

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: P459173

Luminaire Tested: **GALN-SA6C-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459173
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-SA6C-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38512 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

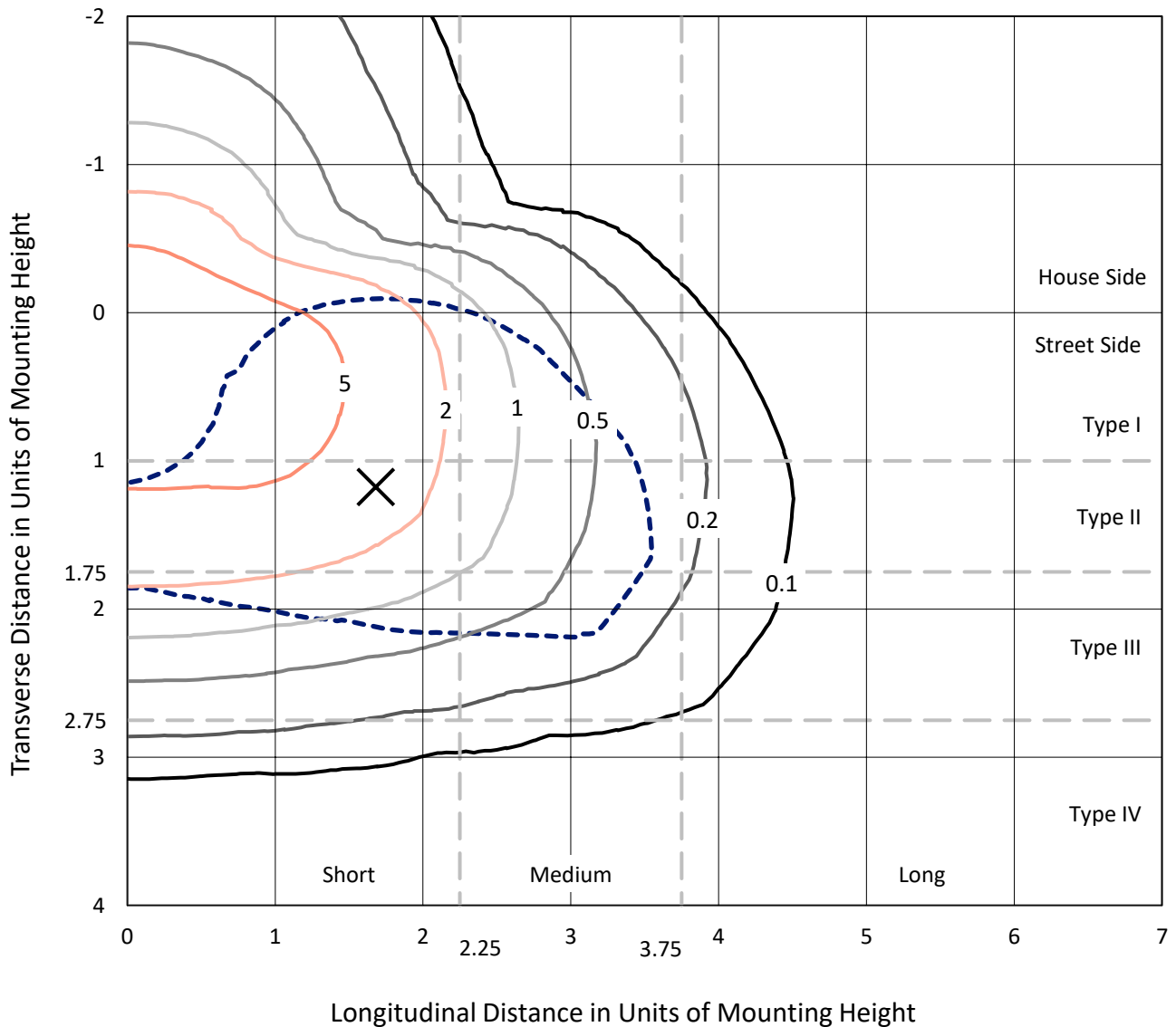
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

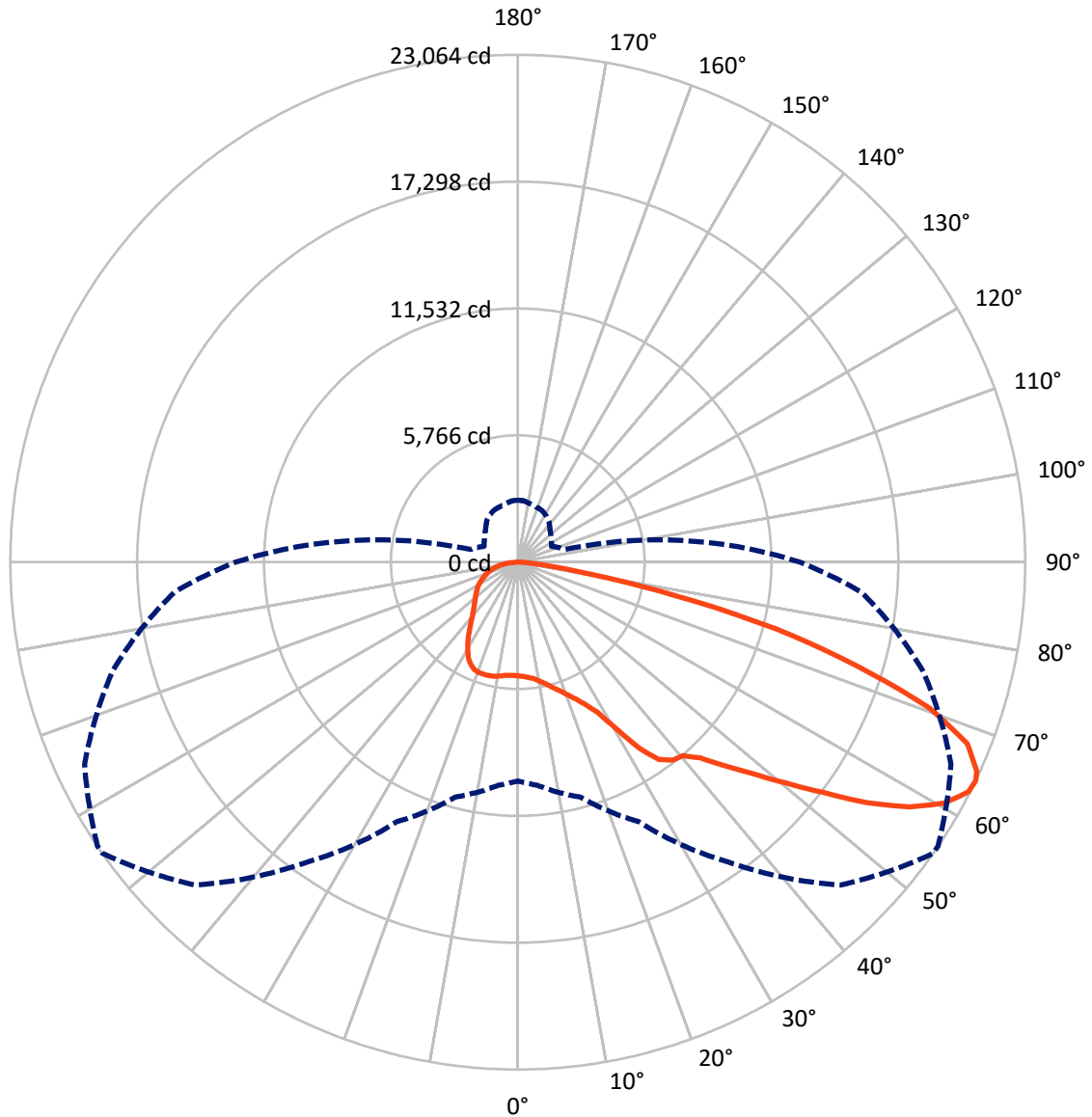
✕ Max cd
 - - - 1/2 Max cd



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	9355.3	0.0	9355.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	29156.7	0.0	29156.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	38512.0	0.0	38512.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.6	1.3
10°-20°	1585.9	4.1
20°-30°	2823.4	7.3
30°-40°	4344.1	11.3
40°-50°	6158.1	16.0
50°-60°	8913.7	23.1
60°-70°	9224.7	24.0
70°-80°	4319.9	11.2
80°-90°	639.5	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°	38512.0	100.0
0°-180°	38512.0	100.0

Coefficient of Utilization



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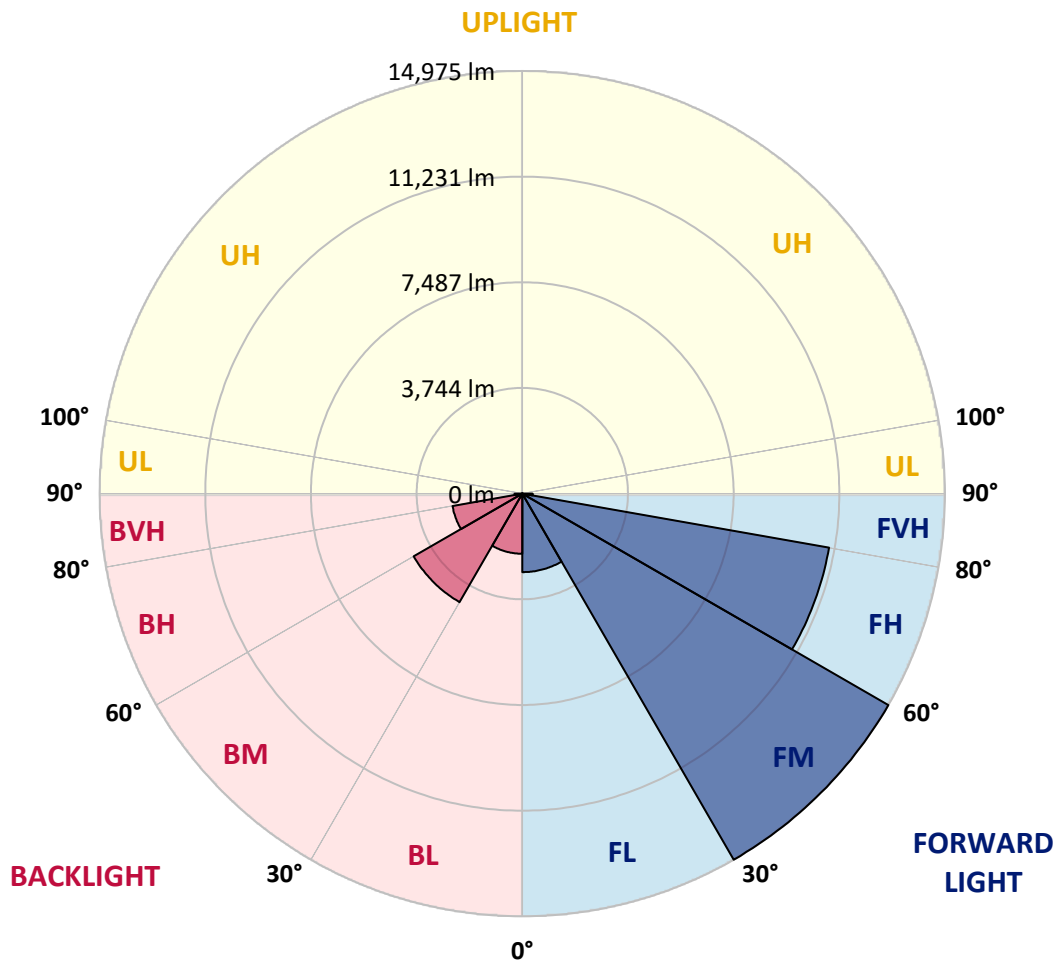
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2781.2	7.2			
FM	(30°-60°)	14974.5	38.9			
FH	(60°-80°)	11034.8	28.7			G4/12000
FVH	(80°-90°)	366.2	1.0			G3/500
BL	(0°-30°)	2130.8	5.5	B3/2500		
BM	(30°-60°)	4441.3	11.5	B3/5000		
BH	(60°-80°)	2509.9	6.5	B4/5000		G4/5000
BVH	(80°-90°)	273.3	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5167.1	5167.1	5167.1	5167.1	5167.1	5167.1	5167.1	5167.1	5167.1	5167.1	5167.1
