

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: P522760

Luminaire Tested: **GALN-SA5A-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21349 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

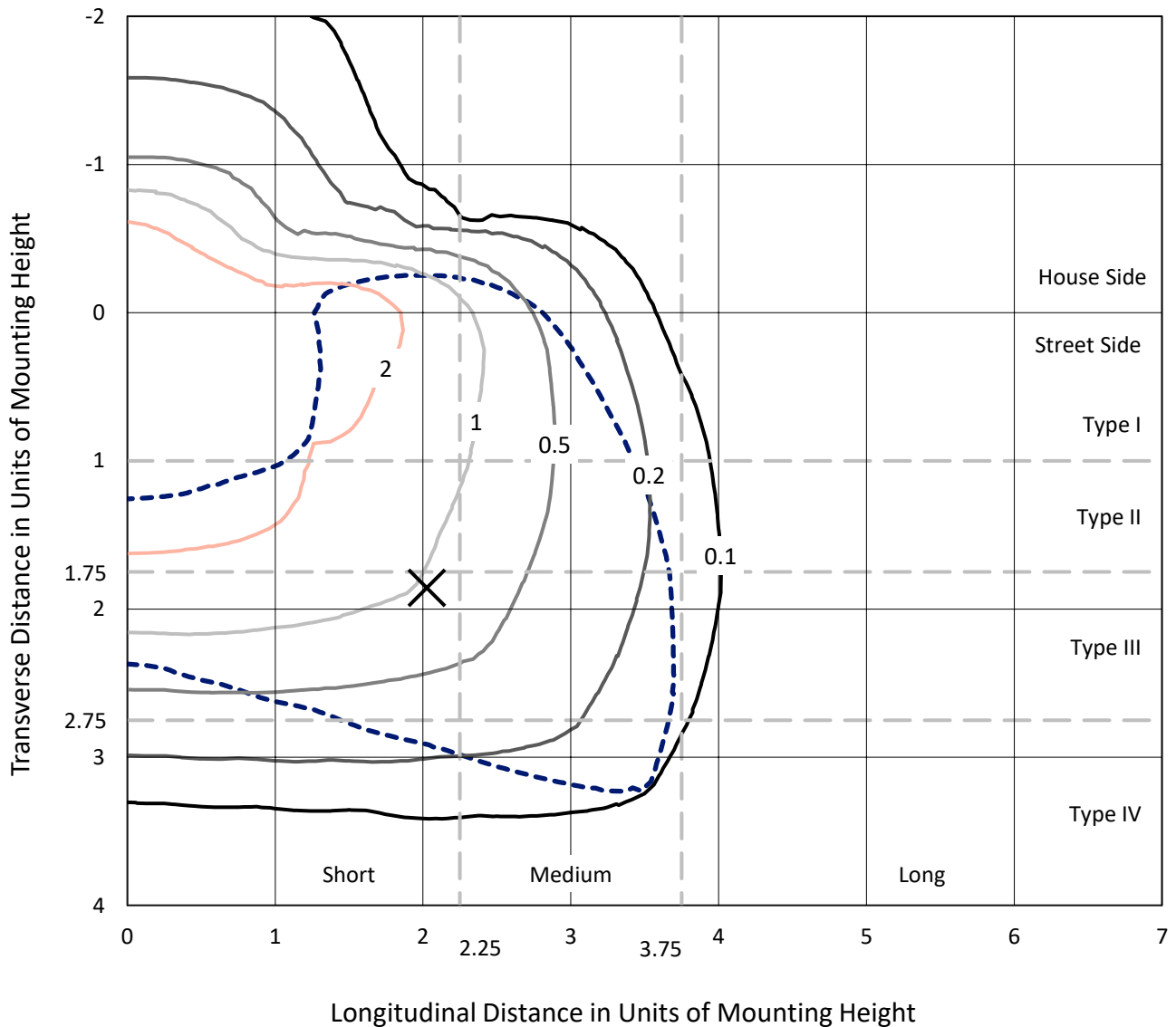
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

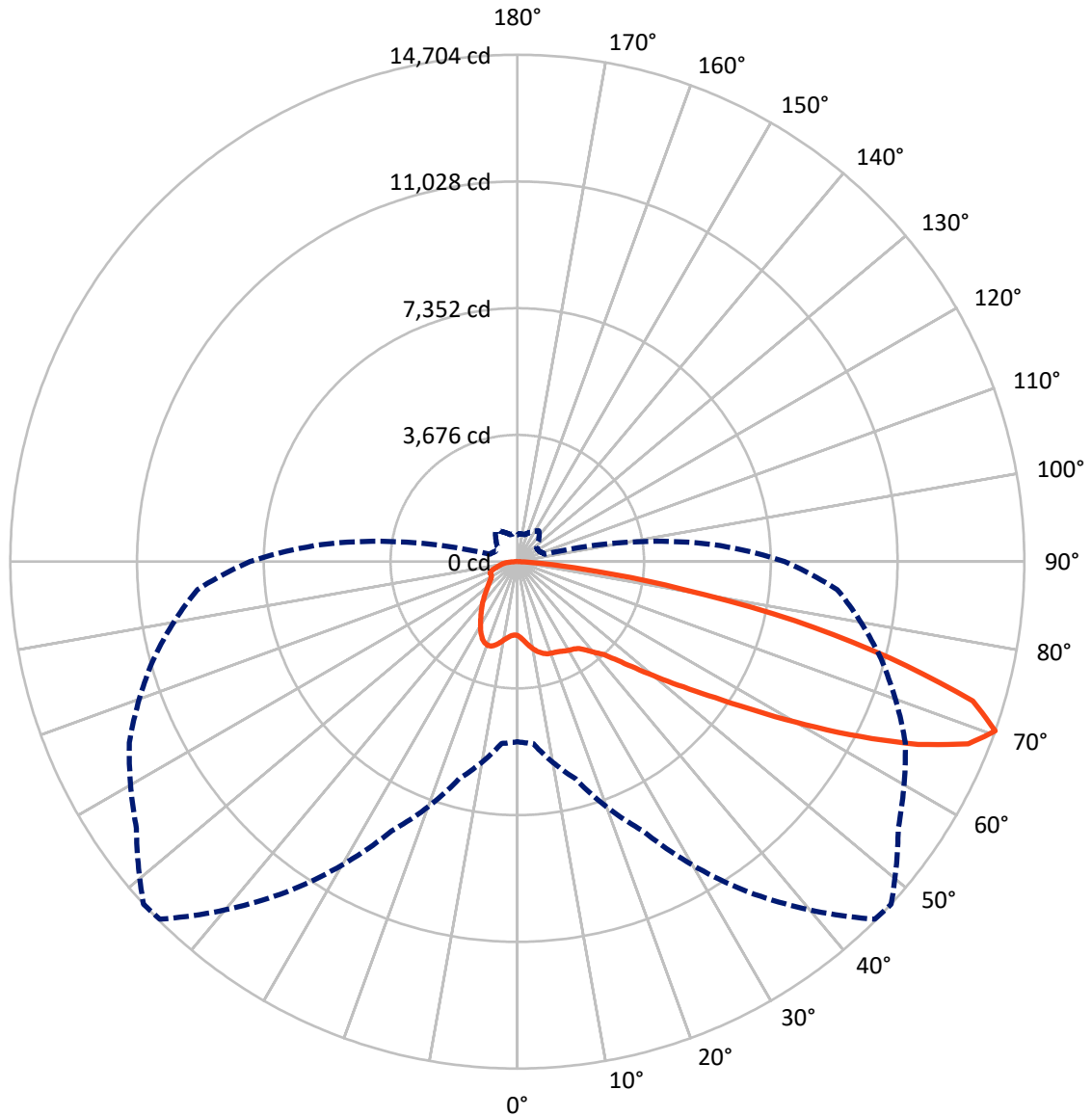
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4833.8	0.0	4833.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	16515.2	0.0	16515.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	21349.0	0.0	21349.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.9	1.0
10°-20°	738.5	3.5
20°-30°	1228.2	5.8
30°-40°	1740.8	8.2
40°-50°	2569.8	12.0
50°-60°	4450.9	20.8
60°-70°	6287.1	29.4
70°-80°	3614.2	16.9
80°-90°	498.7	2.3
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°	21349.0	100.0
0°-180°	21349.0	100.0

Coefficient of Utilization



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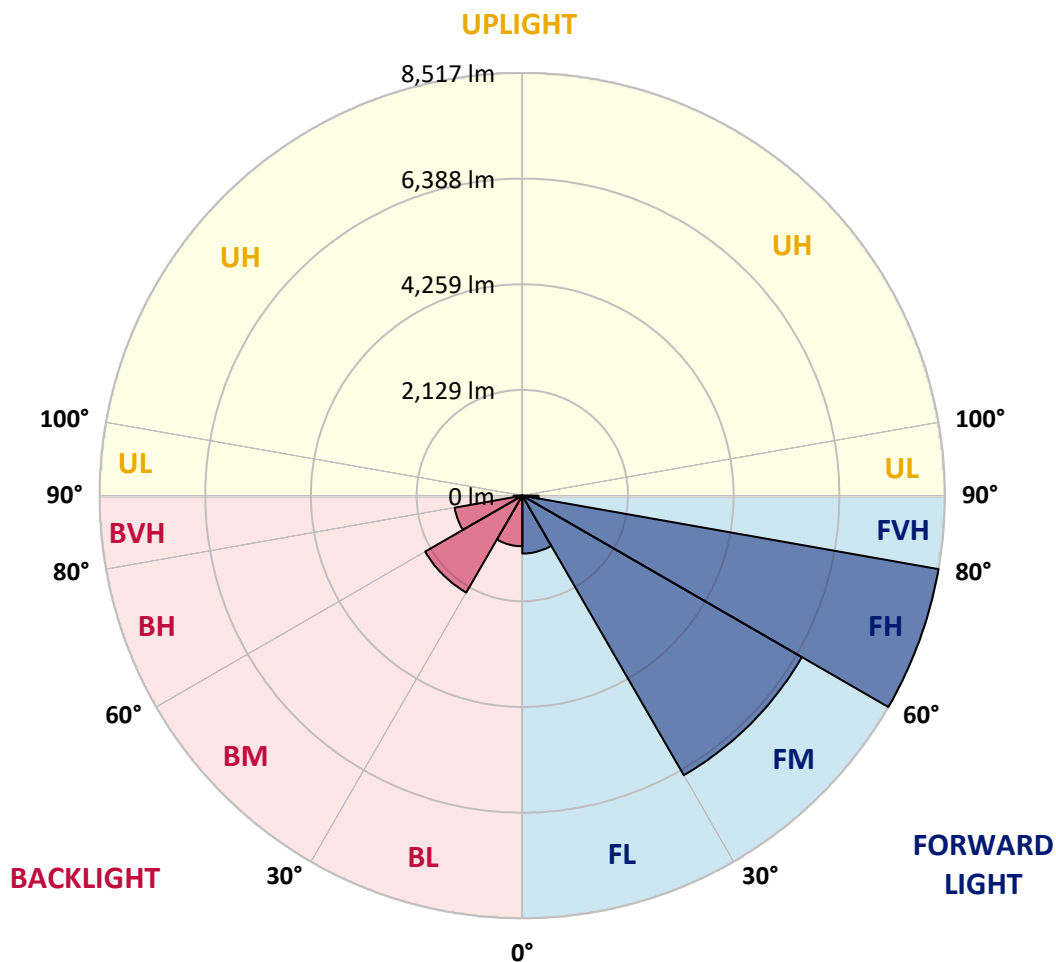
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1167.4	5.5			
FM	(30°-60°)	6504.6	30.5			
FH	(60°-80°)	8517.4	39.9			G4/12000
FVH	(80°-90°)	325.7	1.5			G3/500
BL	(0°-30°)	1020.2	4.8	B3/2500		
BM	(30°-60°)	2256.8	10.6	B2/2500		
BH	(60°-80°)	1383.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	172.9	0.8			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2
2.5°	2281.4	2273.4	2272.3	2255.1	2246.0	2228.9	2222.0	2206.0	2186.6	2167.2	2148.9
