

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: P452666

Luminaire Tested: **GALN-SA3C-827-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452666
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-SA3C-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA 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: 15102 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

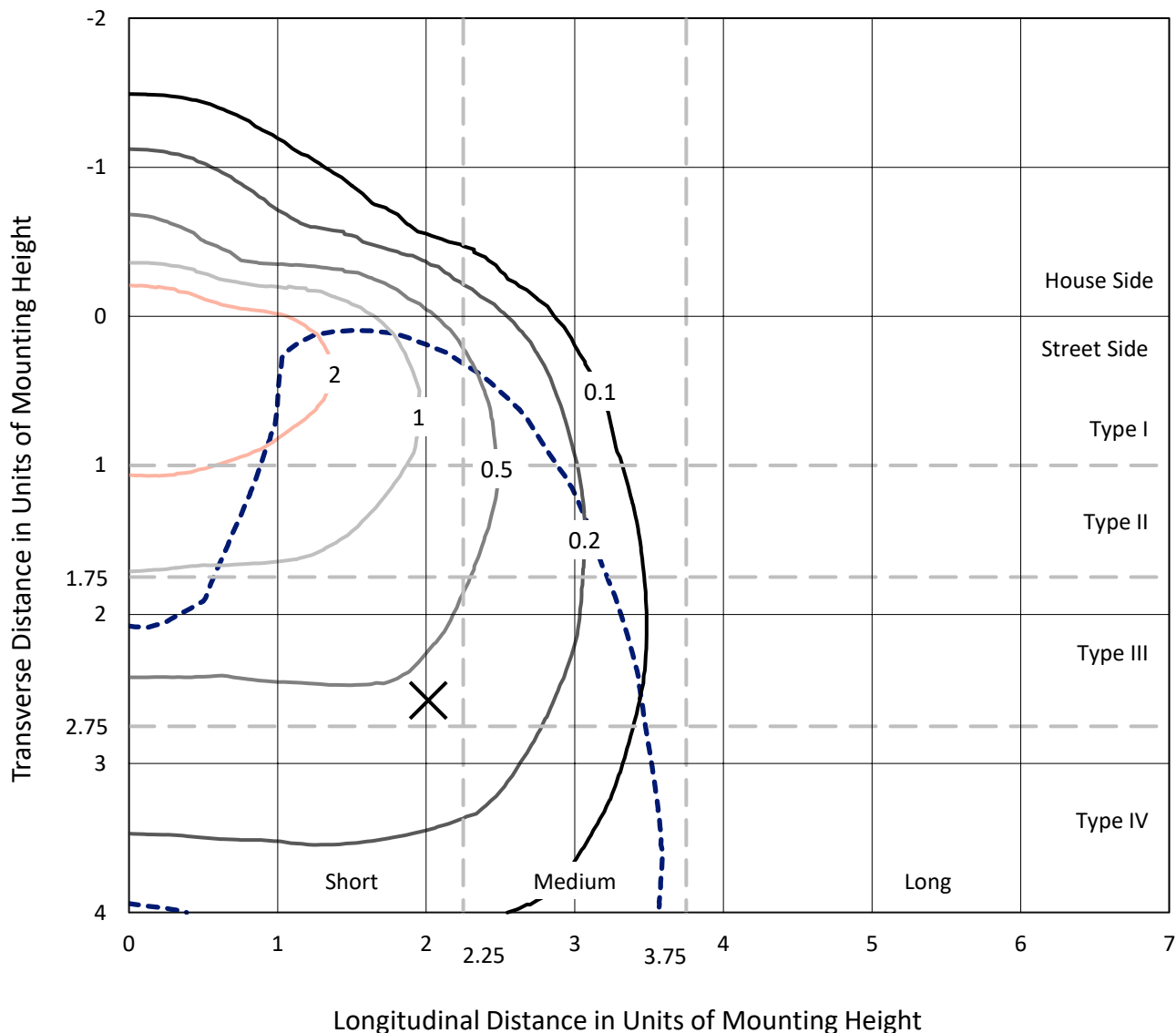
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

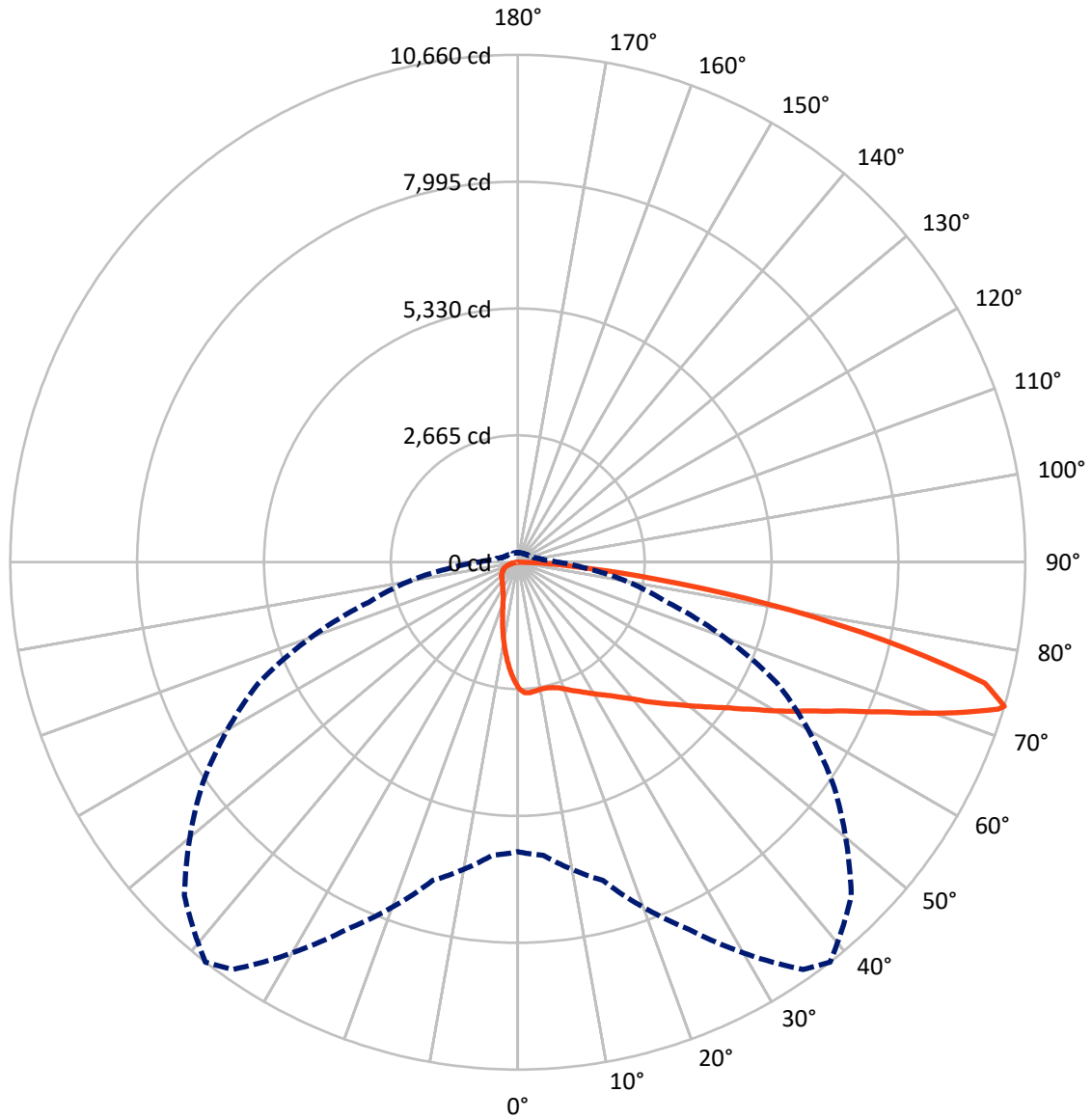
× Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2030.2	0.0	2030.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	13071.8	0.0	13071.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	15102.0	0.0	15102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.6	1.5
10°-20°	593.9	3.9
20°-30°	924.8	6.1
30°-40°	1356.4	9.0
40°-50°	2012.1	13.3
50°-60°	2850.8	18.9
60°-70°	3616.3	23.9
70°-80°	3010.3	19.9
80°-90°	505.8	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°	15102.0	100.0
0°-180°	15102.0	100.0

Coefficient of Utilization



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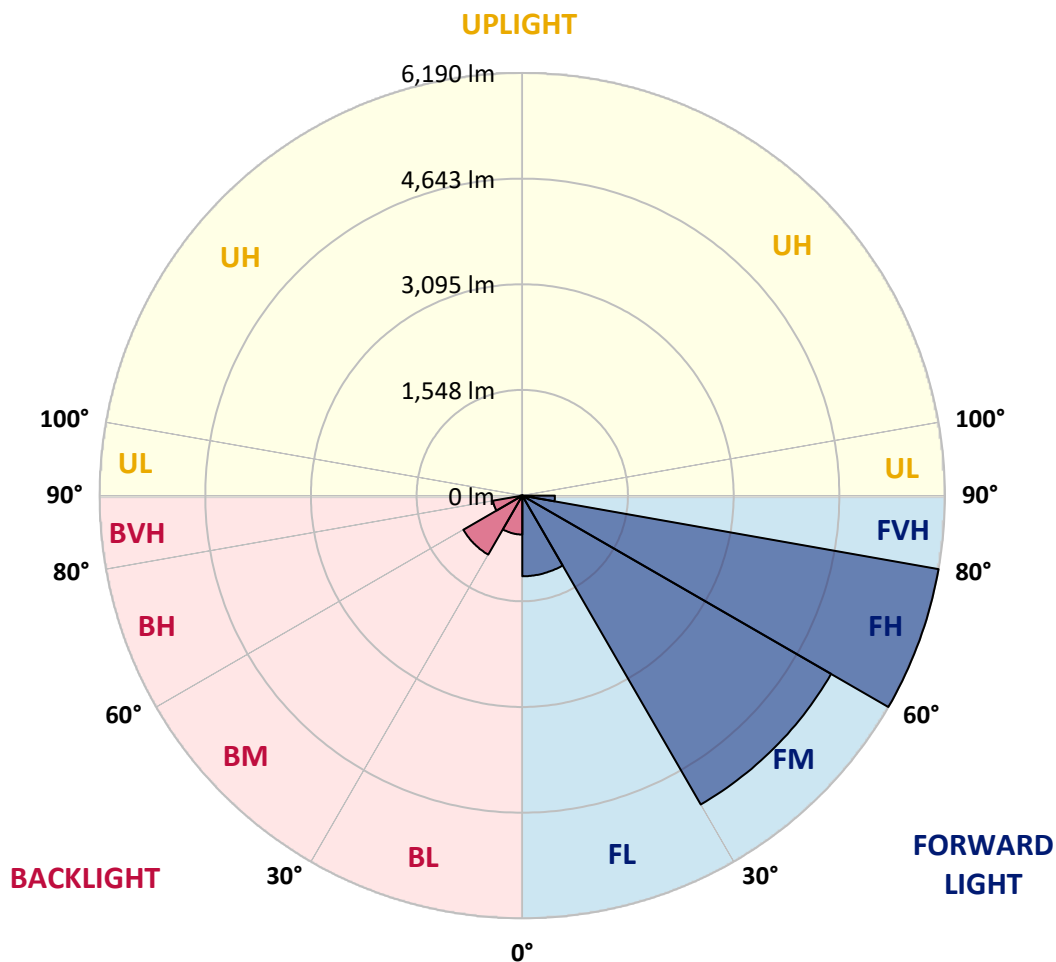
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1180.6	7.8			
FM (30°-60°)	5222.7	34.6			
FH (60°-80°)	6190.2	41.0			G3/7500
FVH (80°-90°)	478.3	3.2			G3/500
BL (0°-30°)	569.7	3.8	B2/1000		
BM (30°-60°)	996.7	6.6	B1/1000		
BH (60°-80°)	436.4	2.9	B1/500		G1/500
