

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: P458727

Luminaire Tested: **GALN-SA2D-735-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14185 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

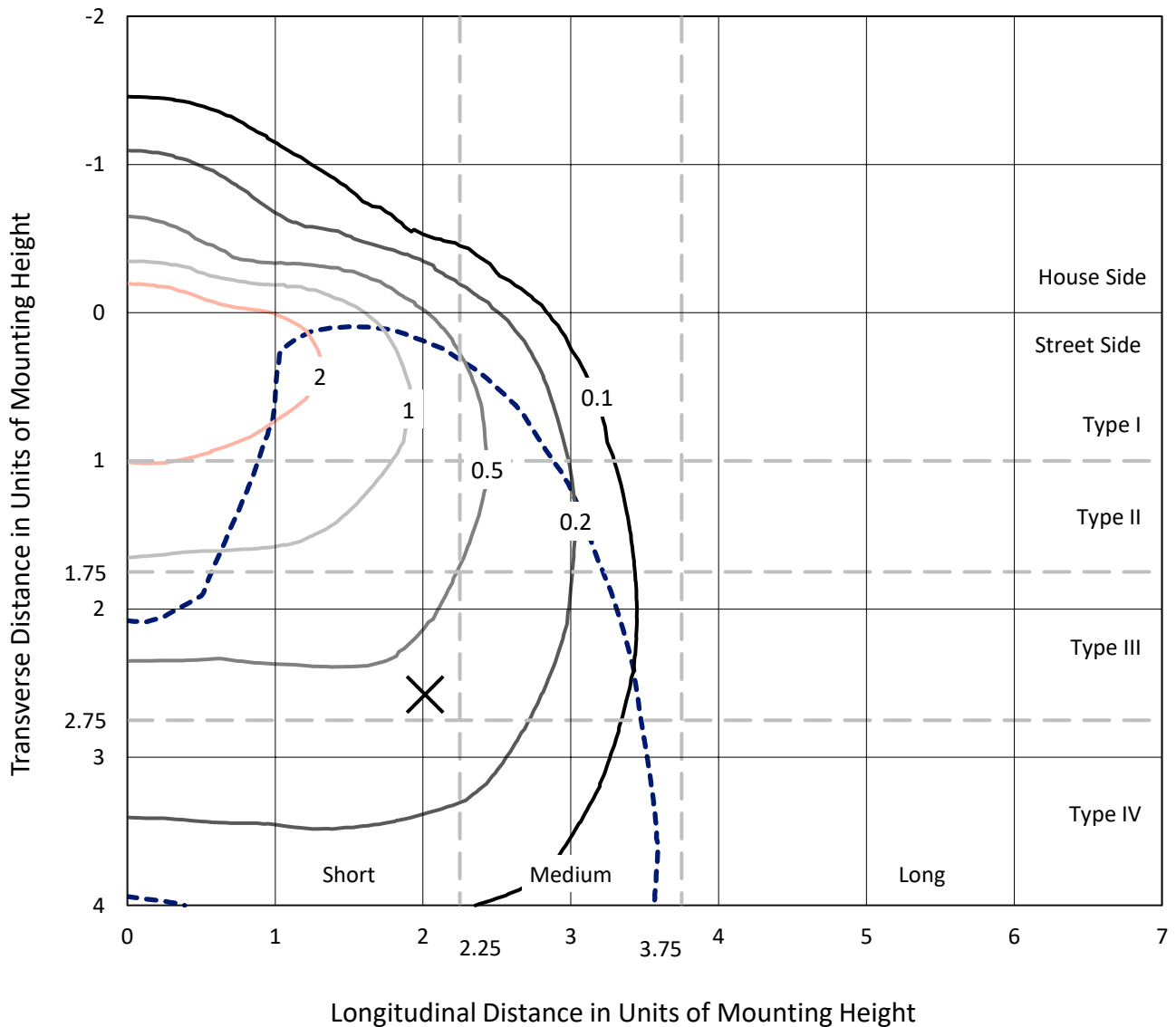
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

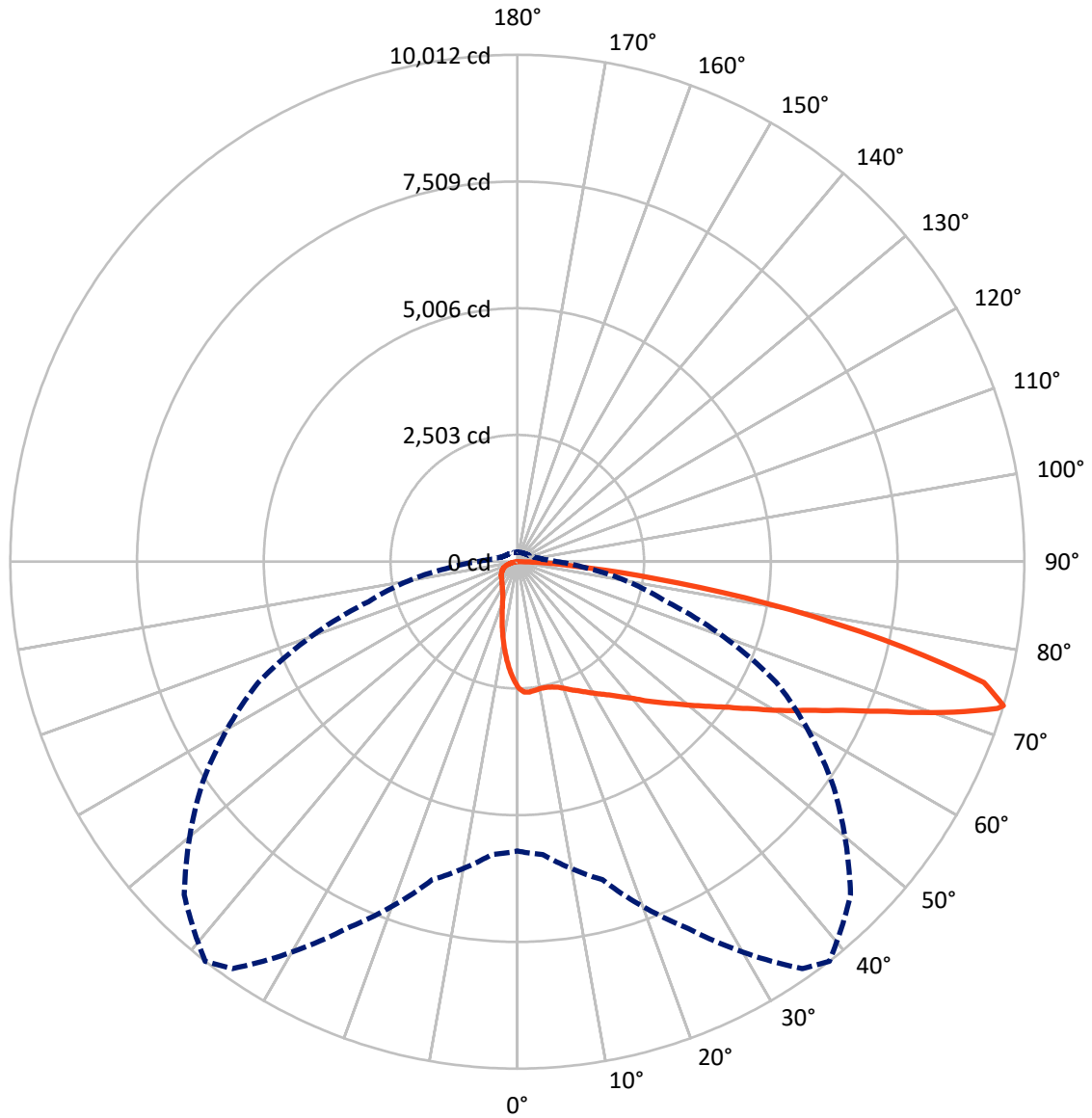
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1906.9	0.0	1906.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	12278.1	0.0	12278.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	14185.0	0.0	14185.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.5	1.5
10°-20°	557.8	3.9
20°-30°	868.6	6.1
30°-40°	1274.1	9.0
40°-50°	1890.0	13.3
50°-60°	2677.7	18.9
60°-70°	3396.7	23.9
70°-80°	2827.5	19.9
80°-90°	475.1	3.3
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°	14185.0	100.0
0°-180°	14185.0	100.0

Coefficient of Utilization



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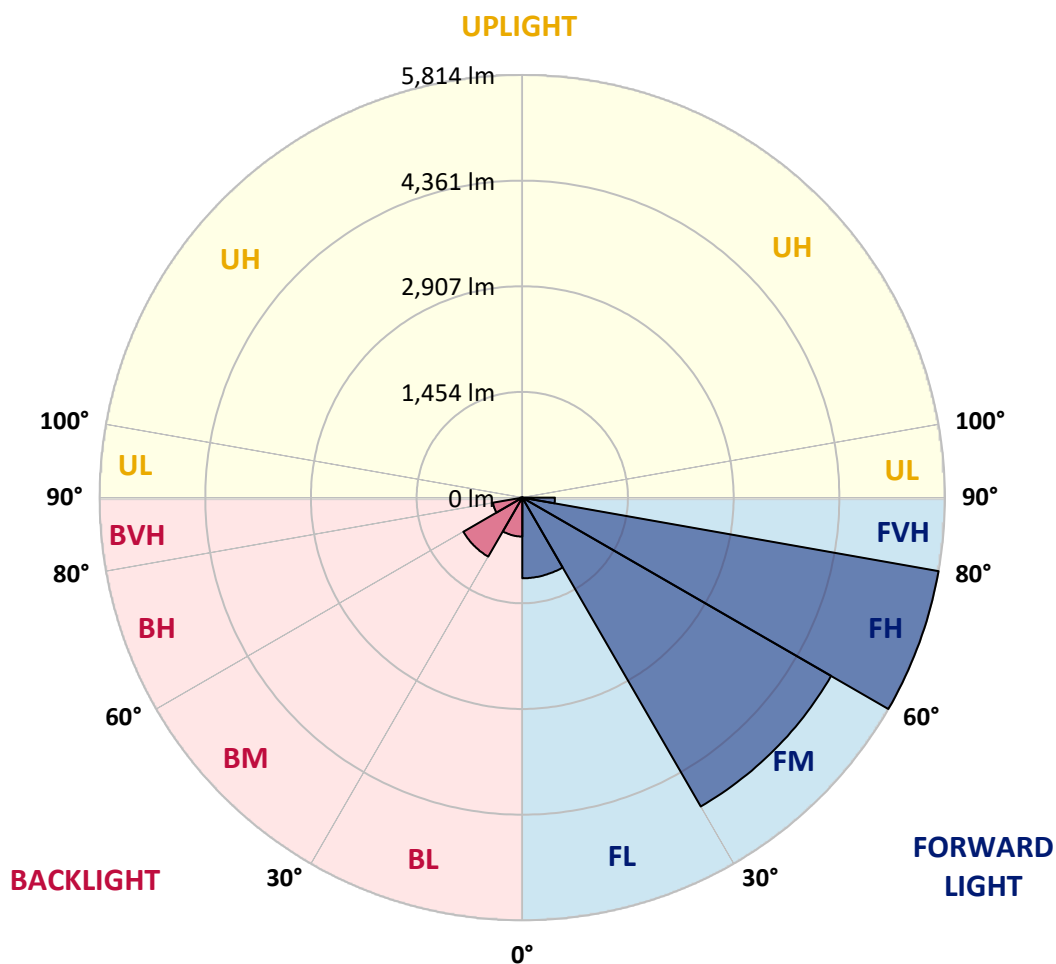
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1108.9	7.8			
FM (30°-60°)	4905.6	34.6			
FH (60°-80°)	5814.4	41.0			G3/7500
FVH (80°-90°)	449.3	3.2			G3/500
BL (0°-30°)	535.1	3.8	B2/1000		
BM (30°-60°)	936.2	6.6	B1/1000		
BH (60°-80°)	409.9	2.9	B1/500		G1/500
BVH (80°-90°)	25.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1
2.5°	2592.2	2605.0	2598.6	2589.8	2584.2	2578.6	2570.6	2547.3	2528.9	2508.9	2477.6