5°	2460.8	2460.8	2452.8	2428.8	2391.1	2352.2	2335.1	2304.3	2249.4	2204.9	2167.2
7.5°	2644.7	2647.0	2631.0	2595.6	2541.9	2479.1	2463.1	2417.4	2339.7	2274.6	2218.6
10°	2803.5	2803.5	2781.8	2733.8	2666.4	2597.9	2581.9	2530.5	2443.6	2362.5	2289.4
12.5°	2924.6	2924.6	2896.0	2833.2	2760.1	2698.4	2680.1	2631.0	2549.9	2459.6	2367.1
15°	3003.4	2997.7	2965.7	2894.9	2824.1	2770.4	2757.8	2716.7	2642.4	2551.0	2447.1
17.5°	3006.9	3004.6	2973.7	2914.3	2852.6	2816.1	2808.1	2780.7	2722.4	2635.6	2525.9
20°	2940.6	2945.2	2924.6	2882.3	2852.6	2836.6	2833.2	2824.1	2782.9	2701.8	2592.2
22.5°	2869.8	2877.8	2858.3	2835.5	2833.2	2849.2	2851.5	2853.8	2827.5	2748.7	2648.1
25°	2852.6	2858.3	2838.9	2818.4	2830.9	2873.2	2882.3	2891.5	2870.9	2804.6	2714.4
27.5°	2939.5	2934.9	2897.2	2852.6	2860.6	2917.7	2930.3	2940.6	2930.3	2873.2	2796.6
30°	3185.1	3170.2	3094.8	2964.6	2923.5	2963.4	2976.0	3004.6	3004.6	2962.3	2885.8
32.5°	3596.3	3567.8	3429.5	3173.6	3030.8	3006.9	3019.4	3066.3	3090.3	3057.1	2973.7
35°	4095.6	4065.9	3868.2	3524.4	3227.3	3093.7	3090.3	3142.8	3206.8	3132.5	3024.0
37.5°	4597.1	4566.3	4328.6	3942.5	3514.1	3276.5	3255.9	3274.2	3301.6	3165.6	3093.7
40°	5098.6	5062.1	4854.1	4409.7	3864.8	3518.7	3465.0	3382.7	3371.3	3274.2	3228.5
42.5°	5595.6	5562.5	5457.3	4934.1	4285.2	3755.1	3672.9	3531.2	3574.6	3516.4	3476.4
45°	6097.1	6099.4	5987.4	5522.5	4792.5	4191.5	4080.7	3859.1	3961.9	3940.2	3963.1
