

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: P522733

Luminaire Tested: **GALN-SA4B-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522733
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-SA4B-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20984 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

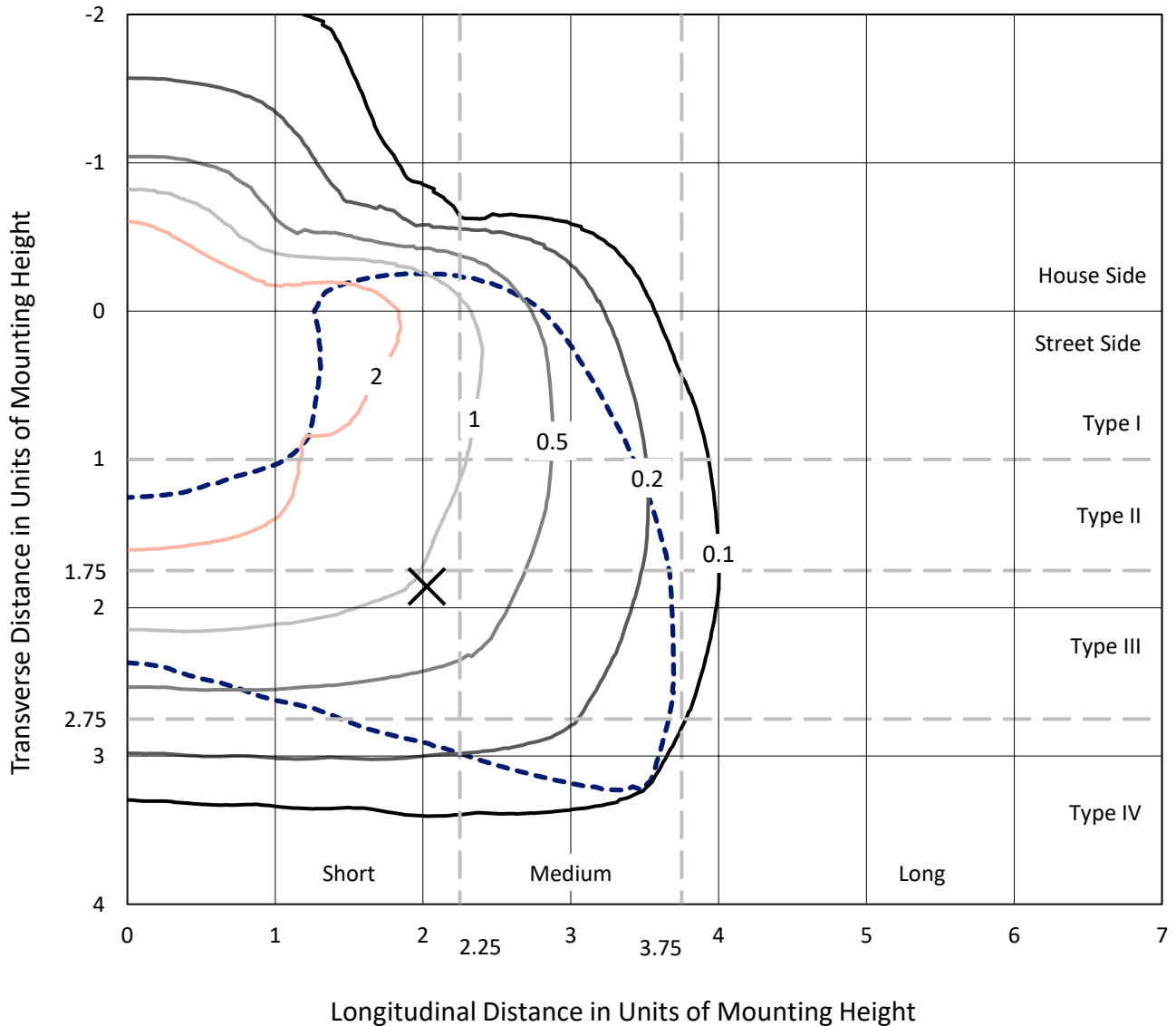
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

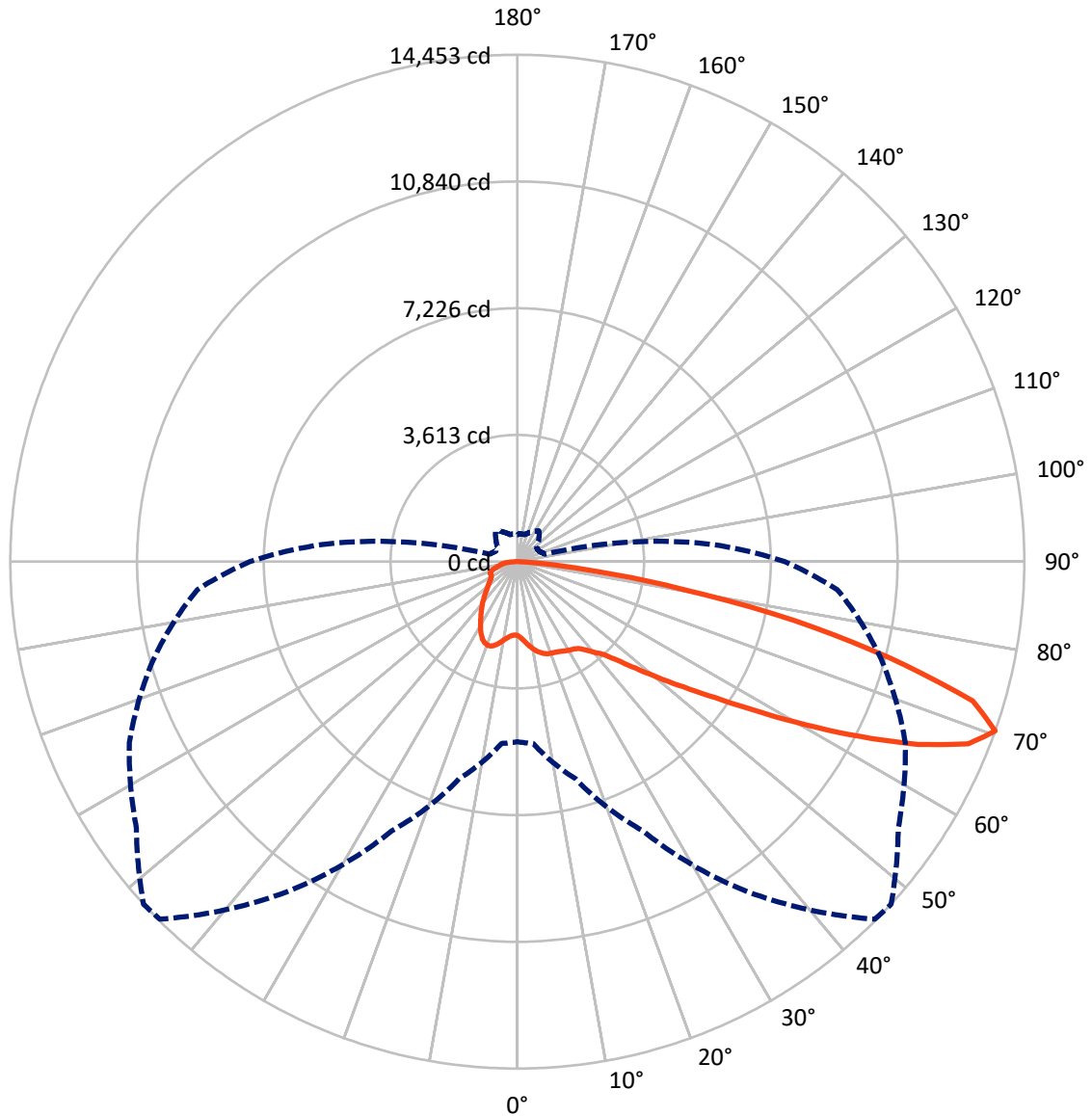
× Max cd
 - - - 1/2 Max cd



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	4751.2	0.0	4751.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	16232.8	0.0	16232.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	20984.0	0.0	20984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.1	1.0
10°-20°	725.9	3.5
20°-30°	1207.2	5.8
30°-40°	1711.0	8.2
40°-50°	2525.8	12.0
50°-60°	4374.8	20.8
60°-70°	6179.6	29.4
70°-80°	3552.4	16.9
80°-90°	490.1	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°	20984.0	100.0
0°-180°	20984.0	100.0

Coefficient of Utilization



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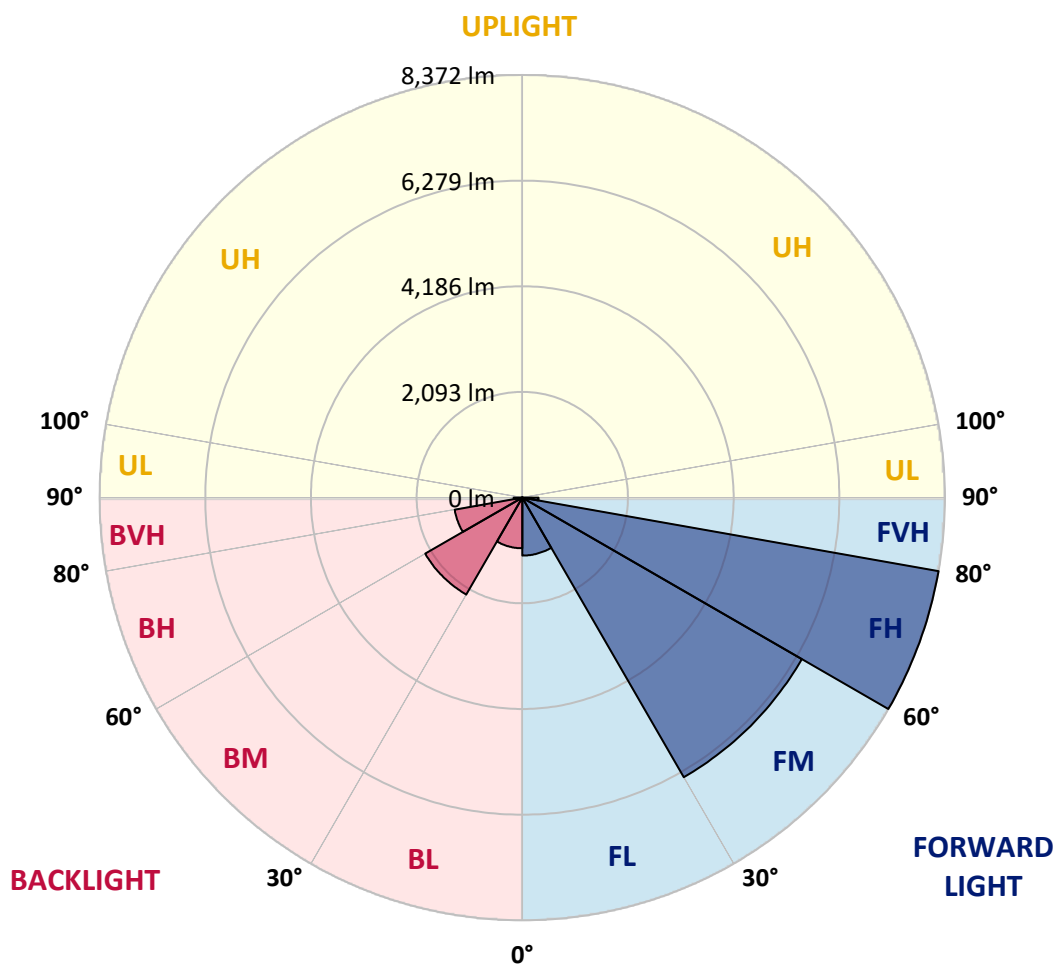
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1147.5	5.5			
FM	(30°-60°)	6393.4	30.5			
FH	(60°-80°)	8371.7	39.9			G4/12000
FVH	(80°-90°)	320.2	1.5			G3/500
BL	(0°-30°)	1002.8	4.8	B3/2500		
BM	(30°-60°)	2218.2	10.6	B2/2500		
BH	(60°-80°)	1360.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	170.0	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°	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5
