

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: P842631

Luminaire Tested: **ARCH4-70-750-U-T2R**

Issue Date: 5/27/2024

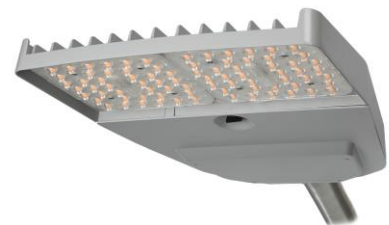
Test Information

Test Method: LM-79-08
Report Number: P842631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-70-750-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13526 lumens
Efficiency: N/A
Efficacy: 183.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 73.8
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



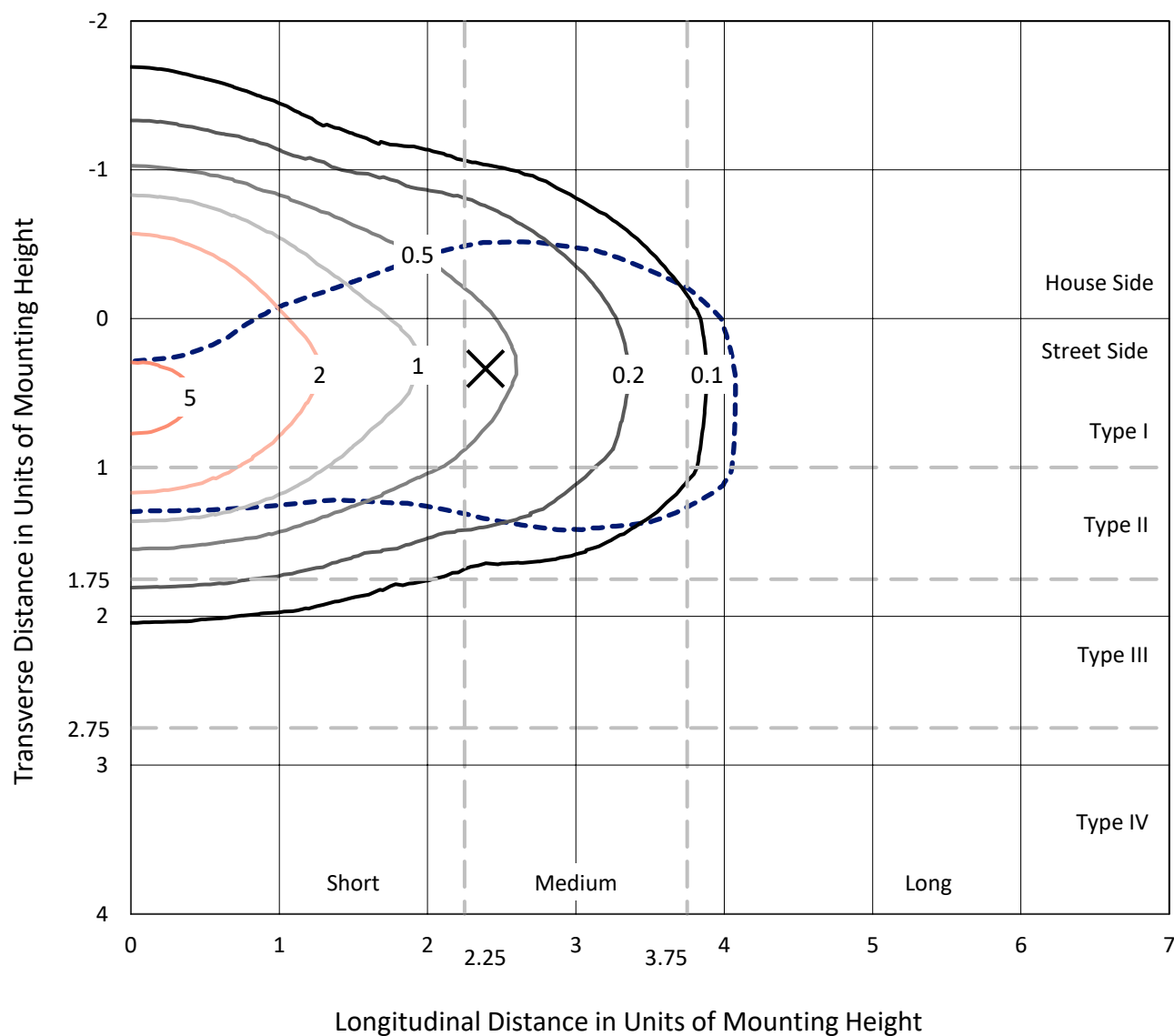
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

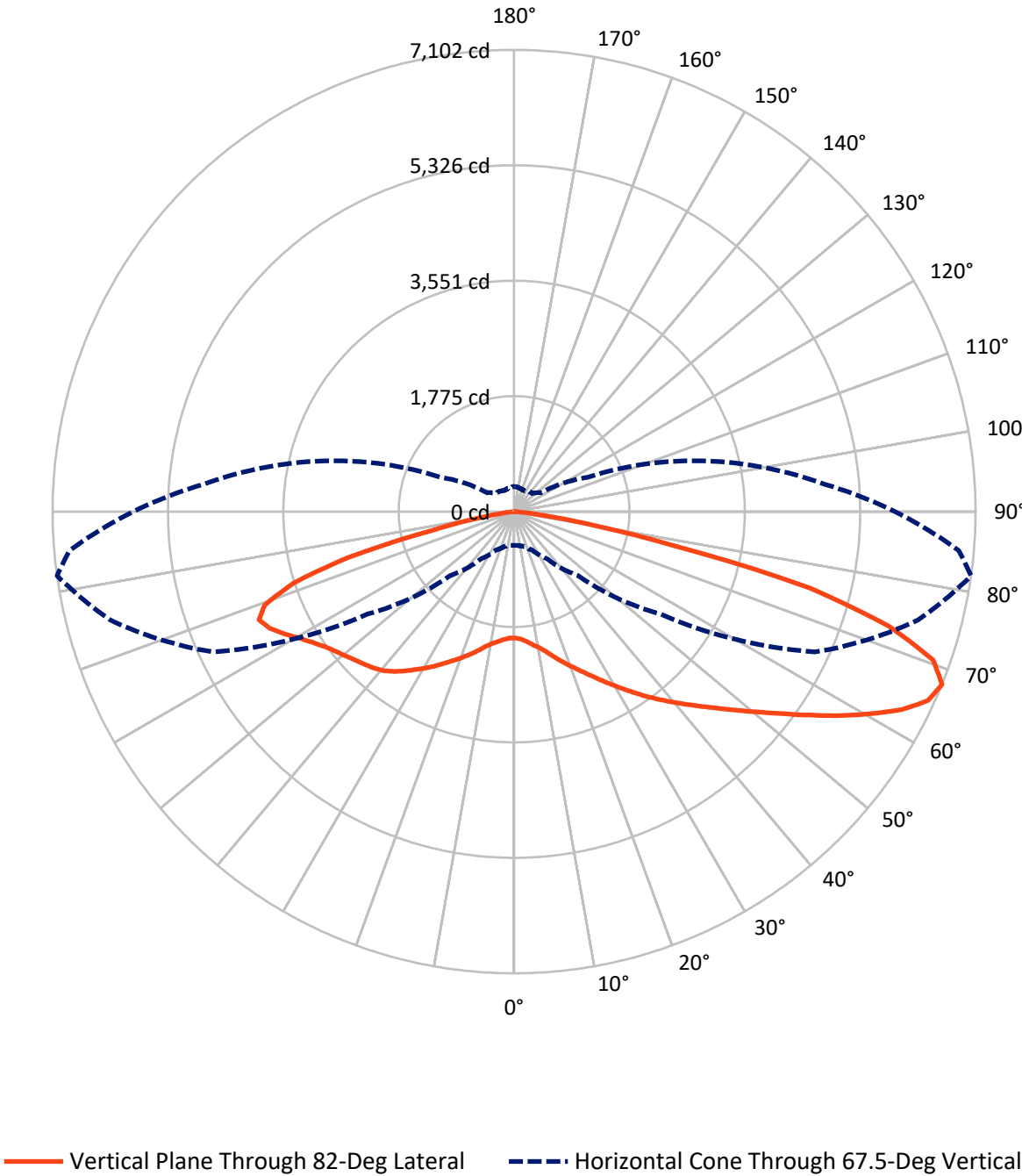
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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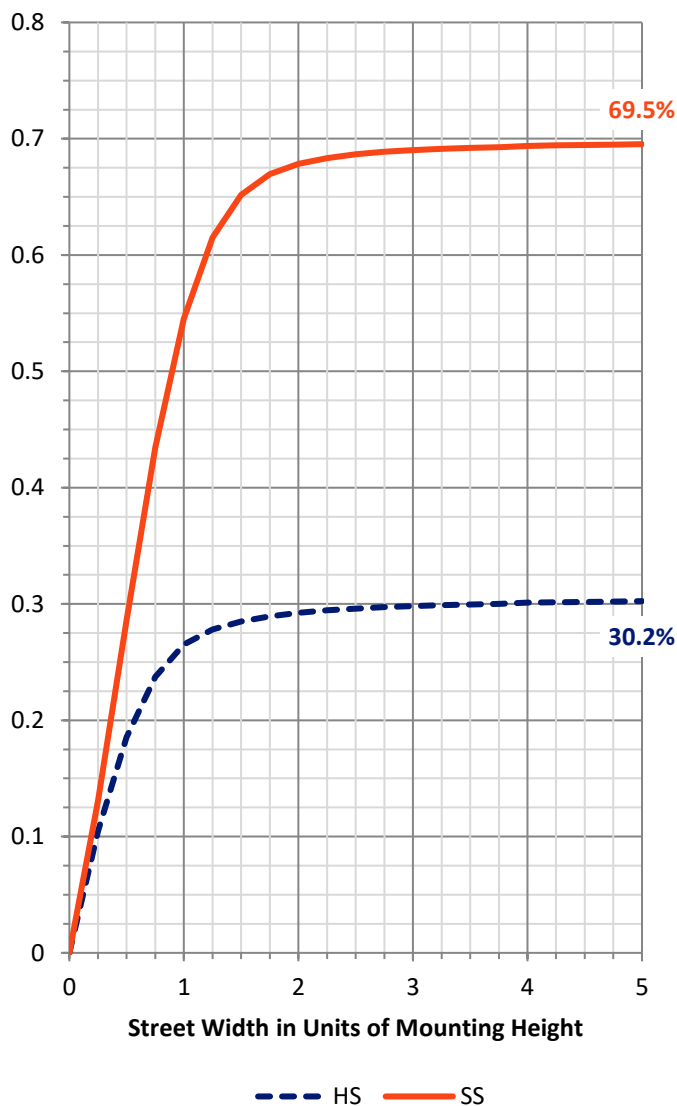
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4119.2	0.0	4119.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	9406.8	0.0	9406.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	13526.0	0.0	13526.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.9	1.5
10°-20°	723.8	5.4
20°-30°	1454.7	10.8
30°-40°	2285.1	16.9
40°-50°	2783.7	20.6
50°-60°	2630.2	19.4
60°-70°	2171.9	16.1
70°-80°	1182.7	8.7
80°-90°	93.0	0.7
