

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: P454212

Luminaire Tested: **GALN-SA5B-740-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454212
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-SA5B-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29041 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

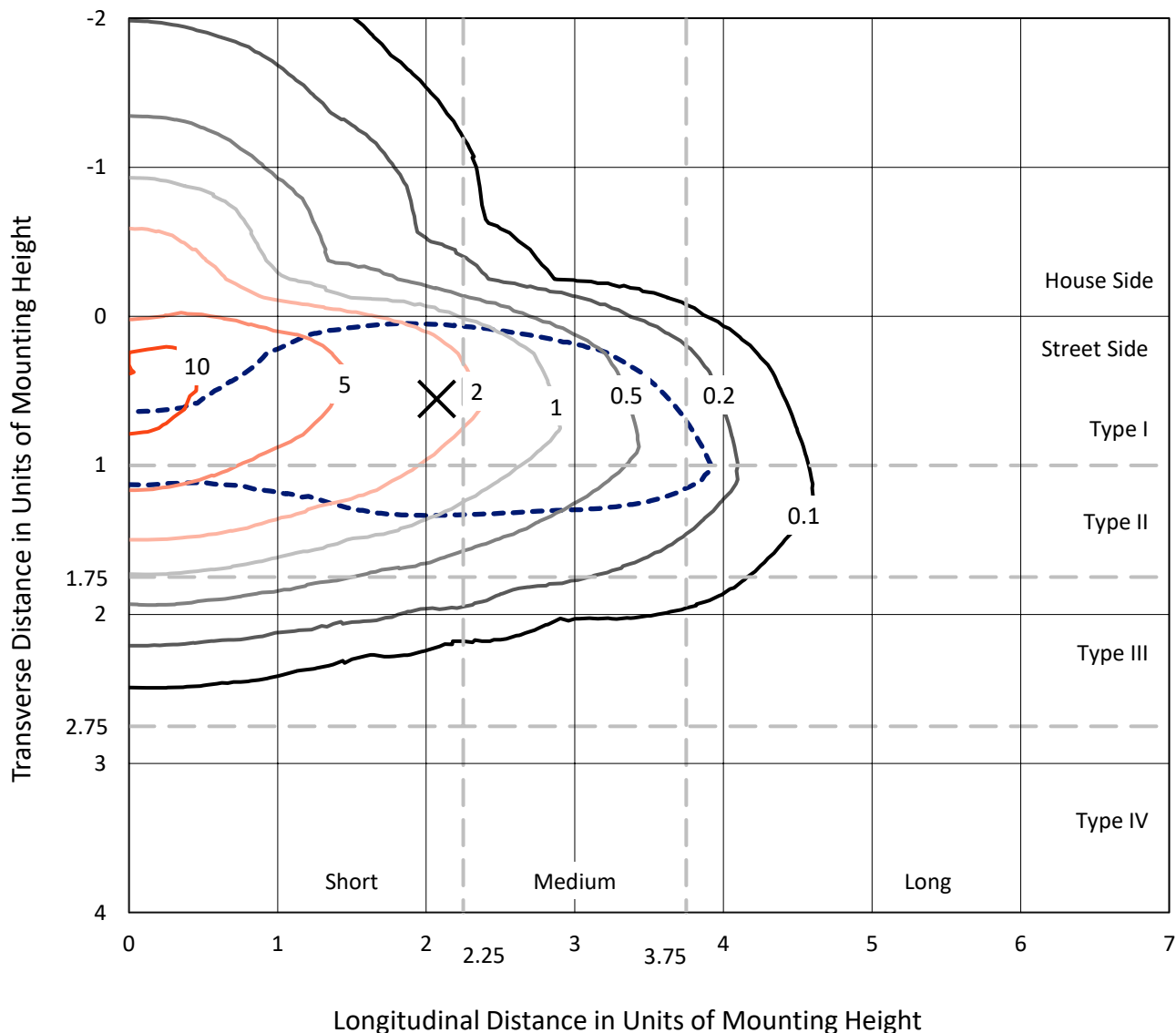
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454212
 CATALOG NUMBER: GALN-SA5B-740-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

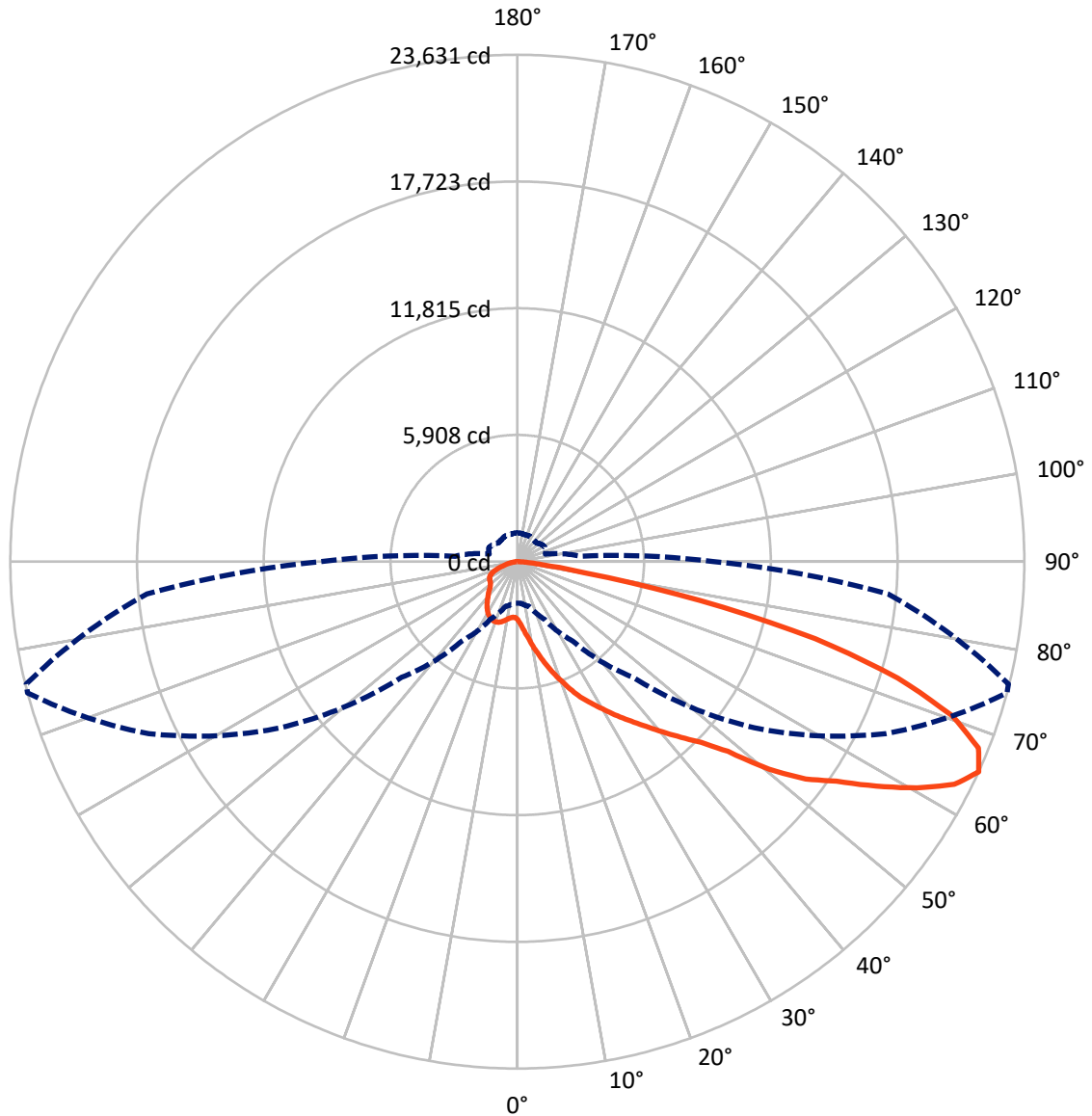
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

REPORT NUMBER: P454212
CATALOG NUMBER: GALN-SA5B-740-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P454212

CATALOG NUMBER: GALN-SA5B-740-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4882.2	0.0	4882.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	24158.8	0.0	24158.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	29041.0	0.0	29041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.8	1.1
10°-20°	1284.1	4.4
20°-30°	2480.4	8.5
30°-40°	4028.9	13.9
40°-50°	5542.1	19.1
50°-60°	6543.4	22.5
60°-70°	5733.1	19.7
70°-80°	2737.0	9.4
80°-90°	364.2	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°	29041.0	100.0
0°-180°	29041.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454212

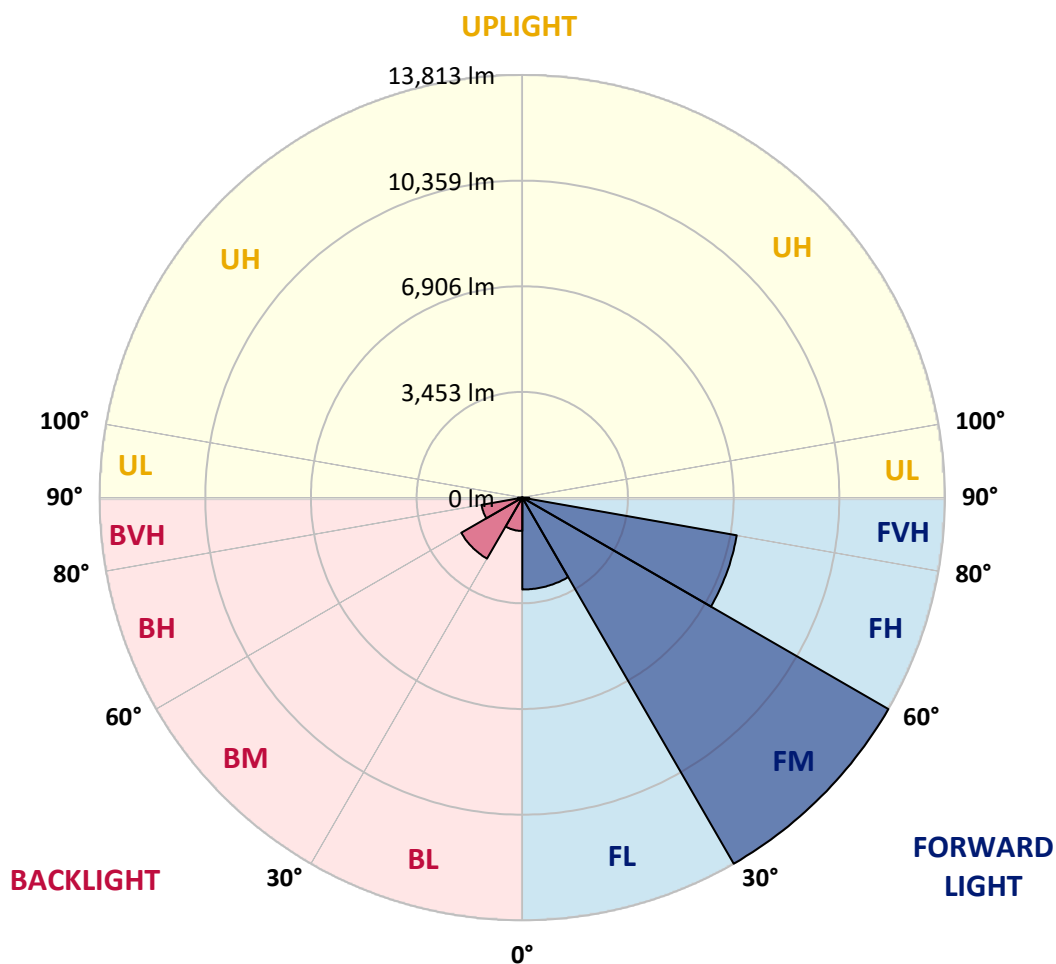
CATALOG NUMBER: GALN-SA5B-740-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3002.4	10.3			
FM	(30°-60°)	13812.5	47.6			
FH	(60°-80°)	7116.3	24.5			G3/7500
FVH	(80°-90°)	227.6	0.8			G3/500
BL	(0°-30°)	1089.9	3.8	B3/2500		
