

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: P455111

Luminaire Tested: **GALN-SA6B-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455111
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-SA6B-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 31318 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

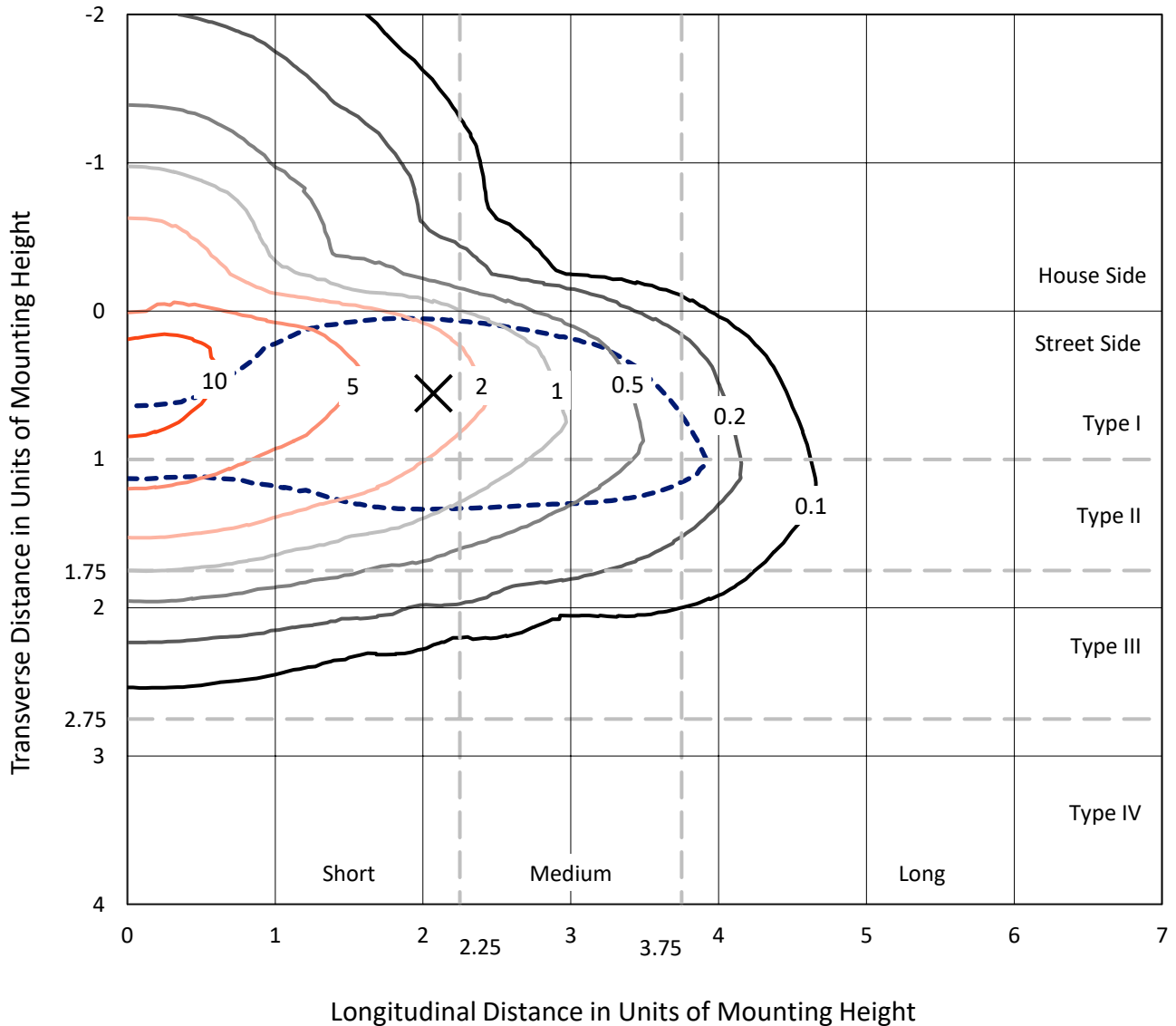
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

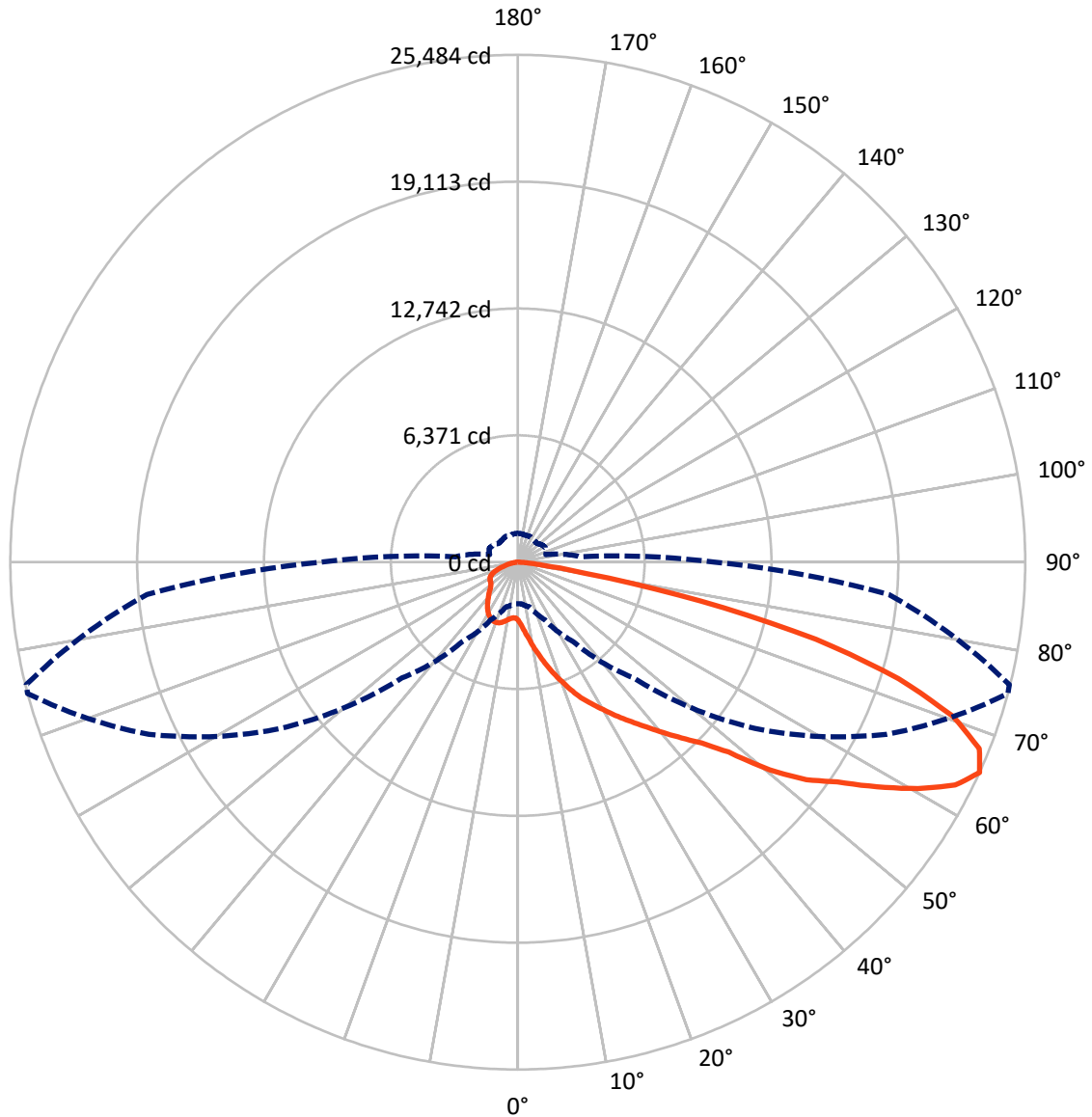
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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	5265.0	0.0	5265.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	26053.0	0.0	26053.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	31318.0	0.0	31318.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.5	1.1
10°-20°	1384.8	4.4
20°-30°	2674.9	8.5
30°-40°	4344.8	13.9
40°-50°	5976.7	19.1
50°-60°	7056.4	22.5
60°-70°	6182.6	19.7
70°-80°	2951.6	9.4
80°-90°	392.8	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°	31318.0	100.0
0°-180°	31318.0	100.0



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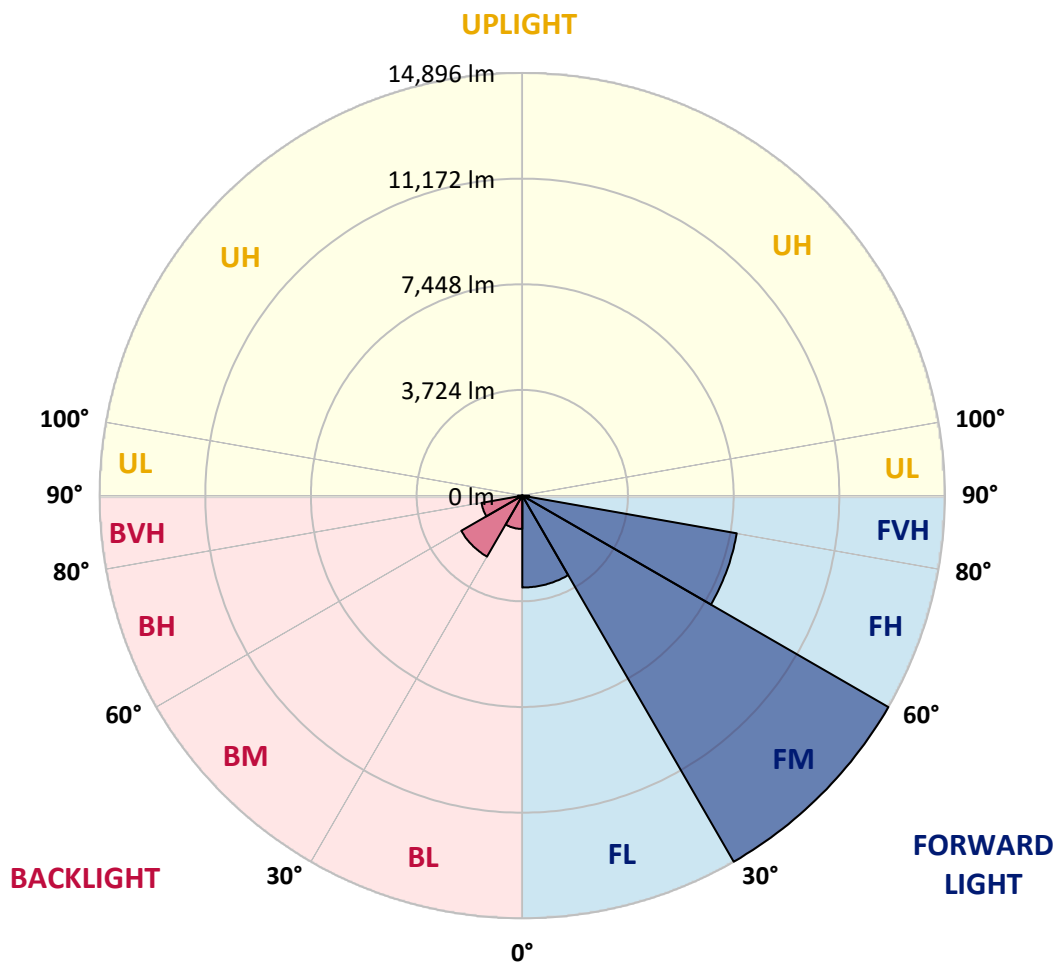
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3237.8	10.3			
FM	(30°-60°)	14895.5	47.6			
FH	(60°-80°)	7674.3	24.5			G4/12000
FVH	(80°-90°)	245.4	0.8			G3/500
BL	(0°-30°)	1175.4	3.8	B3/2500		
BM	(30°-60°)	2482.4	7.9	B2/2500		
BH	(60°-80°)	1459.9	4.7	B3/2500		G3/2500
BVH	(80°-90°)	147.3	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2909.8	2909.8	2909.8	2909.8	2909.8	2909.8	2909.8	2909.8	2909.8	2909.8	2909.8
