

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: P842586

Luminaire Tested: **ARCH4-70-722-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842586
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: ARCH4-70-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11272 lumens
Efficiency: N/A
Efficacy: 152.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - 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

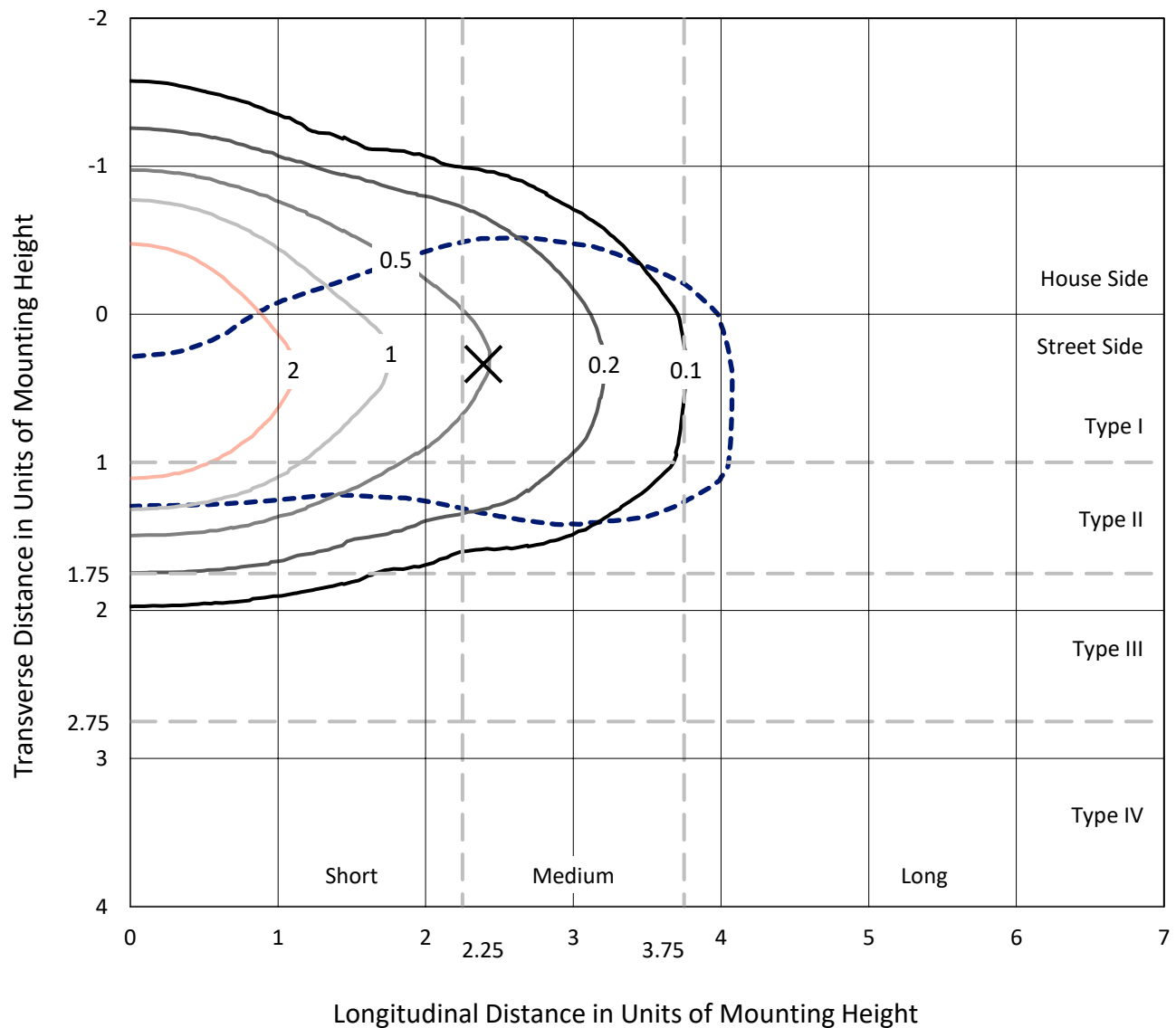


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Iso-Footcandle Lines of Horizontal Illumination

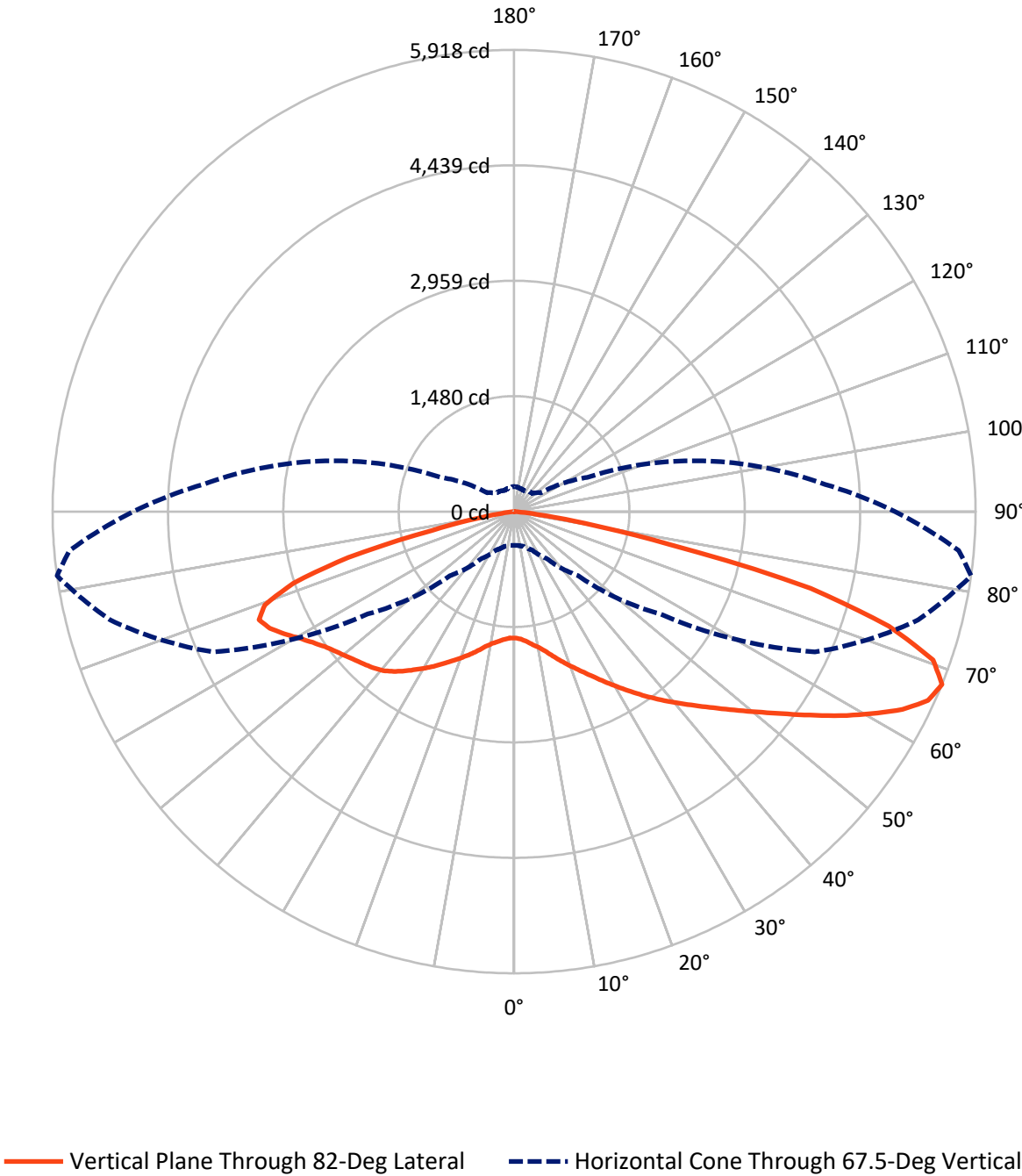
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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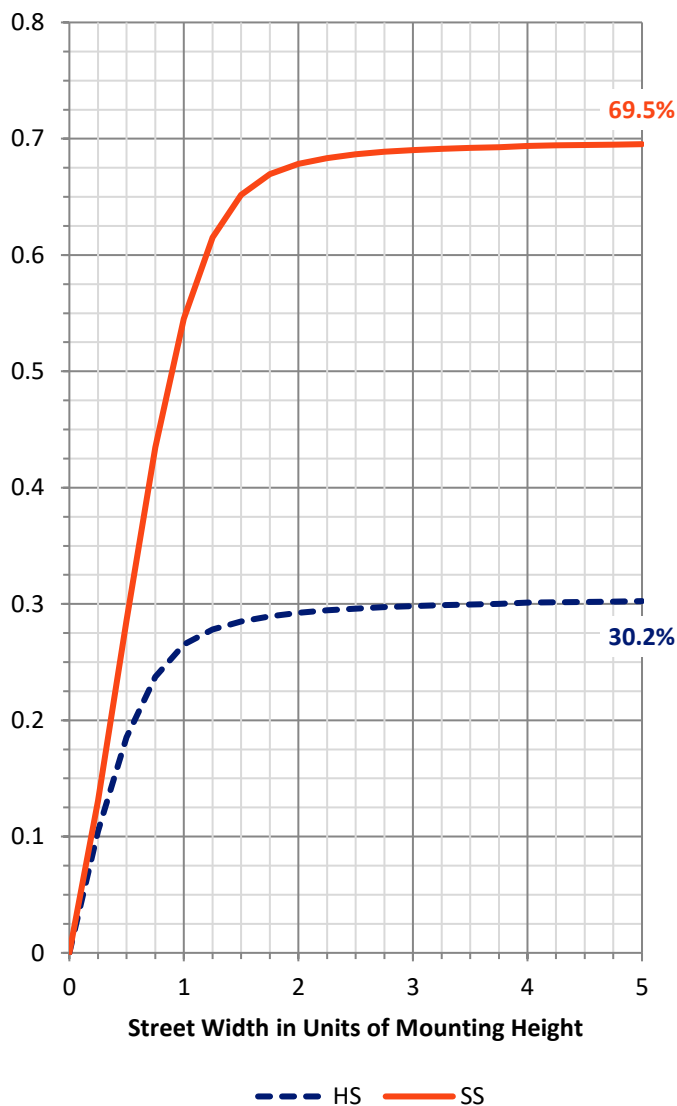
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3432.8	0.0	3432.8
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	7839.2	0.0	7839.2
	% Fixture	69.5	0.0	69.5
Total	Lumens	11272.0	0.0	11272.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	1.5
10°-20°	603.2	5.4
20°-30°	1212.3	10.8
30°-40°	1904.3	16.9
40°-50°	2319.8	20.6
50°-60°	2191.9	19.4
60°-70°	1810.0	16.1
70°-80°	985.6	8.7
80°-90°	77.5	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°	11272.0	100.0
