

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: P322168

Luminaire Tested: **GAN-SA4C-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17388 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 225
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

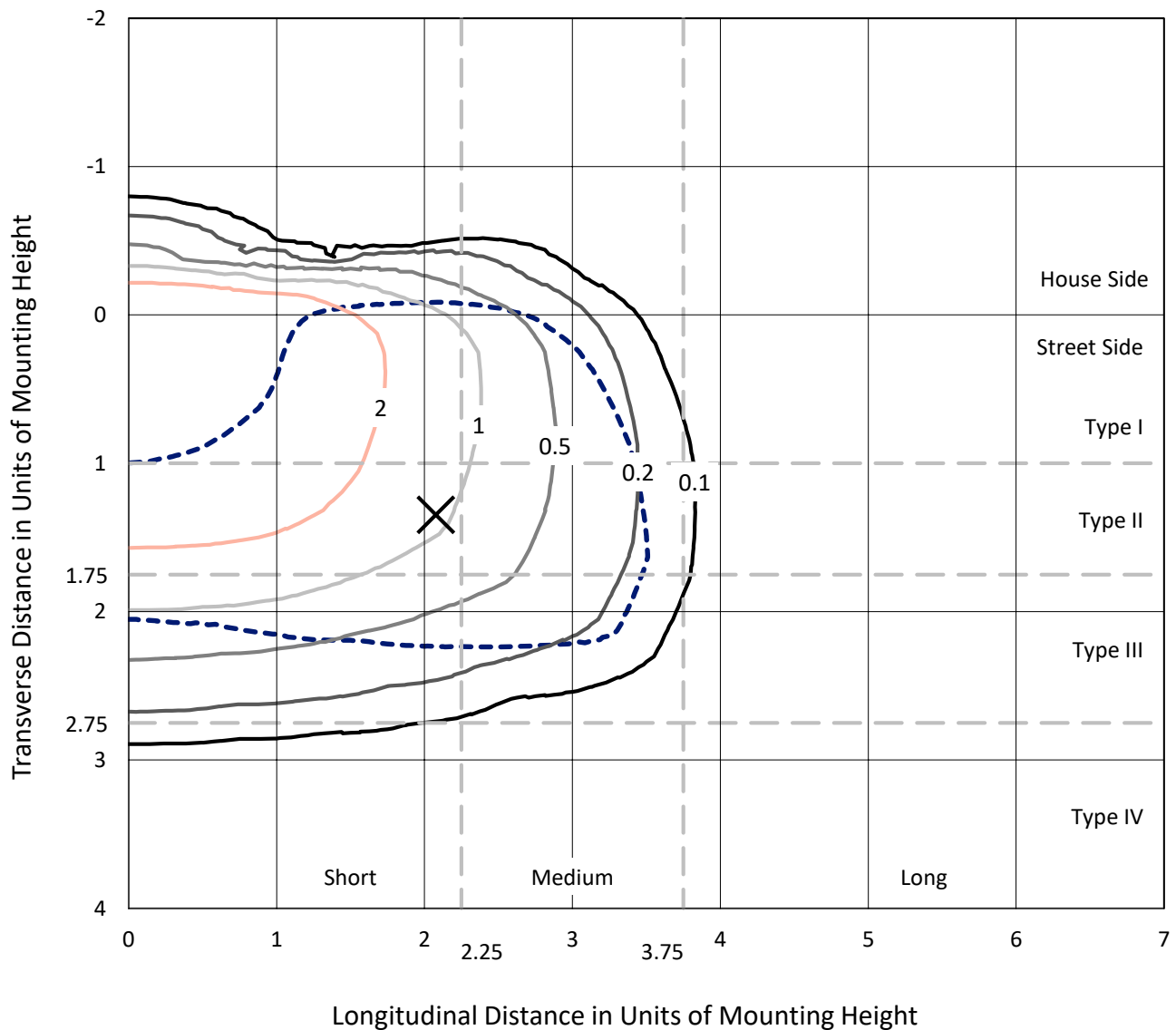


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Iso-Footcandle Lines of Horizontal Illumination

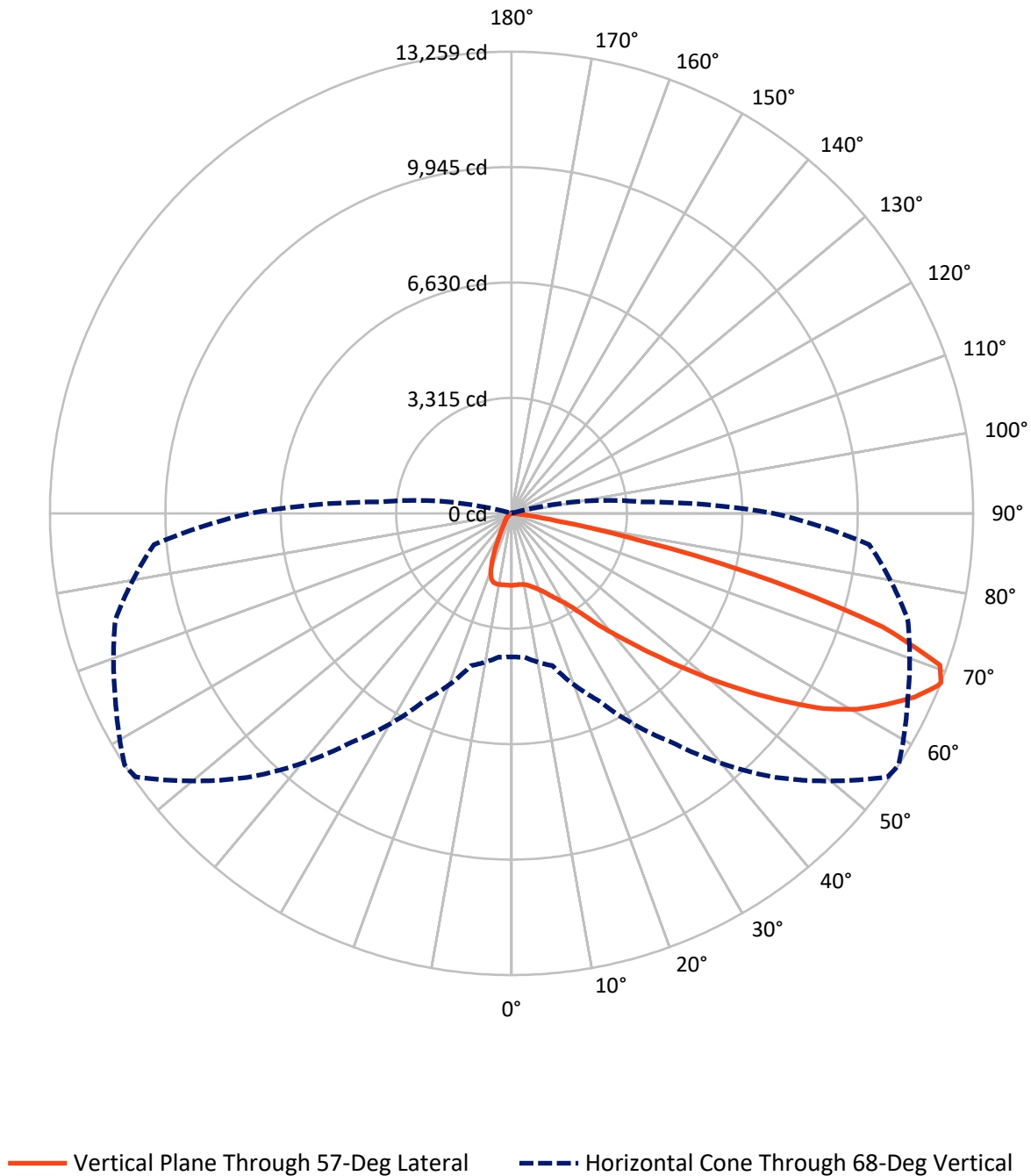
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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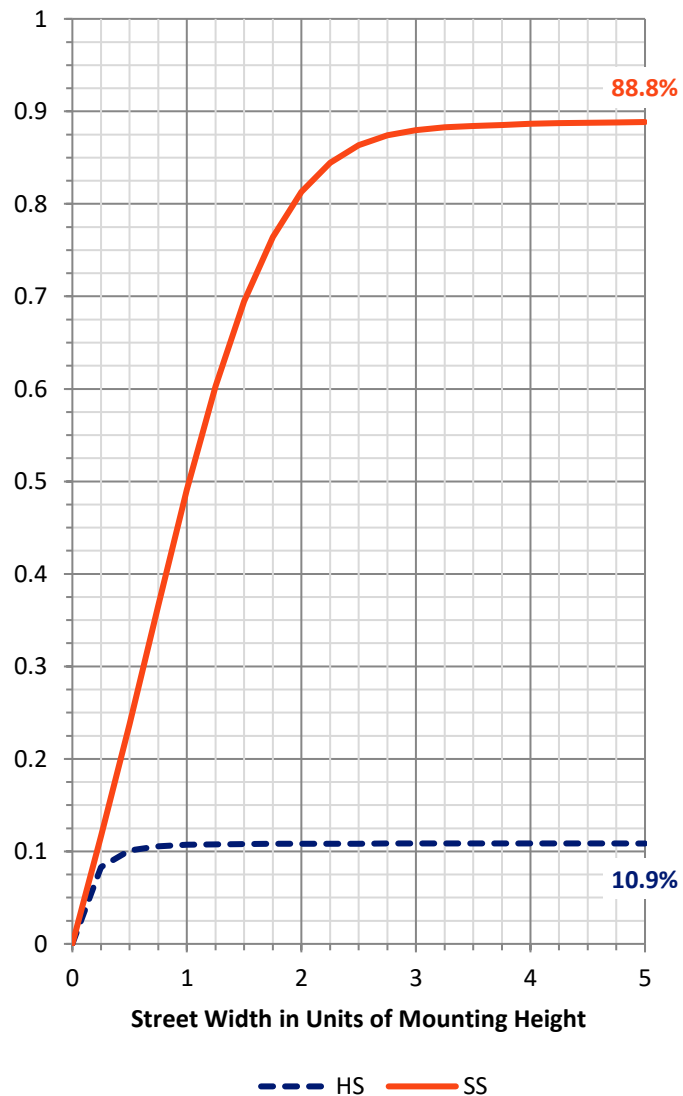
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1906.7	0.0	1906.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	15481.3	0.0	15481.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	17388.0	0.0	17388.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.4	1.1
10°-20°	535.8	3.1
20°-30°	924.3	5.3
30°-40°	1595.4	9.2
40°-50°	2728.9	15.7
50°-60°	4366.0	25.1
60°-70°	5044.4	29.0
70°-80°	1927.5	11.1
80°-90°	72.3	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°	17388.0	100.0
0°-180°	17388.0	100.0

Coefficient of Utilization



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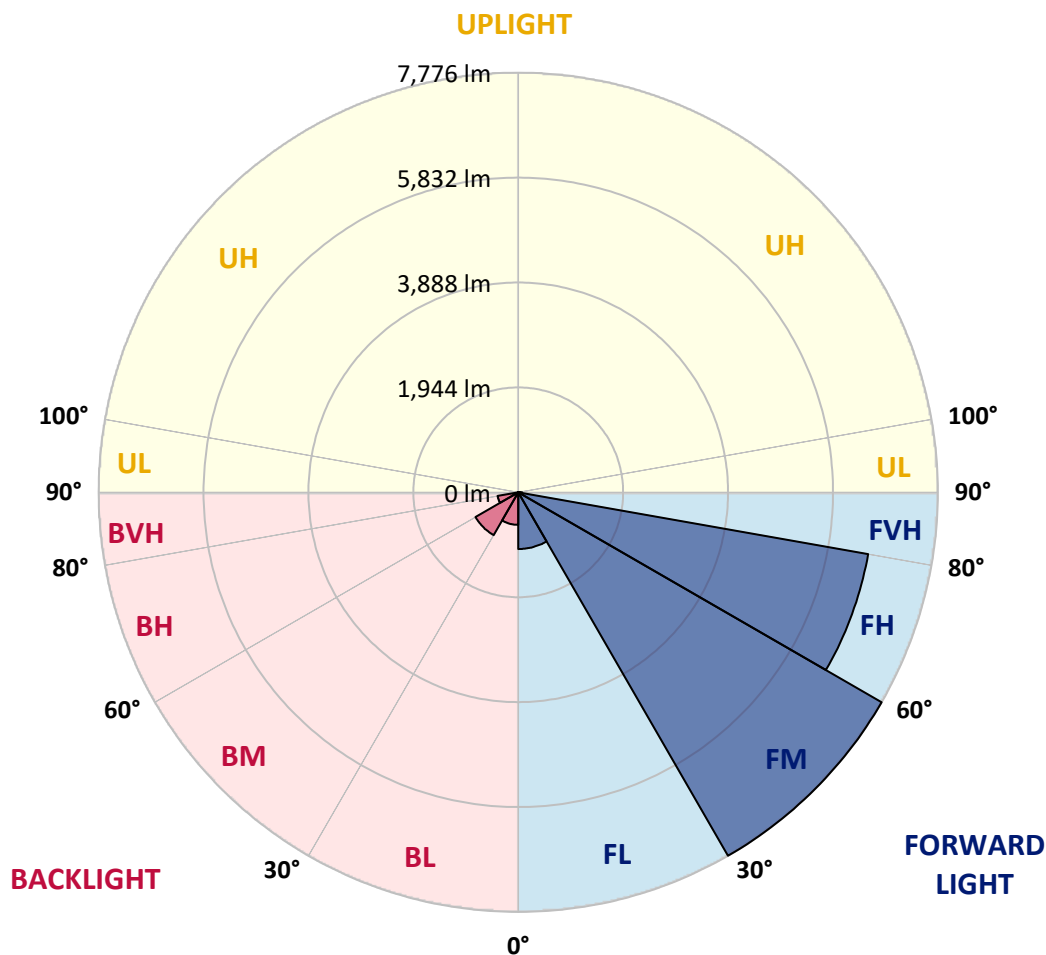