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°	13526.0	100.0
0°-180°	13526.0	100.0

Coefficient of Utilization



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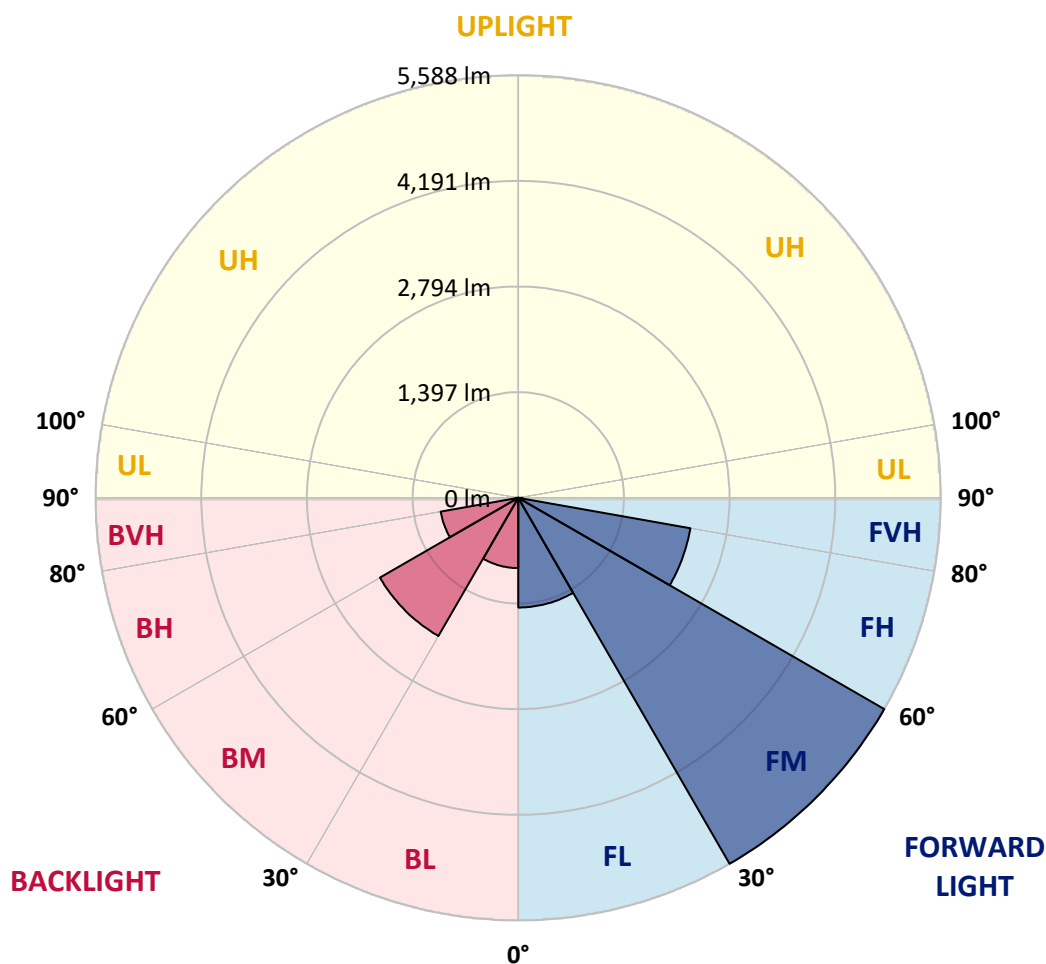
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1450.5	10.7			
FM	(30°-60°)	5588.2	41.3			
FH	(60°-80°)	2312.1	17.1			G2/5000
FVH	(80°-90°)	56.1	0.4			G1/100
BL	(0°-30°)	928.9	6.9	B2/1000		
BM	(30°-60°)	2110.8	15.6	B2/2500		
BH	(60°-80°)	1042.6	7.7	B3/2500		G3/2500
BVH	(80°-90°)	36.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1944.4	1944.4	1944.4	1944.4	1944.4	1944.4	1944.4	1944.4	1944.4	1944.4	1944.4
2.5°	2032.7	2032.7	2048.4	2048.4	2034.7	2013.1	2007.2	1983.6	1962.0	1962.0	1964.0
5°	2227.2	2225.2	2237.0	2221.3	2187.9	2144.7	2115.2	2064.2	2021.0	2007.2	2005.2
7.5°	2464.8	2462.9	2468.7	2443.2	2380.4	2309.7	2250.7	2168.3	2097.5	2068.1	2060.2
10°	2730.0	2728.0	2722.1	2678.9	2594.4	2484.5	2396.1	2282.2	2176.1	2129.0	2119.2
12.5°	3034.4	3030.4	3016.7	2953.8	2838.0	2696.6	2568.9	2421.6	2280.2	2215.4	2193.8
15°	3374.1	3368.3	3342.7	3266.1	3111.0	2932.2	2767.3	2578.7	2405.9	2321.4	2292.0
17.5°	3731.6	3731.6	3692.3	3578.4	3405.6	3183.6	2979.4	2739.8	2537.5	2433.4	2398.0
20°	4094.9	4093.0	4043.9	3906.4	3702.1	3446.8	3187.6	2924.4	2673.0	2547.3	2504.1