47.5°	6541.5	6535.8	6495.8	6093.7	5421.9	4753.6	4610.8	4353.8	4529.7	4609.7	4784.5
50°	6972.2	6968.8	6971.1	6741.4	6153.1	5421.9	5264.3	4994.7	5391.1	5668.7	5981.7
52.5°	7589.1	7608.5	7470.3	7409.7	7041.9	6211.3	6037.7	5758.9	6409.0	6846.5	7457.7
55°	8208.3	8192.3	8083.8	8146.6	7971.8	7145.8	6964.2	6742.6	7542.3	8020.9	8939.4
57.5°	8572.7	8578.4	8689.3	8996.6	9120.0	8311.1	8146.6	7975.2	8816.1	9155.4	10257.8
60°	8900.6	8926.9	9245.6	9826.0	10160.7	9742.6	9596.3	9429.5	9984.8	10119.6	11402.5
62.5°	9003.4	9084.5	9640.9	10509.1	11175.2	11358.0	11176.3	10808.4	11097.5	11044.9	12178.2
65°	8490.5	8601.3	9598.6	10765.0	12081.1	12891.1	12775.7	12092.5	12045.7	11729.2	12305.0
67.5°	7140.1	7250.9	8531.6	10228.1	12455.8	14218.6	14103.2	13029.3	12621.5	11793.2	11345.4
70°	5224.3	5294.0	6518.7	8611.6	11703.0	14664.1	14704.1	13486.3	12415.8	10923.8	9315.3
72.5°	3010.3	3164.5	4022.5	6058.3	9560.9	13537.7	13815.3	12535.8	11115.8	9113.1	6512.9
75°	1294.4	1297.8	1859.9	3341.6	6475.2	10881.6	11150.0	10391.5	8729.2	6301.6	3477.5
77.5°	615.8	627.2	818.0	1492.0	3564.4	7518.3	8242.6	7341.2	5583.0	3027.4	1313.8
80°	399.8	407.8	500.4	740.3	1747.9	4359.5	4864.4	4235.0	2463.1	1081.9	566.6
82.5°	242.2	244.5	334.7	452.4	961.9	1974.1	2327.1	1838.2	1051.0	647.8	333.6
85°	147.4	148.5	203.4	279.9	583.8	682.0	700.3	694.6	616.9	423.8	178.2
87.5°	70.8	73.1	105.1	132.5	229.6	211.3	199.9	231.9	291.3	228.5	76.5