2.5°	3866.2	3840.7	3813.5	3738.8	3659.0	3568.9	3439.8	3315.8	3151.1	3146.0	3023.6
5°	4938.1	4921.1	4800.5	4730.8	4545.7	4299.4	4090.4	3766.0	3465.3	3429.6	3191.8
7.5°	5923.3	5857.0	5811.2	5685.5	5502.0	5186.1	4781.8	4343.5	3840.7	3793.2	3399.1
10°	6665.6	6658.8	6635.0	6526.3	6388.7	6074.5	5626.0	4997.5	4316.3	4222.9	3650.5
12.5°	7221.1	7226.2	7222.8	7221.1	7122.6	6855.9	6370.0	5707.6	4797.1	4730.8	3940.9
15°	7586.3	7637.3	7657.6	7742.6	7751.1	7572.7	7154.8	6393.8	5338.9	5240.4	4253.5
17.5°	7827.5	7853.0	7948.1	8092.5	8209.7	8177.4	7805.4	7029.1	5892.7	5727.9	4577.9
20°	8058.5	8102.7	8175.7	8372.8	8580.0	8675.2	8413.6	7679.7	6441.4	6336.1	4936.4
22.5°	8539.3	8602.1	8627.6	8727.8	8904.5	9072.6	8953.7	8303.1	7042.7	6900.0	5316.9
25°	9352.9	9419.2	9347.8	9324.1	9381.8	9465.0	9439.6	8890.9	7610.1	7406.2	5677.0
27.5°	10412.9	10421.4	10282.1	10149.6	10006.9	9964.5	9886.3	9412.4	8102.7	7932.8	6038.8
30°	11551.0	11510.3	11279.2	11039.7	10798.5	10560.7	10336.5	9915.2	8651.4	8456.0	6393.8
32.5°	12607.6	12585.5	12329.0	11957.0	11549.3	11325.1	10871.5	10423.1	9239.1	9050.6	6759.0
35°	13399.2	13431.5	13149.5	12743.5	12298.4	12099.7	11527.2	10956.5	9847.2	9641.7	7156.5
37.5°	13961.4	13944.5	13694.8	13343.1	12952.4	12779.2	12293.3	11539.1	10501.2	10304.2	7591.4
40°	14161.9	14151.7	13966.5	13710.0	13462.0	13400.9	13095.1	12167.6	11250.4	11019.3	8114.6
42.5°	14034.5	14056.6	13934.3	13864.6	13818.8	13862.9	13891.8	12991.5	12067.4	11855.1	8682.0