BVH (80°-90°)	27.4	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°	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2
2.5°	2759.8	2773.4	2766.6	2757.2	2751.2	2745.3	2736.7	2712.0	2692.4	2671.1	2637.8
5°	2780.2	2788.8	2782.8	2770.9	2757.2	2751.2	2735.0	2702.6	2671.1	2635.3	2585.8
7.5°	2768.3	2771.7	2764.9	2750.4	2738.4	2727.4	2708.6	2672.8	2634.4	2590.9	2526.1
10°	2725.7	2738.4	2738.4	2726.5	2714.6	2708.6	2689.8	2655.7	2620.8	2571.3	2494.5
12.5°	2690.7	2704.3	2715.4	2712.0	2711.2	2711.2	2696.7	2671.1	2630.1	2583.2	2492.0
15°	2666.8	2683.0	2706.9	2720.5	2729.1	2731.6	2725.7	2703.5	2661.7	2607.1	2502.2
17.5°	2661.7	2681.3	2724.8	2754.7	2776.8	2776.0	2774.3	2743.6	2697.5	2641.2	2515.0
20°	2684.7	2710.3	2770.9	2817.8	2850.2	2844.2	2834.8	2794.7	2741.0	2677.9	2526.9
22.5°	2753.8	2780.2	2846.8	2897.9	2929.5	2929.5	2901.3	2848.5	2791.3	2720.5	2543.1
25°	2852.7	2881.7	2952.5	3004.5	3019.0	3007.9	2979.8	2915.8	2850.2	2781.9	2577.3
27.5°	2973.8	3008.8	3074.5	3118.0	3113.7	3105.2	3076.2	2994.3	2928.6	2866.4	2635.3
30°	3124.8	3150.4	3218.6	3228.8	3213.5	3211.8	3170.8	3089.0	3027.6	2979.8	2718.0
32.5°	3267.2	3290.2	3344.8	3349.1	3321.8	3325.2	3286.8	3211.8	3176.8	3159.7	2857.0
35°	3418.2	3430.1	3477.0	3471.9	3454.0	3451.4	3436.1	3364.4	3375.5	3406.2	3054.0
37.5°	3544.4	3568.3	3594.7	3599.0	3598.1	3606.6	3616.9	3582.8	3646.7	3743.1	3312.4
40°	3660.4	3680.8	3720.1	3733.7	3767.0	3784.0	3819.0	3819.8	3967.4	4126.0	3630.5
42.5°	3738.8	3773.8	3847.1	3871.9	3952.9	4004.1	4056.1	4111.5	4325.6	4529.4	4005.8
