

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: P836676

Luminaire Tested: **ARCH3-60-727-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-727-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

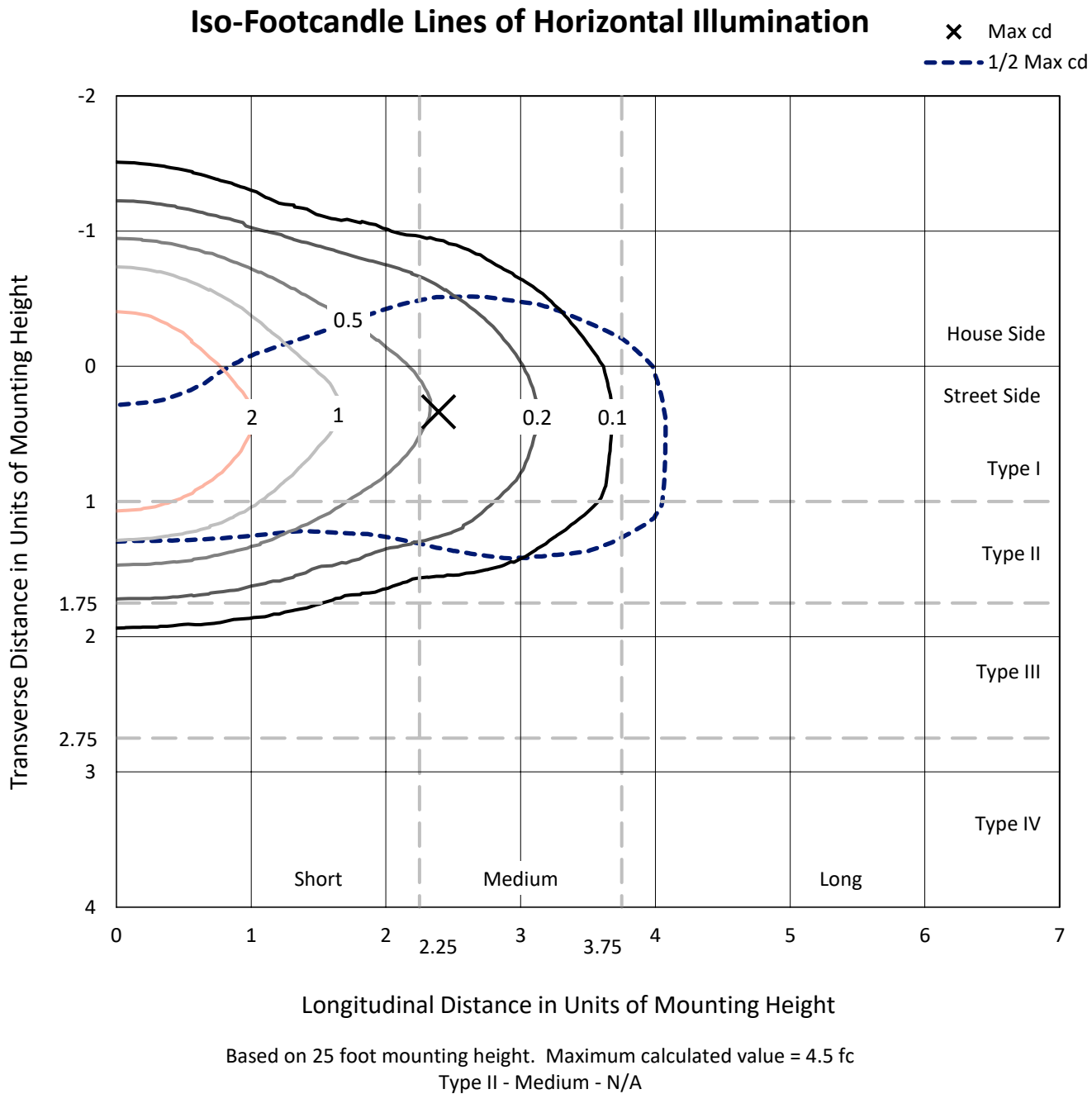
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10101 lumens
Efficiency: N/A
Efficacy: 159.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 63.2
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

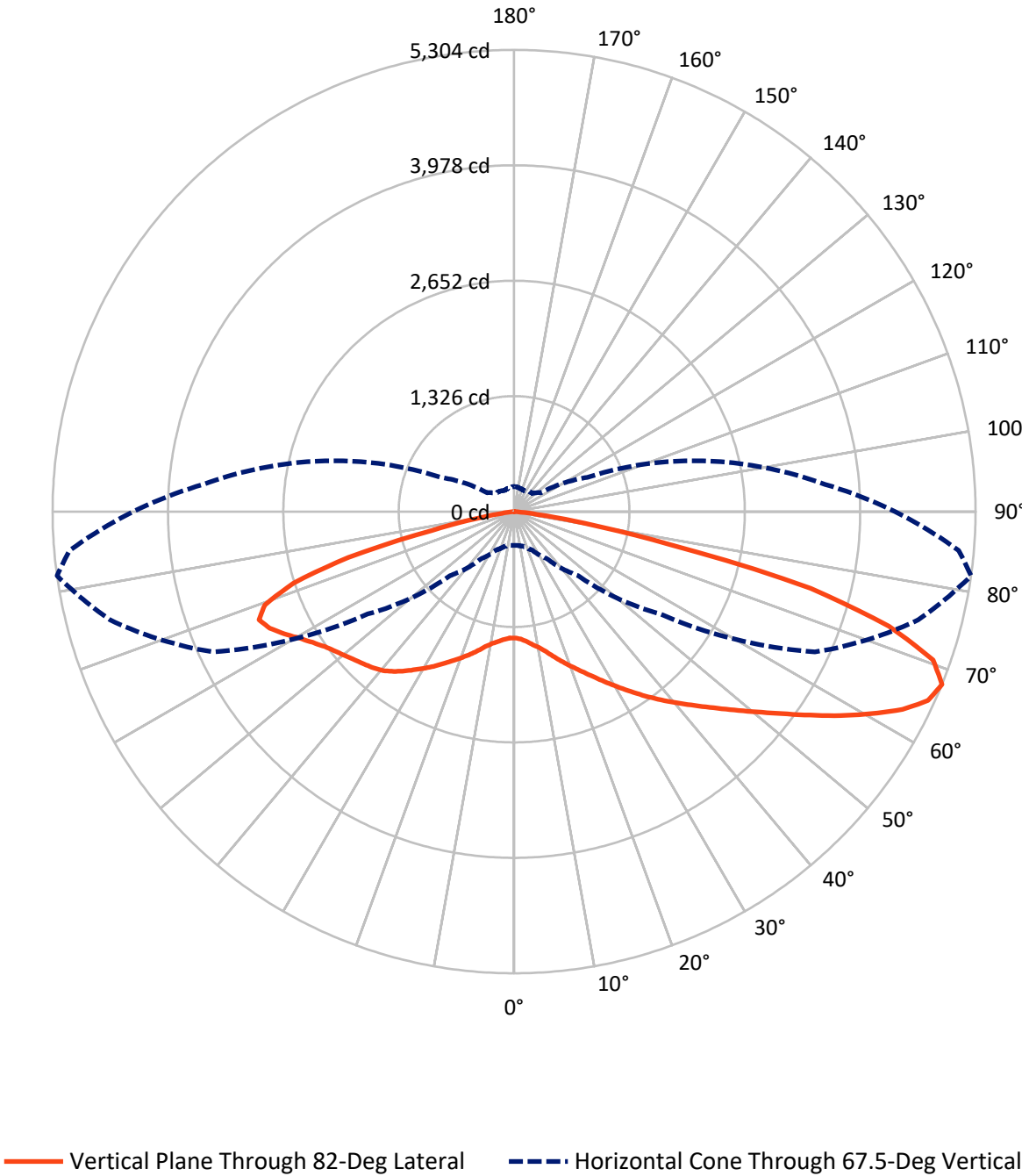


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Luminous Intensity Polar Plot



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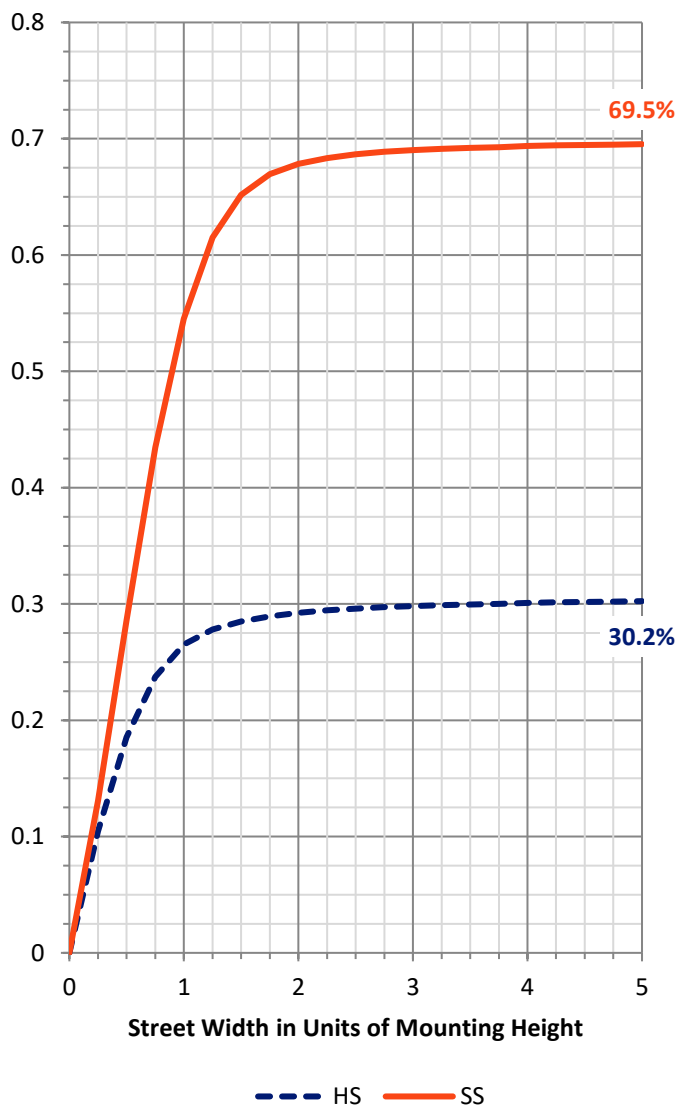
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3076.1	0.0	3076.1
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	7024.8	0.0	7024.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	10101.0	0.0	10101.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.1	1.5
10°-20°	540.5	5.4
20°-30°	1086.3	10.8
