

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: P458912

Luminaire Tested: **GALN-SA4B-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458912
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-SA4B-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20794 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

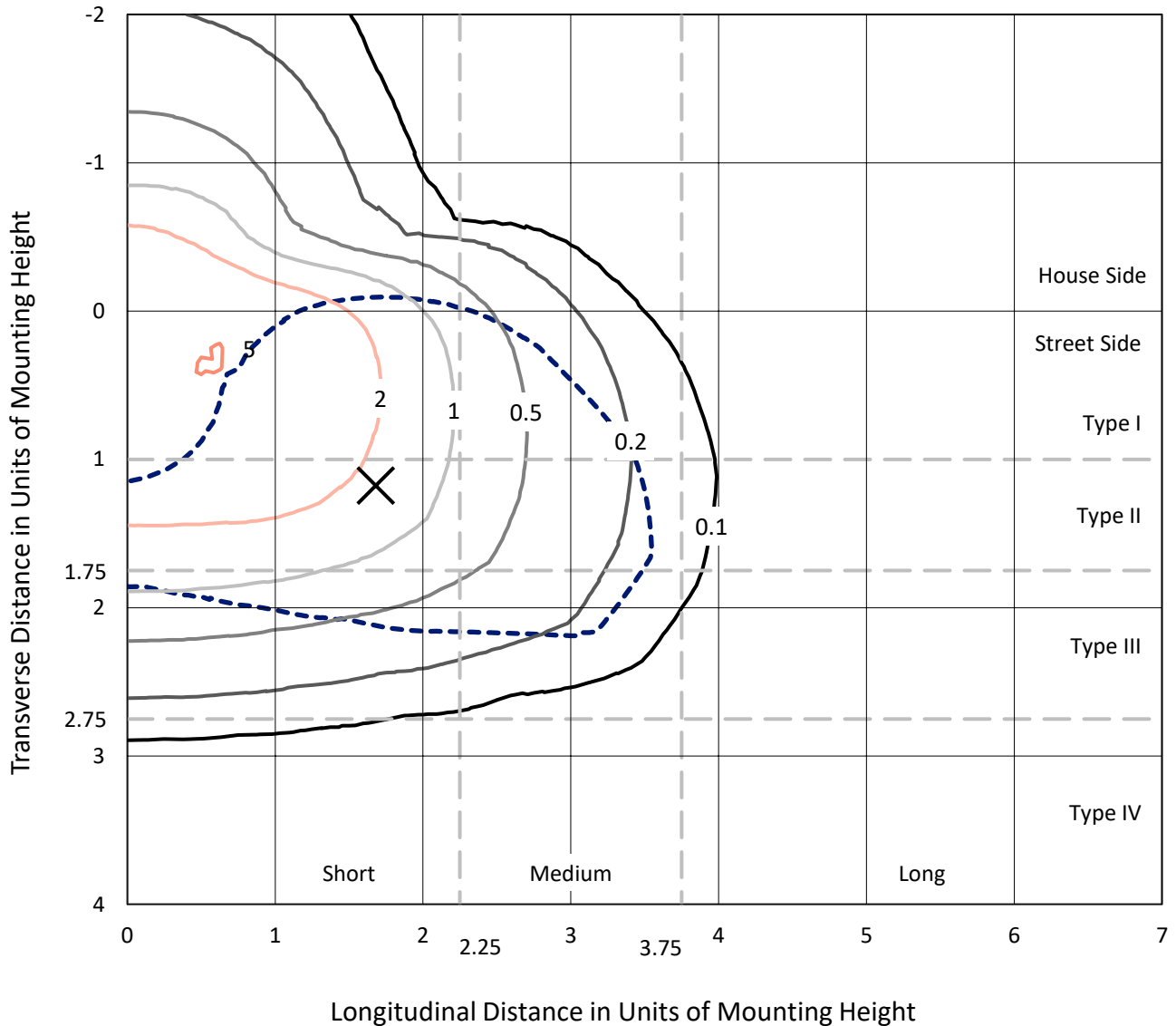
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458912
 CATALOG NUMBER: GALN-SA4B-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