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1050.9	6.0			
FM	(30°-60°)	7775.8	44.7			
FH	(60°-80°)	6583.7	37.9			G3/7500
FVH	(80°-90°)	70.9	0.4			G1/100
BL	(0°-30°)	602.6	3.5	B2/1000		
BM	(30°-60°)	914.5	5.3	B1/1000		
BH	(60°-80°)	388.3	2.2	B1/500		G1/500
BVH	(80°-90°)	1.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2066.2	2066.2	2066.2	2066.2	2066.2	2066.2	2066.2	2066.2	2066.2	2066.2	2066.2
2.5°	2017.6	2026.7	2033.3	2037.4	2042.3	2053.0	2056.3	2061.2	2063.7	2063.7	2069.4
5°	1937.9	1947.8	1961.7	1973.2	1996.3	2025.9	2047.2	2055.5	2070.3	2083.4	2090.8
7.5°	1863.9	1875.4	1891.8	1919.0	1958.4	2006.1	2050.5	2062.0	2090.8	2118.8	2132.7
10°	1816.2	1825.3	1846.6	1885.3	1937.1	2003.7	2066.2	2080.1	2129.5	2176.3	2202.6
12.5°	1799.8	1808.0	1830.2	1873.8	1937.9	2016.0	2102.3	2122.9	2195.2	2263.5	2300.5
15°	1823.6	1825.3	1849.1	1890.2	1953.5	2046.4	2162.3	2187.0	2278.3	2367.1	2413.1
17.5°	1915.7	1908.3	1920.6	1938.7	1988.9	2086.7	2225.7	2262.7	2384.3	2488.8	2532.3
20°	2145.9	2145.9	2118.0	2068.6	2069.4	2149.2	2311.2	2353.1	2501.9	2622.8	2662.2
22.5°	2539.7	2532.3	2476.4	2355.6	2244.6	2256.9	2415.6	2469.8	2643.3	2772.4	2785.6
