

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: P842608

Luminaire Tested: **ARCH4-70-730-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-70-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12867 lumens
Efficiency: N/A
Efficacy: 174.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

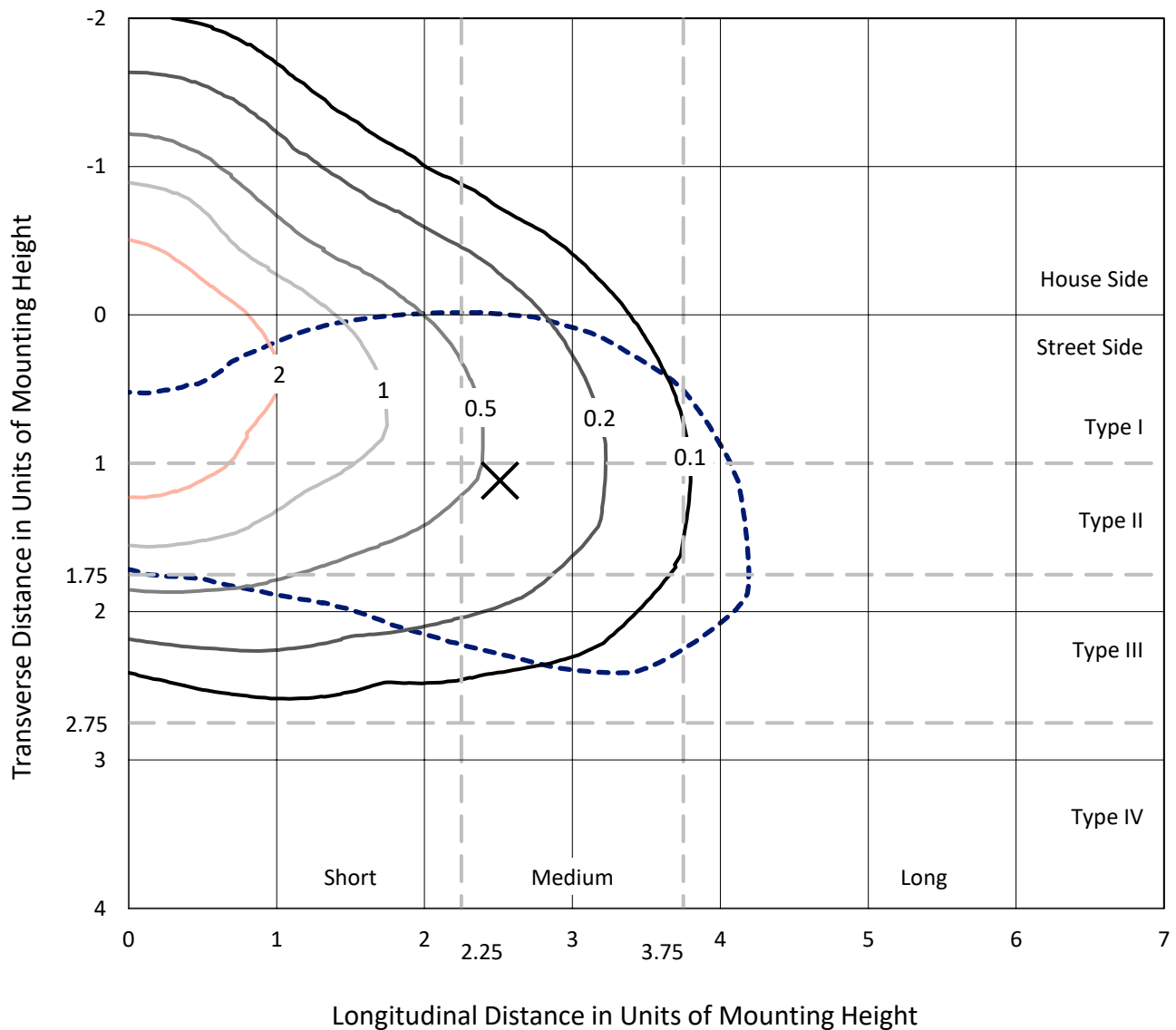
Input Watts (W): 73.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

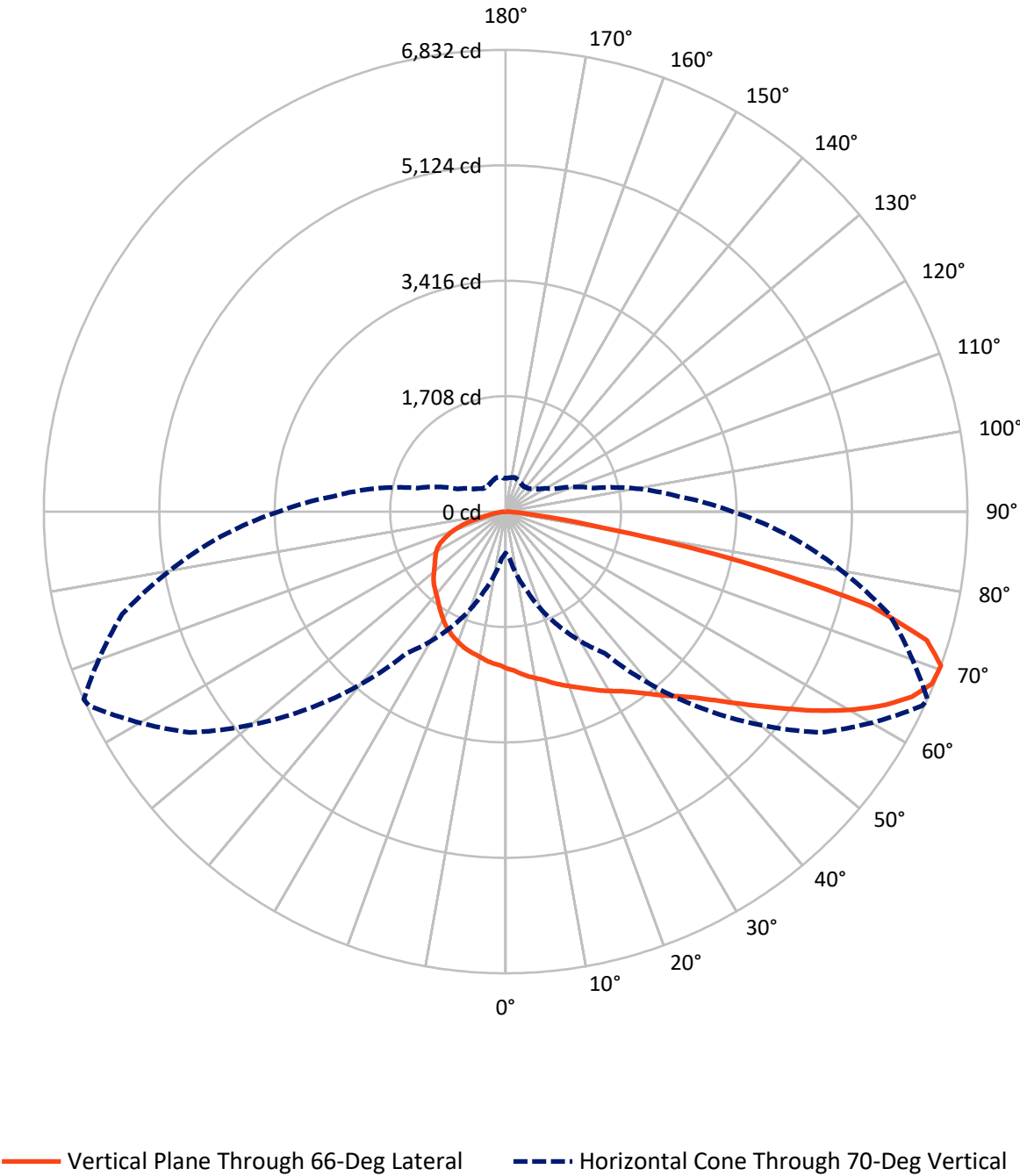
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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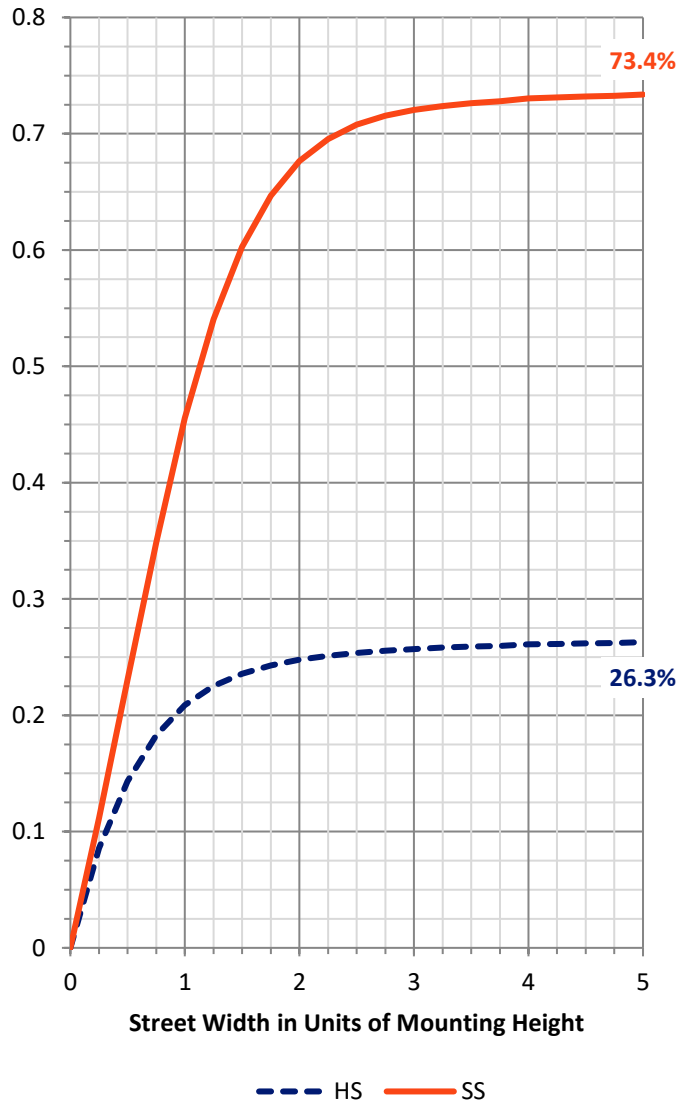
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3409.5	0.0	3409.5
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	9457.5	0.0	9457.5
	% Fixture	73.5	0.0	73.5
Total	Lumens	12867.0	0.0	12867.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.1	1.7
10°-20°	669.3	5.2
20°-30°	1122.0	8.7
30°-40°	1680.0	13.1
40°-50°	2246.2	17.5
50°-60°	2622.6	20.4
60°-70°	2607.7	20.3
70°-80°	1543.8	12.0
80°-90°	152.2	1.2
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°	12867.0	100.0
0°-180°	12867.0	100.0

Coefficient of Utilization



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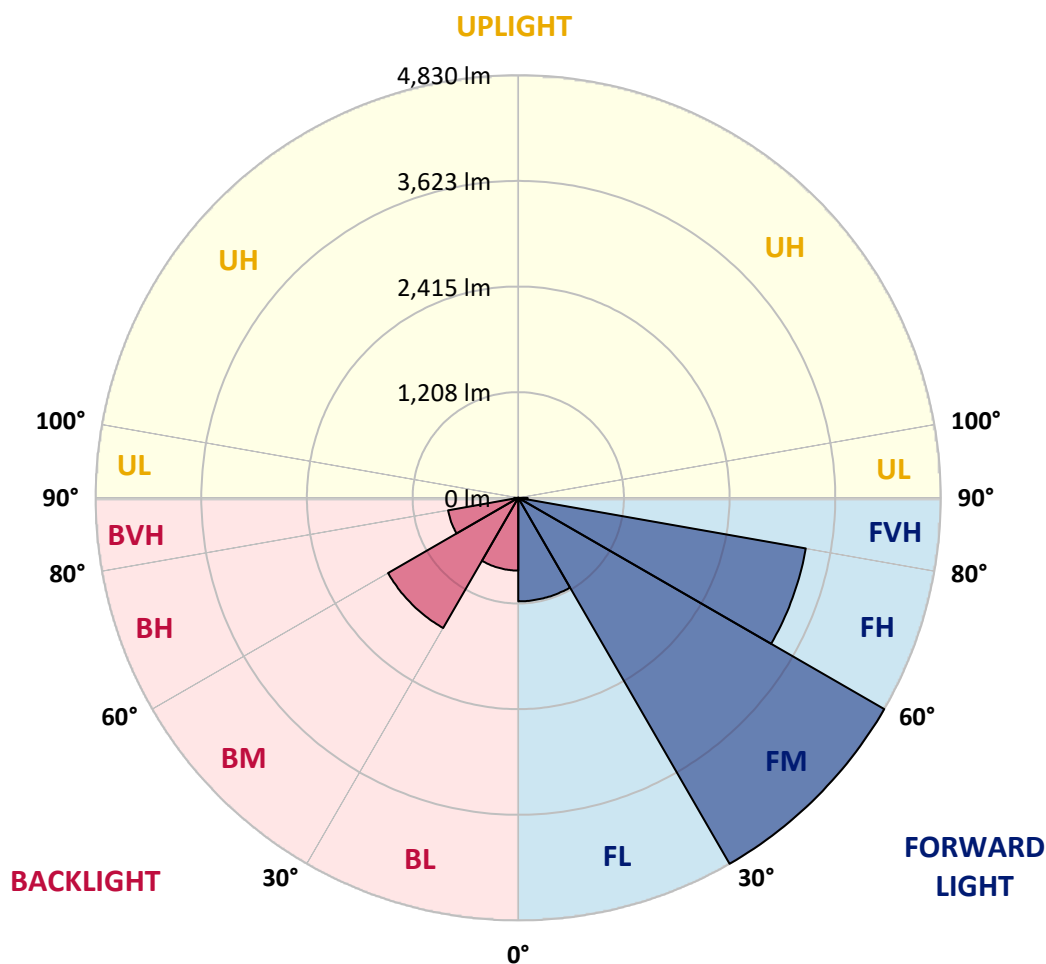
