

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: P842523

Luminaire Tested: **ARCH4-60-727-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842523
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: ARCH4-60-727-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10726 lumens
Efficiency: N/A
Efficacy: 170.3 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): 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



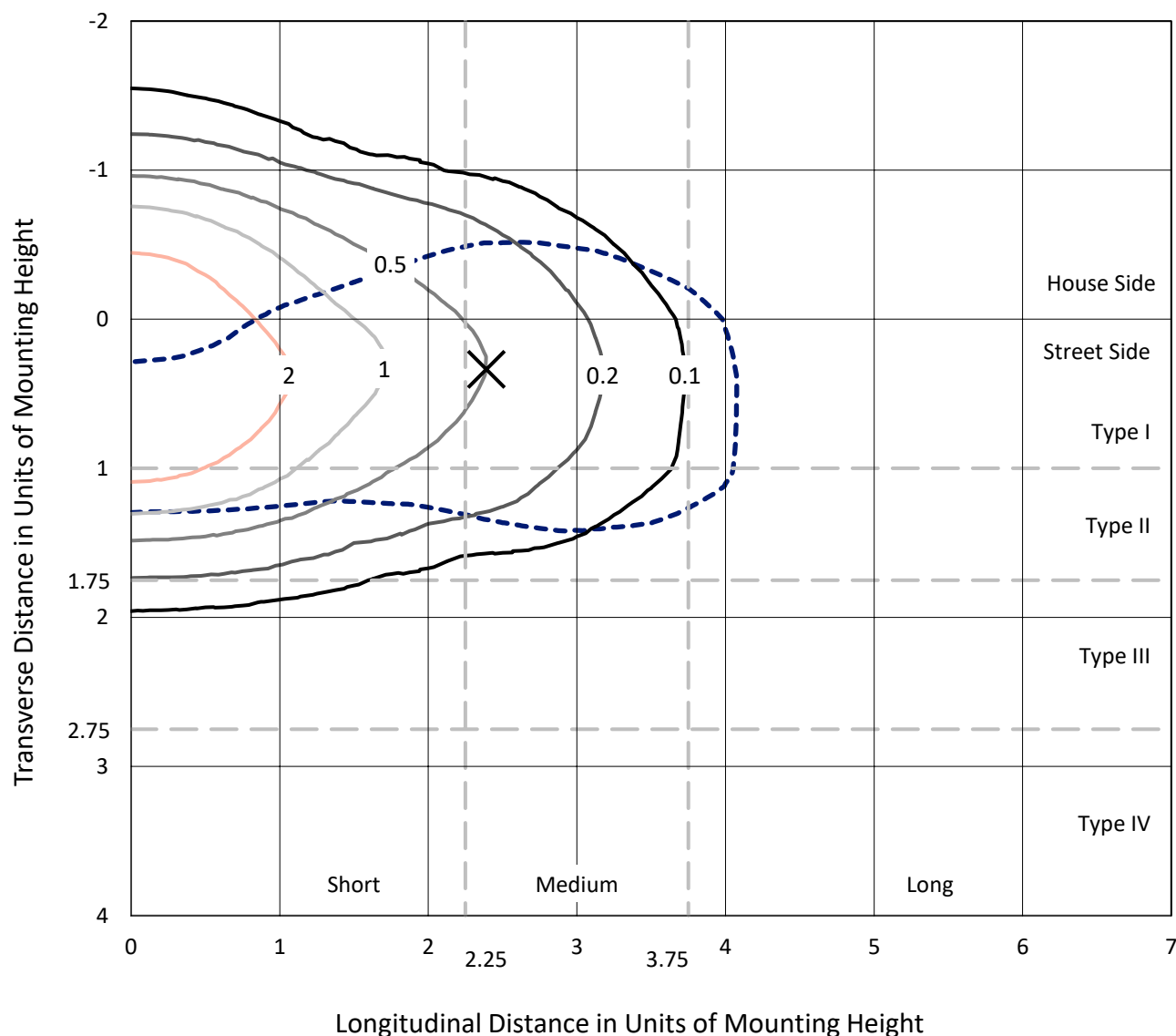
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

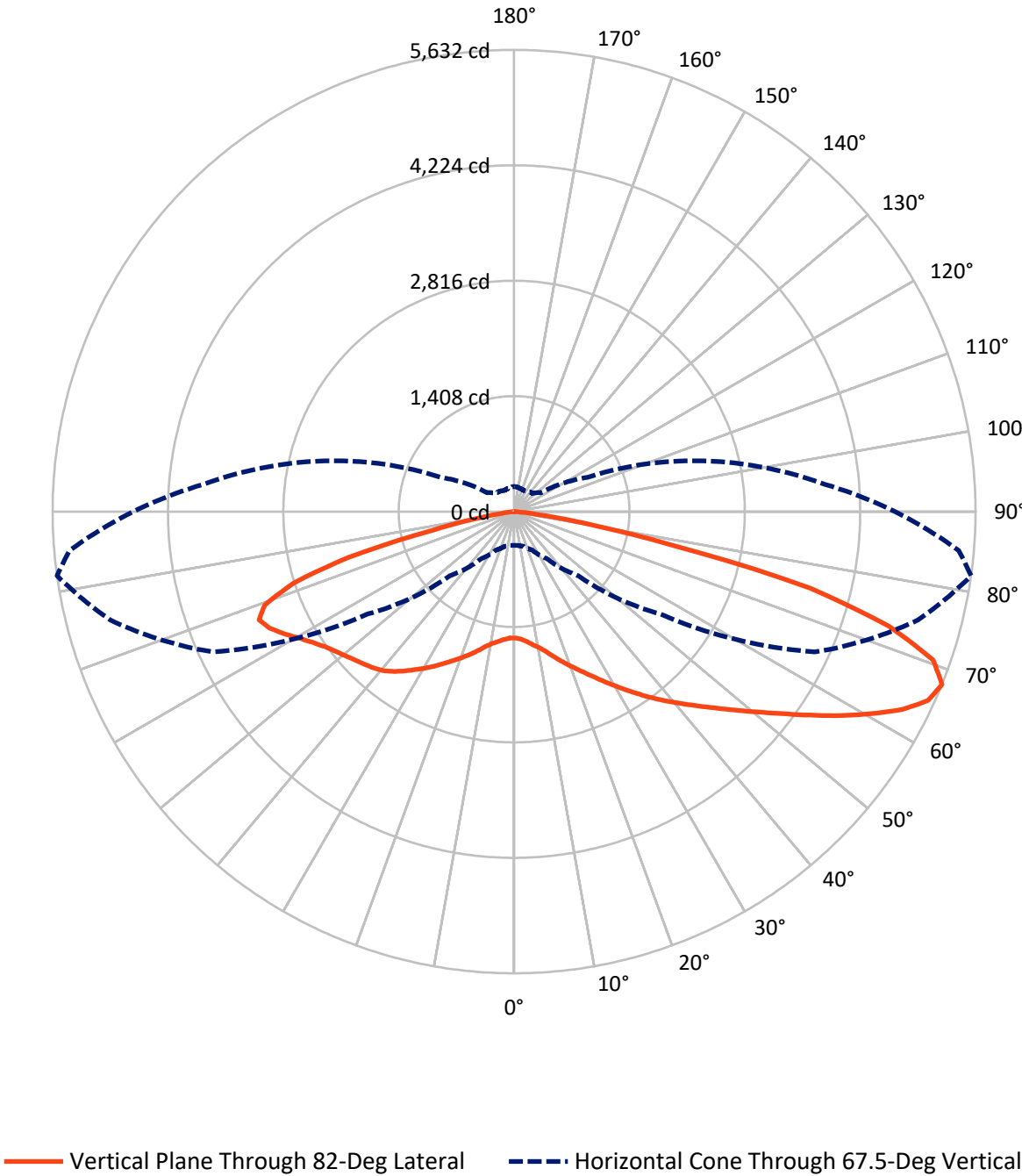
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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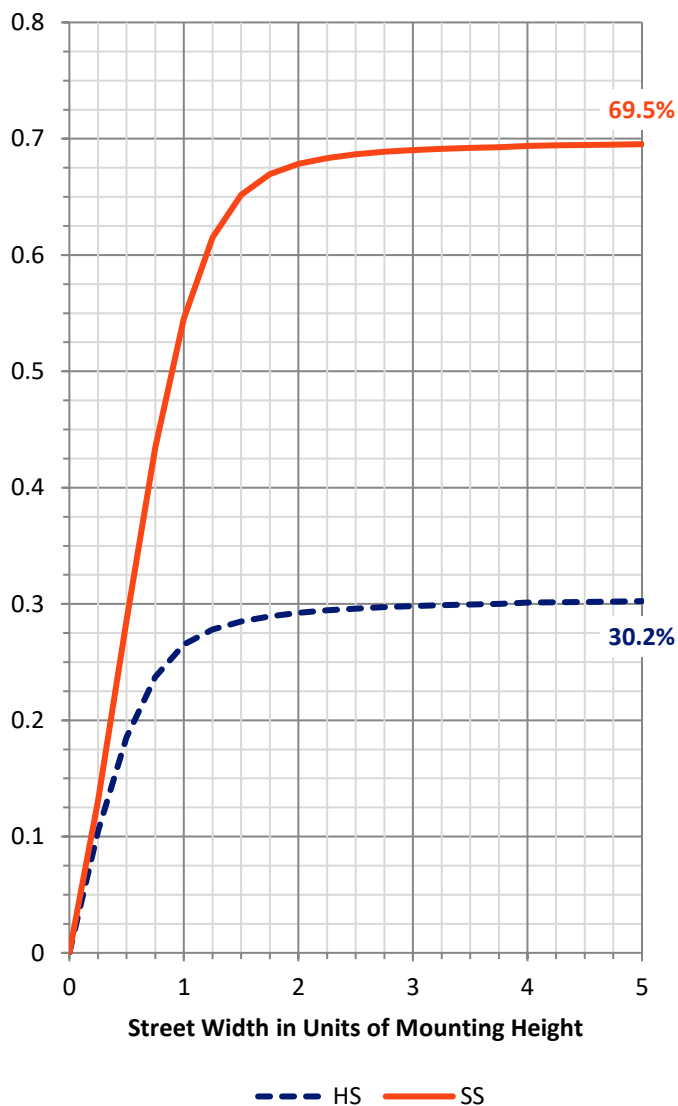
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3266.5	0.0	3266.5
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	7459.5	0.0	7459.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	10726.0	0.0	10726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	1.5
10°-20°	574.0	5.4
20°-30°	1153.5	10.8
30°-40°	1812.0	16.9
40°-50°	2207.4	20.6
50°-60°	2085.7	19.4
60°-70°	1722.3	16.1
70°-80°	937.9	8.7
80°-90°	73.7	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°	10726.0	100.0
0°-180°	10726.0	100.0