5°	2611.4	2619.4	2613.8	2602.6	2589.8	2584.2	2569.0	2538.5	2508.9	2475.2	2428.8
7.5°	2600.2	2603.4	2597.0	2583.4	2572.2	2561.8	2544.1	2510.5	2474.4	2433.6	2372.7
10°	2560.2	2572.2	2572.2	2561.0	2549.7	2544.1	2526.5	2494.5	2461.6	2415.2	2343.1
12.5°	2527.3	2540.1	2550.5	2547.3	2546.5	2546.5	2532.9	2508.9	2470.4	2426.4	2340.7
15°	2504.9	2520.1	2542.5	2555.3	2563.4	2565.8	2560.2	2539.3	2500.1	2448.8	2350.3
17.5°	2500.1	2518.5	2559.4	2587.4	2608.2	2607.4	2605.8	2577.0	2533.7	2480.8	2362.3
20°	2521.7	2545.7	2602.6	2646.7	2677.1	2671.5	2662.7	2625.0	2574.6	2515.3	2373.5
22.5°	2586.6	2611.4	2673.9	2722.0	2751.6	2751.6	2725.2	2675.5	2621.8	2555.3	2388.7
25°	2679.5	2706.7	2773.2	2822.1	2835.7	2825.3	2798.9	2738.8	2677.1	2613.0	2420.8
27.5°	2793.3	2826.1	2887.8	2928.6	2924.6	2916.6	2889.4	2812.5	2750.8	2692.3	2475.2
30°	2935.0	2959.1	3023.2	3032.8	3018.4	3016.8	2978.3	2901.4	2843.7	2798.9	2552.9
32.5°	3068.8	3090.4	3141.7	3145.7	3120.1	3123.3	3087.2	3016.8	2983.9	2967.9	2683.5
35°	3210.6	3221.8	3265.9	3261.1	3244.2	3241.8	3227.4	3160.1	3170.6	3199.4	2868.6
37.5°	3329.2	3351.6	3376.4	3380.4	3379.6	3387.6	3397.2	3365.2	3425.3	3515.8	3111.3
40°	3438.1	3457.3	3494.2	3507.0	3538.2	3554.3	3587.1	3587.9	3726.5	3875.5	3410.1
42.5°	3511.8	3544.6	3613.5	3636.8	3712.9	3760.9	3809.8	3861.9	4062.9	4254.4	3762.5
45°	3575.9	3619.1	3733.7	3805.8	3909.1	3967.6	4070.9	4179.9	4469.1	4719.8	4120.6
