

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: P454908

Luminaire Tested: **GALN-SA6A-740-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454908
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-SA6A-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27637 lumens
Efficiency: N/A
Efficacy: 151.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

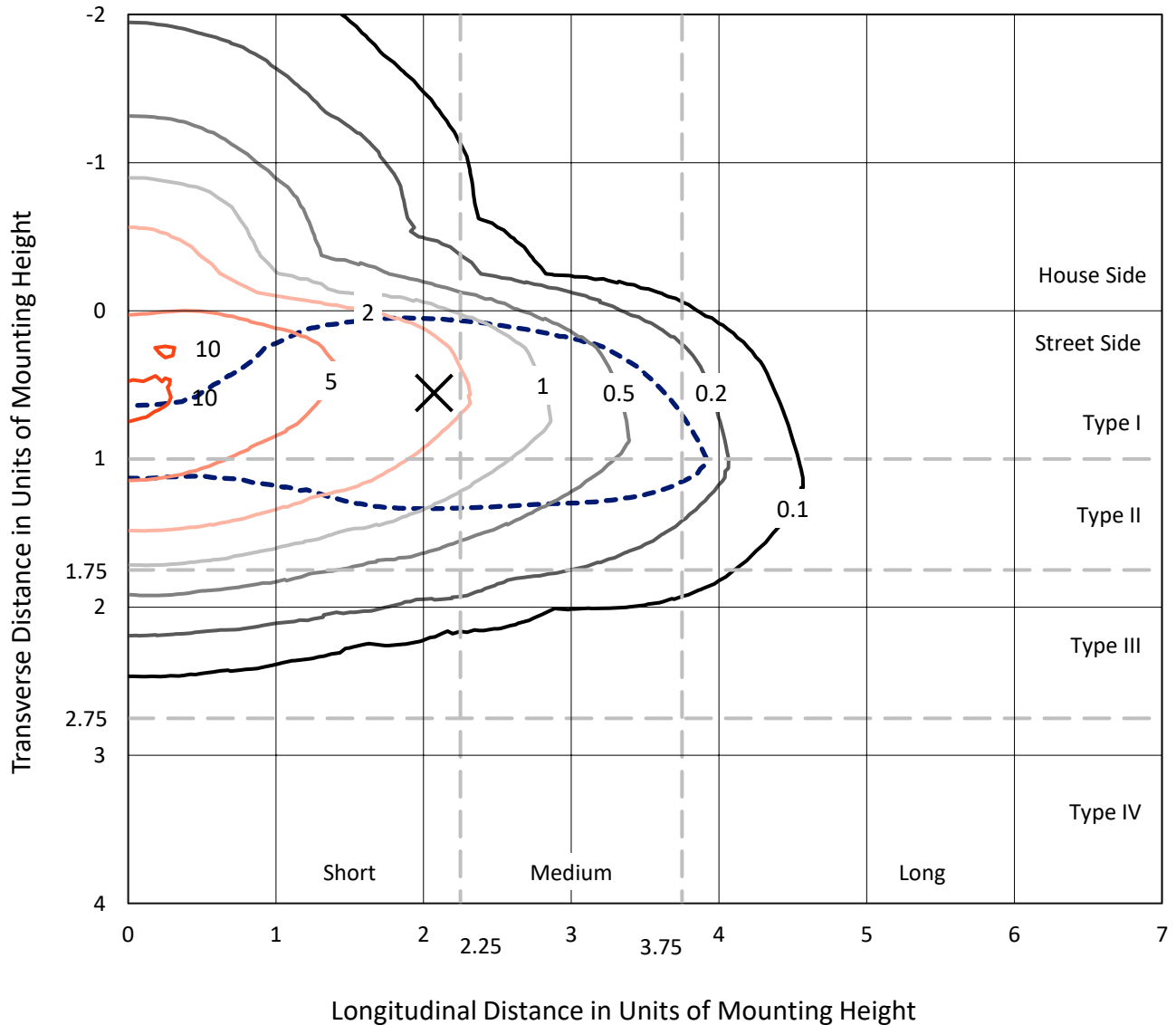
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454908
 CATALOG NUMBER: GALN-SA6A-740-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

