

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: P454099

Luminaire Tested: **GALN-SA5A-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14248 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

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

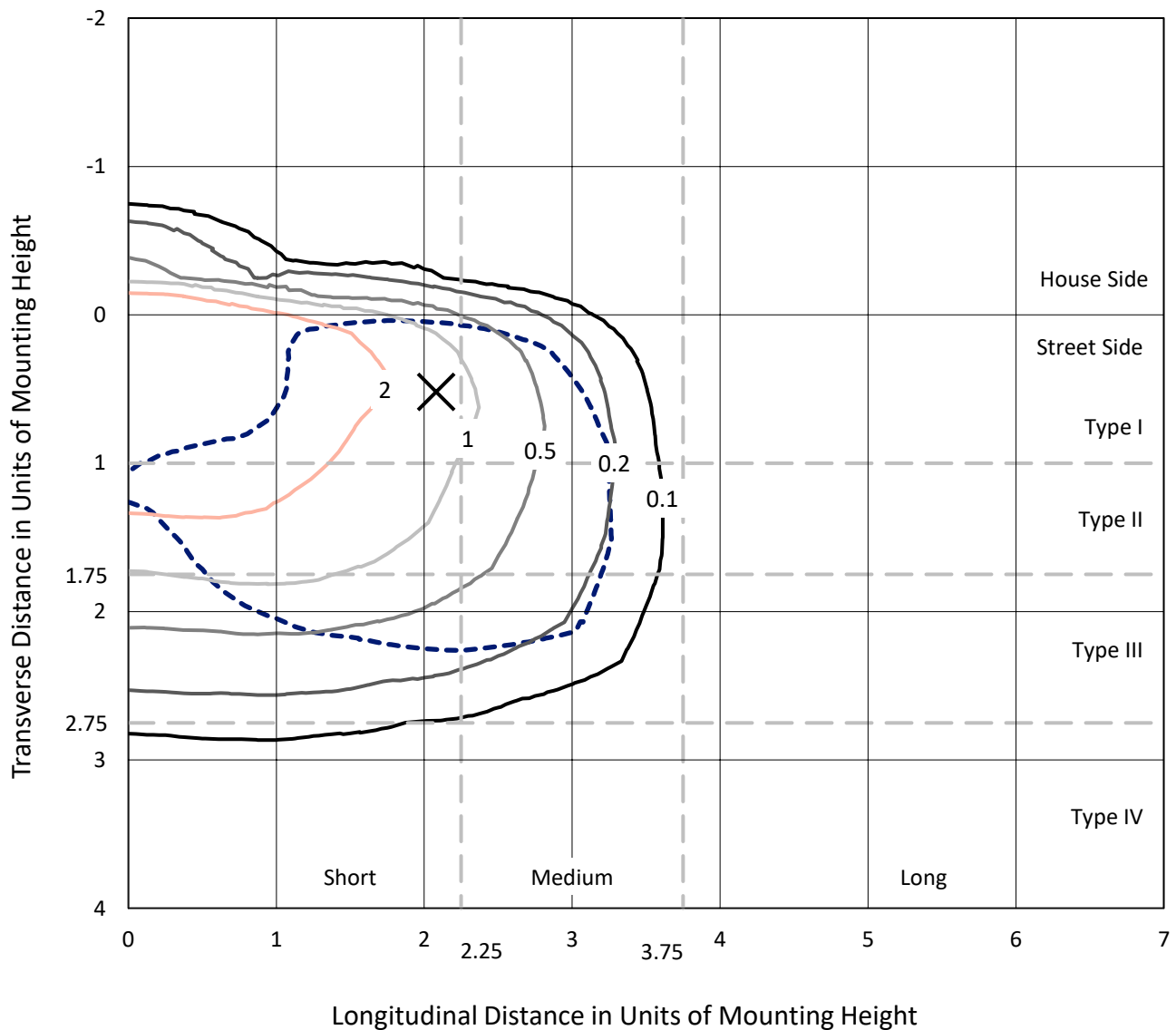


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

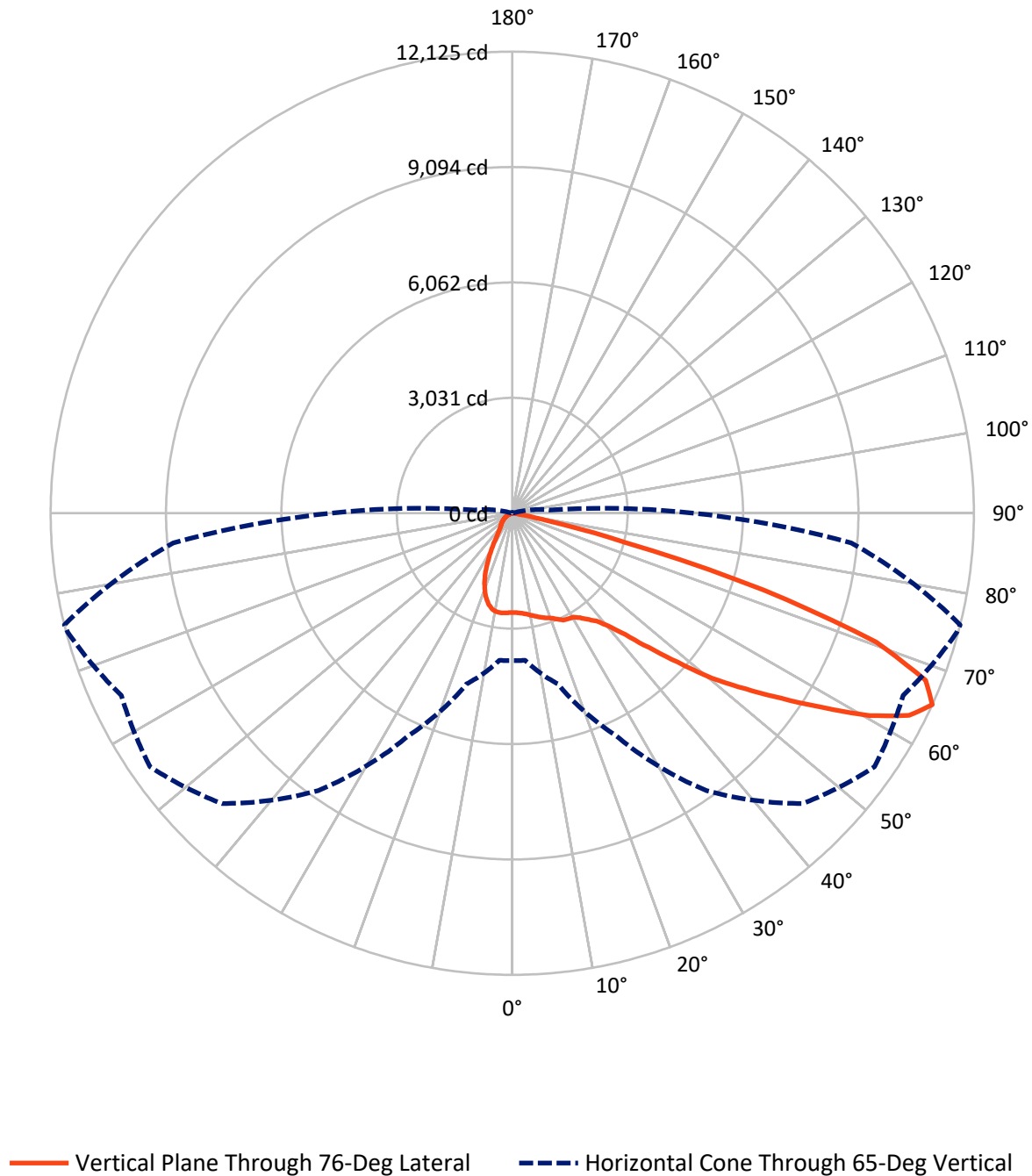


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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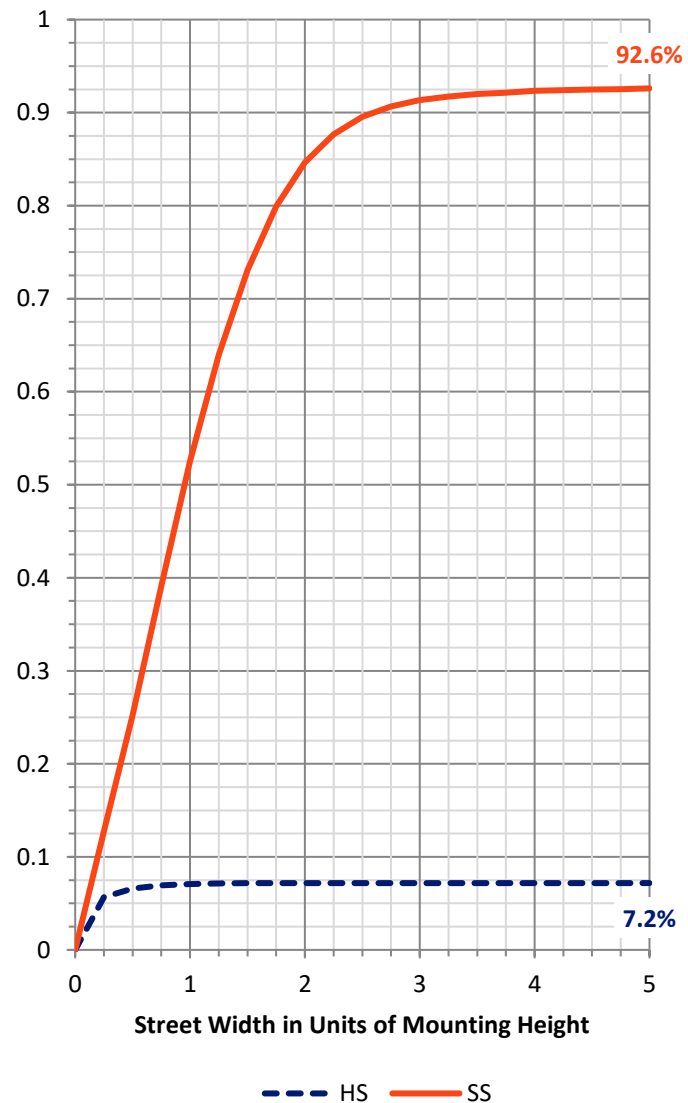
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1029.0	0.0	1029.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	13219.0	0.0	13219.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	14248.0	0.0	14248.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.7	1.5
10°-20°	478.1	3.4
20°-30°	770.4	5.4
30°-40°	1339.5	9.4
40°-50°	2213.4	15.5
50°-60°	3419.2	24.0
60°-70°	4175.3	29.3
70°-80°	1584.6	11.1
80°-90°	52.9	0.4
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°	14248.0	100.0
0°-180°	14248.0	100.0

Coefficient of Utilization



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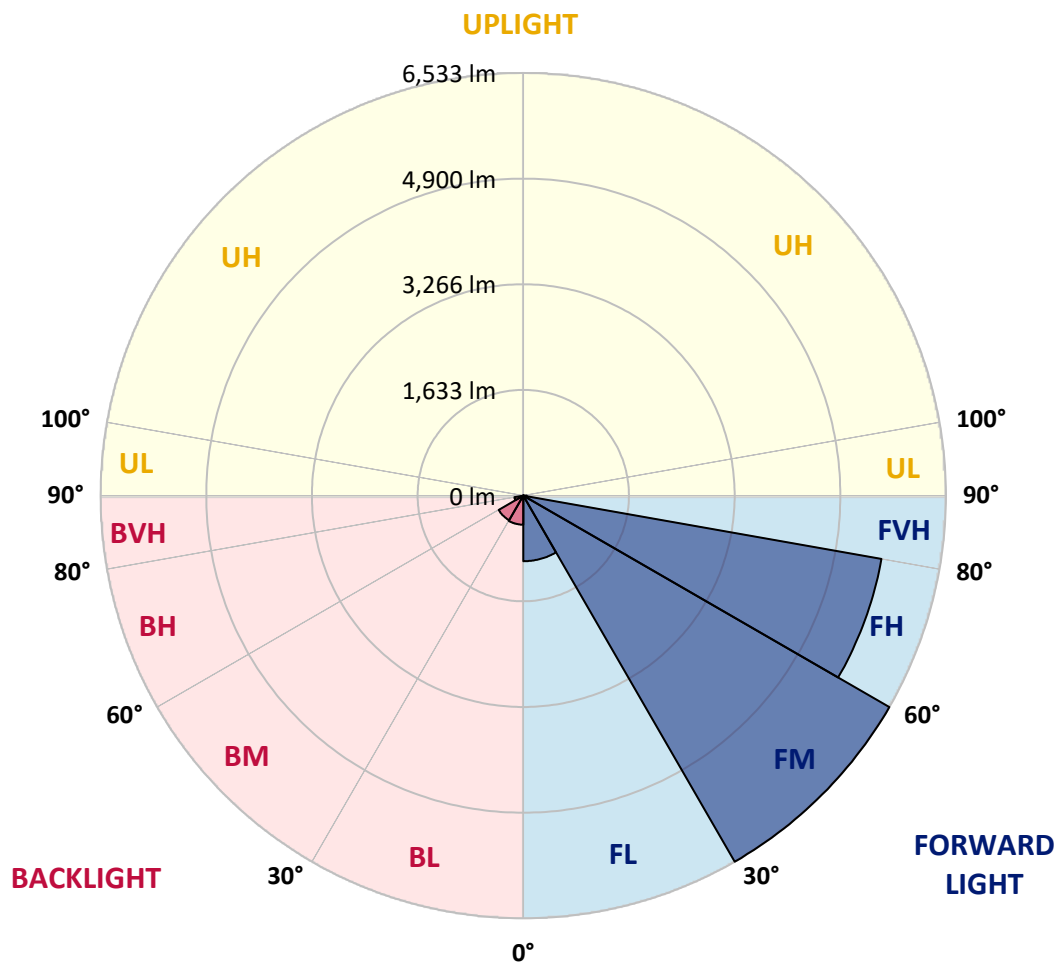