2.5°	2242.4	2234.6	2233.4	2216.6	2207.6	2190.8	2184.0	2168.3	2149.2	2130.1	2112.2
5°	2418.7	2418.7	2410.8	2387.3	2350.2	2312.0	2295.2	2264.9	2211.0	2167.2	2130.1
7.5°	2599.5	2601.7	2586.0	2551.2	2498.4	2436.7	2421.0	2376.0	2299.7	2235.7	2180.7
10°	2755.6	2755.6	2734.2	2687.1	2620.8	2553.5	2537.7	2487.2	2401.9	2322.1	2250.3
12.5°	2874.6	2874.6	2846.5	2784.8	2712.9	2652.3	2634.3	2586.0	2506.3	2417.6	2326.6
15°	2952.1	2946.5	2915.0	2845.4	2775.8	2723.0	2710.7	2670.2	2597.2	2507.4	2405.2
17.5°	2955.4	2953.2	2922.9	2864.5	2803.9	2767.9	2760.1	2733.1	2675.8	2590.5	2482.7
20°	2890.3	2894.8	2874.6	2833.1	2803.9	2788.1	2784.8	2775.8	2735.4	2655.6	2547.8
22.5°	2820.7	2828.6	2809.5	2787.0	2784.8	2800.5	2802.7	2805.0	2779.2	2701.7	2602.9
25°	2803.9	2809.5	2790.4	2770.2	2782.5	2824.1	2833.1	2842.0	2821.8	2756.7	2668.0
27.5°	2889.2	2884.7	2847.6	2803.9	2811.7	2867.9	2880.2	2890.3	2880.2	2824.1	2748.8
30°	3130.6	3116.0	3041.9	2913.9	2873.5	2912.8	2925.1	2953.2	2953.2	2911.7	2836.4
32.5°	3534.9	3506.8	3370.9	3119.4	2979.0	2955.4	2967.8	3013.8	3037.4	3004.9	2922.9
35°	4025.6	3996.4	3802.1	3464.1	3172.2	3040.8	3037.4	3089.1	3152.0	3079.0	2972.3
37.5°	4518.5	4488.2	4254.6	3875.1	3454.0	3220.4	3200.2	3218.2	3245.2	3111.5	3040.8
40°	5011.5	4975.5	4771.2	4334.4	3798.7	3458.5	3405.7	3324.9	3313.6	3218.2	3173.3
42.5°	5499.9	5467.4	5364.0	4849.8	4212.0	3690.9	3610.1	3470.9	3513.5	3456.3	3417.0