2.5°	5225.1	5223.0	5229.4	5223.0	5227.3	5212.2	5205.8	5210.1	5203.6	5192.9	5173.6
5°	5289.5	5287.4	5289.5	5280.9	5285.2	5276.6	5261.6	5265.9	5255.2	5231.5	5203.6
7.5°	5399.0	5390.4	5390.4	5388.3	5379.7	5366.8	5356.1	5351.8	5341.0	5311.0	5268.0
10°	5540.7	5540.7	5542.8	5525.6	5536.4	5512.8	5502.0	5499.9	5463.4	5424.8	5364.6
12.5°	5727.4	5738.2	5731.7	5723.1	5718.9	5710.3	5673.8	5682.4	5641.6	5575.0	5502.0
15°	5959.3	5976.5	5965.7	5961.4	5950.7	5918.5	5903.5	5897.0	5843.4	5746.8	5650.2
17.5°	6266.3	6244.8	6236.2	6225.5	6180.4	6156.8	6131.0	6126.7	6079.5	5965.7	5815.5
20°	6534.6	6564.7	6547.5	6536.8	6491.7	6446.6	6427.3	6420.8	6380.0	6255.5	6015.1
22.5°	6854.5	6860.9	6867.3	6841.6	6820.1	6785.8	6751.4	6740.7	6725.7	6596.9	6302.8
25°	7195.8	7221.6	7200.1	7174.3	7148.6	7146.4	7178.6	7174.3	7167.9	7043.4	6684.9
27.5°	7751.8	7775.4	7781.8	7753.9	7655.2	7663.8	7736.8	7760.4	7859.1	7653.0	7176.5
30°	8065.2	8088.8	8142.5	8247.7	8404.4	8541.8	8717.8	8771.5	8865.9	8477.4	7760.4
32.5°	8258.4	8267.0	8363.6	8559.0	9029.1	9542.2	10020.9	10040.2	10100.3	9555.0	8294.9
35°	8563.3	8569.7	8647.0	8861.6	9413.4	10267.7	11008.4	11032.0	10982.6	9889.9	8543.9
37.5°	8938.9	8956.1	9005.5	9183.7	9842.7	10875.3	11418.4	11401.2	10963.3	10156.1	8984.0
40°	9486.3	9486.3	9428.4	9668.8	10295.7	11223.0	11562.2	11532.2	11416.2	10926.8	9653.8
42.5°	9969.4	9960.8	10098.2	10261.3	10862.4	11759.7	12165.4	12214.8	12405.9	11895.0	10415.9
45°	10598.3	10637.0	10714.3	11010.5	11826.3	12676.4	13200.2	13247.4	13517.9	13034.9	11306.8