30°-40°	1706.4	16.9
40°-50°	2078.8	20.6
50°-60°	1964.2	19.4
60°-70°	1622.0	16.1
70°-80°	883.2	8.7
80°-90°	69.4	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°	10101.0	100.0
0°-180°	10101.0	100.0

Coefficient of Utilization



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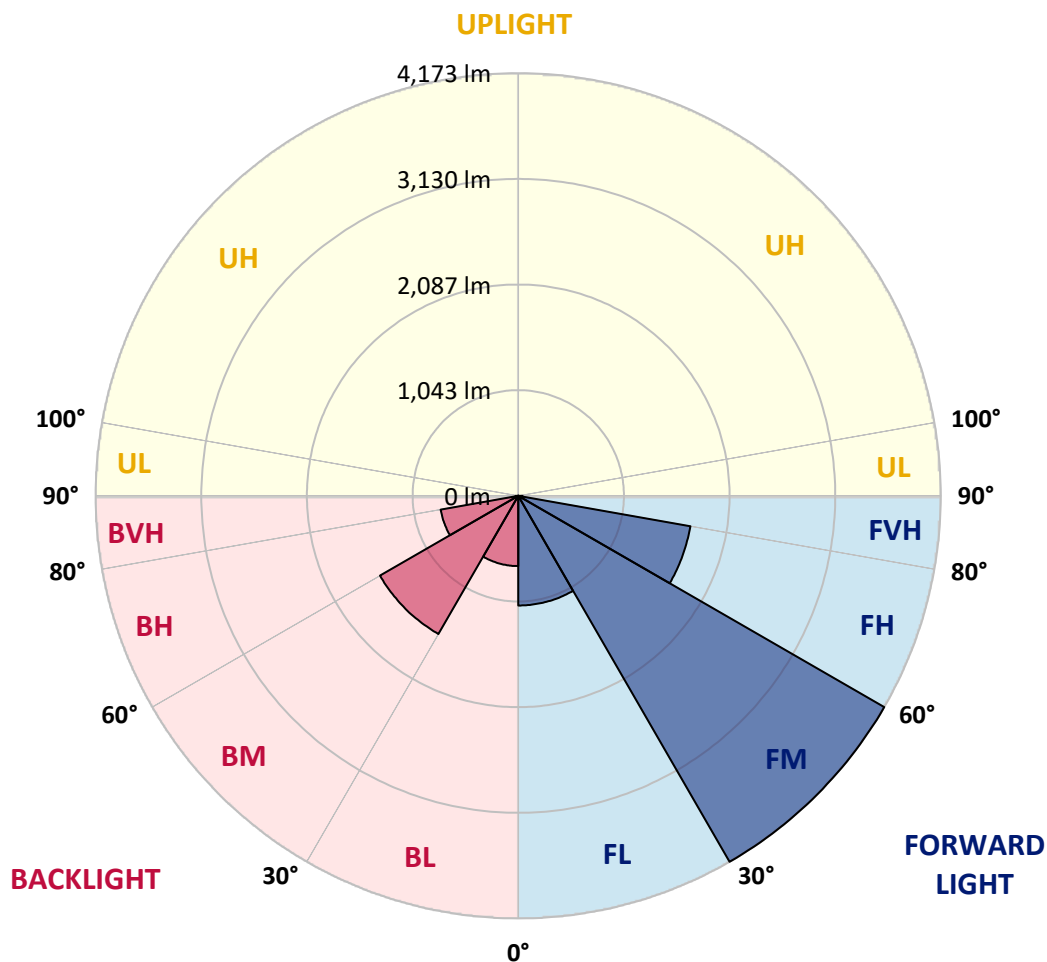
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1083.2	10.7			
FM	(30°-60°)	4173.2	41.3			
FH	(60°-80°)	1726.6	17.1			G1/1800
FVH	(80°-90°)	41.9	0.4			G1/100
BL	(0°-30°)	693.7	6.9	B2/1000		
BM	(30°-60°)	1576.3	15.6	B2/2500		
BH	(60°-80°)	778.6	7.7	B2/1000		G2/1000
BVH	(80°-90°)	27.6	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°	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0
2.5°	1518.0	1518.0	1529.7	1529.7	1519.5	1503.3	1498.9	1481.3	1465.2	1465.2	1466.7
5°	1663.2	1661.7	1670.5	1658.8	1633.9	1601.6	1579.6	1541.5	1509.2	1498.9	1497.5
7.5°	1840.7	1839.2	1843.6	1824.6	1777.6	1724.8	1680.8	1619.2	1566.4	1544.4	1538.5