BM	(30°-60°)	2301.9	7.9	B2/2500		
BH	(60°-80°)	1353.7	4.7	B3/2500		G3/2500
BVH	(80°-90°)	136.6	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: P454212

CATALOG NUMBER: GALN-SA5B-740-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2698.3	2698.3	2698.3	2698.3	2698.3	2698.3	2698.3	2698.3	2698.3	2698.3	2698.3
2.5°	3585.1	3561.5	3536.3	3467.0	3392.9	3309.4	3189.7	3074.7	2922.0	2917.2	2803.8
5°	4579.0	4563.3	4451.4	4386.9	4215.2	3986.8	3793.0	3492.2	3213.4	3180.3	2959.8
7.5°	5492.6	5431.2	5388.7	5272.1	5102.0	4809.0	4434.1	4027.7	3561.5	3517.4	3151.9
10°	6181.0	6174.7	6152.6	6051.8	5924.2	5632.8	5217.0	4634.2	4002.5	3915.9	3385.1
12.5°	6696.1	6700.8	6697.6	6696.1	6604.7	6357.4	5906.9	5292.6	4448.3	4386.9	3654.4
15°	7034.7	7082.0	7100.9	7179.7	7187.5	7022.1	6634.6	5929.0	4950.8	4859.4	3944.2
17.5°	7258.4	7282.0	7370.2	7504.1	7612.8	7582.9	7237.9	6518.1	5464.3	5311.5	4245.1
20°	7472.6	7513.6	7581.3	7764.0	7956.2	8044.4	7801.8	7121.4	5973.1	5875.4	4577.5
22.5°	7918.4	7976.7	8000.3	8093.3	8257.1	8413.0	8302.8	7699.5	6530.7	6398.4	4930.3
25°	8672.9	8734.3	8668.2	8646.1	8699.7	8776.9	8753.3	8244.5	7056.8	6867.8	5264.2
27.5°	9655.8	9663.7	9534.5	9411.7	9279.4	9240.0	9167.5	8728.0	7513.6	7356.1	5599.7
30°	10711.2	10673.4	10459.2	10237.1	10013.4	9792.9	9584.9	9194.3	8022.4	7841.2	5929.0
32.5°	11691.0	11670.5	11432.6	11087.7	10709.6	10501.7	10081.1	9665.3	8567.4	8392.5	6267.6
35°	12425.0	12454.9	12193.4	11817.0	11404.3	11220.0	10689.1	10159.9	9131.3	8940.7	6636.2
37.5°	12946.4	12930.6	12699.1	12373.0	12010.7	11850.0	11399.5	10700.2	9737.7	9555.0	7039.5