22.5°	4477.9	4474.0	4413.1	4256.0	4012.4	3723.7	3421.3	3107.0	2822.3	2671.0	2616.0
25°	4917.8	4912.0	4837.3	4644.8	4356.1	4030.1	3684.5	3321.1	2993.1	2808.5	2743.7
27.5°	5385.3	5377.4	5289.0	5065.1	4748.9	4356.1	3975.1	3568.6	3181.7	2961.7	2889.0
30°	5801.6	5795.8	5699.5	5469.7	5106.4	4680.2	4252.1	3816.0	3380.0	3124.7	3034.4
32.5°	6115.9	6115.9	6029.5	5803.6	5426.5	4990.5	4530.9	4049.8	3586.3	3299.5	3193.5
35°	6306.4	6312.3	6237.6	6057.0	5701.5	5283.1	4819.6	4324.7	3806.2	3486.1	3372.2
37.5°	6333.9	6353.5	6310.3	6188.5	5892.0	5526.7	5102.5	4589.9	4034.0	3674.6	3547.0
40°	6206.2	6220.0	6221.9	6174.8	5970.5	5701.5	5351.9	4870.7	4275.6	3873.0	3725.7
42.5°	5950.9	5960.7	5978.4	5992.2	5913.6	5778.1	5542.4	5131.9	4532.9	4075.3	3902.5
45°	5621.0	5619.0	5648.5	5707.4	5703.4	5734.9	5648.5	5369.6	4800.0	4305.1	4098.9
47.5°	5128.0	5118.2	5222.3	5355.8	5422.6	5569.9	5650.4	5556.1	5090.7	4558.4	4322.8
50°	4356.1	4346.3	4574.1	4888.4	5084.8	5308.7	5542.4	5668.1	5395.1	4843.2	4566.3
52.5°	3417.4	3407.5	3696.2	4246.2	4674.3	5000.3	5324.4	5693.6	5683.8	5161.4	4841.2
55°	2541.4	2533.6	2814.4	3409.5	4102.8	4642.9	5057.3	5626.8	5954.8	5526.7	5175.1
57.5°	1791.2	1787.2	2030.8	2523.7	3368.3	4206.9	4800.0	5497.2	6204.3	5923.4	5552.2