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1183.4	9.2			
FM	(30°-60°)	4830.1	37.5			
FH	(60°-80°)	3337.1	25.9			G2/5000
FVH	(80°-90°)	106.9	0.8			G2/225
BL	(0°-30°)	831.1	6.5	B2/1000		
BM	(30°-60°)	1718.7	13.4	B2/2500		
BH	(60°-80°)	814.4	6.3	B2/1000		G2/1000
BVH	(80°-90°)	45.2	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2322.2	2322.2	2322.2	2322.2	2322.2	2322.2	2322.2	2322.2	2322.2	2322.2	2322.2
2.5°	2407.6	2403.8	2401.9	2394.3	2377.2	2384.8	2367.7	2356.4	2354.5	2327.9	2312.7
5°	2506.2	2504.3	2500.5	2489.2	2462.6	2466.4	2437.9	2417.1	2411.4	2369.6	2337.4
7.5°	2589.7	2585.9	2584.0	2568.8	2540.4	2538.5	2504.3	2474.0	2464.5	2407.6	2358.2
10°	2654.2	2648.5	2652.3	2637.1	2606.8	2601.1	2557.5	2517.6	2508.1	2436.0	2367.7
12.5°	2709.2	2705.4	2711.1	2697.9	2673.2	2667.5	2623.9	2572.6	2561.3	2477.8	2388.6
15°	2769.9	2756.7	2768.0	2762.4	2745.3	2743.4	2703.5	2646.6	2631.4	2530.9	2420.9
17.5°	2802.2	2794.6	2807.9	2809.8	2802.2	2815.5	2777.5	2709.2	2696.0	2580.2	2449.3
20°	2825.0	2813.6	2828.8	2840.1	2845.8	2872.4	2842.0	2775.6	2760.5	2627.7	2475.9
22.5°	2902.8	2878.1	2880.0	2887.6	2891.4	2929.3	2910.3	2845.8	2830.7	2686.5	2508.1
25°	3098.2	3048.8	3016.6	2993.8	2967.3	2999.5	2988.1	2925.5	2912.2	2756.7	2548.0