0°-180°	11272.0	100.0

Coefficient of Utilization



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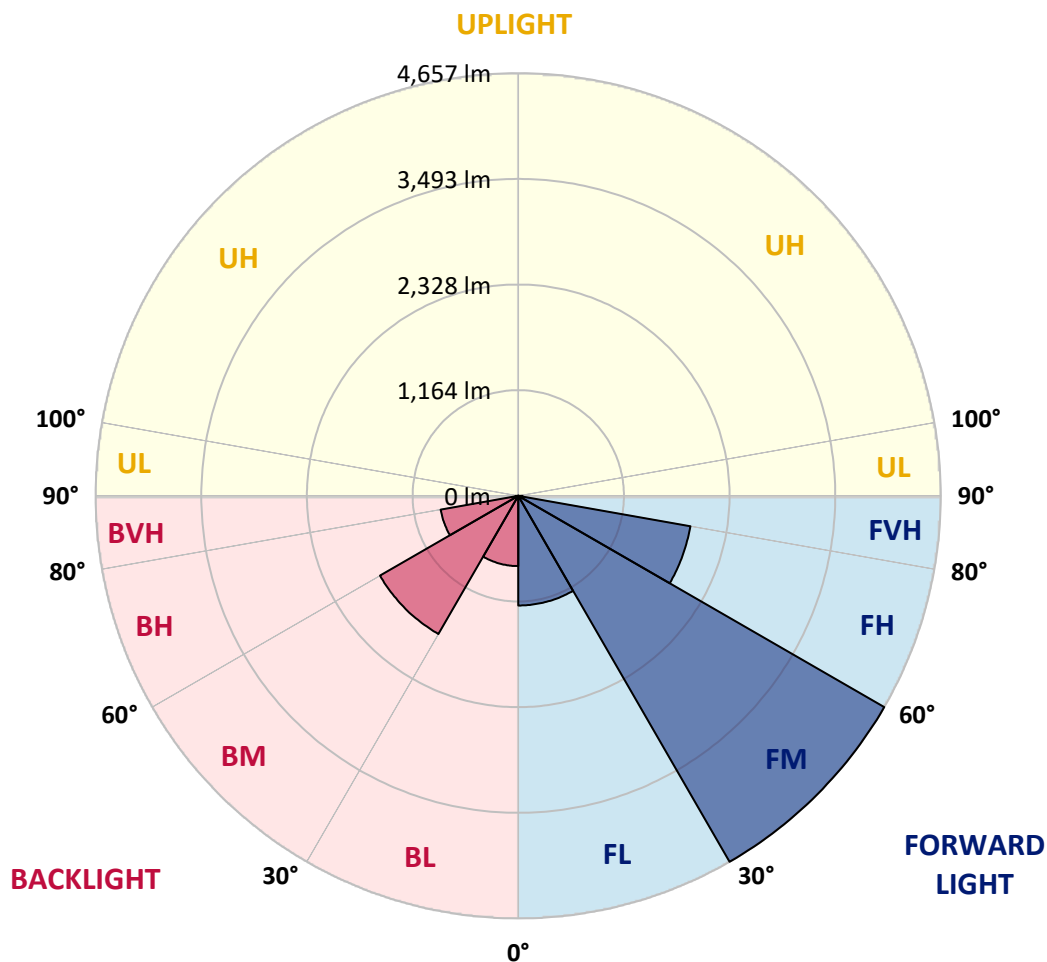
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1208.8	10.7			
FM	(30°-60°)	4656.9	41.3			
FH	(60°-80°)	1926.8	17.1			G2/5000
FVH	(80°-90°)	46.7	0.4			G1/100
BL	(0°-30°)	774.1	6.9	B2/1000		
BM	(30°-60°)	1759.0	15.6	B2/2500		
BH	(60°-80°)	868.8	7.7	B2/1000		G2/1000
BVH	(80°-90°)	30.8	0.3			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1620.3	1620.3	1620.3	1620.3	1620.3	1620.3	1620.3	1620.3	1620.3	1620.3	1620.3
2.5°	1694.0	1694.0	1707.1	1707.1	1695.6	1677.6	1672.7	1653.1	1635.1	1635.1	1636.7
5°	1856.0	1854.4	1864.2	1851.1	1823.3	1787.3	1762.7	1720.2	1684.2	1672.7	1671.1
7.5°	2054.1	2052.4	2057.3	2036.1	1983.7	1924.8	1875.7	1806.9	1748.0	1723.5	1716.9
10°	2275.0	2273.4	2268.5	2232.5	2162.1	2070.4	1996.8	1901.9	1813.5	1774.2	1766.0
12.5°	2528.7	2525.4	2514.0	2461.6	2365.0	2247.2	2140.8	2018.1	1900.2	1846.2	1828.2
15°	2811.9	2807.0	2785.7	2721.9	2592.6	2443.6	2306.1	2149.0	2005.0	1934.6	1910.0
17.5°	3109.8	3109.8	3077.0	2982.1	2838.1	2653.1	2482.9	2283.2	2114.6	2027.9	1998.4
20°	3412.5	3410.9	3370.0	3255.4	3085.2	2872.4	2656.4	2437.1	2227.6	2122.8	2086.8