60°	1257.0	1251.1	1427.8	1808.8	2547.3	3548.9	4544.7	5324.4	6390.8	6314.2	5952.9
62.5°	846.5	842.6	968.2	1286.4	1808.8	2731.9	4157.8	5208.5	6496.9	6707.0	6357.5
65°	642.2	640.3	697.2	872.0	1280.5	1962.0	3543.0	5194.8	6510.6	7001.6	6701.2
67.5°	518.5	520.5	551.9	652.0	885.8	1394.4	2747.6	5108.4	6438.0	7101.8	6868.1
70°	424.2	424.2	438.0	504.7	654.0	940.8	1918.8	4715.6	6235.7	6840.6	6669.7
72.5°	324.1	326.0	369.2	408.5	493.0	659.9	1229.5	3902.5	5758.4	6031.4	5901.8
75°	257.3	255.3	280.9	335.8	383.0	471.4	754.2	2798.7	4900.2	4713.6	4631.1
77.5°	184.6	182.7	202.3	249.4	290.7	333.9	449.8	1412.1	2665.1	2449.1	2388.2
80°	125.7	121.8	139.4	172.8	192.5	196.4	220.0	542.1	1162.7	1095.9	1082.2
82.5°	64.8	64.8	74.6	98.2	100.2	102.1	98.2	174.8	384.9	359.4	343.7
85°	25.5	25.5	27.5	33.4	33.4	35.4	35.4	45.2	41.2	39.3	37.3
87.5°	2.0	2.0	3.9	3.9	5.9	5.9	5.9	7.9	9.8	9.8	9.8
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°	1944.4	1944.4	1944.4	1944.4	1944.4	1944.4	1944.4	1944.4	1944.4	1944.4	1944.4
2.5°	1960.1	1952.2	1926.7	1920.8	1916.9	1911.0	1912.9	1899.2	1893.3	1895.3	1887.4
5°	1995.4	1981.7	1950.2	1936.5	1932.6	1926.7	1932.6	1922.8	1912.9	1916.9	1912.9
7.5°	2044.5	2024.9	1985.6	1971.9	1969.9	1964.0	1971.9	1964.0	1956.1	1960.1	1952.2
