

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: P842563

Luminaire Tested: **ARCH4-60-750-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842563
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: ARCH4-60-750-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11657 lumens
Efficiency: N/A
Efficacy: 185.0 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

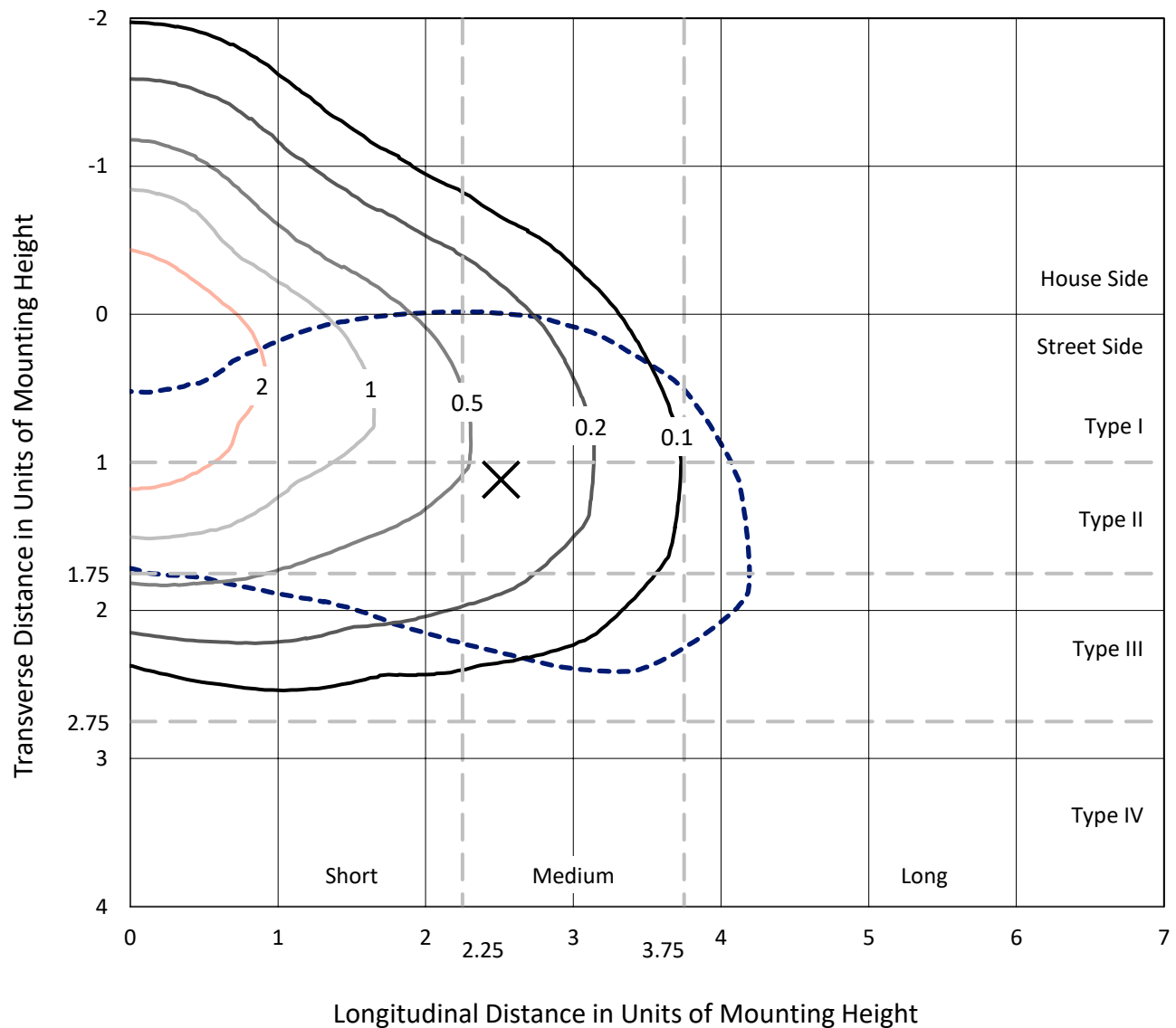
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

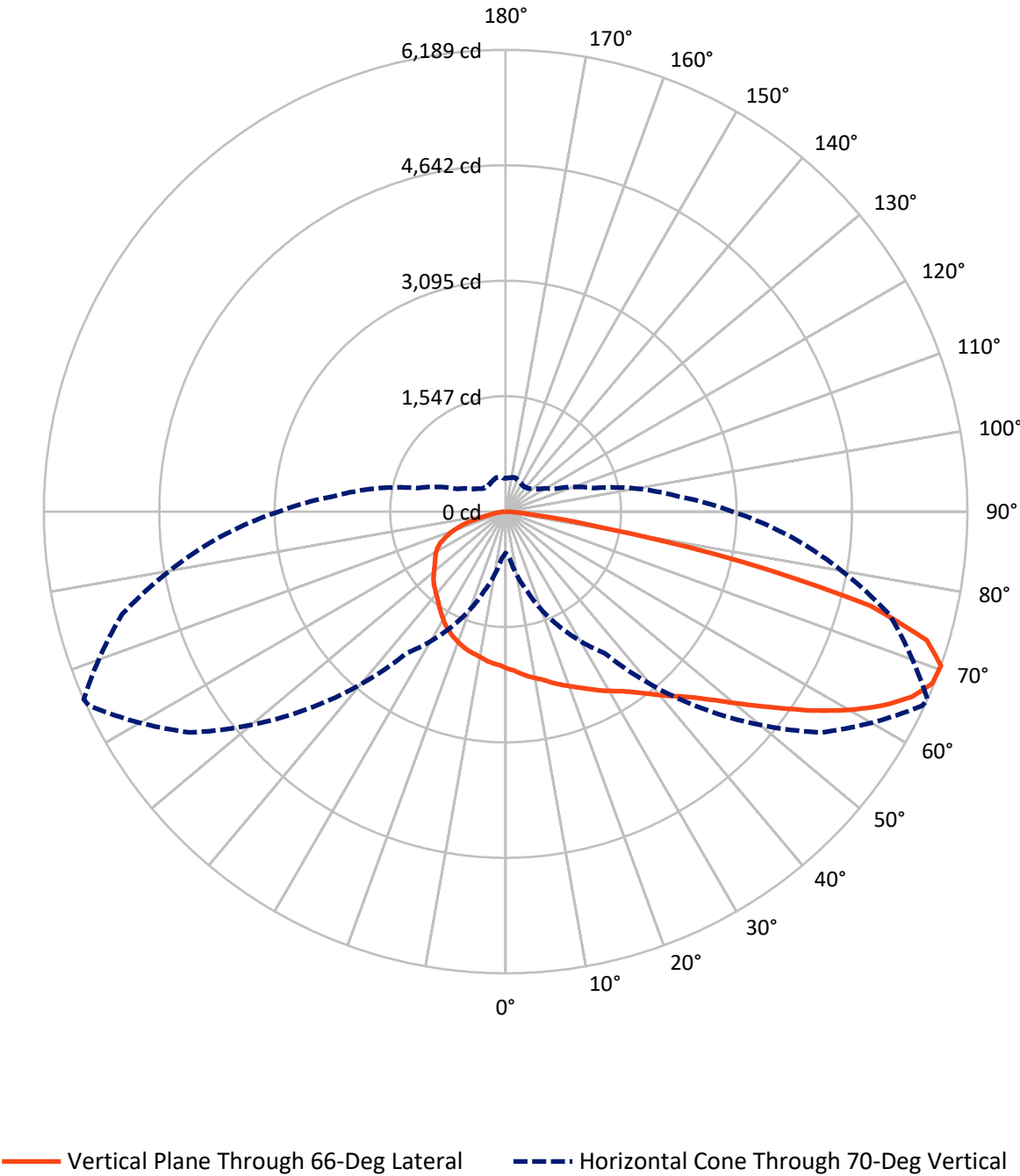
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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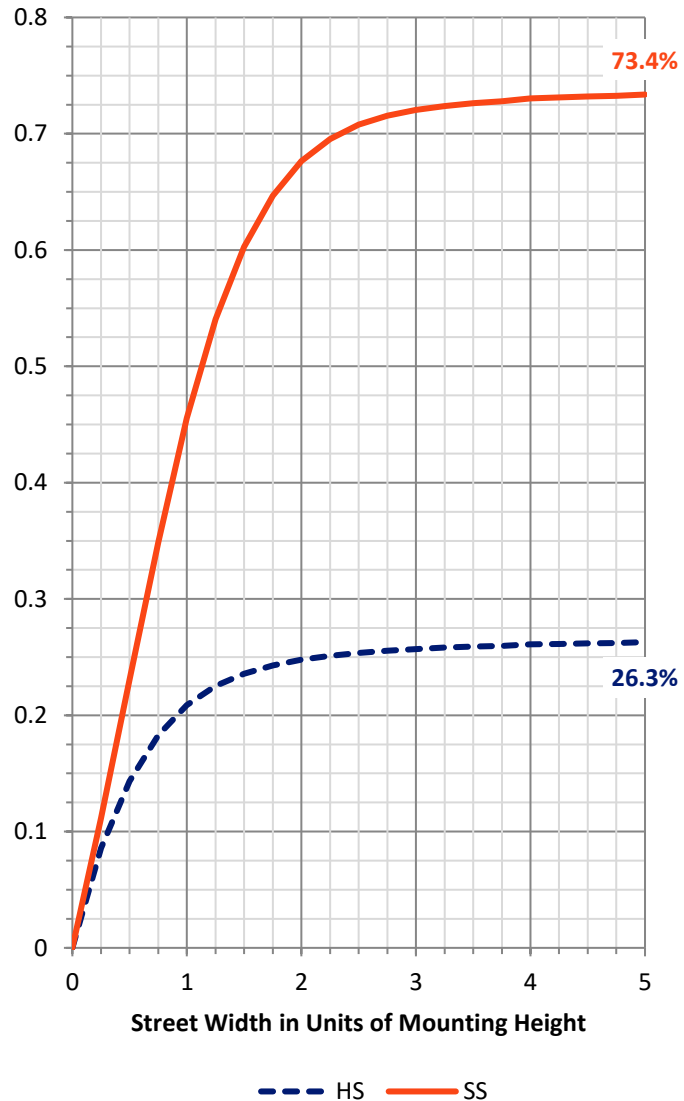
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3088.8	0.0	3088.8
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	8568.2	0.0	8568.2
	% Fixture	73.5	0.0	73.5
Total	Lumens	11657.0	0.0	11657.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.2	1.7
10°-20°	606.4	5.2
20°-30°	1016.5	8.7
30°-40°	1522.1	13.1
40°-50°	2035.0	17.5
50°-60°	2375.9	20.4
60°-70°	2362.5	20.3
70°-80°	1398.6	12.0
80°-90°	137.9	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°	11657.0	100.0
0°-180°	11657.0	100.0

Coefficient of Utilization