47.5°	3672.8	3711.3	3842.6	3970.0	4126.2	4193.5	4348.1	4510.7	4888.8	5163.6	4463.4
50°	3807.4	3830.6	3964.4	4171.9	4371.3	4457.8	4662.1	4896.8	5337.4	5601.7	4764.6
52.5°	3979.6	3989.2	4095.8	4372.1	4634.9	4742.2	5013.0	5286.9	5729.9	5982.2	5003.4
55°	4183.1	4167.1	4250.4	4584.4	4936.1	5076.2	5367.0	5681.8	6171.3	6289.8	5177.2
57.5°	4384.1	4359.3	4425.8	4842.3	5307.8	5476.8	5815.6	6088.8	6565.4	6577.4	5298.9
60°	4597.2	4578.8	4658.1	5145.1	5763.5	5963.8	6277.0	6510.9	6946.7	6777.7	5318.2
62.5°	4815.9	4786.3	4899.2	5485.6	6277.0	6458.9	6762.5	6959.5	7320.8	6852.2	5133.1
65°	5028.2	5014.6	5189.2	5890.1	6861.8	7068.5	7363.2	7497.0	7620.4	6740.0	4674.1
67.5°	5254.1	5281.3	5560.1	6430.0	7624.4	7883.9	8201.9	8076.2	7706.1	6208.9	3936.4
70°	5598.5	5616.2	6047.1	7137.3	8607.3	8920.5	9074.3	8282.0	7292.8	5200.4	2959.1
72.5°	5746.7	5824.4	6482.1	7879.9	9723.9	9915.4	9367.5	7823.0	6075.2	3532.6	1554.8
73°	5713.9	5806.8	6502.1	7992.9	9811.3	10012.3	9305.0	7586.7	5647.4	3042.4	1332.9
75°	5304.5	5419.1	6241.8	7898.3	9641.4	9521.3	8300.5	6466.1	3816.2	1383.4	607.2
77.5°	4185.5	4218.3	4945.7	6378.0	7592.3	7369.7	6212.1	4041.3	1558.8	514.3	344.5
80°	2099.5	2220.5	2787.7	3653.6	5077.0	5004.2	3921.1	1911.3	649.7	302.0	228.3
82.5°	1010.1	1095.8	1357.8	1781.5	2805.3	2738.8	1941.7	1044.6	412.5	176.2	134.6
85°	650.5	714.5	864.3	849.9	1153.5	1101.4	872.3	790.6	244.3	92.1	93.7
87.5°	429.4	470.2	563.9	451.0	419.7	379.7	385.3	445.4	48.1	35.2	12.8
