

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: P836907

Luminaire Tested: **ARCH3-90-730-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14252 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 93.1
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

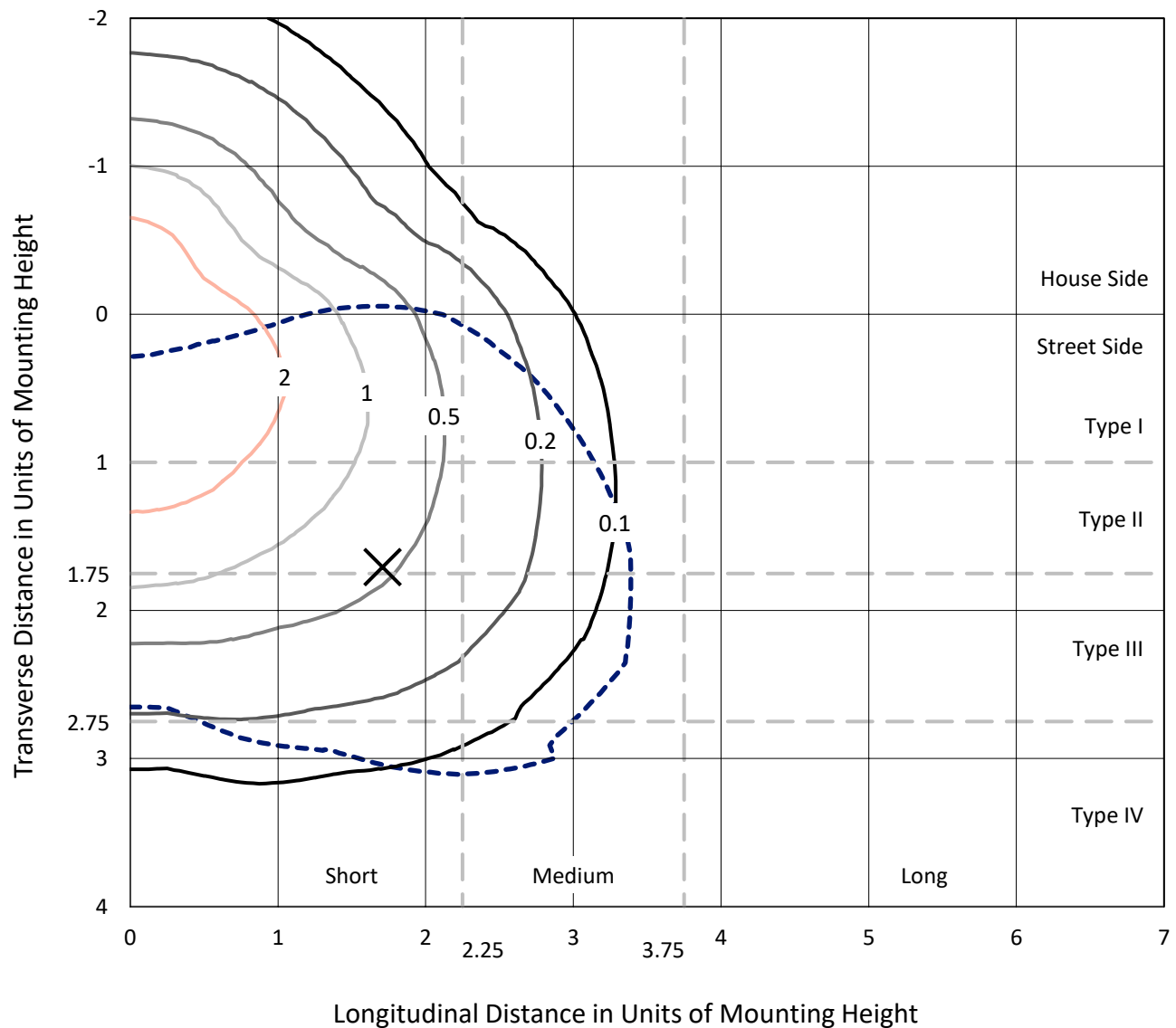


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Iso-Footcandle Lines of Horizontal Illumination

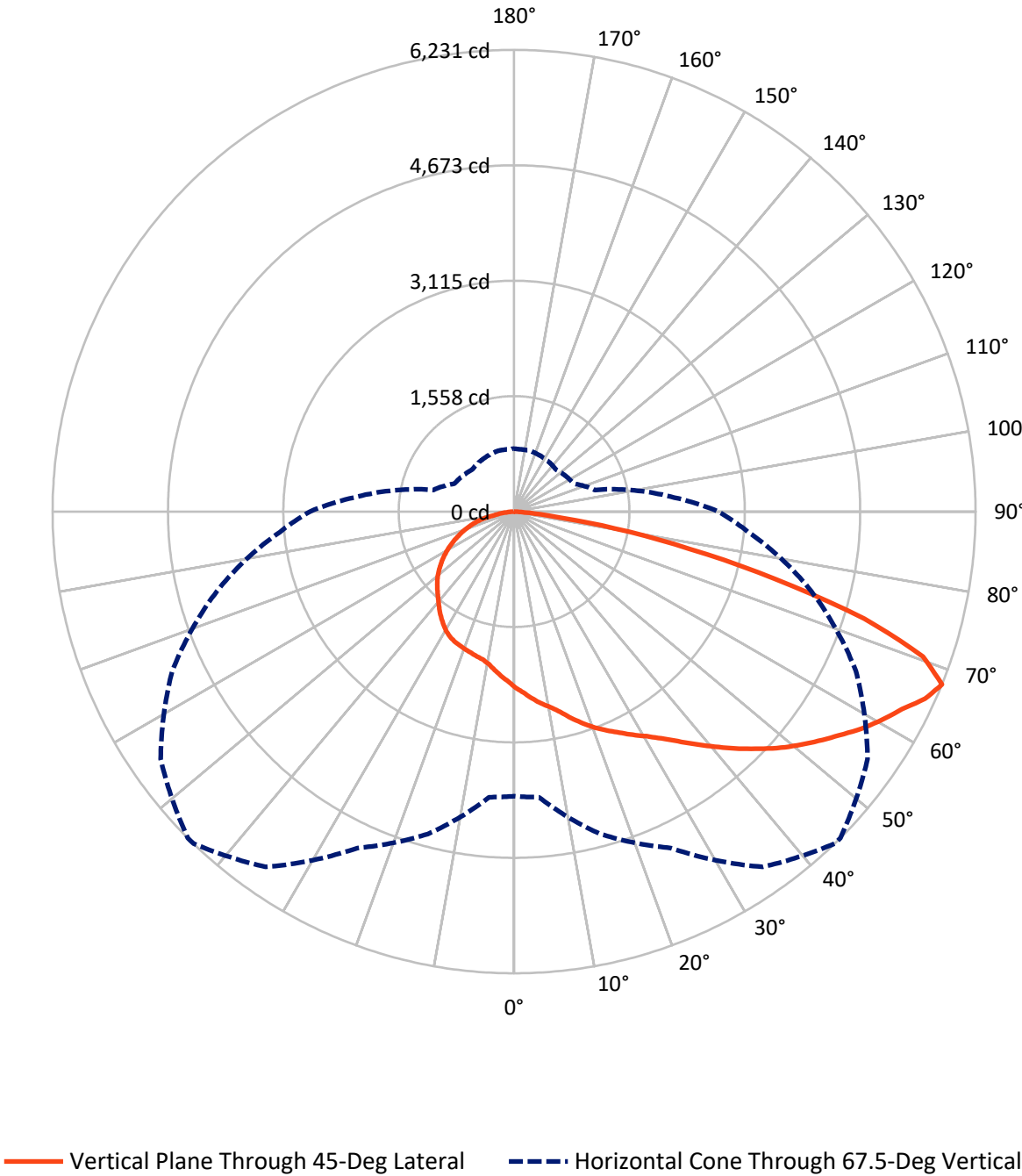
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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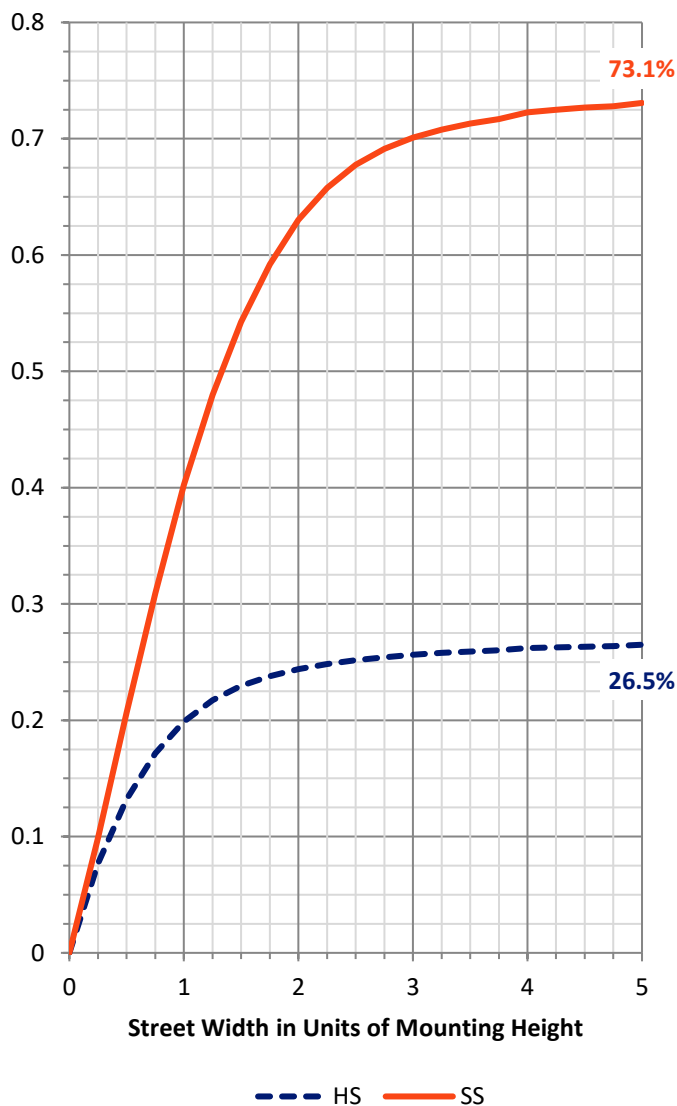
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3807.4	0.0	3807.4
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	10444.6	0.0	10444.6
	% Fixture	73.3	0.0	73.3
Total	Lumens	14252.0	0.0	14252.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.6	1.6
10°-20°	703.0	4.9
20°-30°	1213.5	8.5
30°-40°	1789.5	12.6
40°-50°	2424.4	17.0
50°-60°	2963.2	20.8
60°-70°	3056.1	21.4
70°-80°	1673.9	11.7
80°-90°	200.6	1.4
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°	14252.0	100.0
0°-180°	14252.0	100.0

Coefficient of Utilization



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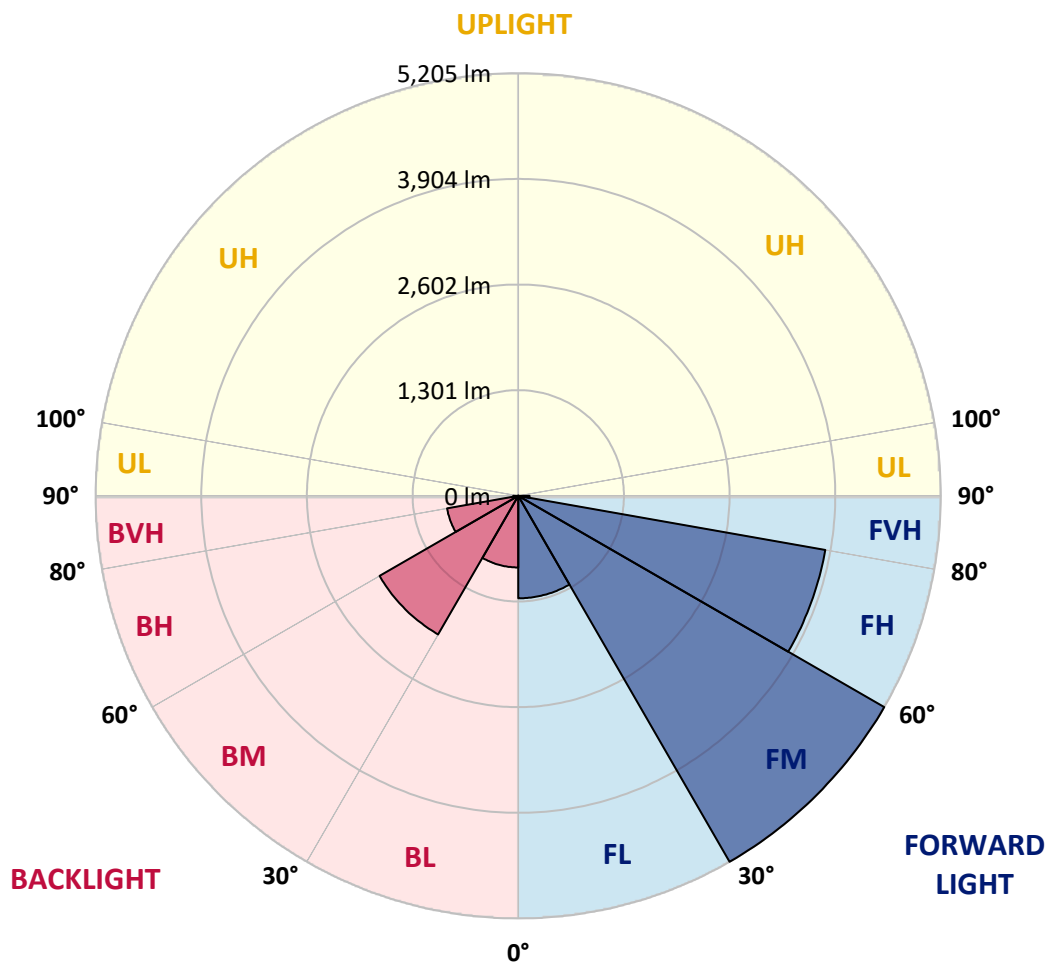