10°	2038.7	2037.2	2032.8	2000.6	1937.5	1855.4	1789.4	1704.3	1625.1	1589.9	1582.5
12.5°	2266.0	2263.1	2252.8	2205.9	2119.4	2013.8	1918.4	1808.4	1702.8	1654.4	1638.3
15°	2519.8	2515.4	2496.3	2439.1	2323.2	2189.8	2066.6	1925.8	1796.7	1733.6	1711.6
17.5°	2786.7	2786.7	2757.4	2672.3	2543.2	2377.5	2225.0	2046.0	1895.0	1817.2	1790.8
20°	3058.0	3056.6	3019.9	2917.2	2764.7	2574.0	2380.4	2183.9	1996.2	1902.3	1870.0
22.5°	3344.0	3341.1	3295.6	3178.3	2996.4	2780.8	2555.0	2320.3	2107.6	1994.7	1953.6
25°	3672.6	3668.2	3612.4	3468.7	3253.1	3009.6	2751.5	2480.2	2235.2	2097.4	2049.0
27.5°	4021.6	4015.8	3949.8	3782.6	3546.4	3253.1	2968.6	2665.0	2376.0	2211.8	2157.5
30°	4332.6	4328.2	4256.3	4084.7	3813.4	3495.1	3175.4	2849.8	2524.2	2333.5	2266.0
32.5°	4567.2	4567.2	4502.7	4334.0	4052.4	3726.8	3383.6	3024.3	2678.2	2464.0	2384.8
35°	4709.5	4713.9	4658.2	4523.2	4257.8	3945.4	3599.2	3229.6	2842.4	2603.4	2518.3
37.5°	4730.0	4744.7	4712.4	4621.5	4400.0	4127.2	3810.4	3427.6	3012.6	2744.2	2648.8
40°	4634.7	4645.0	4646.4	4611.2	4458.7	4257.8	3996.7	3637.4	3193.0	2892.3	2782.3