45°	13643.8	13631.9	13614.9	13728.7	13986.9	14277.4	14680.0	13769.5	12955.8	12786.0	9443.0
47.5°	12945.6	13030.6	13073.0	13387.3	13951.3	14639.2	15587.1	14812.5	14245.1	14097.3	10603.2
50°	11968.9	12036.8	12288.2	12847.1	13688.0	14775.1	16473.8	16518.0	16395.7	16118.8	11863.6
52.5°	10443.5	10548.8	11066.9	12091.2	13147.8	14719.1	17010.6	17980.5	18141.9	17934.7	13105.3
55°	8736.3	8884.1	9431.1	10774.7	12403.8	14413.3	17380.9	18828.2	19472.0	19280.0	14301.2
57.5°	7064.8	7221.1	7783.3	9084.5	11106.0	13737.2	17623.8	19772.6	21282.8	21033.0	15789.2
60°	5294.8	5457.9	5940.3	7280.5	9257.8	12415.6	17459.0	20591.4	23091.8	22984.8	17279.0
62.5°	3416.0	3596.1	4015.7	5124.9	7115.8	10610.0	16577.4	21043.2	24658.0	24528.9	18366.1
65°	2080.9	2101.3	2332.3	3181.6	4870.1	8214.8	14561.1	20443.6	25483.6	25444.5	18697.4
67.5°	1345.4	1377.6	1482.9	1905.9	2920.0	5705.9	11642.7	18464.6	25001.2	24987.6	18012.8
70°	1136.4	1146.6	1194.2	1285.9	1697.0	3460.2	8175.7	15310.2	23168.3	23168.3	16366.8
72.5°	1015.8	1029.4	1046.4	1075.3	1211.2	1960.3	4878.6	11917.9	20003.6	20136.1	13930.9
75°	922.4	919.0	929.2	934.3	1032.8	1280.8	2522.5	8814.4	15475.0	15210.0	10088.5
77.5°	789.9	795.0	789.9	812.0	912.2	975.0	1280.8	5914.8	9378.4	9035.3	5063.8
80°	648.9	657.4	665.9	679.5	779.7	740.6	769.5	2695.8	3468.7	3395.7	1564.5
82.5°	487.5	499.4	513.0	545.3	613.2	489.2	485.8	1151.7	1251.9	1146.6	575.9
85°	197.0	232.7	351.6	383.9	385.6	268.4	299.0	480.7	511.3	499.4	225.9
87.5°	45.9	54.4	113.8	171.6	158.0	100.2	110.4	156.3	178.4	164.8	76.4