Coefficient of Utilization



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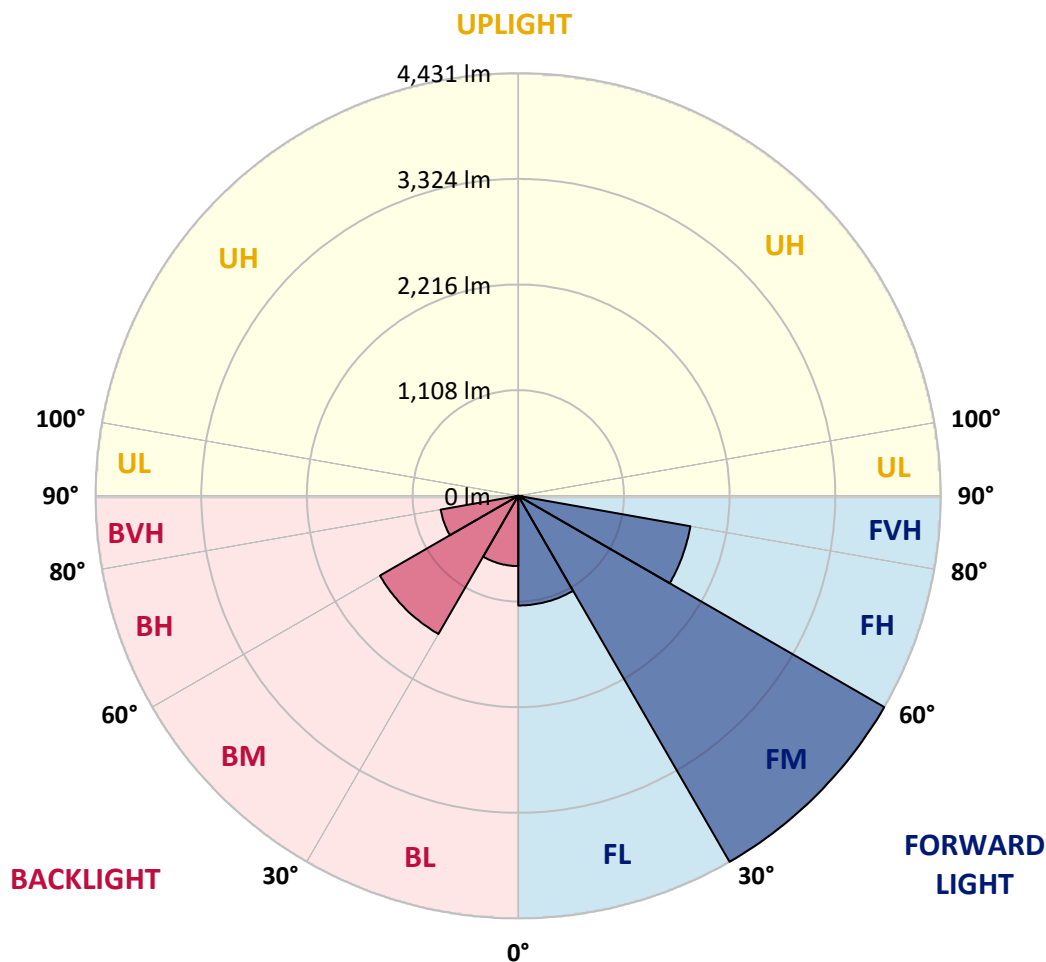
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1150.2	10.7			
FM	(30°-60°)	4431.4	41.3			
FH	(60°-80°)	1833.5	17.1			G2/5000
FVH	(80°-90°)	44.4	0.4			G1/100
BL	(0°-30°)	736.6	6.9	B2/1000		
BM	(30°-60°)	1673.8	15.6	B2/2500		
BH	(60°-80°)	826.8	7.7	B2/1000		G2/1000
BVH	(80°-90°)	29.3	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°	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9
2.5°	1611.9	1611.9	1624.4	1624.4	1613.5	1596.4	1591.7	1573.0	1555.9	1555.9	1557.4
5°	1766.1	1764.6	1773.9	1761.5	1735.0	1700.7	1677.4	1636.9	1602.6	1591.7	1590.1
7.5°	1954.6	1953.0	1957.7	1937.4	1887.6	1831.5	1784.8	1719.4	1663.3	1640.0	1633.7
10°	2164.8	2163.3	2158.6	2124.3	2057.4	1970.2	1900.1	1809.7	1725.6	1688.3	1680.5
12.5°	2406.2	2403.1	2392.2	2342.4	2250.5	2138.4	2037.1	1920.3	1808.2	1756.8	1739.7
15°	2675.7	2671.0	2650.7	2590.0	2467.0	2325.2	2194.4	2044.9	1907.9	1840.9	1817.5
17.5°	2959.1	2959.1	2928.0	2837.6	2700.6	2524.6	2362.6	2172.6	2012.2	1929.7	1901.6
20°	3247.2	3245.7	3206.8	3097.7	2935.8	2733.3	2527.7	2319.0	2119.7	2020.0	1985.7
