

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: STREETWORKS

Report Number: P318638

Luminaire Tested: **GAN-SA4B-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19394 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

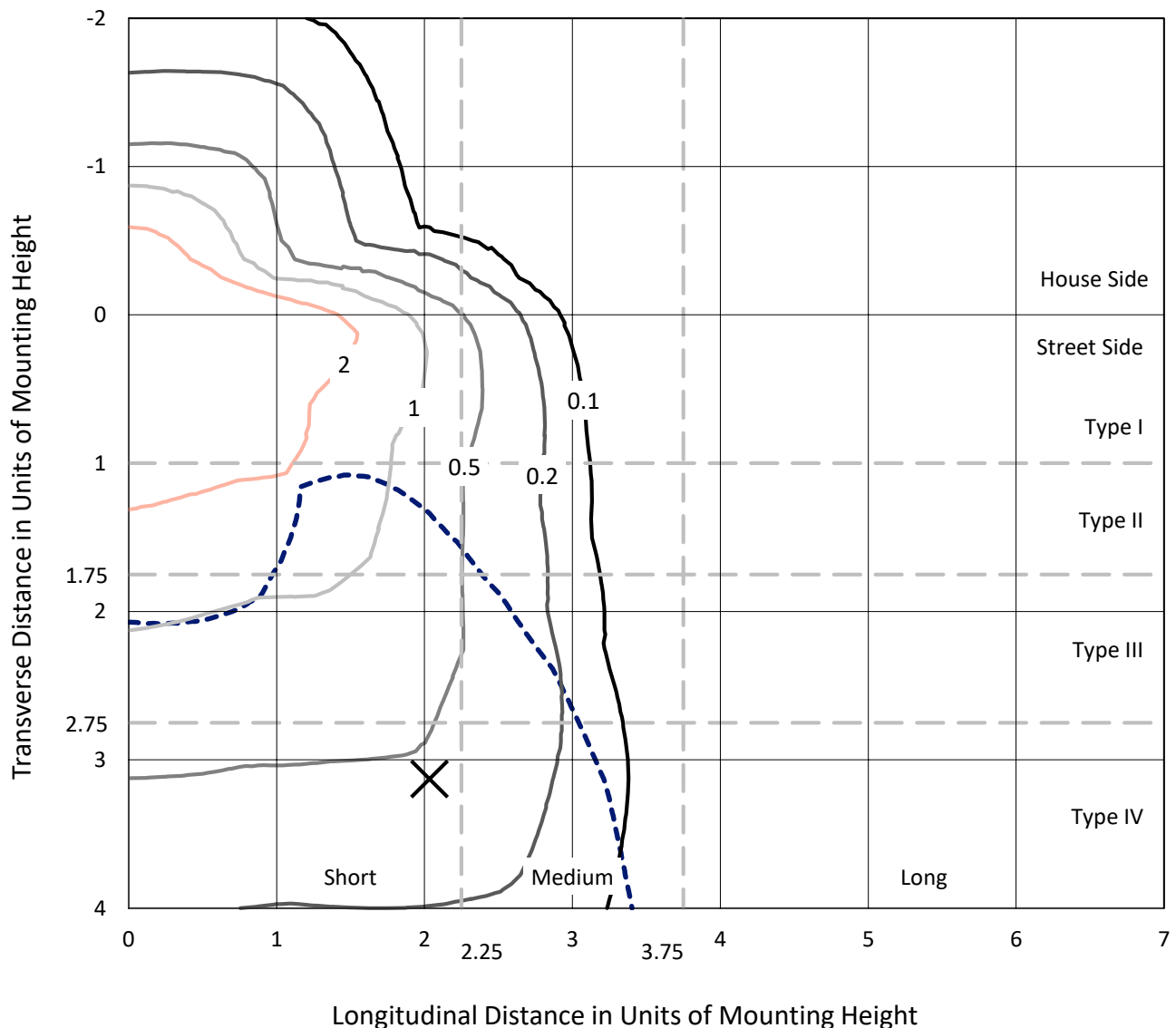
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

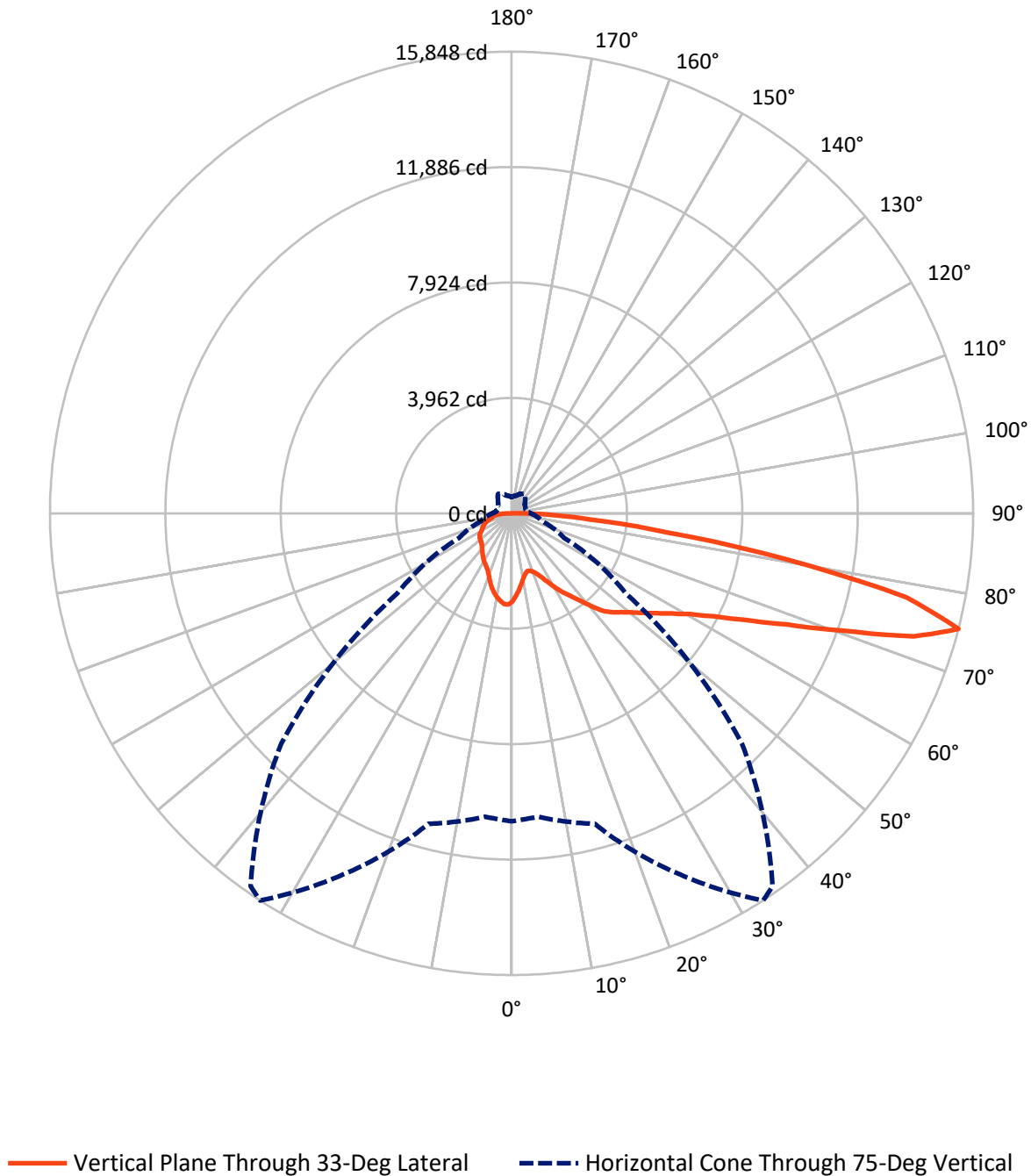
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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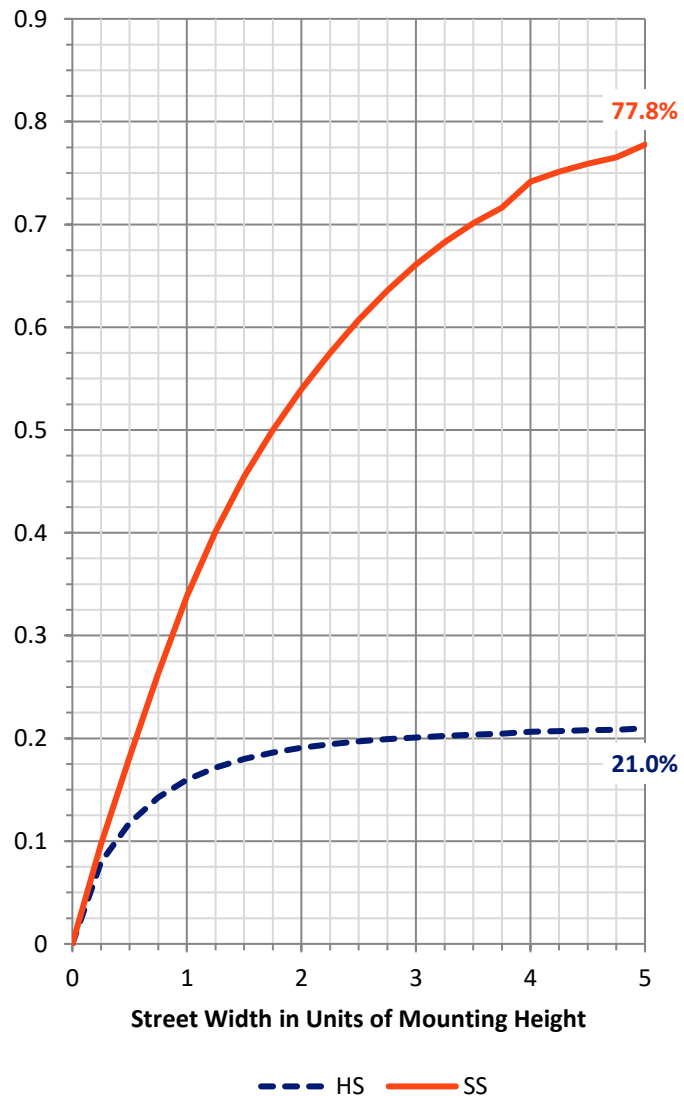
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4164.4	0.0	4164.4
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	15229.6	0.0	15229.6
	% Fixture	78.5	0.0	78.5
Total	Lumens	19394.0	0.0	19394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.1	1.4
10°-20°	742.5	3.8
20°-30°	1212.6	6.3
30°-40°	1805.9	9.3
40°-50°	2590.2	13.4
50°-60°	3555.9	18.3
60°-70°	4451.8	23.0
70°-80°	4027.3	20.8
80°-90°	733.6	3.8
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°	19394.0	100.0
0°-180°	19394.0	100.0

Coefficient of Utilization



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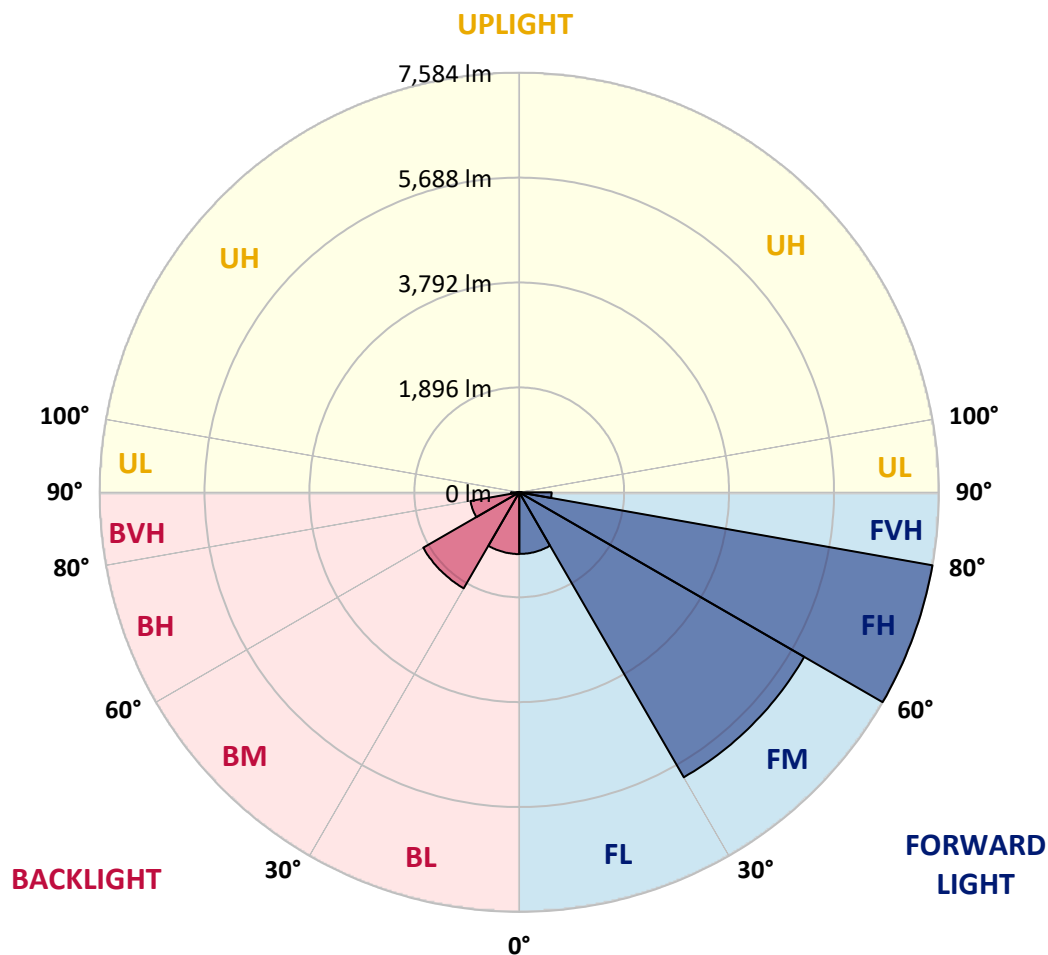
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1113.9	5.7			