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°	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1
2.5°	2464.8	2454.4	2420.0	2386.3	2354.3	2323.8	2303.8	2277.4	2259.8	2264.6	2271.8
5°	2403.1	2379.9	2319.0	2259.8	2203.7	2137.2	2083.5	2040.3	2007.4	1995.4	1993.0
7.5°	2338.3	2299.0	2211.7	2110.0	2014.6	1932.1	1836.8	1789.5	1734.3	1715.0	1708.6
10°	2299.0	2246.1	2123.6	1981.8	1838.4	1701.4	1598.1	1514.0	1437.9	1423.5	1416.3
12.5°	2287.8	2218.1	2053.1	1870.4	1679.8	1511.6	1358.6	1248.0	1174.3	1157.5	1132.7
15°	2281.4	2194.9	1987.4	1758.3	1516.4	1311.3	1150.3	1021.3	954.0	909.2	910.0
17.5°	2275.8	2168.4	1913.7	1635.7	1375.4	1139.1	961.3	845.1	783.4	759.4	757.0
20°	2267.8	2137.2	1828.8	1506.8	1214.4	982.1	821.1	734.6	692.9	672.9	672.1
22.5°	2264.6	2106.8	1745.5	1375.4	1071.8	861.1	728.2	667.3	640.8	627.2	627.2
25°	2272.6	2085.1	1658.2	1250.4	945.2	757.8	664.1	622.4	607.2	600.0	597.6
27.5°	2297.4	2075.5	1571.7	1125.5	829.1	687.3	620.8	592.0	580.8	575.2	576.0
30°	2344.7	2074.7	1486.7	1002.1	742.6	633.6	586.4	566.3	557.5	554.3	553.5
32.5°	2420.8	2092.3	1403.4	900.4	669.7	588.8	554.3	539.9	535.9	533.5	532.7
35°	2549.7	2142.0	1320.9	807.5	613.6	548.7	523.9	516.7	511.1	513.5	514.3
37.5°	2723.6	2227.7	1242.4	734.6	571.1	519.1	498.3	491.8	488.6	491.0	493.4
40°	2956.7	2351.1	1176.7	676.1	540.7	494.2	475.8	470.2	467.0	471.0	471.8
42.5°	3213.8	2493.7	1122.3	630.4	515.9	473.4	455.8	449.4	447.0	449.4	450.2