27.5°	3401.7	3339.1	3274.6	3208.2	3103.9	3090.6	3071.6	3014.7	2999.5	2826.9	2587.8
30°	3747.0	3684.4	3608.5	3502.3	3306.9	3204.4	3160.8	3098.2	3081.1	2889.5	2625.8
32.5°	4090.4	4035.4	3959.5	3830.5	3551.6	3342.9	3249.9	3185.4	3168.4	2957.8	2671.3
35°	4357.9	4323.8	4274.4	4113.2	3794.4	3506.1	3379.0	3301.2	3282.2	3065.9	2754.8
37.5°	4574.2	4549.5	4507.8	4338.9	3970.9	3669.2	3526.9	3437.8	3416.9	3183.5	2843.9
40°	4892.9	4828.4	4794.3	4549.5	4124.6	3817.2	3693.9	3600.9	3578.2	3308.8	2916.0
42.5°	5164.2	5116.8	5075.1	4737.4	4270.6	3944.3	3851.4	3766.0	3735.6	3432.1	2993.8
45°	5209.8	5228.7	5207.9	4830.3	4502.1	4069.5	4010.7	3955.7	3927.3	3599.0	3111.4
47.5°	5211.7	5211.7	5088.4	4883.5	4788.6	4209.9	4181.5	4200.5	4170.1	3811.5	3251.8
50°	5075.1	5099.7	5035.2	4896.7	4864.5	4350.3	4390.2	4492.6	4462.3	4037.3	3403.6
52.5°	4792.4	4874.0	4872.1	4875.9	4754.4	4469.9	4610.3	4843.6	4792.4	4291.5	3564.9
55°	4293.4	4456.6	4602.7	4727.9	4659.6	4542.0	4879.7	5217.4	5164.2	4576.1	3728.0
57.5°	3866.5	3970.9	4153.0	4507.8	4547.6	4604.6	5132.0	5608.2	5560.8	4891.0	3898.8
60°	3379.0	3523.1	3705.3	4209.9	4411.0	4686.1	5409.0	5989.5	5944.0	5209.8	4063.9
62.5°	2629.6	2815.5	3179.7	3752.7	4211.8	4737.4	5627.2	6325.3	6304.5	5511.4	4211.8