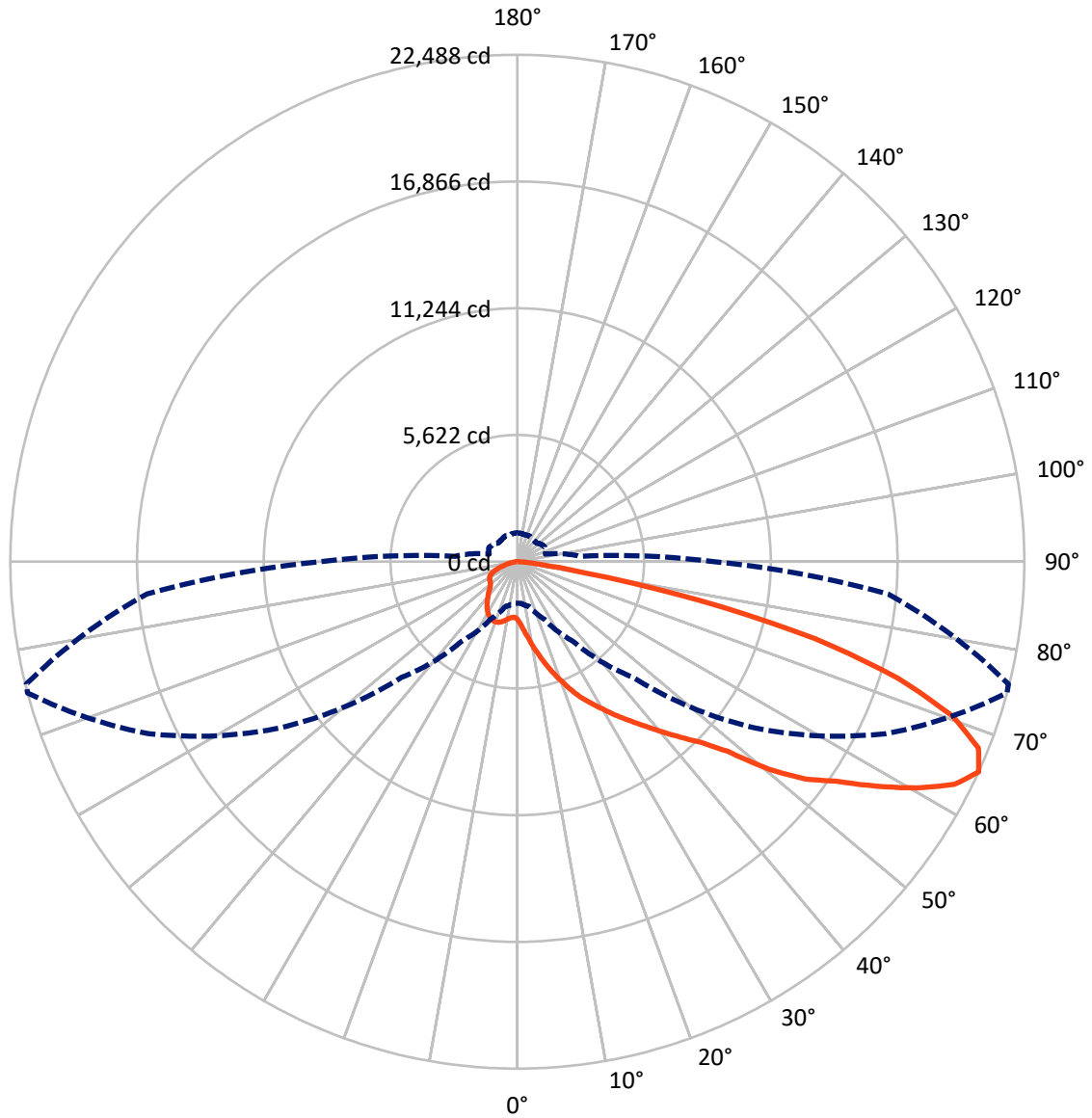
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

REPORT NUMBER: P454908
CATALOG NUMBER: GALN-SA6A-740-U-T2R

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	4646.1	0.0	4646.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	22990.9	0.0	22990.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	27637.0	0.0	27637.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.0	1.1
10°-20°	1222.0	4.4
20°-30°	2360.5	8.5
30°-40°	3834.1	13.9
40°-50°	5274.2	19.1
50°-60°	6227.0	22.5
60°-70°	5455.9	19.7
70°-80°	2604.7	9.4
80°-90°	346.6	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°	27637.0	100.0
0°-180°	27637.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454908