45°	3807.0	3853.1	3975.1	4051.8	4161.8	4224.1	4334.1	4450.1	4758.0	5024.9	4387.0
47.5°	3910.2	3951.2	4091.0	4226.6	4392.9	4464.6	4629.2	4802.3	5204.8	5497.4	4752.0
50°	4053.5	4078.3	4220.7	4441.6	4653.9	4746.0	4963.5	5213.4	5682.4	5963.9	5072.7
52.5°	4236.9	4247.1	4360.5	4654.8	4934.5	5048.8	5337.0	5628.7	6100.3	6369.0	5326.8
55°	4453.5	4436.4	4525.1	4880.8	5255.2	5404.4	5714.0	6049.1	6570.2	6696.4	5511.9
57.5°	4667.6	4641.1	4711.9	5155.4	5650.9	5830.8	6191.6	6482.4	6989.8	7002.6	5641.5
60°	4894.4	4874.8	4959.2	5477.8	6136.1	6349.3	6682.8	6931.8	7395.8	7215.8	5662.0
62.5°	5127.2	5095.7	5215.9	5840.2	6682.8	6876.4	7199.6	7409.4	7794.0	7295.1	5465.0
65°	5353.2	5338.7	5524.7	6270.9	7305.4	7525.4	7839.2	7981.7	8113.0	7175.7	4976.3
67.5°	5593.7	5622.7	5919.5	6845.7	8117.3	8393.6	8732.2	8598.3	8204.3	6610.3	4190.8
70°	5960.5	5979.2	6438.0	7598.7	9163.7	9497.2	9660.9	8817.4	7764.2	5536.6	3150.4
72.5°	6118.2	6201.0	6901.1	8389.3	10352.5	10556.4	9973.0	8328.8	6467.9	3761.0	1655.4
73°	6083.3	6182.2	6922.5	8509.6	10445.5	10659.6	9906.5	8077.2	6012.5	3239.1	1419.1
75°	5647.5	5769.4	6645.3	8408.9	10264.7	10136.8	8837.1	6884.1	4062.9	1472.8	646.4
77.5°	4456.1	4491.0	5265.4	6790.3	8083.2	7846.1	6613.7	4302.5	1659.6	547.5	366.7
80°	2235.3	2364.1	2967.9	3889.8	5405.3	5327.7	4174.6	2034.9	691.6	321.5	243.1
82.5°	1075.4	1166.7	1445.6	1896.7	2986.6	2915.8	2067.3	1112.1	439.2	187.6	143.3