65°	1832.7	1997.8	2508.1	3191.1	3895.0	4714.6	5801.7	6625.1	6606.1	5758.1	4316.2
67.5°	1070.0	1261.7	1838.4	2568.8	3335.3	4557.1	5858.6	6801.5	6801.5	5908.0	4344.6
70°	610.9	700.1	1212.3	1872.6	2557.5	4122.7	5699.3	6799.6	6831.9	5873.8	4227.0
72.5°	426.9	466.7	815.8	1259.8	1734.1	3335.3	5281.9	6471.4	6515.1	5551.3	3824.8
75°	332.0	360.5	574.9	859.4	1092.8	2265.3	4369.3	5456.4	5572.1	4731.7	3092.5
77.5°	252.3	273.2	335.8	536.9	700.1	1301.5	2883.8	3578.2	3585.8	2897.1	1658.2
80°	184.0	204.9	223.9	328.2	371.9	609.0	1089.0	1495.0	1453.3	1402.0	897.4
82.5°	110.0	130.9	136.6	178.3	182.1	259.9	381.3	481.9	462.9	616.6	421.2
85°	47.4	66.4	70.2	81.6	77.8	106.2	151.8	127.1	113.8	130.9	91.1
87.5°	11.4	19.0	19.0	20.9	17.1	26.6	28.5	20.9	19.0	22.8	22.8
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°	2322.2	2322.2	2322.2	2322.2	2322.2	2322.2	2322.2	2322.2	2322.2	2322.2	2322.2
2.5°	2308.9	2303.2	2305.1	2272.9	2263.4	2253.9	2248.2	2244.4	2240.6	2246.3	2252.0
5°	2326.0	2312.7	2297.5	2250.1	2231.1	2210.3	2195.1	2181.8	2176.1	2176.1	2181.8
7.5°	2339.3	2316.5	2284.3	2221.6	2187.5	2159.0	2134.4	2117.3	2107.8	2107.8	2113.5
10°	2341.2	2308.9	2257.7	2181.8	2136.3	2094.5	2066.1	2047.1	2033.8	2033.8	2037.6