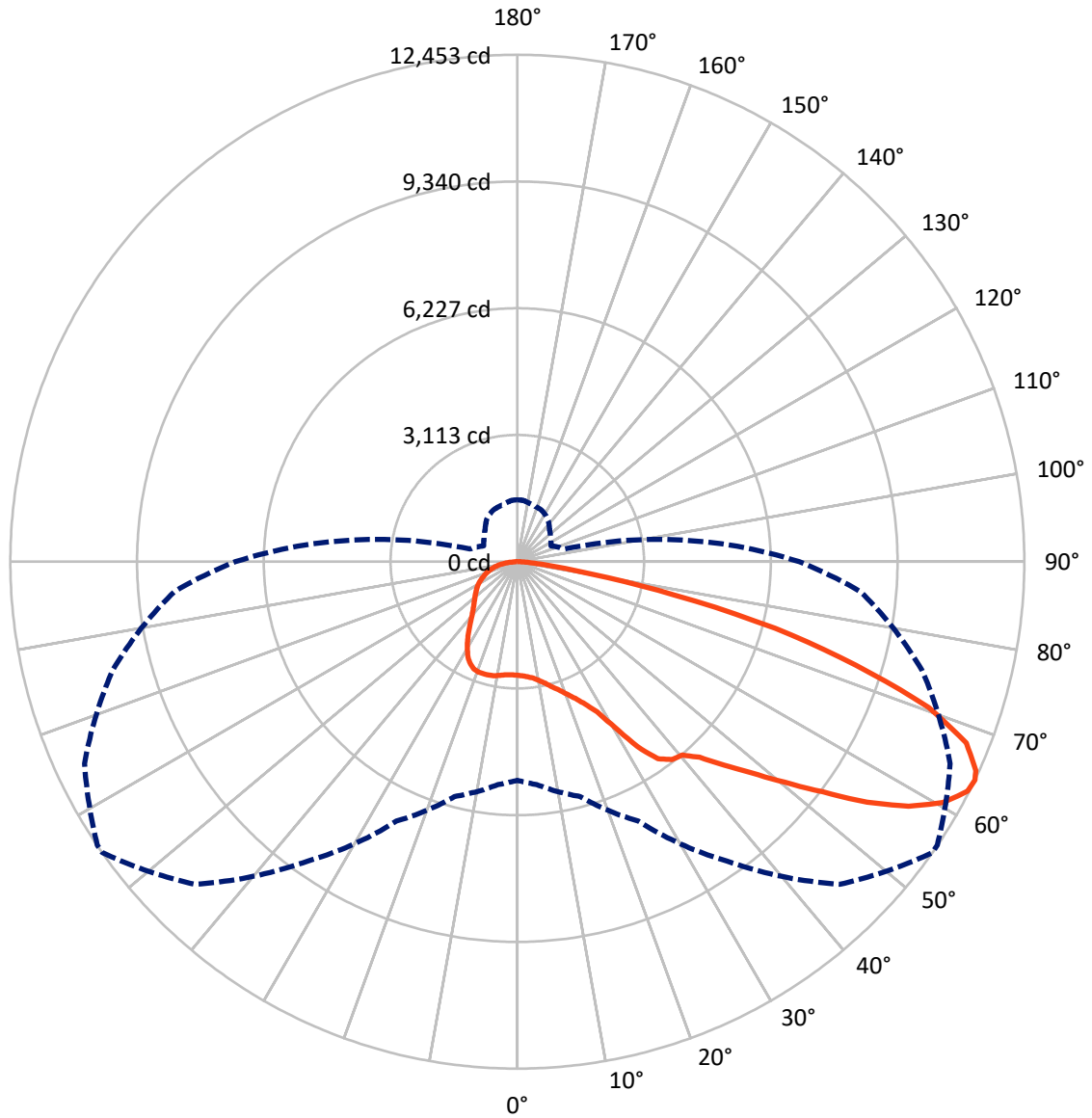
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

REPORT NUMBER: P458912
CATALOG NUMBER: GALN-SA4B-735-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P458912

CATALOG NUMBER: GALN-SA4B-735-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5051.3	0.0	5051.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	15742.7	0.0	15742.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	20794.0	0.0	20794.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.4	1.3
10°-20°	856.3	4.1
20°-30°	1524.5	7.3
30°-40°	2345.5	11.3
40°-50°	3325.0	16.0
50°-60°	4812.8	23.1
60°-70°	4980.8	24.0
70°-80°	2332.5	11.2
80°-90°	345.3	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°	20794.0	100.0
0°-180°	20794.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458912