47.5°	11233.8	11246.7	11489.2	11884.2	13019.8	13919.3	14348.7	14425.9	14672.8	14368.0	12266.3
50°	11684.6	11806.9	12195.5	12818.0	14249.9	15434.9	15769.8	15862.1	16297.9	15819.2	13384.8
52.5°	12161.2	12281.4	12755.8	13704.6	15662.4	16984.8	17397.0	17459.2	17912.2	17287.5	14529.0
55°	12569.0	12680.7	13219.5	14490.3	16787.3	18567.0	19314.0	19241.0	19457.8	18418.8	15411.3
57.5°	12635.6	12725.7	13404.1	14992.7	17633.1	19923.7	20994.9	21037.8	20786.7	19264.6	16139.0
60°	12120.4	12305.0	13084.2	14939.0	18013.1	20868.2	22248.6	22278.6	21565.9	19698.3	16428.8
62.5°	11208.0	11188.7	12131.1	14076.0	17480.7	21082.9	22987.0	22954.8	21870.8	19490.0	16147.6
64°	9947.9	10179.7	11059.9	13015.5	16622.0	20752.3	23064.3	23047.2	21724.8	19056.4	15668.9
65°	9179.4	9166.5	10035.9	12148.3	15767.6	20254.3	22926.9	22903.3	21419.9	18667.9	15297.5
67.5°	6626.9	6657.0	7515.7	9374.7	12818.0	18307.2	22031.8	21943.7	20217.8	17379.8	13885.0
70°	4014.4	4031.5	4705.6	6219.0	9200.8	14799.5	19859.3	19863.6	18378.0	15456.4	11817.7
72.5°	2114.5	2159.6	2430.1	3531.3	5587.9	10383.7	16111.1	16493.2	15778.4	13191.6	9336.1
75°	1176.4	1182.8	1373.9	1741.0	2850.8	5811.2	12109.6	12219.1	12491.7	10617.7	6903.8
77.5°	897.3	910.2	970.3	1124.9	1552.1	2694.1	7328.9	7878.5	8803.7	7485.6	3939.2
80°	727.7	740.6	792.1	884.4	1032.6	1277.3	3404.7	3700.9	4712.0	3323.1	1537.0
82.5°	566.7	558.1	624.7	684.8	751.4	755.6	1397.5	1545.6	1919.2	1429.7	665.5
85°	420.8	420.8	474.4	461.5	485.2	442.2	616.1	680.5	768.5	607.5	309.1