25°	3013.3	3004.3	2917.9	2747.7	2555.4	2431.2	2557.0	2619.5	2811.9	2926.2	2899.0
27.5°	3514.8	3507.4	3421.9	3210.6	2936.8	2709.1	2725.5	2784.7	2983.7	3096.4	3010.0
30°	4000.8	4003.2	3918.5	3701.5	3391.5	3063.5	2939.3	2973.8	3150.6	3264.9	3141.6
32.5°	4462.8	4466.1	4392.9	4150.4	3861.0	3475.4	3235.3	3226.3	3344.7	3457.3	3315.9
35°	4874.7	4883.0	4832.8	4644.5	4337.9	3934.2	3619.3	3597.9	3620.1	3747.5	3583.1
37.5°	5271.9	5276.8	5239.0	5080.3	4823.8	4438.2	4104.4	4073.9	4026.2	4124.1	3935.8
40°	5706.8	5694.5	5650.9	5507.0	5286.7	4994.8	4625.6	4573.0	4490.0	4577.1	4399.5
42.5°	6111.3	6097.3	6104.7	5941.9	5756.1	5567.0	5233.2	5142.8	5094.3	5194.6	4968.5
45°	6617.0	6609.6	6634.2	6492.8	6342.3	6205.0	5929.6	5830.9	5809.6	5927.1	5656.6
47.5°	7116.0	7134.1	7210.6	7150.5	7089.7	6968.8	6667.1	6622.7	6635.9	6778.1	6382.6
50°	7532.0	7553.4	7763.1	7832.1	7920.1	7849.4	7546.8	7519.7	7571.5	7699.8	7163.7
52.5°	7833.0	7876.5	8137.2	8455.4	8776.0	8823.7	8522.0	8497.3	8567.2	8586.9	7767.2
55°	8041.8	8080.4	8375.6	8957.7	9610.5	9816.1	9628.6	9533.2	9520.1	9325.2	8401.9
57.5°	8078.8	8074.7	8498.9	9282.5	10265.0	10795.3	10676.9	10583.2	10313.5	10007.6	9129.6
60°	7870.0	7893.8	8386.3	9395.1	10676.1	11536.1	11545.1	11423.4	11003.3	10671.1	9835.0