40°	13132.2	13122.8	12951.1	12713.2	12483.3	12426.6	12143.0	11283.0	10432.4	10218.2	7524.6
42.5°	13014.1	13034.6	12921.2	12856.6	12814.1	12855.0	12881.8	12046.9	11190.0	10993.2	8050.7
45°	12651.8	12640.8	12625.0	12730.6	12970.0	13239.4	13612.7	12768.4	12013.9	11856.3	8756.4
47.5°	12004.4	12083.2	12122.6	12414.0	12936.9	13574.9	14453.8	13735.5	13209.4	13072.4	9832.2
50°	11098.7	11161.7	11394.8	11913.1	12692.8	13700.9	15276.1	15317.0	15203.6	14946.8	11001.0
52.5°	9684.2	9781.8	10262.3	11212.1	12191.9	13648.9	15773.8	16673.2	16822.9	16630.7	12152.5
55°	8101.1	8238.2	8745.4	9991.3	11501.9	13365.4	16117.2	17459.2	18056.2	17878.2	13261.4
57.5°	6551.2	6696.1	7217.5	8424.0	10298.5	12738.4	16342.4	18335.0	19735.4	19503.8	14641.3
60°	4909.8	5061.0	5508.4	6751.2	8584.7	11513.0	16189.7	19094.3	21412.9	21313.7	16022.7
62.5°	3167.7	3334.6	3723.7	4752.3	6598.4	9838.5	15372.1	19513.3	22865.2	22745.5	17030.8
65°	1929.6	1948.5	2162.7	2950.3	4516.0	7617.5	13502.4	18957.2	23630.8	23594.6	17338.0
67.5°	1247.5	1277.5	1375.1	1767.3	2707.7	5291.0	10796.3	17122.2	23183.4	23170.8	16703.2
70°	1053.8	1063.2	1107.3	1192.4	1573.6	3208.6	7581.3	14197.1	21483.8	21483.8	15176.8
72.5°	942.0	954.6	970.3	997.1	1123.1	1817.8	4523.9	11051.4	18549.3	18672.1	12918.0
75°	855.3	852.2	861.6	866.3	957.7	1187.7	2339.1	8173.6	14349.8	14104.1	9355.0
77.5°	732.5	737.2	732.5	752.9	845.9	904.2	1187.7	5484.8	8696.5	8378.4	4695.6
80°	601.7	609.6	617.5	630.1	723.0	686.8	713.6	2499.8	3216.5	3148.8	1450.7
82.5°	452.1	463.1	475.7	505.6	568.6	453.7	450.5	1068.0	1160.9	1063.2	534.0
85°	182.7	215.8	326.1	356.0	357.6	248.9	277.2	445.8	474.1	463.1	209.5