45°	5992.9	5995.1	5885.1	5428.0	4710.5	4119.9	4011.0	3793.1	3894.2	3872.8	3895.3
47.5°	6429.7	6424.1	6384.8	5989.5	5329.2	4672.3	4532.0	4279.3	4452.3	4530.9	4702.7
50°	6853.0	6849.6	6851.9	6626.2	6047.9	5329.2	5174.3	4909.3	5298.9	5571.8	5879.5
52.5°	7459.4	7478.4	7342.6	7283.1	6921.5	6105.2	5934.5	5660.5	6299.4	6729.5	7330.2
55°	8068.0	8052.2	7945.6	8007.3	7835.5	7023.7	6845.1	6627.3	7413.3	7883.8	8786.6
57.5°	8426.2	8431.8	8540.7	8842.8	8964.0	8169.0	8007.3	7838.9	8665.3	8998.8	10082.4
60°	8748.4	8774.3	9087.5	9658.0	9987.0	9576.0	9432.3	9268.3	9814.1	9946.6	11207.6
62.5°	8849.5	8929.2	9476.1	10329.5	10984.1	11163.8	10985.2	10623.7	10907.8	10856.1	11970.0
65°	8345.3	8454.2	9434.5	10581.0	11874.6	12670.7	12557.3	11885.8	11839.7	11528.7	12094.6
67.5°	7018.1	7127.0	8385.7	10053.2	12242.9	13975.5	13862.1	12806.6	12405.7	11591.6	11151.4
70°	5135.0	5203.5	6407.2	8464.3	11502.9	14413.4	14452.7	13255.7	12203.6	10737.1	9156.0
72.5°	2958.8	3110.4	3953.7	5954.7	9397.5	13306.2	13579.1	12321.5	10925.7	8957.3	6401.6
75°	1272.2	1275.6	1828.1	3284.5	6364.5	10695.5	10959.4	10213.8	8580.0	6193.9	3418.1
77.5°	605.2	616.5	804.0	1466.5	3503.4	7389.7	8101.6	7215.7	5487.6	2975.7	1291.3
80°	393.0	400.9	491.8	727.6	1718.0	4284.9	4781.3	4162.6	2421.0	1063.4	557.0
82.5°	238.1	240.3	329.0	444.7	945.5	1940.4	2287.3	1806.7	1033.1	636.7	327.9
85°	144.9	146.0	199.9	275.1	573.8	670.4	688.3	682.7	606.4	416.6	175.2
87.5°	69.6	71.9	103.3	130.3	225.7	207.7	196.5	227.9	286.3	224.6	75.2