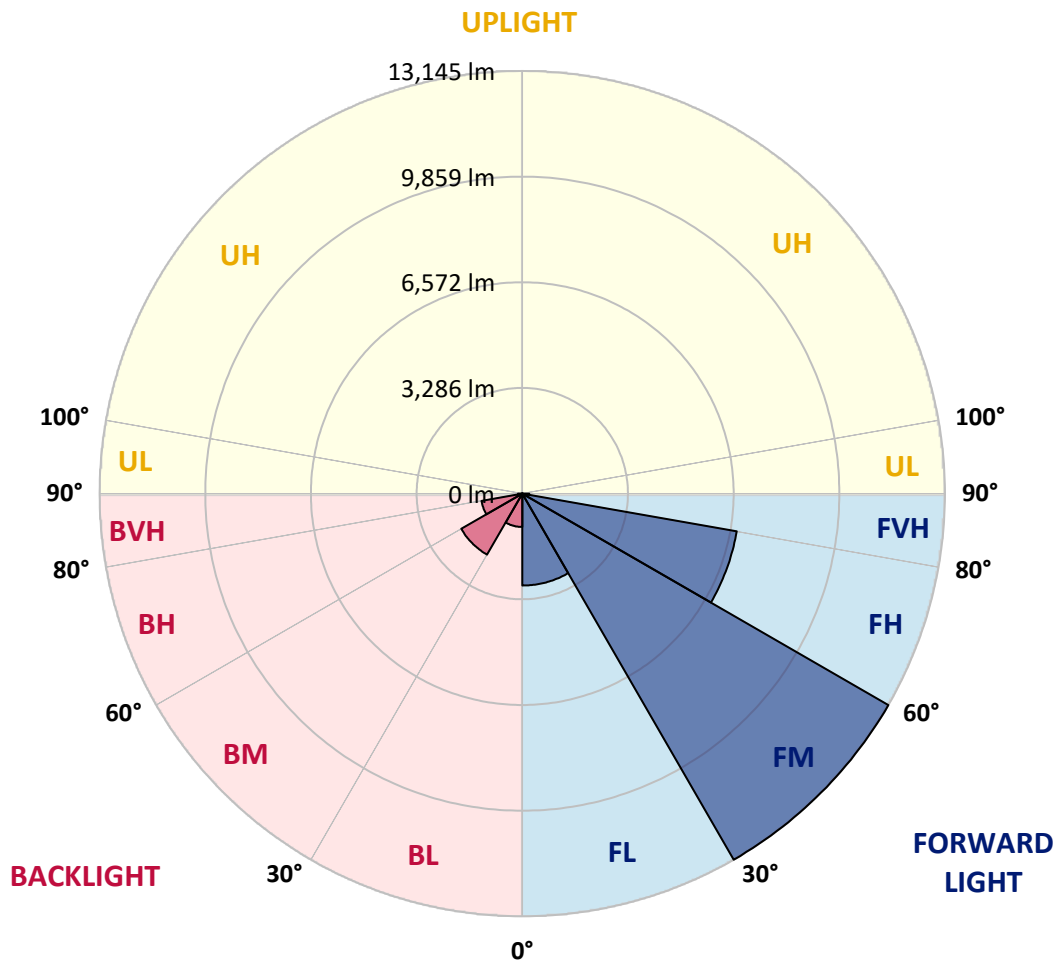
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2857.2	10.3			
FM	(30°-60°)	13144.7	47.6			
FH	(60°-80°)	6772.3	24.5			G3/7500
FVH	(80°-90°)	216.6	0.8			G2/225
BL	(0°-30°)	1037.2	3.8	B3/2500		
BM	(30°-60°)	2190.6	7.9	B2/2500		
BH	(60°-80°)	1288.3	4.7	B3/2500		G3/2500
BVH	(80°-90°)	130.0	0.5			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 II Short