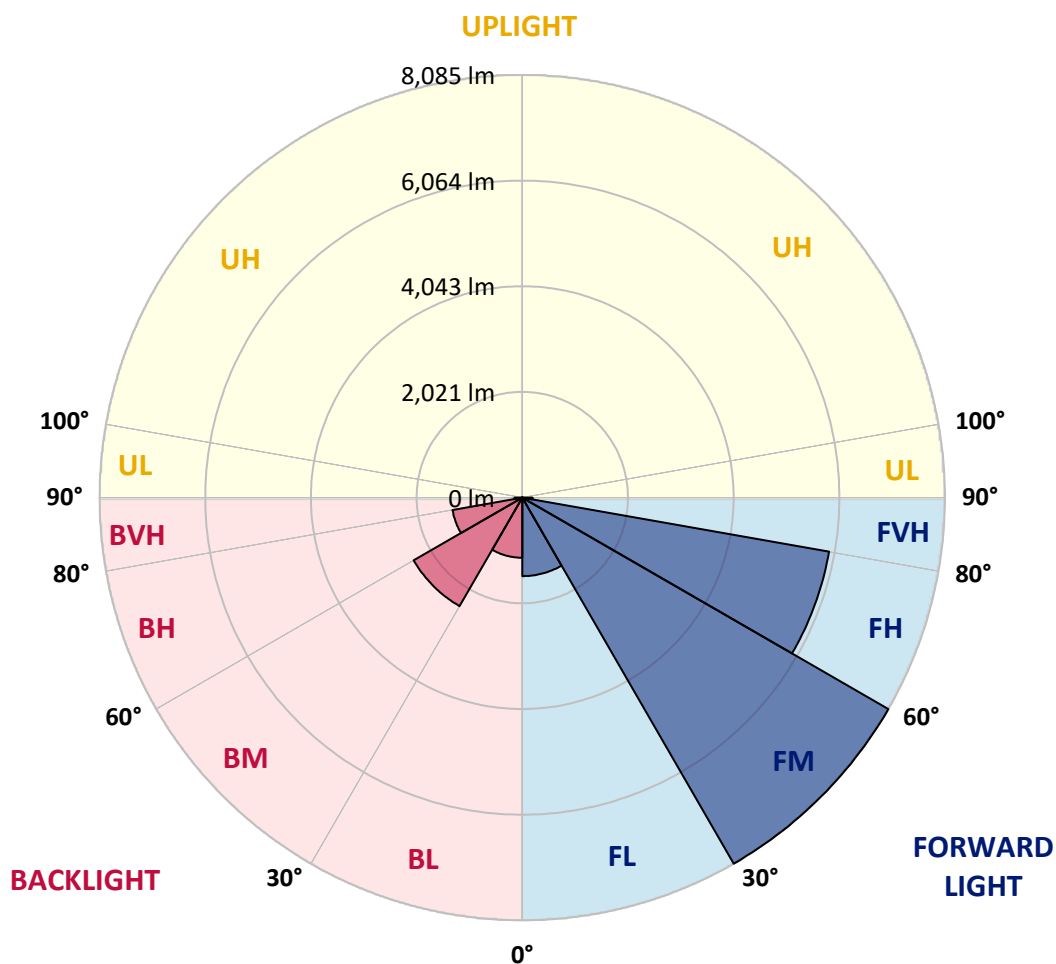
CATALOG NUMBER: GALN-SA4B-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1501.7	7.2			
FM	(30°-60°)	8085.3	38.9			
FH	(60°-80°)	5958.1	28.7			G3/7500
FVH	(80°-90°)	197.7	1.0			G2/225
BL	(0°-30°)	1150.5	5.5	B3/2500		
BM	(30°-60°)	2398.0	11.5	B2/2500		
BH	(60°-80°)	1355.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	147.6	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