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°	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5
2.5°	2104.3	2100.9	2093.1	2089.7	2087.5	2088.6	2087.5	2087.5	2088.6	2088.6	2088.6
5°	2114.4	2108.8	2096.4	2096.4	2103.2	2118.9	2133.5	2144.7	2157.1	2155.9	2155.9
7.5°	2158.2	2148.1	2133.5	2138.0	2154.8	2179.5	2205.4	2230.1	2254.8	2257.0	2255.9
10°	2222.2	2212.1	2196.4	2202.0	2228.9	2266.0	2298.6	2334.5	2361.4	2369.3	2367.1
12.5°	2295.2	2275.0	2261.5	2277.2	2319.9	2369.3	2400.7	2427.7	2446.8	2458.0	2453.5
15°	2369.3	2350.2	2334.5	2367.1	2418.7	2464.7	2480.5	2485.0	2488.3	2499.6	2497.3
17.5°	2441.2	2415.3	2409.7	2452.4	2501.8	2522.0	2513.0	2493.9	2479.3	2488.3	2487.2
20°	2505.2	2485.0	2482.7	2525.4	2544.5	2525.4	2487.2	2453.5	2427.7	2429.9	2428.8
22.5°	2565.8	2550.1	2552.3	2570.3	2540.0	2474.8	2412.0	2365.9	2337.9	2343.5	2346.8
25°	2633.2	2617.5	2623.1	2593.9	2493.9	2380.5	2289.6	2250.3	2239.0	2250.3	2258.1
27.5°	2720.8	2710.7	2707.3	2595.0	2412.0	2241.3	2138.0	2123.4	2133.5	2158.2	2170.5
30°	2815.1	2815.1	2797.1	2575.9	2299.7	2074.0	1984.1	1986.4	2021.2	2056.0	2068.4
32.5°	2906.0	2925.1	2869.0	2524.3	2154.8	1911.2	1842.7	1844.9	1875.2	1917.9	1929.1
35°	2981.3	3036.3	2930.7	2429.9	1984.1	1774.2	1722.5	1692.2	1693.3	1725.9	1734.9
37.5°	3084.6	3186.8	2966.7	2289.6	1802.2	1657.4	1599.0	1546.2	1511.4	1497.9	1497.9
40°	3264.2	3414.7	2975.7	2081.8	1630.4	1546.2	1463.1	1400.2	1332.9	1272.2	1261.0