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°	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2
2.5°	2140.9	2137.5	2129.5	2126.0	2123.8	2124.9	2123.8	2123.8	2124.9	2124.9	2124.9
5°	2151.2	2145.5	2132.9	2132.9	2139.8	2155.7	2170.6	2182.0	2194.6	2193.4	2193.4
7.5°	2195.7	2185.5	2170.6	2175.2	2192.3	2217.4	2243.7	2268.8	2294.0	2296.3	2295.1
10°	2260.9	2250.6	2234.6	2240.3	2267.7	2305.4	2338.5	2375.1	2402.5	2410.5	2408.2
12.5°	2335.1	2314.5	2300.8	2316.8	2360.2	2410.5	2442.5	2469.9	2489.3	2500.8	2496.2
15°	2410.5	2391.1	2375.1	2408.2	2460.8	2507.6	2523.6	2528.2	2531.6	2543.0	2540.7
17.5°	2483.6	2457.3	2451.6	2495.0	2545.3	2565.9	2556.7	2537.3	2522.5	2531.6	2530.5
20°	2548.7	2528.2	2525.9	2569.3	2588.7	2569.3	2530.5	2496.2	2469.9	2472.2	2471.1
22.5°	2610.4	2594.4	2596.7	2615.0	2584.2	2517.9	2453.9	2407.1	2378.5	2384.2	2387.7
25°	2679.0	2663.0	2668.7	2639.0	2537.3	2421.9	2329.4	2289.4	2278.0	2289.4	2297.4
27.5°	2768.1	2757.8	2754.4	2640.1	2453.9	2280.3	2175.2	2160.3	2170.6	2195.7	2208.3
30°	2864.1	2864.1	2845.8	2620.7	2339.7	2110.1	2018.7	2020.9	2056.4	2091.8	2104.3
32.5°	2956.6	2976.0	2918.9	2568.2	2192.3	1944.4	1874.7	1877.0	1907.8	1951.3	1962.7
35°	3033.1	3089.1	2981.7	2472.2	2018.7	1805.0	1752.5	1721.6	1722.8	1755.9	1765.0
37.5°	3138.2	3242.2	3018.3	2329.4	1833.6	1686.2	1626.8	1573.1	1537.7	1524.0	1524.0
40°	3321.0	3474.1	3027.4	2118.0	1658.8	1573.1	1488.6	1424.6	1356.1	1294.4	1282.9
42.5°	3630.6	3823.7	3009.1	1874.7	1501.1	1448.6	1366.3	1287.5	1192.7	1105.9	1099.0
