

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: P459432

Luminaire Tested: **GALN-SA8D-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59305 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

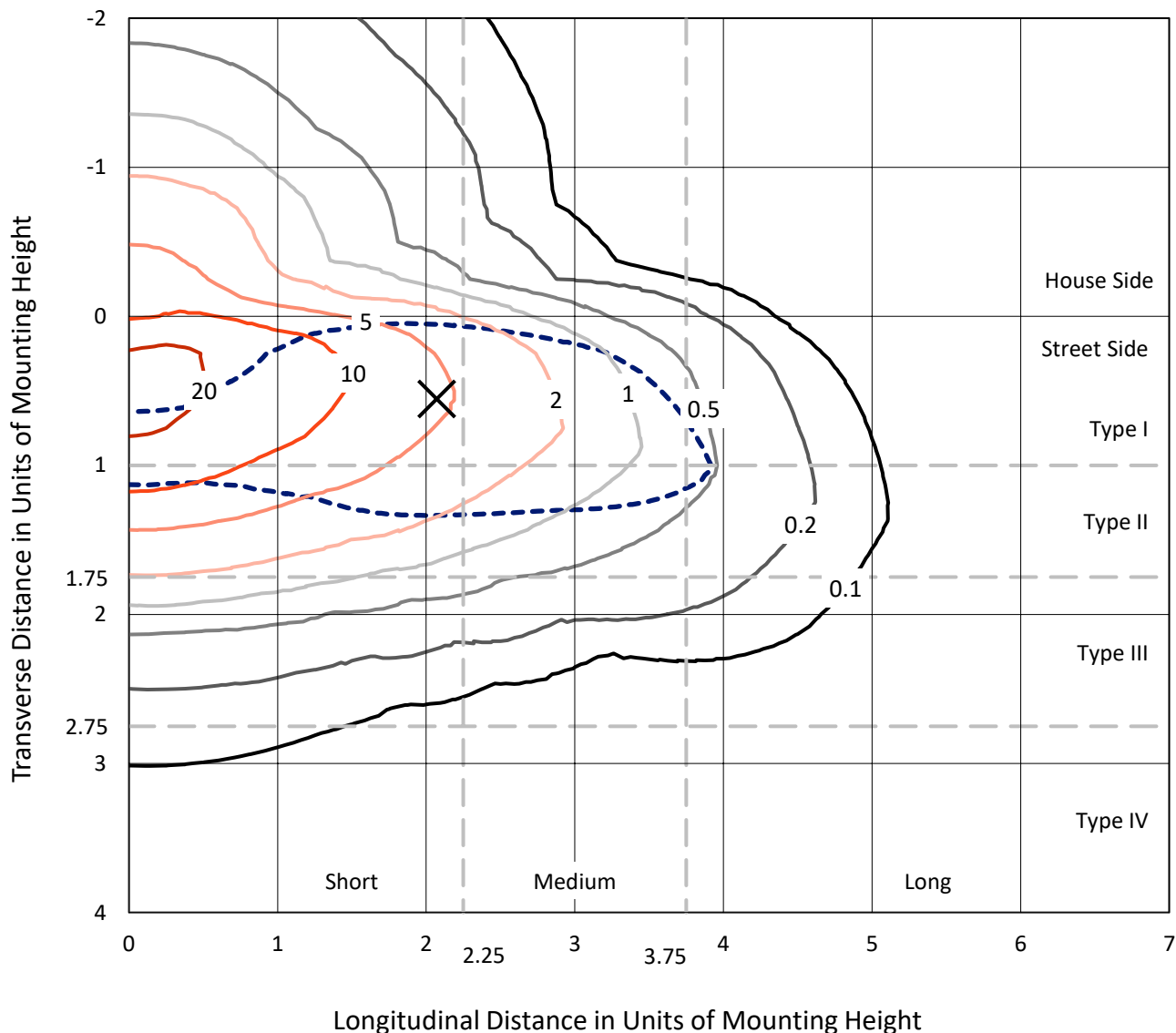
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

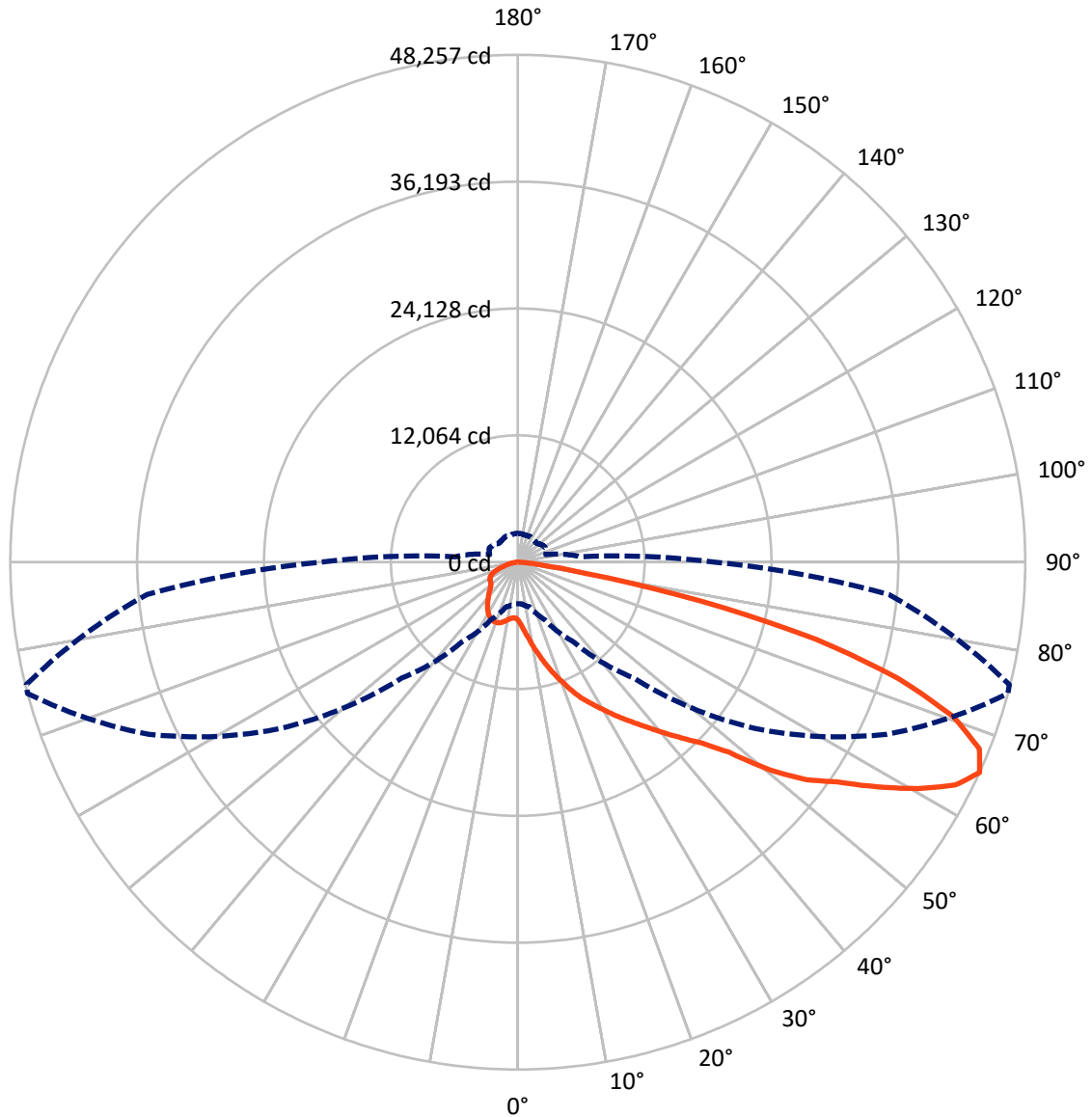
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9969.9	0.0	9969.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	49335.1	0.0	49335.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	59305.0	0.0	59305.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.5	1.1
10°-20°	2622.2	4.4
20°-30°	5065.2	8.5
30°-40°	8227.5	13.9
40°-50°	11317.7	19.1
50°-60°	13362.3	22.5
60°-70°	11707.6	19.7
70°-80°	5589.3	9.4
80°-90°	743.7	1.3
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°	59305.0	100.0
0°-180°	59305.0	100.0

Coefficient of Utilization



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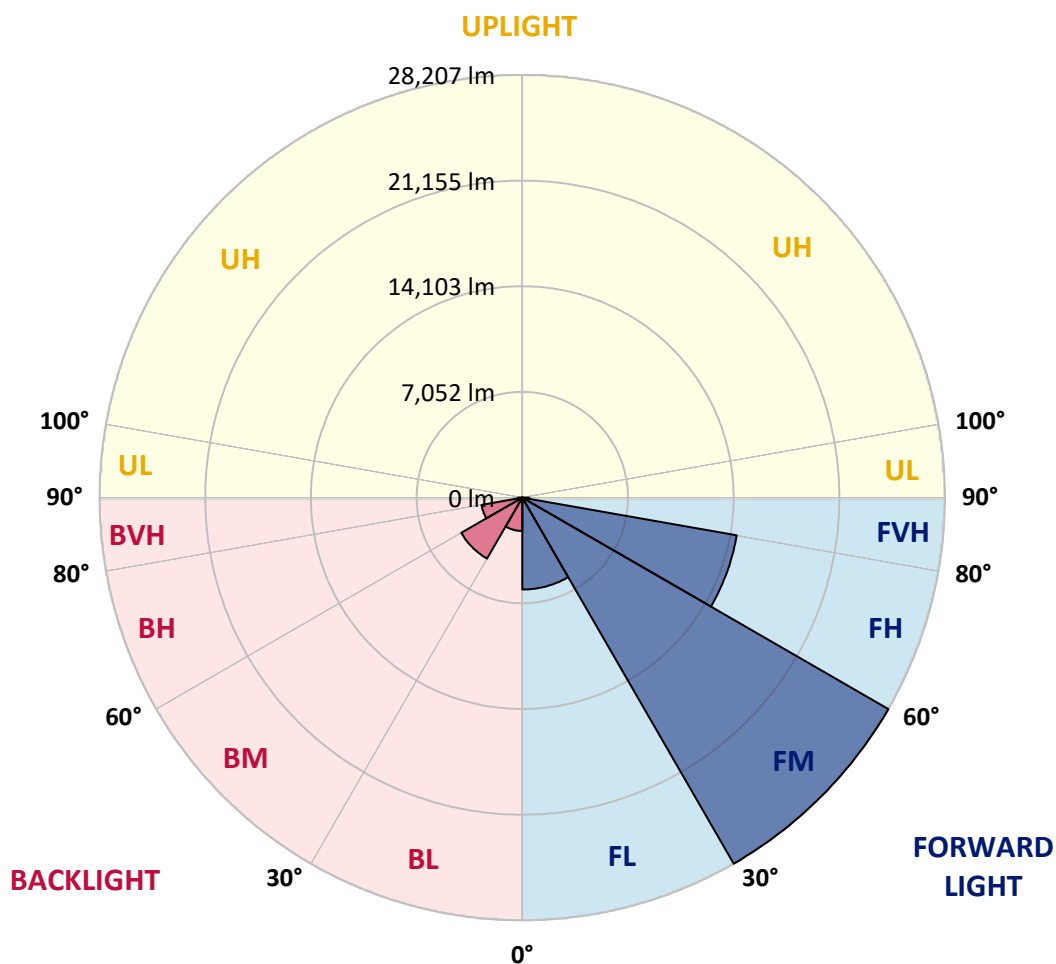
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6131.2	10.3			
FM	(30°-60°)	28206.7	47.6			
FH	(60°-80°)	14532.4	24.5			G5
FVH	(80°-90°)	464.8	0.8			G3/500
BL	(0°-30°)	2225.8	3.8	B3/2500		
BM	(30°-60°)	4700.8	7.9	B3/5000		
BH	(60°-80°)	2764.5	4.7	B4/5000		G4/5000
BVH	(80°-90°)	278.9	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5510.2	5510.2	5510.2	5510.2	5510.2	5510.2	5510.2	5510.2	5510.2	5510.2	5510.2
2.5°	7321.2	7272.9	7221.5	7079.9	6928.7	6758.3	6513.8	6279.0	5967.0	5957.3	5725.7