22.5°	3550.9	3547.8	3499.5	3375.0	3181.8	2952.9	2713.0	2463.9	2238.0	2118.1	2074.5
25°	3899.8	3895.1	3836.0	3683.3	3454.4	3195.8	2921.7	2633.6	2373.5	2227.1	2175.7
27.5°	4270.5	4264.2	4194.2	4016.6	3765.9	3454.4	3152.2	2829.9	2523.0	2348.6	2291.0
30°	4600.7	4596.0	4519.7	4337.4	4049.3	3711.4	3371.8	3026.1	2680.3	2477.9	2406.2
32.5°	4849.8	4849.8	4781.3	4602.2	4303.2	3957.4	3593.0	3211.4	2843.9	2616.5	2532.4
35°	5000.9	5005.6	4946.4	4803.1	4521.2	4189.5	3821.9	3429.5	3018.3	2764.4	2674.1
37.5°	5022.7	5038.3	5004.0	4907.5	4672.3	4382.6	4046.2	3639.7	3199.0	2914.0	2812.7
40°	4921.5	4932.4	4933.9	4896.6	4734.6	4521.2	4244.0	3862.4	3390.5	3071.3	2954.4
42.5°	4719.0	4726.8	4740.8	4751.7	4689.4	4582.0	4395.1	4069.6	3594.6	3231.7	3094.6
45°	4457.4	4455.8	4479.2	4525.9	4522.8	4547.7	4479.2	4258.0	3806.4	3413.9	3250.4
47.5°	4066.5	4058.7	4141.2	4247.1	4300.1	4416.9	4480.7	4406.0	4036.9	3614.8	3427.9
50°	3454.4	3446.6	3627.3	3876.4	4032.2	4209.7	4395.1	4494.7	4278.3	3840.6	3621.0
52.5°	2709.9	2702.1	2931.1	3367.2	3706.7	3965.2	4222.2	4515.0	4507.2	4092.9	3839.1
55°	2015.3	2009.1	2231.8	2703.7	3253.5	3681.8	4010.4	4462.0	4722.1	4382.6	4103.8
57.5°	1420.4	1417.3	1610.4	2001.3	2671.0	3336.0	3806.4	4359.3	4919.9	4697.2	4402.9