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1261.7	8.9			
FM	(30°-60°)	5205.0	36.5			
FH	(60°-80°)	3839.7	26.9			G2/5000
FVH	(80°-90°)	138.2	1.0			G2/225
BL	(0°-30°)	882.4	6.2	B2/1000		
BM	(30°-60°)	1972.2	13.8	B2/2500		
BH	(60°-80°)	890.4	6.2	B2/1000		G2/1000
BVH	(80°-90°)	62.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2377.0	2377.0	2377.0	2377.0	2377.0	2377.0	2377.0	2377.0	2377.0	2377.0	2377.0
2.5°	2481.1	2478.9	2483.2	2468.1	2448.5	2446.4	2446.4	2433.4	2418.2	2387.8	2364.0
5°	2598.2	2593.8	2596.0	2574.3	2548.3	2535.3	2533.1	2504.9	2470.2	2422.5	2379.1
7.5°	2706.6	2702.3	2700.1	2676.3	2637.2	2615.5	2613.4	2572.2	2530.9	2457.2	2394.3
10°	2808.5	2804.2	2799.9	2767.3	2719.6	2687.1	2682.8	2630.7	2578.7	2487.6	2407.3
12.5°	2938.7	2930.0	2925.7	2886.6	2817.2	2782.5	2776.0	2706.6	2641.6	2530.9	2433.4
15°	3075.3	3068.8	3062.3	3025.4	2947.3	2901.8	2891.0	2804.2	2715.3	2587.3	2472.4
17.5°	3177.2	3170.7	3170.7	3138.2	3066.6	3014.6	3005.9	2901.8	2791.2	2639.4	2502.8
20°	3240.1	3233.6	3240.1	3220.6	3166.4	3123.0	3114.3	2999.4	2867.1	2687.1	2528.8
22.5°	3285.7	3279.2	3290.0	3281.3	3242.3	3216.3	3209.8	3097.0	2945.2	2737.0	2554.8
25°	3365.9	3365.9	3365.9	3350.7	3313.9	3305.2	3305.2	3207.6	3044.9	2802.0	2593.8