5°	9350.9	9318.7	9090.4	8958.5	8607.9	8141.4	7745.8	7131.4	6562.0	6494.5	6044.2
7.5°	11216.6	11091.1	11004.3	10766.2	10418.8	9820.5	9055.0	8225.1	7272.9	7182.9	6436.6
10°	12622.3	12609.4	12564.4	12358.5	12098.0	11502.9	10653.7	9463.5	8173.6	7996.7	6912.7
12.5°	13674.1	13683.8	13677.3	13674.1	13487.6	12982.5	12062.6	10808.1	9083.9	8958.5	7462.7
15°	14365.7	14462.2	14500.8	14661.7	14677.7	14340.0	13548.7	12107.6	10110.0	9923.5	8054.6
17.5°	14822.5	14870.7	15050.9	15324.3	15546.2	15485.1	14780.7	13310.6	11158.7	10846.7	8669.0
20°	15260.0	15343.6	15481.9	15855.0	16247.5	16427.6	15932.2	14542.6	12197.7	11998.2	9347.7
22.5°	16170.3	16289.3	16337.5	16527.3	16861.9	17180.3	16955.2	15723.2	13336.4	13066.2	10068.2
25°	17711.1	17836.5	17701.4	17656.4	17765.8	17923.4	17875.1	16836.1	14410.8	14024.8	10750.2
27.5°	19718.3	19734.4	19470.6	19219.7	18949.5	18869.1	18721.1	17823.7	15343.6	15021.9	11435.3
30°	21873.5	21796.3	21358.8	20905.2	20448.5	19998.1	19573.5	18775.8	16382.6	16012.7	12107.6
32.5°	23874.2	23832.4	23346.7	22642.3	21870.2	21445.6	20586.8	19737.6	17495.6	17138.5	12799.2
35°	25373.2	25434.3	24900.4	24131.6	23288.8	22912.5	21828.4	20747.6	18647.1	18257.9	13551.9
37.5°	26437.9	26405.8	25932.9	25267.1	24527.2	24199.1	23279.2	21850.9	19885.6	19512.4	14375.4
40°	26817.5	26798.2	26447.6	25961.9	25492.2	25376.4	24797.4	23041.1	21304.1	20866.6	15366.1
42.5°	26576.3	26618.1	26386.5	26254.6	26167.7	26251.4	26306.1	24601.2	22851.3	22449.3	16440.5
45°	25836.4	25813.9	25781.7	25997.3	26486.2	27036.2	27798.6	26074.5	24533.7	24212.0	17881.6