12.5°	2352.6	2308.9	2242.5	2151.5	2094.5	2043.3	2009.2	1980.7	1975.0	1975.0	1978.8
15°	2371.5	2318.4	2233.0	2124.9	2056.6	1997.8	1959.8	1929.5	1918.1	1925.7	1927.6
17.5°	2388.6	2324.1	2216.0	2090.7	2009.2	1944.7	1902.9	1876.4	1861.2	1878.3	1878.3
20°	2400.0	2324.1	2191.3	2047.1	1957.9	1885.8	1846.0	1813.7	1802.4	1823.2	1825.1
22.5°	2417.1	2322.2	2164.7	2003.5	1902.9	1827.0	1787.2	1762.5	1756.8	1779.6	1787.2
25°	2436.0	2326.0	2136.3	1954.1	1842.2	1768.2	1737.9	1726.5	1730.3	1758.7	1768.2
27.5°	2456.9	2333.6	2107.8	1899.1	1775.8	1709.4	1692.3	1698.0	1713.2	1749.2	1760.6
30°	2475.9	2335.5	2068.0	1834.6	1699.9	1637.3	1644.9	1669.6	1692.3	1728.4	1741.7
32.5°	2500.5	2337.4	2026.2	1764.4	1618.3	1572.8	1606.9	1646.8	1669.6	1703.7	1718.9
35°	2561.3	2369.6	1994.0	1696.1	1542.4	1517.8	1574.7	1625.9	1639.2	1669.6	1682.8
37.5°	2631.4	2422.8	1976.9	1625.9	1468.5	1462.8	1534.9	1586.1	1589.9	1608.8	1622.1
40°	2675.1	2445.5	1957.9	1567.1	1402.0	1405.8	1479.8	1519.7	1512.1	1525.4	1534.9
42.5°	2718.7	2453.1	1918.1	1517.8	1339.4	1343.2	1400.2	1428.6	1432.4	1460.9	1474.1
45°	2792.7	2474.0	1874.5	1472.2	1282.5	1269.2	1303.4	1341.3	1390.7	1445.7	1460.9
47.5°	2891.4	2517.6	1828.9	1417.2	1227.5	1183.9	1197.1	1263.6	1314.8	1366.0	1375.5