87.5°	42.5	50.4	105.5	159.1	146.5	92.9	102.4	144.9	165.4	152.8	70.9
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: P454212
 CATALOG NUMBER: GALN-SA5B-740-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2698.3	2698.3	2698.3	2698.3	2698.3	2698.3	2698.3	2698.3	2698.3	2698.3	2698.3
2.5°	2751.8	2696.7	2602.2	2529.7	2477.8	2432.1	2403.7	2386.4	2380.1	2378.5	2380.1
5°	2844.8	2747.1	2597.5	2503.0	2451.0	2421.0	2403.7	2402.1	2403.7	2405.3	2400.6
7.5°	2972.4	2832.2	2636.8	2548.6	2509.3	2487.2	2479.3	2476.2	2477.8	2476.2	2476.2
10°	3142.5	2950.3	2714.0	2622.7	2589.6	2564.4	2551.8	2543.9	2537.6	2531.3	2528.2
12.5°	3329.9	3081.0	2797.5	2709.3	2662.0	2622.7	2594.3	2573.8	2559.7	2545.5	2542.3
15°	3539.4	3219.7	2890.4	2767.6	2699.9	2641.6	2592.7	2559.7	2534.5	2514.0	2512.4
17.5°	3739.5	3350.4	2953.5	2794.4	2695.1	2613.2	2548.6	2503.0	2471.5	2444.7	2441.5
20°	3953.7	3474.8	2981.8	2777.0	2647.9	2548.6	2463.6	2408.4	2372.2	2342.3	2337.6
22.5°	4169.5	3580.4	2978.7	2721.9	2566.0	2449.4	2359.6	2301.3	2258.8	2228.9	2217.8
25°	4375.8	3665.4	2939.3	2633.7	2452.5	2331.3	2239.9	2186.3	2148.5	2112.3	2112.3
27.5°	4561.7	3715.8	2865.2	2526.6	2336.0	2208.4	2135.9	2087.1	2052.5	2028.8	2014.6
30°	4744.4	3739.5	2764.4	2391.1	2213.1	2104.4	2046.2	2017.8	1986.3	1959.5	1956.4
32.5°	4908.2	3734.7	2638.4	2258.8	2096.6	2019.4	1995.7	1973.7	1940.6	1902.8	1893.4
35°	5067.3	3703.2	2488.8	2113.9	1998.9	1969.0	1975.3	1943.8	1883.9	1836.7	1828.8
37.5°	5240.6	3646.5	2325.0	1995.7	1917.0	1945.3	1961.1	1891.8	1794.1	1720.1	1702.8