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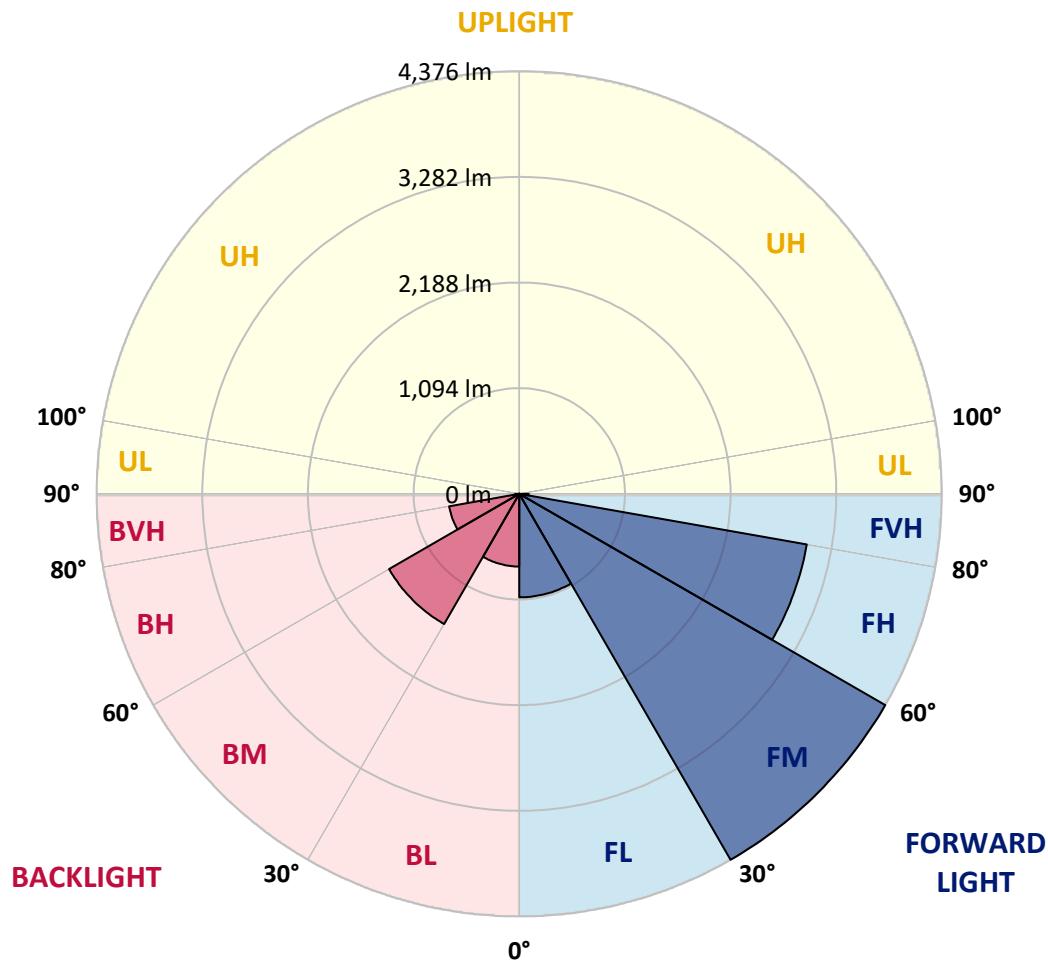
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1072.1	9.2			
FM	(30°-60°)	4375.9	37.5			
FH	(60°-80°)	3023.3	25.9			G2/5000
FVH	(80°-90°)	96.9	0.8			G1/100
BL	(0°-30°)	752.9	6.5	B2/1000		
BM	(30°-60°)	1557.1	13.4	B2/2500		
BH	(60°-80°)	737.8	6.3	B2/1000		G2/1000
BVH	(80°-90°)	41.0	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°	2103.8	2103.8	2103.8	2103.8	2103.8	2103.8	2103.8	2103.8	2103.8	2103.8	2103.8
2.5°	2181.2	2177.7	2176.0	2169.1	2153.7	2160.5	2145.1	2134.8	2133.0	2109.0	2095.2
5°	2270.5	2268.8	2265.4	2255.1	2231.0	2234.5	2208.7	2189.8	2184.6	2146.8	2117.6
7.5°	2346.2	2342.7	2341.0	2327.3	2301.5	2299.8	2268.8	2241.3	2232.7	2181.2	2136.5
10°	2404.6	2399.5	2402.9	2389.1	2361.6	2356.5	2317.0	2280.9	2272.3	2207.0	2145.1
12.5°	2454.5	2451.0	2456.2	2444.1	2421.8	2416.6	2377.1	2330.7	2320.4	2244.8	2164.0
15°	2509.5	2497.4	2507.7	2502.6	2487.1	2485.4	2449.3	2397.7	2384.0	2292.9	2193.2
17.5°	2538.7	2531.8	2543.8	2545.6	2538.7	2550.7	2516.3	2454.5	2442.4	2337.6	2219.0
20°	2559.3	2549.0	2562.7	2573.1	2578.2	2602.3	2574.8	2514.6	2500.9	2380.6	2243.0
22.5°	2629.8	2607.4	2609.2	2616.0	2619.5	2653.8	2636.7	2578.2	2564.5	2433.8	2272.3