60°	996.8	992.1	1132.3	1434.4	2020.0	2814.3	3603.9	4222.2	5067.9	5007.1	4720.6
62.5°	671.3	668.1	767.8	1020.1	1434.4	2166.4	3297.1	4130.3	5152.0	5318.6	5041.4
65°	509.3	507.7	552.9	691.5	1015.4	1555.9	2809.6	4119.4	5162.9	5552.2	5314.0
67.5°	411.2	412.7	437.6	517.1	702.4	1105.8	2178.8	4050.9	5105.3	5631.7	5446.3
70°	336.4	336.4	347.3	400.3	518.6	746.0	1521.6	3739.4	4944.8	5424.5	5289.0
72.5°	257.0	258.5	292.8	323.9	390.9	523.3	975.0	3094.6	4566.4	4782.9	4680.1
75°	204.0	202.5	222.7	266.3	303.7	373.8	598.1	2219.3	3885.8	3737.8	3672.4
77.5°	146.4	144.8	160.4	197.8	230.5	264.8	356.7	1119.8	2113.4	1942.1	1893.8
80°	99.7	96.6	110.6	137.1	152.6	155.7	174.4	429.9	922.0	869.0	858.1
82.5°	51.4	51.4	59.2	77.9	79.4	81.0	77.9	138.6	305.3	285.0	272.6
85°	20.2	20.2	21.8	26.5	26.5	28.0	28.0	35.8	32.7	31.1	29.6
87.5°	1.6	1.6	3.1	3.1	4.7	4.7	4.7	6.2	7.8	7.8	7.8
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°	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9	1541.9
2.5°	1554.3	1548.1	1527.8	1523.2	1520.1	1515.4	1516.9	1506.0	1501.4	1502.9	1496.7
5°	1582.4	1571.4	1546.5	1535.6	1532.5	1527.8	1532.5	1524.7	1516.9	1520.1	1516.9
7.5°	1621.3	1605.7	1574.6	1563.7	1562.1	1557.4	1563.7	1557.4	1551.2	1554.3	1548.1