27.5°	3526.4	3517.7	3506.9	3463.5	3400.6	3398.5	3411.5	3320.4	3159.9	2886.6	2641.6
30°	3762.8	3758.5	3717.3	3626.2	3519.9	3509.1	3517.7	3441.8	3283.5	2975.5	2695.8
32.5°	4068.6	4053.4	3968.8	3832.2	3680.4	3630.5	3647.9	3567.6	3413.6	3066.6	2747.8
35°	4285.5	4289.8	4229.1	4105.5	3925.5	3793.2	3806.2	3708.6	3554.6	3168.6	2812.9
37.5°	4534.9	4550.1	4459.0	4365.7	4198.7	3973.2	3986.2	3853.9	3695.6	3296.5	2882.3
40°	4879.7	4849.4	4695.4	4584.8	4400.4	4161.9	4172.7	4016.5	3858.2	3418.0	2962.5
42.5°	5168.2	5113.9	4927.4	4786.5	4565.2	4361.4	4372.2	4192.2	4023.1	3552.4	3051.4
45°	5582.4	5432.7	5163.8	5094.4	4734.4	4556.6	4567.4	4378.7	4196.6	3695.6	3146.9
47.5°	5823.1	5584.6	5413.2	5376.4	4920.9	4758.3	4771.3	4576.1	4383.1	3858.2	3246.6
50°	5807.9	5654.0	5604.1	5513.0	5085.7	4946.9	4960.0	4780.0	4571.8	4018.7	3342.1
52.5°	5708.2	5736.4	5710.4	5558.5	5250.6	5129.1	5144.3	4981.6	4764.8	4168.4	3431.0
55°	5862.2	5881.7	5831.8	5632.3	5432.7	5311.3	5328.6	5194.2	4955.6	4300.7	3506.9
57.5°	6046.5	5977.1	5927.2	5762.4	5621.4	5508.7	5528.2	5411.1	5120.4	4406.9	3565.4
60°	6037.8	5892.5	5942.4	5771.1	5749.4	5690.8	5708.2	5588.9	5246.2	4485.0	3589.3
62.5°	5593.2	5515.2	5766.7	5708.2	5853.5	5853.5	5875.2	5697.3	5322.1	4517.5	3576.3