25°	2806.8	2762.1	2732.9	2712.3	2688.2	2717.4	2707.1	2650.4	2638.4	2497.4	2308.4
27.5°	3081.8	3025.1	2966.7	2906.5	2812.0	2799.9	2782.8	2731.2	2717.4	2561.0	2344.5
30°	3394.6	3337.9	3269.2	3172.9	2995.9	2903.1	2863.5	2806.8	2791.3	2617.7	2378.8
32.5°	3705.8	3655.9	3587.2	3470.3	3217.6	3028.5	2944.3	2885.9	2870.4	2679.6	2420.1
35°	3948.1	3917.2	3872.5	3726.4	3437.6	3176.4	3061.2	2990.7	2973.5	2777.6	2495.7
37.5°	4144.1	4121.7	4083.9	3930.9	3597.5	3324.2	3195.3	3114.5	3095.6	2884.2	2576.5
40°	4432.8	4374.4	4343.4	4121.7	3736.7	3458.2	3346.5	3262.3	3241.7	2997.6	2641.8
42.5°	4678.6	4635.6	4597.8	4291.9	3869.0	3573.4	3489.2	3411.8	3384.3	3109.3	2712.3
45°	4719.9	4737.0	4718.1	4376.1	4078.7	3686.8	3633.6	3583.7	3557.9	3260.6	2818.8
47.5°	4721.6	4721.6	4609.8	4424.2	4338.3	3814.0	3788.3	3805.4	3777.9	3453.1	2946.0
50°	4597.8	4620.2	4561.7	4436.2	4407.0	3941.2	3977.3	4070.1	4042.6	3657.6	3083.5
52.5°	4341.7	4415.6	4413.9	4417.3	4307.3	4049.5	4176.7	4388.1	4341.7	3887.9	3229.6
55°	3889.7	4037.5	4169.8	4283.3	4221.4	4114.8	4420.8	4726.7	4678.6	4145.8	3377.5
57.5°	3502.9	3597.5	3762.5	4083.9	4120.0	4171.6	4649.4	5080.8	5037.8	4431.1	3532.2
60°	3061.2	3191.8	3356.8	3814.0	3996.2	4245.5	4900.3	5426.3	5385.0	4719.9	3681.7