42.5°	4444.0	4451.4	4464.6	4474.8	4416.2	4315.0	4139.0	3832.4	3385.1	3043.4	2914.3
45°	4197.6	4196.2	4218.2	4262.2	4259.2	4282.7	4218.2	4009.9	3584.6	3215.0	3061.0
47.5°	3829.5	3822.2	3899.9	3999.6	4049.5	4159.5	4219.6	4149.2	3801.6	3404.2	3228.2
50°	3253.1	3245.8	3415.9	3650.6	3797.2	3964.4	4139.0	4232.8	4029.0	3616.8	3410.0
52.5°	2552.0	2544.7	2760.3	3171.0	3490.7	3734.2	3976.2	4251.9	4244.6	3854.4	3615.4
55°	1897.9	1892.0	2101.8	2546.2	3063.9	3467.2	3776.7	4202.0	4447.0	4127.2	3864.7
57.5°	1337.6	1334.7	1516.5	1884.7	2515.4	3141.6	3584.6	4105.2	4633.2	4423.5	4146.3
60°	938.7	934.3	1066.3	1350.8	1902.3	2650.3	3393.9	3976.2	4772.6	4715.4	4445.5
62.5°	632.1	629.2	723.1	960.7	1350.8	2040.2	3105.0	3889.6	4851.8	5008.7	4747.6
65°	479.6	478.1	520.7	651.2	956.3	1465.2	2645.9	3879.4	4862.0	5228.7	5004.3
67.5°	387.2	388.7	412.1	486.9	661.5	1041.3	2051.9	3814.8	4807.8	5303.5	5129.0
70°	316.8	316.8	327.1	376.9	488.4	702.5	1432.9	3521.5	4656.7	5108.4	4980.8