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1013.6	7.1			
FM	(30°-60°)	6532.9	45.9			
FH	(60°-80°)	5620.4	39.4			G3/7500
FVH	(80°-90°)	52.2	0.4			G1/100
BL	(0°-30°)	449.5	3.2	B1/500		
BM	(30°-60°)	439.1	3.1	B1/1000		
BH	(60°-80°)	139.6	1.0	B1/500		G1/500
BVH	(80°-90°)	0.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2606.4	2606.4	2606.4	2606.4	2606.4	2606.4	2606.4	2606.4	2606.4	2606.4	2606.4
2.5°	2490.7	2491.7	2497.8	2512.9	2536.0	2555.1	2571.2	2597.4	2615.5	2617.5	2623.5
5°	2318.7	2306.6	2318.7	2357.9	2393.2	2446.5	2511.9	2577.2	2635.6	2639.6	2667.8
7.5°	2125.6	2135.6	2154.7	2195.0	2261.4	2342.9	2437.4	2554.1	2664.8	2674.8	2730.1
10°	1929.4	1951.5	1982.7	2044.1	2136.6	2242.3	2371.0	2538.0	2711.0	2725.1	2820.7
12.5°	1748.3	1758.4	1796.6	1879.1	1993.8	2142.7	2320.7	2529.0	2762.3	2779.4	2917.3
15°	1609.5	1622.6	1655.8	1730.2	1858.0	2049.1	2279.5	2525.9	2812.6	2836.8	3013.8
17.5°	1583.4	1591.4	1605.5	1655.8	1767.5	1974.7	2242.3	2524.9	2860.9	2890.1	3103.4
20°	1691.0	1684.0	1669.9	1664.8	1726.2	1917.3	2215.1	2533.0	2907.2	2940.4	3197.9
22.5°	1960.6	1969.6	1887.2	1789.6	1769.5	1908.3	2211.1	2571.2	2980.6	3019.9	3303.5