45°	3478.2	2659.5	1094.2	597.6	495.0	458.2	439.8	432.6	427.0	425.4	427.8
47.5°	3738.5	2803.7	1093.4	577.6	478.2	444.6	424.6	416.5	409.3	405.3	404.5
50°	3950.8	2918.2	1112.7	568.7	463.8	429.4	409.3	401.3	391.7	383.7	385.3
52.5°	4111.0	2992.7	1121.5	564.7	455.8	413.3	393.3	386.1	374.9	364.5	364.5
55°	4214.3	3010.3	1099.8	560.7	449.4	396.5	374.9	368.5	357.3	346.9	346.9
57.5°	4249.6	2955.9	1022.1	551.1	443.0	382.1	356.5	350.9	342.0	331.6	330.0
60°	4167.9	2771.6	886.0	522.3	430.2	366.9	336.4	334.0	330.8	322.0	321.2
62.5°	3853.0	2380.7	737.8	484.6	408.5	350.9	318.0	322.0	324.4	319.6	318.8
65°	3329.2	1932.9	630.4	432.6	379.7	328.4	298.0	308.4	314.8	314.8	313.2
67.5°	2700.3	1484.3	531.1	387.7	343.7	298.0	275.6	283.6	288.4	286.8	290.8
70°	1919.3	1005.3	432.6	336.4	298.0	263.5	246.7	246.7	243.5	241.9	241.9
72.5°	930.8	574.4	350.9	281.2	253.9	225.1	211.5	205.9	199.5	198.7	194.7
73°	777.8	515.1	334.8	270.8	243.5	219.5	204.3	195.5	191.5	188.2	187.4
75°	473.4	390.9	279.6	228.3	207.5	189.0	175.4	167.4	163.4	161.0	160.2
77.5°	311.6	291.6	217.1	174.6	158.6	147.4	141.8	133.8	131.4	128.2	128.2
80°	232.3	222.7	155.4	123.4	113.7	104.1	102.5	100.9	94.5	90.5	88.9
82.5°	149.8	158.6	105.7	82.5	72.1	64.1	64.9	67.3	60.9	55.3	53.7
85°	106.5	114.6	64.1	37.6	30.4	26.4	29.6	26.4	27.2	21.6	17.6
87.5°	17.6	30.4	11.2	4.8	2.4	1.6	0.0	0.0	0.0	0.0	0.0
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)