22.5°	3731.7	3728.4	3677.7	3546.8	3343.8	3103.2	2851.2	2589.3	2352.0	2225.9	2180.1
25°	4098.3	4093.4	4031.2	3870.8	3630.2	3358.5	3070.5	2767.7	2494.3	2340.5	2286.5
27.5°	4487.9	4481.3	4407.7	4221.1	3957.6	3630.2	3312.7	2973.9	2651.5	2468.2	2407.6
30°	4834.8	4829.9	4749.7	4558.2	4255.4	3900.3	3543.5	3180.1	2816.8	2604.0	2528.7
32.5°	5096.7	5096.7	5024.7	4836.5	4522.2	4158.9	3775.9	3374.9	2988.6	2749.7	2661.3
35°	5255.5	5260.4	5198.2	5047.6	4751.4	4402.8	4016.5	3604.0	3171.9	2905.2	2810.2
37.5°	5278.4	5294.8	5258.8	5157.3	4910.1	4605.7	4252.2	3825.0	3361.8	3062.3	2955.9
40°	5172.0	5183.5	5185.1	5145.8	4975.6	4751.4	4460.0	4059.0	3563.1	3227.6	3104.8
42.5°	4959.2	4967.4	4982.1	4993.6	4928.1	4815.2	4618.8	4276.7	3777.5	3396.2	3252.1
45°	4684.3	4682.6	4707.2	4756.3	4753.0	4779.2	4707.2	4474.8	4000.1	3587.7	3415.8
47.5°	4273.5	4265.3	4352.0	4463.3	4519.0	4641.7	4708.8	4630.3	4242.4	3798.8	3602.4
50°	3630.2	3622.0	3811.9	4073.8	4237.4	4424.0	4618.8	4723.5	4496.0	4036.1	3805.4
52.5°	2847.9	2839.7	3080.3	3538.6	3895.4	4167.1	4437.1	4744.8	4736.6	4301.3	4034.5
55°	2117.9	2111.4	2345.4	2841.3	3419.1	3869.2	4214.5	4689.2	4962.5	4605.7	4312.7
57.5°	1492.7	1489.4	1692.4	2103.2	2807.0	3505.8	4000.1	4581.2	5170.4	4936.3	4627.0