62.5°	7227.0	7324.0	7821.5	9100.0	10671.1	11834.5	12181.5	12088.6	11586.2	11214.6	10550.3
65°	6184.5	6219.0	6693.4	8088.7	9950.1	11709.6	12754.6	12720.0	12111.6	11742.5	10917.8
67.5°	4516.3	4441.4	4939.7	6369.5	8424.1	10981.1	13165.7	13209.2	12517.0	11851.0	10526.4
68°	4121.6	4143.8	4531.9	5944.4	8024.5	10723.8	13192.8	13259.4	12557.2	11780.3	10312.7
70°	2456.7	2499.4	2845.6	4092.8	6104.7	9267.7	12900.1	13052.2	12317.2	11051.0	8919.9
72.5°	627.3	678.3	1005.5	1831.8	3486.9	6529.8	10889.9	11147.2	10694.2	8965.1	6021.7
75°	258.2	271.3	359.3	603.5	1299.1	2941.8	7177.7	7728.5	7413.6	5367.2	2721.4
77.5°	178.4	187.5	231.0	334.6	562.4	997.3	3519.0	3916.9	3528.8	1831.8	593.6
80°	128.3	135.7	165.3	222.8	323.1	356.0	1146.9	1326.2	1053.2	402.0	147.2
82.5°	76.5	82.2	123.3	158.7	196.5	170.2	285.3	323.9	305.0	199.8	65.8
85°	37.8	44.4	83.0	113.5	106.1	71.5	87.2	97.0	120.0	121.7	35.4
87.5°	2.5	4.9	48.5	68.2	29.6	16.4	25.5	31.2	42.8	60.0	14.8
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°	2066.2	2066.2	2066.2	2066.2	2066.2	2066.2	2066.2	2066.2	2066.2	2066.2	2066.2
2.5°	2071.9	2072.7	2067.0	2064.5	2066.2	2056.3	2052.2	2053.8	2053.8	2056.3	2052.2