45°	4179.0	4278.4	2960.0	1622.2	1360.6	1328.6	1248.7	1163.0	1062.5	984.8	979.1
47.5°	5057.5	4917.0	2894.9	1398.3	1232.7	1223.5	1161.8	1062.5	961.9	908.2	902.5
50°	6340.4	5922.3	2885.8	1236.1	1129.9	1134.4	1084.2	992.8	904.8	860.2	853.4
52.5°	7885.0	7136.7	2946.3	1121.9	1039.6	1056.7	1031.6	947.1	869.4	831.7	824.8
55°	9383.9	8228.9	2982.9	1032.7	955.1	987.1	990.5	919.6	848.8	811.1	806.5
57.5°	10600.5	9051.4	2820.6	951.6	881.9	931.1	956.2	903.7	838.5	810.0	805.4
60°	11447.1	9439.8	2359.1	879.7	828.3	886.5	943.6	904.8	863.7	867.1	869.4
62.5°	11716.7	9267.3	1769.6	826.0	791.7	871.7	964.2	951.6	909.4	935.6	940.2
65°	11270.0	8554.5	1282.9	783.7	759.7	881.9	1025.9	985.9	893.4	912.8	912.8
67.5°	9774.6	7369.8	998.5	744.9	723.2	901.4	1087.6	982.5	855.7	878.5	858.0
70°	7753.6	5700.7	831.7	701.4	684.3	872.8	1093.3	947.1	811.1	815.7	776.8
72.5°	5145.5	3748.3	715.2	660.3	624.9	784.8	1046.5	901.4	767.7	741.4	702.6
75°	2521.3	1869.0	623.8	608.9	547.2	683.2	982.5	858.0	720.9	679.7	658.0
77.5°	976.8	795.1	532.4	543.8	476.4	602.1	897.9	796.3	659.2	603.2	586.1
80°	474.1	451.3	436.4	453.5	391.9	512.9	820.3	742.6	602.1	540.4	515.2
82.5°	294.7	278.8	334.7	353.0	301.6	468.4	778.0	696.9	530.1	447.8	427.3
85°	149.7	159.9	223.9	241.1	215.9	372.4	640.9	523.2	382.7	317.6	319.9
87.5°	57.1	76.5	117.7	126.8	115.4	196.5	353.0	305.0	245.6	166.8	154.2
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)