47.5°	24514.4	24675.2	24755.6	25350.7	26418.6	27721.4	29516.3	28049.5	26975.1	26695.3	20078.6
50°	22664.8	22793.4	23269.5	24327.8	25920.1	27978.7	31195.4	31279.1	31047.5	30523.1	22465.3
52.5°	19776.2	19975.6	20956.7	22896.4	24897.2	27872.6	32211.9	34048.6	34354.2	33961.8	24816.7
55°	16543.4	16823.3	17859.0	20403.4	23488.2	27293.6	32913.1	35653.8	36872.9	36509.4	27081.3
57.5°	13378.2	13674.1	14738.9	17202.8	21030.7	26013.3	33373.1	37442.2	40301.9	39829.0	29899.1
60°	10026.4	10335.2	11248.8	13786.7	17530.9	23510.8	33061.1	38992.7	43727.6	43525.0	32720.1
62.5°	6468.8	6809.7	7604.2	9704.7	13474.7	20091.4	31391.6	39848.3	46693.4	46448.9	34778.8
65°	3940.4	3979.0	4416.5	6024.9	9222.2	15555.9	27573.4	38712.8	48256.7	48182.7	35406.1
67.5°	2547.6	2608.7	2808.2	3609.1	5529.5	10804.8	22047.2	34965.4	47343.2	47317.5	34109.7
70°	2152.0	2171.3	2261.3	2435.0	3213.5	6552.4	15481.9	28992.0	43872.4	43872.4	30992.8
72.5°	1923.6	1949.3	1981.5	2036.2	2293.5	3712.1	9238.3	22568.3	37879.7	38130.6	26380.0
75°	1746.7	1740.2	1759.5	1769.2	1955.7	2425.4	4776.8	16691.4	29304.0	28802.2	19103.9
77.5°	1495.8	1505.4	1495.8	1537.6	1727.4	1846.4	2425.4	11200.5	17759.3	17109.6	9588.9
80°	1228.8	1244.9	1260.9	1286.7	1476.5	1402.5	1457.2	5104.9	6568.5	6430.2	2962.6
82.5°	923.2	945.7	971.4	1032.6	1161.2	926.4	920.0	2180.9	2370.7	2171.3	1090.5
85°	373.1	440.7	665.9	727.0	730.2	508.2	566.1	910.3	968.2	945.7	427.8
87.5°	86.9	102.9	215.5	324.9	299.2	189.8	209.1	295.9	337.8	312.0	144.8