FM	(30°-60°)	5947.7	30.7			
FH	(60°-80°)	7583.7	39.1			G4/12000
FVH	(80°-90°)	584.2	3.0			G4/750
BL	(0°-30°)	1115.4	5.8	B3/2500		
BM	(30°-60°)	2004.2	10.3	B2/2500		
BH	(60°-80°)	895.4	4.6	B2/1000		G2/1000
BVH	(80°-90°)	149.4	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°	33°	35°	45°	55°	65°	75°	85°
0°	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4
2.5°	2815.0	2804.3	2824.4	2827.1	2844.5	2851.2	2875.3	2912.8	2943.6	2979.1	3011.3
5°	2559.8	2552.4	2580.5	2600.6	2638.8	2654.9	2711.8	2791.6	2862.6	2943.0	3016.0
7.5°	2317.3	2313.2	2344.7	2390.3	2434.5	2456.6	2555.1	2671.0	2789.5	2919.5	3031.4
10°	2112.9	2111.6	2141.7	2186.6	2251.6	2276.4	2403.7	2556.4	2722.6	2901.4	3057.5
12.5°	1998.4	2003.1	2017.1	2054.6	2114.9	2139.7	2281.1	2460.6	2666.3	2895.4	3095.7
15°	2026.5	2033.9	2009.8	2008.4	2051.3	2070.7	2203.4	2392.3	2626.1	2905.4	3151.3
17.5°	2146.4	2147.8	2084.1	2043.9	2070.1	2080.1	2179.3	2353.4	2602.6	2928.2	3221.0
20°	2315.2	2311.9	2199.3	2132.4	2146.4	2149.1	2213.4	2354.1	2600.6	2967.7	3311.4
22.5°	2539.0	2514.2	2362.8	2271.7	2268.4	2264.3	2301.2	2403.7	2630.1	3032.1	3419.3
25°	2831.1	2807.6	2599.3	2474.7	2447.9	2437.8	2443.2	2509.5	2688.4	3101.1	3539.9
27.5°	3156.0	3115.1	2914.2	2738.0	2682.4	2668.3	2636.1	2658.9	2752.0	3167.4	3683.2