REPORT NUMBER: P458912

CATALOG NUMBER: GALN-SA4B-735-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9
2.5°	2821.2	2820.1	2823.5	2820.1	2822.4	2814.3	2810.8	2813.1	2809.6	2803.8	2793.4
5°	2856.0	2854.8	2856.0	2851.4	2853.7	2849.0	2840.9	2843.2	2837.4	2824.7	2809.6
7.5°	2915.1	2910.5	2910.5	2909.3	2904.7	2897.7	2891.9	2889.6	2883.8	2867.6	2844.4
10°	2991.6	2991.6	2992.8	2983.5	2989.3	2976.5	2970.7	2969.6	2949.9	2929.0	2896.6
12.5°	3092.4	3098.2	3094.8	3090.1	3087.8	3083.2	3063.5	3068.1	3046.1	3010.2	2970.7
15°	3217.6	3226.9	3221.1	3218.8	3213.0	3195.6	3187.5	3184.0	3155.0	3102.9	3050.7
17.5°	3383.4	3371.8	3367.2	3361.4	3337.0	3324.3	3310.4	3308.0	3282.5	3221.1	3140.0
20°	3528.3	3544.5	3535.2	3529.4	3505.1	3480.7	3470.3	3466.8	3444.8	3377.6	3247.8
22.5°	3701.0	3704.4	3707.9	3694.0	3682.4	3663.9	3645.3	3639.5	3631.4	3561.9	3403.1
25°	3885.3	3899.2	3887.6	3873.7	3859.8	3858.6	3876.0	3873.7	3870.2	3803.0	3609.4
27.5°	4185.5	4198.2	4201.7	4186.6	4133.3	4137.9	4177.4	4190.1	4243.4	4132.2	3874.8
30°	4354.7	4367.4	4396.4	4453.2	4537.8	4612.0	4707.1	4736.0	4787.0	4577.2	4190.1
32.5°	4459.0	4463.7	4515.8	4621.3	4875.1	5152.2	5410.6	5421.1	5453.5	5159.1	4478.7
35°	4623.6	4627.1	4668.8	4784.7	5082.6	5543.9	5943.8	5956.6	5929.9	5339.9	4613.2
37.5°	4826.4	4835.7	4862.4	4958.6	5314.4	5871.9	6165.2	6155.9	5919.5	5483.6	4850.8
40°	5122.0	5122.0	5090.7	5220.5	5559.0	6059.7	6242.9	6226.6	6164.0	5899.8	5212.4
42.5°	5382.8	5378.2	5452.4	5540.4	5865.0	6349.5	6568.6	6595.2	6698.4	6422.5	5623.9
45°	5722.4	5743.3	5785.0	5945.0	6385.4	6844.4	7127.2	7152.7	7298.8	7038.0	6104.9
47.5°	6065.5	6072.5	6203.4	6416.7	7029.9	7515.5	7747.4	7789.1	7922.4	7757.8	6623.0
50°	6308.9	6375.0	6584.8	6920.9	7694.0	8333.8	8514.7	8564.5	8799.8	8541.3	7226.9
52.5°	6566.2	6631.1	6887.3	7399.6	8456.7	9170.7	9393.3	9426.9	9671.4	9334.1	7844.7
55°	6786.5	6846.7	7137.7	7823.9	9064.1	10025.0	10428.3	10388.9	10506.0	9945.0	8321.1
57.5°	6822.4	6871.1	7237.4	8095.1	9520.8	10757.5	11335.9	11359.1	11223.5	10401.7	8714.0
60°	6544.2	6643.9	7064.6	8066.1	9725.9	11267.5	12012.8	12029.0	11644.2	10635.8	8870.5
62.5°	6051.6	6041.2	6550.0	7600.1	9438.5	11383.4	12411.5	12394.1	11808.8	10523.4	8718.7
64°	5371.2	5496.4	5971.6	7027.6	8974.8	11204.9	12453.3	12444.0	11730.0	10289.2	8460.2
65°	4956.3	4949.3	5418.7	6559.3	8513.5	10936.0	12379.1	12366.3	11565.4	10079.4	8259.7
67.5°	3578.1	3594.3	4058.0	5061.7	6920.9	9884.7	11895.7	11848.2	10916.3	9384.0	7497.0
70°	2167.5	2176.8	2540.7	3357.9	4967.9	7990.8	10722.7	10725.1	9923.0	8345.4	6380.8
72.5°	1141.7	1166.0	1312.1	1906.7	3017.1	5606.5	8699.0	8905.3	8519.3	7122.6	5040.9
75°	635.2	638.7	741.8	940.0	1539.3	3137.7	6538.4	6597.5	6744.7	5732.9	3727.6
77.5°	484.5	491.5	523.9	607.4	838.0	1454.7	3957.1	4253.9	4753.4	4041.7	2126.9
80°	392.9	399.9	427.7	477.5	557.5	689.7	1838.3	1998.3	2544.2	1794.3	829.9
82.5°	306.0	301.4	337.3	369.7	405.7	408.0	754.6	834.5	1036.2	772.0	359.3
85°	227.2	227.2	256.2	249.2	262.0	238.8	332.7	367.4	415.0	328.0	166.9
87.5°	90.4	99.7	168.1	150.7	117.1	93.9	122.9	129.8	143.7	128.7	69.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P458912