REPORT NUMBER: P454908

CATALOG NUMBER: GALN-SA6A-740-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8
2.5°	3411.8	3389.3	3365.3	3299.3	3228.9	3149.4	3035.5	2926.1	2780.7	2776.2	2668.3
5°	4357.7	4342.7	4236.2	4174.8	4011.4	3794.0	3609.6	3323.3	3058.0	3026.5	2816.7
7.5°	5227.1	5168.6	5128.2	5017.2	4855.3	4576.5	4219.7	3833.0	3389.3	3347.3	2999.5
10°	5882.2	5876.2	5855.2	5759.2	5637.8	5360.5	4964.8	4410.1	3809.0	3726.6	3221.4
12.5°	6372.3	6376.8	6373.8	6372.3	6285.4	6050.1	5621.3	5036.7	4233.2	4174.8	3477.7
15°	6694.6	6739.6	6757.6	6832.5	6840.0	6682.6	6313.9	5642.3	4711.4	4624.5	3753.6
17.5°	6907.5	6930.0	7013.9	7141.3	7244.8	7216.3	6888.0	6203.0	5200.1	5054.7	4039.9
20°	7111.4	7150.3	7214.8	7388.7	7571.6	7655.5	7424.7	6777.1	5684.3	5591.4	4356.2
22.5°	7535.6	7591.1	7613.5	7702.0	7857.9	8006.3	7901.4	7327.2	6214.9	6089.0	4691.9
25°	8253.6	8312.1	8249.1	8228.1	8279.1	8352.6	8330.1	7845.9	6715.6	6535.7	5009.7
27.5°	9189.0	9196.5	9073.6	8956.7	8830.7	8793.3	8724.3	8306.1	7150.3	7000.4	5329.0
30°	10193.4	10157.4	9953.5	9742.2	9529.3	9319.4	9121.6	8749.8	7634.5	7462.1	5642.3
32.5°	11125.7	11106.3	10879.9	10551.6	10191.9	9994.0	9593.7	9198.0	8153.2	7986.8	5964.6
35°	11824.3	11852.8	11603.9	11245.7	10852.9	10677.5	10172.4	9668.7	8689.8	8508.5	6315.4
37.5°	12320.5	12305.5	12085.1	11774.8	11430.1	11277.1	10848.4	10182.9	9267.0	9093.1	6699.1
40°	12497.4	12488.4	12325.0	12098.6	11879.8	11825.8	11556.0	10737.5	9928.0	9724.2	7160.8
42.5°	12384.9	12404.4	12296.5	12235.0	12194.6	12233.5	12259.0	11464.5	10649.1	10461.7	7661.5
45°	12040.2	12029.7	12014.7	12115.1	12343.0	12599.3	12954.6	12151.1	11433.0	11283.1	8333.1
47.5°	11424.1	11499.0	11536.5	11813.8	12311.5	12918.6	13755.0	13071.5	12570.8	12440.4	9356.9
50°	10562.1	10622.1	10843.9	11337.1	12079.1	13038.5	14537.5	14576.5	14468.6	14224.2	10469.2
52.5°	9216.0	9308.9	9766.1	10670.0	11602.4	12989.0	15011.2	15867.2	16009.6	15826.7	11565.0
55°	7709.5	7839.9	8322.6	9508.3	10945.9	12719.2	15338.0	16615.2	17183.3	17013.9	12620.3
57.5°	6234.4	6372.3	6868.5	8016.8	9800.6	12122.6	15552.4	17448.6	18781.3	18560.9	13933.4
60°	4672.5	4816.4	5242.1	6424.8	8169.7	10956.4	15407.0	18171.2	20377.7	20283.3	15248.1
62.5°	3014.5	3173.4	3543.7	4522.6	6279.4	9362.9	14629.0	18569.9	21759.8	21645.9	16207.4
65°	1836.3	1854.3	2058.2	2807.7	4297.7	7249.3	12849.6	18040.7	22488.3	22453.9	16499.7
67.5°	1187.2	1215.7	1308.6	1681.9	2576.8	5035.2	10274.3	16294.4	22062.6	22050.6	15895.6
70°	1002.8	1011.8	1053.8	1134.8	1497.5	3053.5	7214.8	13510.7	20445.2	20445.2	14443.1
72.5°	896.4	908.4	923.4	948.9	1068.8	1729.9	4305.2	10517.1	17652.5	17769.4	12293.5
75°	814.0	811.0	820.0	824.5	911.4	1130.3	2226.0	7778.4	13656.1	13422.3	8902.7
77.5°	697.0	701.5	697.0	716.5	805.0	860.4	1130.3	5219.6	8276.1	7973.3	4468.6
80°	572.6	580.1	587.6	599.6	688.1	653.6	679.1	2378.9	3061.0	2996.5	1380.6
82.5°	430.2	440.7	452.7	481.2	541.1	431.7	428.7	1016.3	1104.8	1011.8	508.2
85°	173.9	205.4	310.3	338.8	340.3	236.8	263.8	424.2	451.2	440.7	199.4