30°	3428.0	3405.9	3230.4	3021.3	2955.7	2935.6	2851.2	2826.4	2843.8	3257.8	3864.1
32.5°	3580.1	3565.3	3458.8	3290.0	3229.0	3200.9	3081.6	3032.1	2991.2	3400.5	4109.3
35°	3764.3	3754.9	3690.6	3568.0	3477.6	3448.1	3355.6	3304.0	3198.9	3596.8	4426.2
37.5°	3998.8	3988.7	3990.0	3890.9	3783.0	3755.6	3694.6	3640.3	3468.2	3854.7	4770.5
40°	4264.0	4244.6	4237.2	4232.6	4164.2	4148.8	4116.7	4043.0	3805.8	4162.9	5110.2
42.5°	4663.3	4594.3	4446.9	4502.5	4570.2	4562.2	4588.3	4482.4	4181.0	4527.3	5441.8
45°	5048.5	4935.3	4680.7	4692.8	4840.8	4885.7	5081.3	5006.3	4587.6	4926.6	5784.8
47.5°	5224.0	5138.3	4921.9	4922.6	5069.3	5162.4	5591.2	5537.6	5015.0	5380.1	6203.5
50°	5420.3	5334.6	5140.3	5213.3	5341.3	5440.4	6083.5	6056.1	5421.7	5876.5	6705.2
52.5°	5634.7	5489.3	5366.1	5496.7	5676.2	5791.5	6576.6	6501.6	5794.8	6376.3	7282.0
55°	5637.4	5597.9	5691.6	5787.4	6056.1	6197.4	7093.1	6894.8	6099.0	6867.4	7751.7
57.5°	5958.3	5894.0	6092.9	6137.1	6488.2	6647.6	7606.9	7237.2	6408.5	7243.9	8004.9
60°	6383.0	6328.1	6490.9	6607.4	7022.8	7235.8	8155.6	7588.9	6651.6	7527.9	7992.8
62.5°	7116.6	7054.3	7052.3	7215.7	7775.1	8023.0	8771.3	7933.9	6748.1	7584.2	7651.8
65°	8190.4	8091.3	7904.4	7982.1	8814.1	9061.3	9459.3	8183.8	6620.8	7282.7	6773.6