85°	692.5	760.7	920.2	904.9	1228.1	1172.6	928.7	841.7	260.1	98.1	99.8
87.5°	457.1	500.6	600.4	480.1	446.9	404.2	410.2	474.2	51.2	37.5	13.6
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°	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2
2.5°	2624.2	2613.1	2576.4	2540.6	2506.5	2474.1	2452.7	2424.6	2405.8	2411.0	2418.6
5°	2558.5	2533.8	2469.0	2405.8	2346.1	2275.4	2218.2	2172.2	2137.2	2124.4	2121.9
7.5°	2489.4	2447.6	2354.7	2246.4	2144.9	2057.0	1955.5	1905.2	1846.4	1825.9	1819.1
10°	2447.6	2391.3	2260.9	2109.9	1957.3	1811.4	1701.4	1611.9	1530.8	1515.5	1507.8
12.5°	2435.7	2361.5	2185.8	1991.4	1788.4	1609.3	1446.4	1328.7	1250.3	1232.3	1205.9
15°	2428.9	2336.8	2115.9	1872.0	1614.4	1396.1	1224.7	1087.4	1015.7	968.0	968.8
17.5°	2422.9	2308.6	2037.4	1741.5	1464.3	1212.7	1023.4	899.7	834.1	808.5	805.9
20°	2414.4	2275.4	1947.0	1604.2	1292.9	1045.6	874.2	782.0	737.7	716.4	715.5
22.5°	2411.0	2243.0	1858.3	1464.3	1141.1	916.8	775.2	710.4	682.3	667.8	667.8
25°	2419.5	2219.9	1765.4	1331.3	1006.3	806.8	707.0	662.7	646.4	638.8	636.2
27.5°	2445.9	2209.7	1673.3	1198.2	882.7	731.7	660.9	630.2	618.3	612.3	613.2
30°	2496.2	2208.8	1582.9	1066.9	790.6	674.6	624.3	603.0	593.6	590.2	589.3
32.5°	2577.3	2227.6	1494.2	958.6	713.0	626.8	590.2	574.8	570.5	568.0	567.1
35°	2714.6	2280.5	1406.3	859.7	653.3	584.2	557.8	550.1	544.1	546.7	547.5
37.5°	2899.6	2371.7	1322.7	782.0	608.1	552.6	530.5	523.6	520.2	522.8	525.3
40°	3147.8	2503.1	1252.8	719.8	575.7	526.2	506.6	500.6	497.2	501.5	502.3