65°	4821.2	4825.5	5267.9	5510.8	5977.1	6076.9	6094.2	5764.6	5278.8	4422.1	3454.8
67.5°	3840.9	3869.1	4504.5	5009.8	5853.5	6228.7	6230.9	5825.3	5092.3	4153.2	3172.9
70°	2810.7	2832.4	3582.8	4196.6	5270.1	5892.5	5857.8	5654.0	4686.7	3684.7	2732.6
72.5°	1899.8	1919.4	2691.4	3222.8	4324.5	5018.5	4942.6	4996.8	3994.9	3027.6	2197.0
75°	1277.4	1301.3	1915.0	2305.4	3181.6	3810.5	3641.4	3784.5	3090.5	2292.4	1602.7
77.5°	804.6	819.8	1216.7	1511.6	2173.1	2593.8	2424.7	2426.8	1780.6	1234.0	861.0
80°	511.8	516.2	737.4	871.8	1257.9	1559.3	1379.3	1121.3	802.4	655.0	514.0
82.5°	297.1	290.6	440.3	492.3	598.6	592.1	490.1	464.1	351.3	327.5	262.4
85°	119.3	110.6	193.0	180.0	182.2	193.0	143.1	143.1	114.9	88.9	65.1
87.5°	23.9	23.9	26.0	23.9	23.9	26.0	19.5	19.5	17.4	17.4	17.4
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°	2377.0	2377.0	2377.0	2377.0	2377.0	2377.0	2377.0	2377.0	2377.0	2377.0	2377.0
2.5°	2359.6	2355.3	2344.4	2316.2	2301.1	2292.4	2279.4	2275.0	2272.9	2275.0	2281.5
5°	2366.1	2350.9	2320.6	2275.0	2244.7	2225.1	2203.5	2194.8	2188.3	2188.3	2194.8
7.5°	2370.5	2346.6	2294.6	2227.3	2183.9	2153.6	2127.6	2116.7	2114.5	2121.0	2123.2
10°	2372.6	2337.9	2264.2	2179.6	2123.2	2084.2	2058.2	2051.6	2058.2	2071.2	2073.3