60°	1047.5	1042.6	1189.9	1507.4	2122.8	2957.5	3787.3	4437.1	5325.9	5262.0	4960.9
62.5°	705.4	702.1	806.9	1072.0	1507.4	2276.7	3464.9	4340.6	5414.2	5589.4	5298.0
65°	535.2	533.6	581.0	726.7	1067.1	1635.1	2952.6	4329.1	5425.7	5834.9	5584.5
67.5°	432.1	433.7	459.9	543.4	738.2	1162.1	2289.8	4257.1	5365.1	5918.3	5723.6
70°	353.5	353.5	365.0	420.6	545.0	784.0	1599.1	3929.7	5196.6	5700.7	5558.3
72.5°	270.1	271.7	307.7	340.4	410.8	549.9	1024.6	3252.1	4798.8	5026.3	4918.3
75°	214.4	212.8	234.0	279.9	319.2	392.8	628.5	2332.3	4083.6	3928.1	3859.4
77.5°	153.9	152.2	168.6	207.9	242.2	278.2	374.8	1176.8	2221.0	2041.0	1990.2
80°	104.7	101.5	116.2	144.0	160.4	163.7	183.3	451.7	968.9	913.3	901.8
82.5°	54.0	54.0	62.2	81.8	83.5	85.1	81.8	145.7	320.8	299.5	286.4
85°	21.3	21.3	22.9	27.8	27.8	29.5	29.5	37.6	34.4	32.7	31.1
87.5°	1.6	1.6	3.3	3.3	4.9	4.9	4.9	6.5	8.2	8.2	8.2
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°	1620.3	1620.3	1620.3	1620.3	1620.3	1620.3	1620.3	1620.3	1620.3	1620.3	1620.3
2.5°	1633.4	1626.9	1605.6	1600.7	1597.4	1592.5	1594.2	1582.7	1577.8	1579.4	1572.9
5°	1662.9	1651.4	1625.3	1613.8	1610.5	1605.6	1610.5	1602.3	1594.2	1597.4	1594.2
7.5°	1703.8	1687.4	1654.7	1643.3	1641.6	1636.7	1643.3	1636.7	1630.2	1633.4	1626.9