42.5°	3421.6	2654.9	1194.8	671.2	549.2	504.0	485.3	478.4	475.9	478.4	479.3
45°	3703.0	2831.4	1165.0	636.2	527.1	487.8	468.2	460.5	454.6	452.9	455.4
47.5°	3980.2	2984.9	1164.1	614.9	509.1	473.3	452.0	443.5	435.8	431.5	430.7
50°	4206.2	3106.9	1184.6	605.5	493.8	457.1	435.8	427.3	417.0	408.5	410.2
52.5°	4376.7	3186.2	1194.0	601.2	485.3	440.1	418.7	411.1	399.1	388.0	388.0
55°	4486.8	3204.9	1170.9	597.0	478.4	422.2	399.1	392.3	380.4	369.3	369.3
57.5°	4524.3	3147.0	1088.2	586.7	471.6	406.8	379.5	373.5	364.2	353.1	351.4
60°	4437.3	2950.8	943.2	556.0	458.0	390.6	358.2	355.6	352.2	342.8	342.0
62.5°	4102.1	2534.6	785.5	516.0	434.9	373.5	338.6	342.8	345.4	340.3	339.4
65°	3544.4	2057.9	671.2	460.5	404.2	349.7	317.3	328.3	335.2	335.2	333.5
67.5°	2874.9	1580.3	565.4	412.8	365.9	317.3	293.4	301.9	307.0	305.3	309.6
70°	2043.4	1070.3	460.5	358.2	317.3	280.6	262.7	262.7	259.3	257.6	257.6
72.5°	991.0	611.5	373.5	299.3	270.3	239.6	225.1	219.2	212.4	211.5	207.2
73°	828.1	548.4	356.5	288.3	259.3	233.7	217.5	208.1	203.8	200.4	199.6
75°	504.0	416.2	297.6	243.1	220.9	201.3	186.8	178.2	174.0	171.4	170.6
77.5°	331.8	310.4	231.1	185.9	168.9	156.9	151.0	142.4	139.9	136.5	136.5
80°	247.3	237.1	165.4	131.3	121.1	110.9	109.2	107.5	100.6	96.4	94.7
82.5°	159.5	168.9	112.6	87.8	76.8	68.2	69.1	71.6	64.8	58.8	57.1
85°	113.4	122.0	68.2	40.1	32.4	28.1	31.6	28.1	29.0	23.0	18.8
87.5°	18.8	32.4	11.9	5.1	2.6	1.7	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)