42.5°	3568.5	3758.3	2957.7	1842.7	1475.5	1423.8	1343.0	1265.5	1172.3	1087.0	1080.2
45°	4107.5	4205.2	2909.4	1594.5	1337.4	1305.9	1227.3	1143.1	1044.3	967.9	962.3
47.5°	4971.0	4832.9	2845.4	1374.4	1211.6	1202.6	1142.0	1044.3	945.5	892.7	887.1
50°	6232.0	5821.1	2836.4	1215.0	1110.5	1115.0	1065.6	975.8	889.3	845.5	838.8
52.5°	7750.2	7014.7	2895.9	1102.7	1021.8	1038.7	1014.0	930.9	854.5	817.5	810.7
55°	9223.4	8088.2	2931.9	1015.1	938.7	970.2	973.5	903.9	834.3	797.3	792.8
57.5°	10419.3	8896.7	2772.4	935.4	866.9	915.2	939.9	888.2	824.2	796.1	791.6
60°	11251.4	9278.4	2318.8	864.6	814.1	871.4	927.5	889.3	848.9	852.3	854.5
62.5°	11516.4	9108.9	1739.4	811.8	778.2	856.8	947.7	935.4	893.8	919.6	924.1
65°	11077.3	8408.2	1261.0	770.3	746.7	866.9	1008.4	969.1	878.1	897.2	897.2
67.5°	9607.4	7243.8	981.4	732.1	710.8	886.0	1069.0	965.7	841.0	863.5	843.3
70°	7621.1	5603.2	817.5	689.5	672.6	857.9	1074.6	930.9	797.3	801.7	763.6
72.5°	5057.5	3684.2	702.9	649.0	614.2	771.4	1028.6	886.0	754.6	728.8	690.6
75°	2478.2	1837.0	613.1	598.5	537.9	671.5	965.7	843.3	708.5	668.1	646.8
77.5°	960.1	781.5	523.3	534.5	468.2	591.8	882.6	782.7	647.9	592.9	576.0
80°	466.0	443.5	428.9	445.8	385.2	504.2	806.2	729.9	591.8	531.1	506.4
82.5°	289.7	274.0	329.0	347.0	296.4	460.4	764.7	685.0	521.0	440.2	420.0
85°	147.1	157.2	220.1	236.9	212.2	366.1	629.9	514.3	376.2	312.2	314.4
87.5°	56.1	75.2	115.7	124.6	113.4	193.1	347.0	299.8	241.4	163.9	151.6
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)