5°	2092.5	2092.5	2082.6	2069.4	2062.0	2043.1	2030.8	2027.5	2025.0	2023.4	2020.1
7.5°	2136.9	2131.9	2114.7	2085.9	2061.2	2020.1	1988.9	1972.4	1964.2	1960.9	1958.4
10°	2208.4	2199.3	2170.6	2117.1	2060.4	1987.2	1919.0	1870.5	1830.2	1813.7	1803.9
12.5°	2304.6	2291.4	2242.9	2154.1	2054.6	1919.8	1771.8	1629.6	1497.2	1442.9	1415.8
15°	2415.6	2396.7	2320.2	2185.4	2020.9	1767.7	1446.2	1197.1	1013.8	944.7	915.1
17.5°	2528.2	2503.6	2387.6	2205.1	1919.8	1452.8	1014.6	766.3	643.8	610.9	599.4
20°	2641.7	2605.5	2446.0	2190.3	1691.2	1047.5	669.3	559.9	524.6	514.7	511.4
22.5°	2749.4	2693.5	2498.6	2132.7	1339.3	703.0	529.5	495.0	483.4	477.7	476.0
25°	2843.1	2765.0	2544.7	1955.2	948.0	531.1	476.9	465.4	450.6	439.9	440.7
27.5°	2931.1	2836.5	2572.6	1662.5	632.3	453.8	441.5	425.9	398.8	383.1	383.1
30°	3037.2	2931.9	2593.2	1279.3	465.4	401.2	391.4	367.5	330.5	310.0	310.0
32.5°	3196.7	3076.6	2580.0	897.8	385.6	352.7	329.7	296.8	256.5	236.8	236.0
35°	3440.8	3300.3	2486.3	588.7	340.4	306.7	269.7	229.4	194.0	177.6	176.8
37.5°	3769.7	3599.5	2275.8	421.0	305.0	263.9	219.5	175.1	148.8	138.1	137.3
40°	4196.4	3947.3	1974.9	341.2	272.1	222.8	169.4	135.7	117.6	109.4	110.2
42.5°	4708.7	4319.8	1614.0	294.3	240.1	183.3	132.4	106.9	95.4	89.6	88.0