10°	1746.4	1725.1	1689.1	1677.6	1677.6	1676.0	1682.5	1672.7	1666.2	1667.8	1664.5
12.5°	1808.6	1780.7	1741.5	1731.6	1726.7	1731.6	1733.3	1720.2	1708.7	1710.4	1705.5
15°	1883.9	1852.8	1810.2	1795.5	1792.2	1790.6	1784.0	1767.6	1752.9	1751.3	1746.4
17.5°	1965.7	1926.4	1875.7	1860.9	1846.2	1841.3	1824.9	1803.7	1780.7	1780.7	1774.2
20°	2044.3	2000.1	1939.5	1918.2	1896.9	1877.3	1849.5	1815.1	1785.7	1780.7	1774.2
22.5°	2129.4	2077.0	2006.6	1975.5	1937.9	1898.6	1851.1	1805.3	1767.6	1759.5	1754.6
25°	2224.3	2158.8	2075.3	2029.5	1969.0	1908.4	1838.0	1779.1	1734.9	1721.8	1718.5
27.5°	2329.0	2250.5	2149.0	2081.9	1993.5	1898.6	1808.6	1738.2	1684.2	1667.8	1662.9
30°	2435.4	2342.1	2216.1	2117.9	1993.5	1867.5	1754.6	1672.7	1610.5	1587.6	1584.3
32.5°	2541.8	2437.1	2276.7	2137.5	1973.9	1815.1	1684.2	1587.6	1517.2	1489.4	1496.0
35°	2669.5	2541.8	2332.3	2145.7	1941.1	1751.3	1604.0	1491.0	1419.0	1394.5	1399.4
37.5°	2802.0	2646.6	2376.5	2139.2	1895.3	1679.3	1514.0	1404.3	1314.3	1271.7	1276.6
40°	2916.6	2741.5	2407.6	2116.3	1836.4	1597.4	1425.6	1281.5	1157.2	1116.2	1111.3
42.5°	3024.6	2811.9	2424.0	2081.9	1769.3	1502.5	1299.5	1114.6	990.2	939.5	941.1
45°	3137.6	2880.6	2417.4	2036.1	1685.8	1391.2	1137.5	950.9	841.3	795.4	797.1