12.5°	2387.8	2340.1	2246.8	2147.1	2079.8	2040.8	2021.3	2021.3	2038.6	2062.5	2064.7
15°	2413.8	2355.3	2238.2	2121.0	2051.6	2016.9	2010.4	2021.3	2047.3	2084.2	2088.5
17.5°	2433.4	2364.0	2218.6	2086.3	2014.8	1993.1	2003.9	2030.0	2066.8	2116.7	2121.0
20°	2446.4	2364.0	2190.4	2045.1	1977.9	1973.6	2003.9	2045.1	2084.2	2142.7	2149.2
22.5°	2459.4	2359.6	2157.9	1995.3	1936.7	1949.7	2006.1	2058.2	2097.2	2160.1	2170.9
25°	2483.2	2366.1	2125.4	1945.4	1893.3	1930.2	2003.9	2066.8	2108.0	2173.1	2190.4
27.5°	2515.8	2381.3	2101.5	1899.8	1850.0	1899.8	1988.8	2064.7	2108.0	2170.9	2190.4
30°	2550.5	2398.7	2073.3	1850.0	1800.1	1856.5	1956.2	2040.8	2090.7	2149.2	2173.1
32.5°	2587.3	2418.2	2049.5	1795.7	1739.3	1797.9	1908.5	2003.9	2058.2	2112.4	2138.4
35°	2637.2	2452.9	2036.5	1752.4	1685.1	1737.2	1847.8	1956.2	2014.8	2064.7	2095.0
37.5°	2697.9	2496.2	2030.0	1709.0	1626.6	1669.9	1782.7	1897.7	1960.6	2001.8	2030.0
40°	2767.3	2550.5	2027.8	1667.8	1568.0	1600.5	1715.5	1830.4	1891.2	1923.7	1947.5
42.5°	2845.4	2611.2	2023.5	1626.6	1509.5	1535.5	1650.4	1763.2	1815.3	1843.4	1865.1
45°	2927.8	2671.9	2014.8	1576.7	1446.6	1476.9	1583.2	1683.0	1737.2	1761.0	1784.9
47.5°	3010.2	2732.6	1997.4	1520.3	1390.2	1418.4	1511.6	1598.4	1641.8	1663.4	1687.3