10°	2095.6	2070.1	2026.8	2013.1	2013.1	2011.1	2019.0	2007.2	1999.3	2001.3	1997.4
12.5°	2170.2	2136.8	2089.7	2077.9	2072.0	2077.9	2079.9	2064.2	2050.4	2052.4	2046.5
15°	2260.6	2223.2	2172.2	2154.5	2150.6	2148.6	2140.8	2121.1	2103.4	2101.5	2095.6
17.5°	2358.8	2311.6	2250.7	2233.1	2215.4	2209.5	2189.9	2164.3	2136.8	2136.8	2129.0
20°	2453.0	2400.0	2327.3	2301.8	2276.3	2252.7	2219.3	2178.1	2142.7	2136.8	2129.0
22.5°	2555.2	2492.3	2407.9	2370.5	2325.4	2278.2	2221.3	2166.3	2121.1	2111.3	2105.4
25°	2669.1	2590.5	2490.3	2435.4	2362.7	2290.0	2205.6	2134.9	2081.8	2066.1	2062.2
27.5°	2794.8	2700.5	2578.7	2498.2	2392.1	2278.2	2170.2	2085.8	2021.0	2001.3	1995.4
30°	2922.4	2810.5	2659.2	2541.4	2392.1	2240.9	2105.4	2007.2	1932.6	1905.1	1901.1
32.5°	3050.1	2924.4	2731.9	2565.0	2368.6	2178.1	2021.0	1905.1	1820.6	1787.2	1795.1
35°	3203.3	3050.1	2798.7	2574.8	2329.3	2101.5	1924.7	1789.2	1702.8	1673.3	1679.2
37.5°	3362.4	3175.8	2851.7	2566.9	2274.3	2015.1	1816.7	1685.1	1577.1	1526.0	1531.9
40°	3499.8	3289.7	2889.0	2539.4	2203.6	1916.9	1710.6	1537.8	1388.5	1339.4	1333.6
42.5°	3629.5	3374.1	2908.7	2498.2	2123.1	1802.9	1559.4	1337.5	1188.2	1127.3	1129.3
45°	3765.0	3456.6	2900.8	2443.2	2022.9	1669.4	1365.0	1141.1	1009.5	954.5	956.5