47.5°	3266.9	2954.3	2410.9	1987.0	1584.3	1247.2	982.0	806.9	712.0	679.2	676.0
50°	3404.4	3036.1	2402.7	1926.4	1471.4	1086.8	828.2	672.7	592.5	571.2	566.3
52.5°	3559.8	3124.5	2397.8	1854.4	1335.6	916.6	690.7	554.8	500.8	486.1	484.5
55°	3746.4	3227.6	2404.3	1767.6	1171.9	756.2	574.5	477.9	441.9	433.7	432.1
57.5°	3973.9	3360.2	2424.0	1666.2	1000.0	617.0	489.4	430.5	407.5	401.0	401.0
60°	4221.1	3510.7	2460.0	1551.6	828.2	509.0	433.7	392.8	383.0	391.2	391.2
62.5°	4487.9	3687.5	2523.8	1412.5	667.8	430.5	389.5	361.7	355.2	371.5	373.2
65°	4735.0	3859.4	2564.7	1245.5	530.3	373.2	355.2	330.6	333.9	350.3	348.6
67.5°	4887.2	4001.8	2507.4	1036.0	420.6	330.6	319.2	297.9	306.1	319.2	320.8
70°	4793.9	3921.6	2224.3	782.3	329.0	288.1	279.9	266.8	273.3	289.7	296.2
72.5°	4337.3	3512.4	1730.0	528.7	265.1	242.2	245.5	239.0	247.1	261.9	276.6
75°	3520.6	2654.7	1160.4	338.8	209.5	206.2	211.1	206.2	209.5	224.2	232.4
77.5°	1838.0	1294.6	577.8	211.1	155.5	160.4	168.6	170.2	180.0	183.3	186.6
80°	857.6	582.7	240.6	117.8	103.1	112.9	129.3	130.9	134.2	139.1	140.8
82.5°	279.9	175.1	111.3	63.8	58.9	63.8	83.5	99.8	101.5	111.3	111.3
85°	29.5	18.0	24.6	26.2	22.9	27.8	37.6	36.0	16.4	9.8	9.8
87.5°	8.2	6.5	8.2	8.2	6.5	6.5	4.9	1.6	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)