45°	5277.6	4687.3	1235.7	262.3	208.0	148.0	103.6	84.7	75.6	72.4	72.4
47.5°	5903.3	5044.9	904.4	234.3	173.5	114.3	83.0	69.1	61.7	59.2	58.4
50°	6471.4	5293.2	652.0	204.7	142.2	90.4	67.4	57.6	52.6	49.3	49.3
52.5°	6945.0	5371.3	480.2	172.7	115.1	72.4	55.9	49.3	44.4	41.9	41.9
55°	7361.9	5339.3	356.8	142.2	92.9	59.2	47.7	41.9	37.8	35.4	35.4
57.5°	7761.4	5235.7	266.4	115.9	74.8	47.7	40.3	35.4	31.2	29.6	29.6
60°	8087.8	5063.0	198.1	93.7	60.0	38.6	33.7	28.8	25.5	23.0	23.0
62.5°	8352.6	4872.3	145.5	77.3	47.7	30.4	26.3	23.8	18.9	16.4	16.4
65°	8354.2	4555.7	109.4	64.1	37.0	23.8	19.7	18.9	12.3	9.9	9.0
67.5°	7749.9	3927.6	83.9	55.1	28.8	18.1	14.8	15.6	6.6	4.1	3.3
68°	7530.4	3768.1	78.9	54.3	27.1	17.3	14.0	15.6	5.8	3.3	2.5
70°	6348.9	2997.7	63.3	52.6	23.8	13.2	11.5	15.6	4.9	2.5	1.6
72.5°	4060.8	1739.7	46.9	41.9	18.1	9.9	7.4	14.0	4.9	1.6	0.8
75°	1728.2	539.4	32.1	29.6	10.7	7.4	4.9	9.0	3.3	0.8	0.0
77.5°	364.2	121.7	18.9	18.1	7.4	4.9	3.3	2.5	0.8	0.0	0.0
80°	93.7	35.4	9.9	9.0	4.1	2.5	1.6	0.0	0.0	0.0	0.0
82.5°	29.6	14.0	5.8	4.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.8	8.2	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	2.5	0.8	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)