47.5°	3920.1	3545.0	2893.0	2384.3	1901.1	1496.6	1178.4	968.2	854.3	815.1	811.1
50°	4085.1	3643.2	2883.1	2311.6	1765.6	1304.1	993.8	807.2	711.0	685.4	679.5
52.5°	4271.7	3749.3	2877.3	2225.2	1602.6	1099.8	828.8	665.8	601.0	583.3	581.3
55°	4495.6	3873.0	2885.1	2121.1	1406.2	907.4	689.4	573.5	530.3	520.5	518.5
57.5°	4768.6	4032.1	2908.7	1999.3	1200.0	740.4	587.2	516.5	489.0	481.2	481.2
60°	5065.1	4212.8	2951.9	1861.9	993.8	610.8	520.5	471.4	459.6	469.4	469.4
62.5°	5385.3	4424.9	3028.5	1694.9	801.3	516.5	467.4	434.0	426.2	445.8	447.8
65°	5681.8	4631.1	3077.6	1494.6	636.3	447.8	426.2	396.7	400.7	420.3	418.3
67.5°	5864.5	4802.0	3008.8	1243.2	504.7	396.7	383.0	357.4	367.3	383.0	384.9
70°	5752.5	4705.7	2669.1	938.8	394.8	345.7	335.8	320.1	328.0	347.6	355.5
72.5°	5204.6	4214.7	2075.9	634.4	318.2	290.7	294.6	286.7	296.6	314.2	331.9
75°	4224.6	3185.6	1392.5	406.5	251.4	247.5	253.4	247.5	251.4	269.1	278.9
77.5°	2205.6	1553.5	693.3	253.4	186.6	192.5	202.3	204.3	216.0	220.0	223.9
80°	1029.1	699.2	288.7	141.4	123.7	135.5	155.2	157.1	161.0	166.9	168.9
82.5°	335.8	210.1	133.6	76.6	70.7	76.6	100.2	119.8	121.8	133.6	133.6
85°	35.4	21.6	29.5	31.4	27.5	33.4	45.2	43.2	19.6	11.8	11.8
87.5°	9.8	7.9	9.8	9.8	7.9	7.9	5.9	2.0	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)