62.5°	2382.3	2550.7	2880.7	3399.8	3815.8	4291.9	5098.0	5730.5	5711.6	4993.1	3815.8
65°	1660.4	1809.9	2272.3	2891.0	3528.7	4271.2	5256.1	6002.1	5984.9	5216.6	3910.3
67.5°	969.4	1143.0	1665.5	2327.3	3021.7	4128.6	5307.7	6161.9	6161.9	5352.4	3936.1
70°	553.5	634.2	1098.3	1696.5	2317.0	3735.0	5163.3	6160.2	6189.4	5321.4	3829.5
72.5°	386.7	422.8	739.1	1141.3	1571.0	3021.7	4785.2	5862.9	5902.4	5029.2	3465.1
75°	300.8	326.6	520.8	778.6	990.0	2052.3	3958.4	4943.3	5048.1	4286.7	2801.7
77.5°	228.6	247.5	304.2	486.4	634.2	1179.1	2612.6	3241.7	3248.6	2624.6	1502.2
80°	166.7	185.6	202.8	297.4	336.9	551.7	986.6	1354.4	1316.6	1270.2	813.0
82.5°	99.7	118.6	123.8	161.6	165.0	235.5	345.5	436.6	419.4	558.6	381.6
85°	43.0	60.2	63.6	73.9	70.5	96.3	137.5	115.2	103.1	118.6	82.5
87.5°	10.3	17.2	17.2	18.9	15.5	24.1	25.8	18.9	17.2	20.6	20.6
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°	2103.8	2103.8	2103.8	2103.8	2103.8	2103.8	2103.8	2103.8	2103.8	2103.8	2103.8
2.5°	2091.8	2086.6	2088.4	2059.1	2050.5	2041.9	2036.8	2033.4	2029.9	2035.1	2040.2
5°	2107.3	2095.2	2081.5	2038.5	2021.3	2002.4	1988.7	1976.6	1971.5	1971.5	1976.6
7.5°	2119.3	2098.7	2069.4	2012.7	1981.8	1956.0	1933.7	1918.2	1909.6	1909.6	1914.8
10°	2121.0	2091.8	2045.4	1976.6	1935.4	1897.6	1871.8	1854.6	1842.6	1842.6	1846.0