10°	1661.8	1641.5	1607.3	1596.4	1596.4	1594.8	1601.0	1591.7	1585.5	1587.0	1583.9
12.5°	1721.0	1694.5	1657.1	1647.8	1643.1	1647.8	1649.3	1636.9	1626.0	1627.5	1622.8
15°	1792.6	1763.0	1722.5	1708.5	1705.4	1703.8	1697.6	1682.0	1668.0	1666.5	1661.8
17.5°	1870.5	1833.1	1784.8	1770.8	1756.8	1752.1	1736.5	1716.3	1694.5	1694.5	1688.3
20°	1945.2	1903.2	1845.6	1825.3	1805.1	1786.4	1759.9	1727.2	1699.2	1694.5	1688.3
22.5°	2026.2	1976.4	1909.4	1879.8	1844.0	1806.6	1761.5	1717.8	1682.0	1674.2	1669.6
25°	2116.5	2054.3	1974.8	1931.2	1873.6	1816.0	1749.0	1692.9	1650.9	1638.4	1635.3
27.5°	2216.2	2141.5	2044.9	1981.1	1897.0	1806.6	1721.0	1654.0	1602.6	1587.0	1582.4
30°	2317.5	2228.7	2108.8	2015.3	1897.0	1777.0	1669.6	1591.7	1532.5	1510.7	1507.6
32.5°	2418.7	2319.0	2166.4	2034.0	1878.3	1727.2	1602.6	1510.7	1443.7	1417.3	1423.5
35°	2540.2	2418.7	2219.3	2041.8	1847.1	1666.5	1526.3	1418.8	1350.3	1326.9	1331.6
37.5°	2666.3	2518.4	2261.4	2035.6	1803.5	1597.9	1440.6	1336.3	1250.6	1210.1	1214.8
40°	2775.3	2608.7	2291.0	2013.8	1747.4	1520.1	1356.5	1219.5	1101.1	1062.2	1057.5
42.5°	2878.1	2675.7	2306.6	1981.1	1683.6	1429.7	1236.6	1060.6	942.2	894.0	895.5
45°	2985.6	2741.1	2300.3	1937.4	1604.2	1323.8	1082.4	904.9	800.5	756.9	758.5