87.5°	167.4	184.6	311.3	279.1	216.8	173.9	227.6	240.4	266.2	238.3	128.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5167.1	5167.1	5167.1	5167.1	5167.1	5167.1	5167.1	5167.1	5167.1	5167.1	5167.1
2.5°	5175.7	5182.2	5167.1	5156.4	5152.1	5145.7	5139.2	5141.4	5150.0	5158.6	5156.4
5°	5201.5	5203.6	5177.9	5165.0	5156.4	5147.8	5147.8	5154.3	5171.4	5184.3	5184.3
7.5°	5265.9	5265.9	5229.4	5205.8	5192.9	5177.9	5173.6	5175.7	5188.6	5205.8	5207.9
10°	5366.8	5358.2	5311.0	5274.5	5250.9	5214.4	5182.2	5165.0	5171.4	5182.2	5182.2
12.5°	5489.2	5465.5	5405.4	5356.1	5298.1	5229.4	5162.9	5128.5	5126.4	5137.1	5132.8
15°	5620.1	5594.3	5510.6	5420.5	5319.6	5218.7	5139.2	5089.9	5051.2	5040.5	5064.1
17.5°	5772.5	5718.9	5602.9	5478.4	5328.2	5197.2	5072.7	4971.8	4903.1	4883.8	4890.2
20°	5957.1	5886.3	5729.6	5534.2	5321.7	5119.9	4926.7	4791.5	4679.8	4645.5	4649.8
22.5°	6212.6	6090.2	5860.5	5562.1	5268.0	4973.9	4705.6	4529.6	4394.3	4340.7	4372.9
25°	6502.4	6369.3	5985.0	5555.7	5128.5	4740.0	4443.7	4214.0	4091.6	4012.2	4029.4
27.5°	6901.7	6665.6	6118.1	5497.7	4928.9	4454.4	4111.0	3894.1	3782.5	3741.7	3761.0
30°	7412.6	7049.8	6262.0	5341.0	4613.3	4093.8	3776.1	3634.4	3567.8	3516.3	3533.5
32.5°	7781.8	7320.3	6294.2	5077.0	4272.0	3765.3	3548.5	3443.3	3370.3	3321.0	3331.7
35°	8045.9	7550.0	6279.1	4752.8	3915.6	3494.9	3368.2	3282.3	3164.3	3056.9	3037.6
37.5°	8400.1	7837.7	6169.7	4398.6	3563.6	3312.4	3222.2	3063.4	2893.8	2749.9	2743.5
40°	8943.2	8174.7	5935.7	3982.2	3263.0	3177.1	3067.7	2861.6	2679.1	2563.2	2554.6
42.5°	9503.5	8486.0	5618.0	3544.2	3016.1	3035.5	2902.4	2698.4	2586.8	2511.7	2503.1
