	14155.9	15333.0	15665.7	15757.5	16190.3	15714.8	13296.5
52.5°	12081.0	12200.4	12671.6	13614.2	15559.1	16872.8	17282.2	17344.0	17794.0	17173.5	14433.2
55°	12486.1	12597.0	13132.3	14394.7	16676.6	18444.5	19186.6	19114.1	19329.5	18297.3	15309.6
57.5°	12552.2	12641.7	13315.6	14893.8	17516.8	19792.3	20856.4	20899.0	20649.5	19137.5	16032.6
60°	12040.4	12223.8	12997.9	14840.5	17894.3	20730.6	22101.8	22131.7	21423.6	19568.3	16320.4
62.5°	11134.1	11114.9	12051.1	13983.1	17365.4	20943.8	22835.4	22803.4	21726.5	19361.5	16041.1
64°	9882.3	10112.6	10986.9	12929.7	16512.4	20615.4	22912.2	22895.1	21581.5	18930.7	15565.5
65°	9118.8	9106.0	9969.7	12068.1	15663.6	20120.7	22775.7	22752.2	21278.6	18544.7	15196.6
67.5°	6583.2	6613.0	7466.1	9312.9	12733.5	18186.5	21886.4	21799.0	20084.4	17265.1	13793.3
70°	3987.9	4004.9	4674.5	6178.0	9140.2	14701.9	19728.3	19732.6	18256.8	15354.4	11739.7
72.5°	2100.6	2145.4	2414.1	3508.1	5551.0	10315.2	16004.8	16384.4	15674.3	13104.5	9274.5
75°	1168.7	1175.0	1364.9	1729.5	2832.1	5772.8	12029.7	12138.5	12409.4	10547.7	6858.3
77.5°	891.4	904.2	964.0	1117.4	1541.8	2676.4	7280.5	7826.5	8745.6	7436.2	3913.3
80°	722.9	735.7	786.9	878.6	1025.8	1268.9	3382.2	3676.5	4680.9	3301.2	1526.9
82.5°	563.0	554.5	620.6	680.3	746.4	750.7	1388.3	1535.4	1906.5	1420.3	661.1
85°	418.0	418.0	471.3	458.5	482.0	439.3	612.1	676.0	763.5	603.5	307.0
87.5°	166.3	183.4	309.2	277.2	215.4	172.7	226.1	238.8	264.4	236.7	127.9
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°	5133.0	5133.0	5133.0	5133.0	5133.0	5133.0	5133.0	5133.0	5133.0	5133.0	5133.0
2.5°	5141.6	5148.0	5133.0	5122.4	5118.2	5111.8	5105.4	5107.5	5116.0	5124.5	5122.4
5°	5167.2	5169.3	5143.7	5130.9	5122.4	5113.9	5113.9	5120.3	5137.3	5150.1	5150.1
7.5°	5231.2	5231.2	5194.9	5171.5	5158.6	5143.7	5139.4	5141.6	5154.4	5171.5	5173.6
10°	5331.4	5322.9	5275.9	5239.7	5216.2	5180.0	5148.0	5130.9	5137.3	5148.0	5148.0
12.5°	5453.0	5429.5	5369.8	5320.8	5263.1	5194.9	5128.8	5094.7	5092.5	5103.2	5098.9
15°	5583.1	5557.4	5474.2	5384.7	5284.5	5184.3	5105.4	5056.3	5017.9	5007.2	5030.7
17.5°	5734.4	5681.1	5566.0	5442.3	5293.0	5162.9	5039.2	4939.0	4870.7	4851.6	4858.0
20°	5917.9	5847.5	5691.8	5497.7	5286.6	5086.1	4894.2	4759.9	4649.0	4614.8	4619.1
22.5°	6171.6	6050.1	5821.9	5525.5	5233.3	4941.1	4674.5	4499.7	4365.4	4312.1	4344.0