67.5°	9235.5	9232.2	9002.4	9161.8	10186.1	10384.4	10243.1	8208.5	6223.6	6232.9	5215.3
70°	10277.3	10290.7	10251.8	10806.5	12039.8	12246.1	11077.8	7875.6	5330.6	4501.2	3124.5
72.5°	11102.6	11099.2	11294.9	12725.1	14445.5	14399.3	11781.2	6866.7	3827.3	2429.8	1493.3
75°	10568.0	10451.4	11034.3	13675.1	15847.6	15621.9	11183.0	4789.9	1986.3	1106.0	803.9
77.5°	6892.8	7003.4	7858.8	11296.9	13862.0	13587.3	8204.5	2234.9	935.9	725.5	582.8
80°	2496.1	2612.7	3679.9	6399.1	9550.4	9505.5	4040.3	918.5	633.1	548.0	424.7
82.5°	858.8	901.7	1451.7	2841.8	5392.2	5593.2	1520.0	521.9	460.2	388.6	290.7
85°	337.0	385.9	663.9	1367.3	2719.9	2740.0	615.7	312.2	320.2	254.6	159.4
87.5°	128.0	155.4	317.5	635.1	1242.0	1140.9	220.4	148.7	182.2	151.4	75.7
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°	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4	3031.4
2.5°	3036.1	3050.1	3079.6	3099.7	3121.2	3127.2	3129.9	3135.2	3140.6	3138.6	3139.2
5°	3054.8	3082.3	3129.9	3150.0	3159.3	3148.6	3127.9	3111.1	3099.1	3092.4	3090.3
7.5°	3085.7	3124.5	3175.4	3172.1	3150.6	3103.1	3049.5	3009.3	2975.8	2963.7	2957.0
10°	3126.5	3172.1	3207.6	3169.4	3107.1	3024.7	2944.3	2882.0	2831.8	2812.3	2809.0