50°	2991.9	2561.3	1787.2	1350.8	1172.5	1092.8	1098.5	1159.2	1200.9	1240.8	1246.5
52.5°	3090.6	2599.2	1751.1	1288.2	1109.9	984.7	1007.4	1070.0	1098.5	1117.5	1123.2
55°	3189.2	2631.4	1718.9	1235.1	1037.8	899.3	920.2	979.0	1007.4	1016.9	1020.7
57.5°	3291.7	2669.4	1694.2	1189.6	956.2	823.4	836.7	878.4	905.0	916.4	912.6
60°	3377.1	2701.6	1680.9	1142.1	874.6	753.2	749.4	787.3	825.3	836.7	832.9
62.5°	3443.5	2722.5	1660.1	1081.4	802.5	683.0	664.0	713.4	753.2	760.8	766.5
65°	3479.5	2724.4	1608.8	1003.6	728.5	607.1	593.8	643.2	667.8	675.4	675.4
67.5°	3473.8	2694.1	1508.3	899.3	660.2	538.8	527.4	557.8	593.8	599.5	593.8
70°	3356.2	2568.8	1347.0	789.2	578.7	478.1	457.2	487.6	521.7	500.9	491.4
72.5°	3022.3	2244.4	1109.9	667.8	487.6	402.2	392.7	423.1	425.0	428.8	419.3
75°	2384.8	1671.5	831.0	519.8	394.6	337.7	335.8	330.1	337.7	352.9	341.5
77.5°	1252.2	834.8	449.6	318.7	286.5	271.3	258.0	256.1	278.9	288.4	277.0
80°	679.2	468.6	258.0	191.6	174.5	176.4	193.5	189.7	214.4	220.1	210.6
82.5°	296.0	222.0	127.1	115.7	115.7	113.8	119.5	132.8	159.4	159.4	127.1
85°	64.5	55.0	49.3	56.9	64.5	64.5	64.5	64.5	45.5	24.7	17.1
87.5°	20.9	20.9	20.9	22.8	24.7	24.7	20.9	15.2	9.5	1.9	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)