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°	5510.2	5510.2	5510.2	5510.2	5510.2	5510.2	5510.2	5510.2	5510.2	5510.2	5510.2
2.5°	5619.6	5507.0	5314.0	5166.0	5059.8	4966.6	4908.7	4873.3	4860.4	4857.2	4860.4
5°	5809.3	5609.9	5304.3	5111.3	5005.2	4944.0	4908.7	4905.4	4908.7	4911.9	4902.2
7.5°	6069.9	5783.6	5384.7	5204.6	5124.2	5079.1	5063.1	5056.6	5059.8	5056.6	5056.6
10°	6417.3	6024.9	5542.4	5355.8	5288.2	5236.8	5211.0	5194.9	5182.1	5169.2	5162.8
12.5°	6800.1	6291.8	5712.8	5532.7	5436.2	5355.8	5297.9	5256.1	5227.1	5198.2	5191.7
15°	7227.9	6574.9	5902.6	5651.7	5513.4	5394.4	5294.7	5227.1	5175.6	5133.8	5130.6
17.5°	7636.4	6841.9	6031.3	5706.4	5503.8	5336.5	5204.6	5111.3	5047.0	4992.3	4985.9
20°	8073.9	7096.0	6089.2	5671.0	5407.2	5204.6	5030.9	4918.3	4844.3	4783.2	4773.6
22.5°	8514.6	7311.5	6082.8	5558.4	5240.0	5001.9	4818.6	4699.6	4612.7	4551.6	4529.1
25°	8936.0	7485.2	6002.3	5378.3	5008.4	4760.7	4574.1	4464.8	4387.6	4313.6	4313.6
27.5°	9315.5	7588.2	5851.2	5159.6	4770.3	4509.8	4361.8	4262.1	4191.3	4143.1	4114.1
30°	9688.7	7636.4	5645.3	4882.9	4519.4	4297.5	4178.5	4120.6	4056.2	4001.6	3995.1
32.5°	10023.2	7626.8	5387.9	4612.7	4281.4	4123.8	4075.5	4030.5	3963.0	3885.8	3866.5
35°	10348.1	7562.4	5082.4	4316.8	4082.0	4020.9	4033.7	3969.4	3847.2	3750.7	3734.6
37.5°	10701.9	7446.6	4747.8	4075.5	3914.7	3972.6	4004.8	3863.2	3663.8	3512.6	3477.2
40°	11110.4	7314.7	4400.4	3834.3	3782.8	3927.6	3927.6	3667.0	3393.6	3300.3	3274.6
42.5°	11589.7	7205.4	4110.9	3631.6	3673.5	3818.2	3802.1	3406.5	3293.9	3245.6	3232.8