12.5°	3178.8	3225.0	3231.7	3150.6	3047.5	2934.9	2825.7	2743.3	2668.3	2644.2	2638.8
15°	3246.4	3290.0	3248.4	3117.8	2973.8	2822.4	2681.0	2569.1	2490.1	2460.6	2449.9
17.5°	3317.4	3359.0	3251.8	3063.5	2877.3	2689.1	2511.5	2397.0	2306.5	2272.4	2268.4
20°	3402.5	3421.3	3237.7	2985.8	2744.7	2516.2	2329.3	2221.5	2173.2	2149.1	2146.4
22.5°	3507.7	3487.6	3205.6	2880.7	2576.5	2316.6	2164.5	2114.3	2102.2	2096.9	2098.9
25°	3618.9	3557.3	3158.0	2743.3	2364.1	2116.9	2043.9	2058.0	2074.1	2072.1	2072.1
27.5°	3741.5	3628.3	3085.0	2561.1	2129.0	1953.5	1962.2	2013.8	2037.9	2037.2	2036.6
30°	3898.9	3708.7	2991.9	2342.0	1909.3	1838.3	1891.2	1954.2	1987.0	1985.6	1986.3
32.5°	4092.5	3797.1	2865.3	2097.5	1750.5	1753.2	1814.1	1876.4	1914.6	1911.3	1912.0
35°	4319.0	3896.3	2693.8	1856.4	1645.3	1685.5	1733.8	1777.3	1813.5	1808.8	1804.1
37.5°	4565.5	3993.4	2466.0	1640.6	1559.6	1622.5	1662.7	1670.1	1686.9	1674.8	1666.1
40°	4800.0	4067.8	2172.6	1463.8	1473.2	1569.0	1595.1	1565.6	1535.5	1531.4	1519.4
42.5°	5004.3	4092.5	1875.8	1322.4	1382.0	1512.7	1528.8	1467.1	1412.9	1387.4	1376.7
45°	5220.0	4101.3	1599.1	1203.8	1294.3	1462.4	1479.9	1397.5	1321.1	1266.2	1248.1
47.5°	5502.1	4164.2	1384.1	1116.1	1227.3	1428.9	1453.7	1341.9	1242.7	1164.3	1147.6