40°	5440.7	3581.9	2154.8	1877.6	1852.4	1923.3	1923.3	1795.7	1661.8	1616.1	1603.5
42.5°	5675.4	3528.4	2013.1	1778.4	1798.9	1869.7	1861.9	1668.1	1613.0	1589.4	1583.1
45°	6047.1	3509.5	1866.6	1691.7	1754.7	1806.7	1742.1	1624.0	1592.5	1573.6	1567.3
47.5°	6634.6	3531.5	1737.4	1627.2	1704.3	1743.7	1608.3	1594.1	1572.0	1545.2	1542.1
50°	7179.7	3511.1	1646.1	1590.9	1660.2	1668.1	1553.1	1557.8	1545.2	1515.3	1509.0
52.5°	7625.4	3446.5	1587.8	1572.0	1622.4	1535.8	1501.1	1518.5	1513.7	1475.9	1469.6
55°	8115.3	3407.1	1559.4	1572.0	1597.2	1420.8	1452.3	1477.5	1471.2	1444.4	1442.9
57.5°	8709.1	3415.0	1538.9	1576.8	1572.0	1362.5	1403.5	1433.4	1431.8	1424.0	1424.0
60°	9317.2	3418.1	1507.4	1575.2	1542.1	1316.8	1353.1	1395.6	1398.8	1403.5	1403.5
62.5°	9518.8	3281.1	1446.0	1546.8	1475.9	1272.7	1305.8	1364.1	1361.0	1373.6	1375.1
65°	9142.3	2901.5	1354.7	1482.2	1390.9	1241.2	1269.6	1323.1	1305.8	1338.9	1345.2
67.5°	8321.7	2400.6	1212.9	1365.7	1296.4	1208.2	1246.0	1266.4	1234.9	1299.5	1301.1
70°	7192.3	1874.5	1033.3	1200.3	1189.3	1173.5	1227.1	1195.6	1151.5	1230.2	1214.5
72.5°	6014.0	1431.8	825.4	981.3	1045.9	1121.5	1194.0	1104.2	1042.8	1066.4	1038.0
75°	4517.6	1058.5	663.1	768.7	871.1	1047.5	1164.1	993.9	899.4	877.4	871.1
77.5°	2302.9	691.5	496.2	574.9	653.7	946.7	1123.1	864.8	745.1	710.4	694.7
80°	822.2	430.0	349.7	396.9	441.0	814.4	981.3	715.1	578.1	571.8	578.1
82.5°	381.2	277.2	234.7	259.9	261.5	543.4	748.2	534.0	439.5	667.9	563.9
85°	163.8	138.6	132.3	129.2	119.7	242.6	420.6	286.7	447.3	200.0	184.3
87.5°	48.8	55.1	48.8	36.2	26.8	26.8	42.5	15.8	11.0	7.9	7.9
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)