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°	2909.8	2909.8	2909.8	2909.8	2909.8	2909.8	2909.8	2909.8	2909.8	2909.8	2909.8
2.5°	2967.6	2908.1	2806.2	2728.1	2672.0	2622.8	2592.2	2573.5	2566.7	2565.0	2566.7
5°	3067.8	2962.5	2801.1	2699.2	2643.1	2610.9	2592.2	2590.5	2592.2	2593.9	2588.8
7.5°	3205.4	3054.2	2843.6	2748.5	2706.0	2682.2	2673.7	2670.3	2672.0	2670.3	2670.3
10°	3388.9	3181.6	2926.8	2828.3	2792.6	2765.5	2751.9	2743.4	2736.6	2729.8	2726.4
12.5°	3591.0	3322.6	3016.9	2921.7	2870.8	2828.3	2797.7	2775.6	2760.4	2745.1	2741.7
15°	3816.9	3472.1	3117.1	2984.6	2911.5	2848.7	2796.0	2760.4	2733.2	2711.1	2709.4
17.5°	4032.7	3613.1	3185.0	3013.5	2906.4	2818.1	2748.5	2699.2	2665.2	2636.4	2633.0
20°	4263.7	3747.3	3215.6	2994.8	2855.5	2748.5	2656.7	2597.3	2558.2	2525.9	2520.8
22.5°	4496.4	3861.1	3212.2	2935.3	2767.1	2641.4	2544.6	2481.8	2435.9	2403.6	2391.7
25°	4718.9	3952.8	3169.7	2840.2	2644.8	2514.0	2415.5	2357.8	2317.0	2277.9	2277.9
27.5°	4919.4	4007.2	3089.9	2724.7	2519.1	2381.5	2303.4	2250.8	2213.4	2187.9	2172.6
30°	5116.4	4032.7	2981.2	2578.6	2386.6	2269.4	2206.6	2176.0	2142.0	2113.2	2109.8
32.5°	5293.1	4027.6	2845.3	2435.9	2260.9	2177.7	2152.2	2128.4	2092.8	2052.0	2041.8
35°	5464.7	3993.6	2683.9	2279.6	2155.6	2123.3	2130.1	2096.2	2031.6	1980.7	1972.2
37.5°	5651.5	3932.4	2507.3	2152.2	2067.3	2097.9	2114.9	2040.1	1934.8	1855.0	1836.3
40°	5867.2	3862.8	2323.8	2024.8	1997.6	2074.1	2074.1	1936.5	1792.1	1742.8	1729.3
42.5°	6120.3	3805.0	2170.9	1917.8	1939.9	2016.3	2007.8	1798.9	1739.4	1714.0	1707.2