12.5°	2131.3	2091.8	2031.6	1949.1	1897.6	1851.2	1820.2	1794.4	1789.3	1789.3	1792.7
15°	2148.5	2100.4	2023.0	1925.1	1863.2	1809.9	1775.5	1748.0	1737.7	1744.6	1746.3
17.5°	2164.0	2105.5	2007.6	1894.1	1820.2	1761.8	1724.0	1699.9	1686.2	1701.6	1701.6
20°	2174.3	2105.5	1985.2	1854.6	1773.8	1708.5	1672.4	1643.2	1632.9	1651.8	1653.5
22.5°	2189.8	2103.8	1961.2	1815.1	1724.0	1655.2	1619.1	1596.8	1591.6	1612.2	1619.1
25°	2207.0	2107.3	1935.4	1770.4	1669.0	1601.9	1574.4	1564.1	1567.6	1593.3	1601.9
27.5°	2225.9	2114.1	1909.6	1720.5	1608.8	1548.6	1533.2	1538.3	1552.1	1584.7	1595.1
30°	2243.0	2115.9	1873.5	1662.1	1540.1	1483.3	1490.2	1512.6	1533.2	1565.8	1577.9
32.5°	2265.4	2117.6	1835.7	1598.5	1466.1	1424.9	1455.8	1491.9	1512.6	1543.5	1557.2
35°	2320.4	2146.8	1806.5	1536.6	1397.4	1375.0	1426.6	1473.0	1485.1	1512.6	1524.6
37.5°	2384.0	2194.9	1791.0	1473.0	1330.4	1325.2	1390.5	1436.9	1440.4	1457.6	1469.6
40°	2423.5	2215.5	1773.8	1419.7	1270.2	1273.6	1340.7	1376.8	1369.9	1381.9	1390.5
42.5°	2463.1	2222.4	1737.7	1375.0	1213.5	1216.9	1268.5	1294.3	1297.7	1323.5	1335.5
45°	2530.1	2241.3	1698.2	1333.8	1161.9	1149.9	1180.8	1215.2	1259.9	1309.7	1323.5
47.5°	2619.5	2280.9	1656.9	1284.0	1112.1	1072.5	1084.6	1144.7	1191.1	1237.5	1246.1