 CATALOG NUMBER: GALN-SA4B-735-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9	2789.9
2.5°	2794.6	2798.0	2789.9	2784.1	2781.8	2778.3	2774.9	2776.0	2780.7	2785.3	2784.1
5°	2808.5	2809.6	2795.7	2788.8	2784.1	2779.5	2779.5	2783.0	2792.2	2799.2	2799.2
7.5°	2843.2	2843.2	2823.5	2810.8	2803.8	2795.7	2793.4	2794.6	2801.5	2810.8	2811.9
10°	2897.7	2893.1	2867.6	2847.9	2835.1	2815.4	2798.0	2788.8	2792.2	2798.0	2798.0
12.5°	2963.8	2951.0	2918.6	2891.9	2860.6	2823.5	2787.6	2769.1	2767.9	2773.7	2771.4
15°	3034.5	3020.6	2975.4	2926.7	2872.2	2817.7	2774.9	2748.2	2727.3	2721.5	2734.3
17.5°	3116.8	3087.8	3025.2	2958.0	2876.9	2806.2	2738.9	2684.5	2647.4	2636.9	2640.4
20°	3216.5	3178.2	3093.6	2988.1	2873.4	2764.4	2660.1	2587.1	2526.8	2508.3	2510.6
22.5°	3354.4	3288.3	3164.3	3003.2	2844.4	2685.6	2540.7	2445.7	2372.7	2343.7	2361.1
25°	3510.9	3439.0	3231.5	2999.7	2769.1	2559.3	2399.3	2275.3	2209.2	2166.3	2175.6
27.5°	3726.5	3599.0	3303.4	2968.4	2661.3	2405.1	2219.7	2102.6	2042.3	2020.3	2030.7
30°	4002.3	3806.4	3381.1	2883.8	2490.9	2210.4	2038.8	1962.3	1926.4	1898.6	1907.9
32.5°	4201.7	3952.5	3398.4	2741.2	2306.6	2033.0	1916.0	1859.2	1819.8	1793.1	1798.9
35°	4344.3	4076.5	3390.3	2566.2	2114.2	1887.0	1818.6	1772.2	1708.5	1650.5	1640.1
37.5°	4535.5	4231.8	3331.2	2375.0	1924.1	1788.5	1739.8	1654.0	1562.5	1484.8	1481.3
40°	4828.8	4413.8	3204.9	2150.1	1761.8	1715.5	1656.3	1545.1	1446.5	1384.0	1379.3
42.5°	5131.3	4581.9	3033.3	1913.7	1628.5	1639.0	1567.1	1457.0	1396.7	1356.1	1351.5
45°	5501.0	4763.9	2847.9	1708.5	1530.0	1567.1	1489.4	1425.7	1389.7	1363.1	1356.1
47.5°	5900.9	4950.5	2639.2	1524.2	1446.5	1501.0	1457.0	1428.0	1408.3	1389.7	1381.6
50°	6332.1	5159.1	2443.4	1375.8	1371.2	1432.6	1453.5	1443.1	1431.5	1425.7	1418.7
52.5°	6805.0	5372.4	2278.8	1271.5	1305.1	1384.0	1454.7	1462.8	1462.8	1459.3	1454.7
55°	7124.9	5520.7	2111.9	1186.9	1237.9	1344.5	1452.3	1483.6	1495.2	1490.6	1486.0
57.5°	7361.4	5601.9	1902.1	1113.9	1181.1	1306.3	1439.6	1486.0	1497.5	1503.3	1501.0
60°	7410.1	5526.5	1627.4	1037.4	1119.7	1250.7	1393.2	1451.2	1466.2	1502.2	1505.7
62.5°	7191.0	5294.7	1353.8	962.0	1044.3	1166.0	1330.6	1411.8	1441.9	1497.5	1503.3
64°	6922.1	5035.1	1202.0	914.5	995.7	1118.5	1299.3	1401.3	1440.7	1514.9	1519.6
65°	6725.0	4846.2	1106.9	884.4	964.4	1087.2	1282.0	1404.8	1451.2	1541.6	1548.5
67.5°	5999.4	4195.9	915.7	813.7	890.2	1033.9	1285.4	1433.8	1448.9	1552.0	1550.9
70°	4964.4	3340.5	767.3	748.8	818.3	991.0	1271.5	1387.4	1388.6	1457.0	1440.7
72.5°	3717.2	2468.9	665.3	681.5	738.3	889.0	1200.8	1324.8	1305.1	1314.4	1298.2
75°	2553.5	1633.2	572.6	609.7	654.9	785.9	1101.1	1203.1	1171.8	1160.2	1148.7
77.5°	1363.1	902.9	476.4	539.0	569.1	679.2	960.9	1059.4	1027.0	981.7	966.7
80°	551.7	425.4	383.7	446.2	463.6	547.1	799.8	861.2	836.9	758.0	732.5
82.5°	277.0	255.0	301.4	351.2	352.4	390.6	594.6	652.6	598.1	501.9	479.9
85°	144.9	149.5	207.5	246.9	217.9	211.0	357.0	395.2	362.8	315.3	284.0
87.5°	52.2	60.3	109.0	107.8	76.5	40.6	78.8	38.2	20.9	12.7	16.2
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)