47.5°	3108.6	2811.2	2294.1	1890.7	1507.6	1186.8	934.5	767.8	677.5	646.3	643.2
50°	3239.5	2889.0	2286.3	1833.1	1400.1	1034.1	788.1	640.1	563.8	543.5	538.9
52.5°	3387.4	2973.1	2281.6	1764.6	1270.9	872.2	657.2	528.0	476.6	462.6	461.0
55°	3565.0	3071.3	2287.9	1682.0	1115.1	719.5	546.7	454.8	420.5	412.7	411.2
57.5°	3781.4	3197.4	2306.6	1585.5	951.6	587.2	465.7	409.6	387.8	381.6	381.6
60°	4016.6	3340.7	2340.8	1476.4	788.1	484.4	412.7	373.8	364.4	372.2	372.2
62.5°	4270.5	3508.9	2401.6	1344.1	635.4	409.6	370.7	344.2	338.0	353.5	355.1
65°	4505.6	3672.4	2440.5	1185.2	504.6	355.1	338.0	314.6	317.7	333.3	331.7
67.5°	4650.5	3807.9	2386.0	985.9	400.3	314.6	303.7	283.5	291.2	303.7	305.3
70°	4561.7	3731.6	2116.5	744.5	313.0	274.1	266.3	253.9	260.1	275.7	281.9
72.5°	4127.2	3342.2	1646.2	503.1	252.3	230.5	233.6	227.4	235.2	249.2	263.2
75°	3350.0	2526.2	1104.2	322.4	199.4	196.2	200.9	196.2	199.4	213.4	221.2
77.5°	1749.0	1231.9	549.8	200.9	148.0	152.6	160.4	162.0	171.3	174.4	177.5
80°	816.1	554.4	228.9	112.1	98.1	107.5	123.0	124.6	127.7	132.4	133.9
82.5°	266.3	166.6	105.9	60.7	56.1	60.7	79.4	95.0	96.6	105.9	105.9
85°	28.0	17.1	23.4	24.9	21.8	26.5	35.8	34.3	15.6	9.3	9.3
87.5°	7.8	6.2	7.8	7.8	6.2	6.2	4.7	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)