45°	12348.9	7166.8	3811.8	3454.7	3583.4	3689.5	3557.7	3316.4	3252.1	3213.5	3200.6
47.5°	13548.7	7211.8	3548.0	3322.8	3480.5	3560.9	3284.2	3255.3	3210.3	3155.6	3149.1
50°	14661.7	7170.0	3361.4	3248.9	3390.4	3406.5	3171.7	3181.3	3155.6	3094.5	3081.6
52.5°	15572.0	7038.1	3242.4	3210.3	3313.2	3136.3	3065.5	3100.9	3091.2	3014.0	3001.2
55°	16572.4	6957.7	3184.5	3210.3	3261.7	2901.5	2965.8	3017.3	3004.4	2949.7	2946.5
57.5°	17785.1	6973.8	3142.7	3219.9	3210.3	2782.4	2866.1	2927.2	2924.0	2907.9	2907.9
60°	19026.7	6980.2	3078.4	3216.7	3149.1	2689.1	2763.1	2850.0	2856.4	2866.1	2866.1
62.5°	19438.4	6700.4	2952.9	3158.8	3014.0	2599.1	2666.6	2785.7	2779.2	2805.0	2808.2
65°	18669.6	5925.1	2766.4	3026.9	2840.3	2534.7	2592.6	2702.0	2666.6	2734.2	2747.1
67.5°	16993.8	4902.2	2476.8	2788.9	2647.3	2467.2	2544.4	2586.2	2521.9	2653.8	2657.0
70°	14687.4	3827.9	2110.1	2451.1	2428.6	2396.4	2505.8	2441.5	2351.4	2512.2	2480.1
72.5°	12281.3	2924.0	1685.5	2004.0	2135.9	2290.3	2438.2	2254.9	2129.4	2177.7	2119.8
75°	9225.5	2161.6	1354.2	1569.7	1778.8	2139.1	2377.1	2029.7	1836.7	1791.7	1778.8
77.5°	4702.8	1412.1	1013.3	1174.1	1334.9	1933.2	2293.5	1766.0	1521.5	1450.7	1418.6
80°	1679.1	878.2	714.1	810.6	900.7	1663.0	2004.0	1460.4	1180.5	1167.7	1180.5
82.5°	778.4	566.1	479.3	530.8	534.0	1109.8	1527.9	1090.5	897.5	1363.9	1151.6
85°	334.5	283.1	270.2	263.8	244.5	495.4	858.9	585.4	913.5	408.5	376.4
87.5°	99.7	112.6	99.7	74.0	54.7	54.7	86.9	32.2	22.5	16.1	16.1
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)