45°	10188.3	8823.0	5274.5	3164.3	2833.7	2902.4	2758.5	2640.5	2573.9	2524.5	2511.7
47.5°	10928.9	9168.6	4888.1	2822.9	2679.1	2780.0	2698.4	2644.8	2608.3	2573.9	2558.9
50°	11727.5	9555.0	4525.3	2548.2	2539.6	2653.3	2692.0	2672.7	2651.2	2640.5	2627.6
52.5°	12603.4	9950.0	4220.4	2354.9	2417.2	2563.2	2694.1	2709.2	2709.2	2702.7	2694.1
55°	13195.9	10224.8	3911.3	2198.2	2292.7	2490.2	2689.8	2747.8	2769.3	2760.7	2752.1
57.5°	13633.8	10375.1	3522.8	2063.0	2187.5	2419.4	2666.2	2752.1	2773.6	2784.3	2780.0
60°	13724.0	10235.5	3014.0	1921.3	2073.7	2316.3	2580.4	2687.7	2715.6	2782.1	2788.6
62.5°	13318.2	9806.2	2507.4	1781.8	1934.2	2159.6	2464.4	2614.7	2670.5	2773.6	2784.3
64°	12820.2	9325.3	2226.1	1693.8	1844.0	2071.6	2406.5	2595.4	2668.4	2805.8	2814.3
65°	12455.3	8975.4	2050.1	1637.9	1786.1	2013.6	2374.3	2601.8	2687.7	2855.1	2868.0
67.5°	11111.4	7771.1	1695.9	1507.0	1648.7	1914.9	2380.7	2655.5	2683.4	2874.5	2872.3
70°	9194.4	6186.8	1421.1	1386.8	1515.6	1835.4	2354.9	2569.6	2571.8	2698.4	2668.4
72.5°	6884.5	4572.5	1232.2	1262.3	1367.5	1646.5	2224.0	2453.7	2417.2	2434.4	2404.3
75°	4729.2	3024.7	1060.5	1129.2	1212.9	1455.5	2039.4	2228.3	2170.3	2148.9	2127.4
77.5°	2524.5	1672.3	882.3	998.2	1054.0	1258.0	1779.6	1962.1	1902.0	1818.3	1790.4
80°	1021.8	787.8	710.6	826.5	858.7	1013.3	1481.2	1595.0	1549.9	1404.0	1356.7
82.5°	513.1	472.3	558.1	650.5	652.6	723.4	1101.3	1208.6	1107.7	929.5	888.7
85°	268.3	276.9	384.3	457.3	403.6	390.7	661.2	732.0	671.9	583.9	525.9
87.5°	96.6	111.6	201.8	199.6	141.7	75.1	146.0	70.8	38.6	23.6	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)