50°	5871.2	4288.8	1209.2	1049.1	1183.7	1406.8	1435.0	1287.6	1178.4	1083.9	1067.2
52.5°	6281.2	4403.4	1067.9	994.8	1141.5	1368.0	1410.9	1248.7	1118.1	1009.6	991.5
55°	6567.9	4315.6	954.0	938.6	1086.6	1312.4	1377.4	1215.9	1031.7	937.2	921.1
57.5°	6622.8	4015.5	867.5	880.3	1020.3	1242.7	1325.8	1142.9	984.8	905.7	889.0
60°	6472.8	3597.5	803.2	826.7	949.3	1154.9	1229.3	1091.3	939.9	872.2	858.2
62.5°	6095.6	3169.4	755.7	778.4	883.0	1065.8	1169.0	1037.0	894.3	834.1	820.0
65°	5333.9	2660.9	710.1	735.6	821.3	988.8	1114.7	986.8	849.5	803.2	789.8
67.5°	4026.2	1993.0	667.2	690.0	766.4	921.8	1055.8	937.2	805.9	776.4	760.4
70°	2370.8	1248.1	618.3	642.5	708.8	852.1	992.8	883.0	751.7	738.3	717.5
72.5°	1103.4	751.0	562.7	586.2	636.4	759.0	911.8	811.9	687.3	657.9	629.7
75°	658.5	549.3	497.1	517.8	553.4	659.9	809.9	739.6	626.4	587.5	558.0
77.5°	492.4	420.0	424.7	446.8	475.6	577.5	717.5	682.6	579.5	549.3	529.2
80°	354.4	318.9	346.3	370.5	400.6	525.2	687.3	631.1	523.9	483.7	464.9
82.5°	236.5	229.1	260.6	285.4	314.9	459.6	645.8	552.7	447.5	396.6	355.1
85°	130.6	138.0	175.5	186.2	211.7	323.6	529.2	444.2	337.0	271.3	259.3
87.5°	54.3	63.6	94.5	91.1	112.5	192.9	348.4	268.0	214.4	160.1	124.6
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)