25°	6459.5	6327.3	5945.5	5519.1	5094.7	4708.7	4414.4	4186.2	4064.6	3985.8	4002.8
27.5°	6856.2	6621.6	6077.8	5461.5	4896.4	4425.1	4083.8	3868.4	3757.6	3717.1	3736.2
30°	7363.7	7003.3	6220.6	5305.8	4582.9	4066.8	3751.2	3610.4	3544.3	3493.1	3510.2
32.5°	7730.5	7272.0	6252.7	5043.5	4243.8	3740.5	3525.1	3420.6	3348.1	3299.1	3309.8
35°	7992.8	7500.2	6237.7	4721.5	3889.8	3471.8	3346.0	3260.6	3143.4	3036.8	3017.6
37.5°	8344.7	7786.0	6129.0	4369.6	3540.0	3290.5	3200.9	3043.2	2874.7	2731.8	2725.4
40°	8884.2	8120.8	5896.5	3955.9	3241.5	3156.2	3047.4	2842.7	2661.4	2546.3	2537.7
42.5°	9440.8	8430.0	5580.9	3520.8	2996.2	3015.4	2883.2	2680.6	2569.8	2495.1	2486.6
45°	10121.1	8764.8	5239.7	3143.4	2815.0	2883.2	2740.3	2623.1	2556.9	2507.9	2495.1
47.5°	10856.8	9108.1	4855.8	2804.3	2661.4	2761.7	2680.6	2627.3	2591.0	2556.9	2542.0
50°	11650.1	9492.0	4495.4	2531.3	2522.8	2635.9	2674.2	2655.0	2633.7	2623.1	2610.2
52.5°	12520.2	9884.4	4192.6	2339.4	2401.2	2546.3	2676.4	2691.3	2691.3	2684.9	2676.4
55°	13108.8	10157.3	3885.5	2183.7	2277.6	2473.8	2672.1	2729.6	2751.0	2742.5	2733.9
57.5°	13543.9	10306.6	3499.5	2049.3	2173.1	2403.4	2648.6	2733.9	2755.3	2766.0	2761.7
60°	13633.5	10168.0	2994.1	1908.6	2060.0	2301.1	2563.4	2669.9	2697.7	2763.8	2770.2
62.5°	13230.4	9741.5	2490.8	1770.1	1921.4	2145.4	2448.2	2597.4	2652.9	2755.3	2766.0
64°	12735.6	9263.8	2211.5	1682.6	1831.9	2057.9	2390.6	2578.3	2650.7	2787.2	2795.8
65°	12373.0	8916.2	2036.6	1627.2	1774.3	2000.3	2358.6	2584.6	2669.9	2836.3	2849.1
67.5°	11038.1	7719.9	1684.7	1497.1	1637.8	1902.3	2365.0	2638.0	2665.7	2855.5	2853.3
70°	9133.8	6146.0	1411.8	1377.6	1505.6	1823.4	2339.4	2552.7	2554.8	2680.6	2650.7
72.5°	6839.1	4542.3	1224.1	1253.9	1358.5	1635.7	2209.3	2437.5	2401.2	2418.3	2388.4
75°	4698.0	3004.8	1053.5	1121.7	1204.9	1445.8	2026.0	2213.6	2156.0	2134.7	2113.3
77.5°	2507.9	1661.2	876.5	991.6	1047.0	1249.6	1767.9	1949.2	1889.5	1806.3	1778.5
80°	1015.1	782.6	705.9	821.1	853.0	1006.6	1471.5	1584.5	1539.7	1394.7	1347.8
82.5°	509.6	469.2	554.5	646.1	648.3	718.6	1094.0	1200.6	1100.4	923.4	882.9
85°	266.6	275.1	381.7	454.2	400.9	388.1	656.8	727.2	667.5	580.0	522.5
87.5°	96.0	110.9	200.5	198.3	140.8	74.7	145.0	70.4	38.3	23.5	29.9
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)