45°	6521.2	3784.7	2012.9	1824.4	1892.3	1948.4	1878.7	1751.3	1717.4	1697.0	1690.2
47.5°	7154.8	3808.4	1873.6	1754.7	1838.0	1880.4	1734.4	1719.1	1695.3	1666.4	1663.0
50°	7742.6	3786.4	1775.1	1715.7	1790.4	1798.9	1674.9	1680.0	1666.4	1634.1	1627.3
52.5°	8223.3	3716.7	1712.3	1695.3	1749.6	1656.2	1618.8	1637.5	1632.4	1591.7	1584.9
55°	8751.6	3674.2	1681.7	1695.3	1722.5	1532.2	1566.2	1593.4	1586.6	1557.7	1556.0
57.5°	9392.0	3682.7	1659.6	1700.4	1695.3	1469.4	1513.5	1545.8	1544.1	1535.6	1535.6
60°	10047.7	3686.1	1625.6	1698.7	1663.0	1420.1	1459.2	1505.0	1508.4	1513.5	1513.5
62.5°	10265.1	3538.3	1559.4	1668.1	1591.7	1372.5	1408.2	1471.1	1467.7	1481.2	1482.9
65°	9859.1	3129.0	1460.9	1598.5	1499.9	1338.6	1369.1	1426.9	1408.2	1443.9	1450.7
67.5°	8974.1	2588.8	1308.0	1472.8	1398.0	1302.9	1343.7	1365.7	1331.8	1401.4	1403.1
70°	7756.2	2021.4	1114.3	1294.4	1282.5	1265.5	1323.3	1289.3	1241.7	1326.7	1309.7
72.5°	6485.6	1544.1	890.1	1058.3	1127.9	1209.5	1287.6	1190.8	1124.5	1150.0	1119.4
75°	4871.8	1141.5	715.1	829.0	939.4	1129.6	1255.3	1071.9	969.9	946.2	939.4
77.5°	2483.5	745.7	535.1	620.0	705.0	1020.9	1211.2	932.6	803.5	766.1	749.1
80°	886.7	463.7	377.1	428.1	475.6	878.2	1058.3	771.2	623.4	616.6	623.4
82.5°	411.1	299.0	253.1	280.3	282.0	586.0	806.9	575.9	473.9	720.2	608.1
85°	176.7	149.5	142.7	139.3	129.1	261.6	453.5	309.2	482.4	215.7	198.7
87.5°	52.7	59.5	52.7	39.1	28.9	28.9	45.9	17.0	11.9	8.5	8.5
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)