87.5°	40.5	48.0	100.4	151.4	139.4	88.4	97.4	137.9	157.4	145.4	67.5
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: P454908
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8
2.5°	2618.8	2566.3	2476.4	2407.4	2358.0	2314.5	2287.5	2271.0	2265.0	2263.5	2265.0
5°	2707.2	2614.3	2471.9	2381.9	2332.5	2304.0	2287.5	2286.0	2287.5	2289.0	2284.5
7.5°	2828.7	2695.2	2509.4	2425.4	2387.9	2367.0	2359.5	2356.5	2358.0	2356.5	2356.5
10°	2990.6	2807.7	2582.8	2495.9	2464.4	2440.4	2428.4	2420.9	2414.9	2408.9	2405.9
12.5°	3168.9	2932.1	2662.3	2578.3	2533.3	2495.9	2468.9	2449.4	2435.9	2422.4	2419.4
15°	3368.3	3064.0	2750.7	2633.8	2569.3	2513.9	2467.4	2435.9	2411.9	2392.4	2390.9
17.5°	3558.7	3188.4	2810.7	2659.3	2564.8	2486.9	2425.4	2381.9	2352.0	2326.5	2323.5
20°	3762.5	3306.8	2837.7	2642.8	2519.9	2425.4	2344.5	2292.0	2257.5	2229.0	2224.6
22.5°	3967.9	3407.3	2834.7	2590.3	2441.9	2331.0	2245.5	2190.1	2149.6	2121.1	2110.6
25°	4164.3	3488.2	2797.2	2506.4	2334.0	2218.6	2131.6	2080.6	2044.7	2010.2	2010.2
27.5°	4341.2	3536.2	2726.7	2404.4	2223.1	2101.6	2032.7	1986.2	1953.2	1930.7	1917.3
30°	4515.1	3558.7	2630.8	2275.5	2106.1	2002.7	1947.2	1920.2	1890.3	1864.8	1861.8
32.5°	4671.0	3554.2	2510.9	2149.6	1995.2	1921.7	1899.3	1878.3	1846.8	1810.8	1801.8
35°	4822.4	3524.2	2368.5	2011.7	1902.3	1873.8	1879.8	1849.8	1792.8	1747.9	1740.4
37.5°	4987.2	3470.2	2212.6	1899.3	1824.3	1851.3	1866.3	1800.3	1707.4	1636.9	1620.4
40°	5177.6	3408.8	2050.7	1786.8	1762.9	1830.3	1830.3	1708.9	1581.5	1538.0	1526.0
42.5°	5401.0	3357.8	1915.8	1692.4	1711.9	1779.3	1771.8	1587.5	1535.0	1512.5	1506.5
45°	5754.7	3339.8	1776.3	1610.0	1669.9	1719.4	1657.9	1545.5	1515.5	1497.5	1491.5
47.5°	6313.9	3360.8	1653.4	1548.5	1621.9	1659.4	1530.5	1517.0	1496.0	1470.5	1467.5
50°	6832.5	3341.3	1566.5	1514.0	1580.0	1587.5	1478.0	1482.5	1470.5	1442.1	1436.1
52.5°	7256.8	3279.9	1511.0	1496.0	1544.0	1461.5	1428.6	1445.1	1440.6	1404.6	1398.6
55°	7723.0	3242.4	1484.0	1496.0	1520.0	1352.1	1382.1	1406.1	1400.1	1374.6	1373.1
57.5°	8288.1	3249.9	1464.5	1500.5	1496.0	1296.7	1335.6	1364.1	1362.6	1355.1	1355.1
60°	8866.7	3252.9	1434.6	1499.0	1467.5	1253.2	1287.7	1328.1	1331.1	1335.6	1335.6
62.5°	9058.6	3122.5	1376.1	1472.0	1404.6	1211.2	1242.7	1298.2	1295.2	1307.1	1308.6
65°	8700.3	2761.2	1289.2	1410.6	1323.6	1181.2	1208.2	1259.2	1242.7	1274.2	1280.2
67.5°	7919.3	2284.5	1154.2	1299.7	1233.7	1149.8	1185.7	1205.2	1175.2	1236.7	1238.2
70°	6844.5	1783.8	983.4	1142.3	1131.8	1116.8	1167.7	1137.8	1095.8	1170.7	1155.7
72.5°	5723.3	1362.6	785.5	933.9	995.4	1067.3	1136.3	1050.8	992.4	1014.8	987.9
75°	4299.2	1007.3	631.1	731.5	829.0	996.9	1107.8	945.9	855.9	835.0	829.0
77.5°	2191.6	658.1	472.2	547.1	622.1	900.9	1068.8	823.0	709.0	676.1	661.1
80°	782.5	409.2	332.8	377.8	419.7	775.0	933.9	680.6	550.1	544.1	550.1
82.5°	362.8	263.8	223.4	247.3	248.8	517.2	712.0	508.2	418.2	635.6	536.7
85°	155.9	131.9	125.9	122.9	113.9	230.8	400.2	272.8	425.7	190.4	175.4
87.5°	46.5	52.5	46.5	34.5	25.5	25.5	40.5	15.0	10.5	7.5	7.5
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)