25°	2533.0	2463.6	2334.8	2101.4	1925.4	1963.6	2256.3	2661.7	3066.1	3109.4	3399.1
27.5°	3165.7	3144.6	2944.4	2560.1	2232.2	2080.3	2336.8	2731.2	3094.3	3138.6	3453.4
30°	3787.4	3812.5	3583.2	3158.7	2677.8	2296.6	2412.3	2757.3	3119.4	3165.7	3522.8
32.5°	4363.8	4394.0	4192.8	3772.3	3202.9	2670.8	2542.0	2858.9	3225.1	3272.4	3638.5
35°	4817.5	4821.5	4669.6	4334.6	3776.3	3125.5	2822.7	3037.0	3367.9	3423.2	3761.2
37.5°	5234.0	5227.9	5049.9	4761.2	4254.2	3577.2	3175.8	3242.2	3530.9	3588.2	3938.3
40°	5542.8	5546.8	5489.5	5217.9	4699.8	3994.6	3455.4	3434.3	3804.5	3894.0	4195.8
42.5°	5749.0	5786.2	5814.4	5676.6	5260.1	4508.7	3885.0	3845.7	4279.3	4353.7	4560.0
45°	5916.0	5982.4	6123.2	6116.2	5798.3	5139.4	4474.5	4394.0	4952.3	5031.8	5023.7
47.5°	6037.7	6105.1	6338.5	6479.3	6304.3	5751.0	5215.8	5146.4	5756.0	5842.6	5535.7
50°	6100.1	6180.6	6478.3	6750.9	6699.6	6340.5	6060.8	6064.9	6726.8	6810.3	6129.2
52.5°	5954.2	6058.8	6552.8	7043.7	7143.2	6904.8	6852.5	6985.3	7590.9	7662.3	6665.4
55°	5488.5	5620.2	6451.2	7293.1	7657.3	7570.8	7751.8	7954.0	8535.5	8581.8	7215.7
57.5°	5193.7	5333.5	6151.4	7505.4	8274.9	8407.7	8694.4	8842.3	9510.2	9627.9	7847.4