50°	3090.5	2786.9	1956.2	1455.2	1331.6	1357.6	1429.2	1487.8	1520.3	1537.7	1561.5
52.5°	3162.1	2823.7	1897.7	1379.3	1273.1	1286.1	1333.8	1383.7	1409.7	1411.9	1433.6
55°	3222.8	2843.2	1813.1	1301.3	1210.2	1212.3	1238.4	1277.4	1288.2	1279.6	1294.8
57.5°	3257.5	2832.4	1719.8	1221.0	1145.1	1136.4	1156.0	1175.5	1177.6	1156.0	1171.1
60°	3266.2	2782.5	1598.4	1140.8	1080.0	1056.2	1062.7	1058.4	1054.0	1045.3	1058.4
62.5°	3222.8	2676.3	1463.9	1062.7	1010.6	973.8	971.6	969.4	975.9	978.1	980.3
65°	3064.5	2476.7	1303.4	982.4	936.9	887.0	884.9	910.9	919.6	906.5	910.9
67.5°	2758.7	2170.9	1127.8	889.2	843.6	800.3	817.6	832.8	848.0	843.6	848.0
70°	2324.9	1782.7	967.3	785.1	741.7	717.9	737.4	750.4	752.6	748.2	752.6
72.5°	1828.3	1392.3	817.6	678.8	639.8	628.9	652.8	663.6	683.2	691.8	694.0
75°	1320.8	1028.0	670.1	563.9	531.3	531.3	553.0	572.6	589.9	579.1	572.6
77.5°	737.4	613.8	481.5	388.2	394.7	425.1	433.8	455.4	472.8	470.6	466.3
80°	446.8	383.9	325.3	251.6	249.4	273.3	329.7	366.5	375.2	355.7	353.5
82.5°	232.1	201.7	173.5	141.0	156.2	182.2	190.9	229.9	253.7	245.1	255.9
85°	58.6	56.4	62.9	65.1	80.2	88.9	97.6	114.9	75.9	36.9	36.9
87.5°	17.4	17.4	21.7	21.7	28.2	34.7	32.5	32.5	17.4	2.2	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)