50°	2710.6	2320.4	1619.1	1223.8	1062.2	990.0	995.2	1050.2	1088.0	1124.1	1129.3
52.5°	2799.9	2354.8	1586.5	1167.1	1005.5	892.1	912.7	969.4	995.2	1012.4	1017.5
55°	2889.3	2384.0	1557.2	1118.9	940.2	814.7	833.6	886.9	912.7	921.3	924.7
57.5°	2982.1	2418.4	1534.9	1077.7	866.3	746.0	758.0	795.8	819.9	830.2	826.7
60°	3059.5	2447.6	1522.9	1034.7	792.4	682.4	678.9	713.3	747.7	758.0	754.6
62.5°	3119.6	2466.5	1504.0	979.7	727.1	618.8	601.6	646.3	682.4	689.2	694.4
65°	3152.3	2468.2	1457.6	909.3	660.0	550.0	538.0	582.7	605.0	611.9	611.9
67.5°	3147.1	2440.7	1366.5	814.7	598.1	488.1	477.8	505.3	538.0	543.1	538.0
70°	3040.6	2327.3	1220.4	715.0	524.2	433.1	414.2	441.7	472.7	453.8	445.2
72.5°	2738.1	2033.4	1005.5	605.0	441.7	364.4	355.8	383.3	385.0	388.5	379.9
75°	2160.5	1514.3	752.8	471.0	357.5	305.9	304.2	299.1	305.9	319.7	309.4
77.5°	1134.4	756.3	407.4	288.8	259.5	245.8	233.8	232.0	252.7	261.3	250.9
80°	615.3	424.5	233.8	173.6	158.1	159.8	175.3	171.9	194.2	199.4	190.8
82.5°	268.1	201.1	115.2	104.8	104.8	103.1	108.3	120.3	144.4	144.4	115.2
85°	58.4	49.8	44.7	51.6	58.4	58.4	58.4	58.4	41.3	22.3	15.5
87.5°	18.9	18.9	18.9	20.6	22.3	22.3	18.9	13.8	8.6	1.7	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)