60°	4945.2	5054.9	5904.9	7550.7	8902.6	9431.8	9710.4	9863.3	10713.4	10789.8	8542.5
62.5°	4531.8	4657.5	5488.5	7234.8	9218.5	10251.6	10829.0	10760.6	11643.9	11697.2	8969.0
65°	3866.9	3877.9	4643.5	6441.1	8892.6	10783.8	11614.7	11328.0	12088.5	12124.7	8935.8
67.5°	2886.1	2992.7	3572.1	5062.9	7511.4	10329.1	11869.2	11343.1	11807.8	11707.2	8226.7
70°	1859.0	1940.5	2421.3	3510.8	5416.0	8620.0	11025.2	10565.5	10363.3	10140.0	6733.8
72.5°	858.1	962.7	1438.5	2005.9	3212.0	6140.3	8949.9	8583.8	7459.1	6907.9	4280.3
75°	374.2	400.4	710.2	1058.3	1505.9	3247.2	5900.9	5328.5	3368.9	3077.2	1713.1
77.5°	228.4	245.5	372.2	567.4	591.5	1237.3	3178.8	2324.7	1041.2	918.4	464.7
80°	154.9	174.0	270.6	296.8	202.2	345.0	1193.1	620.7	210.2	201.2	99.6
82.5°	75.4	95.6	200.2	166.0	87.5	110.7	347.1	132.8	61.4	57.3	35.2
85°	11.1	19.1	112.7	108.6	39.2	26.2	61.4	33.2	21.1	20.1	16.1
87.5°	0.0	0.0	38.2	17.1	4.0	4.0	7.0	7.0	8.0	7.0	8.0
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°	2606.4	2606.4	2606.4	2606.4	2606.4	2606.4	2606.4	2606.4	2606.4	2606.4	2606.4
2.5°	2626.5	2631.6	2612.4	2585.3	2556.1	2526.9	2485.7	2448.5	2426.3	2439.4	2407.2
5°	2673.8	2669.8	2619.5	2537.0	2427.4	2295.6	2164.8	2053.1	2016.9	1962.6	1956.6
7.5°	2739.2	2728.1	2621.5	2432.4	2184.9	1937.5	1696.0	1536.1	1444.5	1367.1	1369.1
10°	2830.7	2798.6	2598.4	2248.3	1840.9	1467.7	1159.9	948.6	857.1	827.9	804.8
12.5°	2925.3	2862.9	2534.0	1999.8	1433.5	1002.9	705.2	576.4	520.1	502.0	500.0
15°	3009.8	2911.2	2421.3	1701.1	1042.2	640.8	480.8	438.6	431.6	432.6	431.6
17.5°	3093.3	2949.4	2265.4	1384.2	708.2	459.7	413.4	403.4	406.4	410.4	409.4
20°	3162.7	2957.5	2066.2	1056.2	501.0	403.4	388.3	386.3	389.3	392.3	392.3
22.5°	3238.1	2963.5	1829.8	731.3	409.4	375.2	367.2	367.2	371.2	375.2	376.2
25°	3294.5	2930.3	1547.1	525.1	361.1	348.1	344.0	345.0	349.1	351.1	350.1
27.5°	3303.5	2836.8	1247.4	402.4	327.9	314.9	310.8	314.9	309.8	312.9	310.8
30°	3311.6	2718.1	943.6	339.0	297.8	277.6	271.6	265.6	261.5	256.5	255.5
32.5°	3336.7	2578.2	689.1	304.8	269.6	247.5	233.4	216.3	203.2	199.2	198.2
35°	3347.8	2410.3	506.0	277.6	244.4	220.3	195.2	171.0	151.9	144.9	149.9
37.5°	3390.0	2247.3	392.3	257.5	222.3	192.1	159.9	129.8	111.7	107.6	109.6
40°	3476.6	2070.2	328.9	240.4	203.2	166.0	126.7	97.6	85.5	81.5	80.5
42.5°	3615.4	1894.2	292.7	224.3	184.1	139.8	99.6	76.5	66.4	63.4	63.4
45°	3784.4	1725.2	267.6	207.2	164.0	112.7	78.5	61.4	55.3	53.3	53.3
47.5°	4006.7	1577.3	246.5	190.1	141.8	89.5	63.4	53.3	49.3	50.3	51.3
50°	4232.0	1467.7	223.3	171.0	116.7	73.4	54.3	47.3	46.3	47.3	47.3
52.5°	4402.0	1403.3	192.1	144.9	91.5	61.4	48.3	44.3	43.3	41.2	41.2
55°	4631.4	1389.2	152.9	117.7	72.4	51.3	43.3	40.2	37.2	35.2	34.2
57.5°	4926.1	1405.3	117.7	91.5	56.3	42.2	38.2	33.2	29.2	25.1	25.1
60°	5109.2	1369.1	91.5	70.4	41.2	34.2	29.2	24.1	19.1	16.1	15.1
62.5°	5050.9	1216.2	72.4	52.3	29.2	25.1	19.1	16.1	11.1	8.0	7.0
65°	4750.1	981.8	58.3	36.2	21.1	15.1	10.1	10.1	5.0	1.0	0.0
67.5°	4157.6	727.3	46.3	24.1	12.1	7.0	5.0	3.0	0.0	0.0	0.0
70°	3384.0	525.1	36.2	15.1	7.0	5.0	2.0	1.0	0.0	0.0	0.0
72.5°	2148.7	300.8	28.2	9.1	5.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	830.9	117.7	19.1	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	235.4	55.3	11.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	61.4	24.1	6.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.2	10.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.1	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	1.0	0.0	0.0	0.0	0.0	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)