72.5°	242.0	243.5	275.7	305.1	368.1	492.8	918.1	2914.3	4300.3	4504.2	4407.4
75°	192.1	190.7	209.7	250.8	286.0	352.0	563.2	2090.0	3659.4	3520.0	3458.4
77.5°	137.9	136.4	151.1	186.3	217.1	249.3	335.9	1054.5	1990.3	1829.0	1783.5
80°	93.9	90.9	104.1	129.1	143.7	146.7	164.3	404.8	868.3	818.4	808.1
82.5°	48.4	48.4	55.7	73.3	74.8	76.3	73.3	130.5	287.5	268.4	256.7
85°	19.1	19.1	20.5	24.9	24.9	26.4	26.4	33.7	30.8	29.3	27.9
87.5°	1.5	1.5	2.9	2.9	4.4	4.4	4.4	5.9	7.3	7.3	7.3
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°	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0	1452.0
2.5°	1463.7	1457.9	1438.8	1434.4	1431.5	1427.1	1428.5	1418.3	1413.9	1415.3	1409.5
5°	1490.1	1479.9	1456.4	1446.1	1443.2	1438.8	1443.2	1435.9	1428.5	1431.5	1428.5
7.5°	1526.8	1512.1	1482.8	1472.5	1471.1	1466.7	1472.5	1466.7	1460.8	1463.7	1457.9
10°	1564.9	1545.9	1513.6	1503.3	1503.3	1501.9	1507.7	1498.9	1493.1	1494.5	1491.6
12.5°	1620.7	1595.7	1560.5	1551.7	1547.3	1551.7	1553.2	1541.5	1531.2	1532.7	1528.3
15°	1688.1	1660.3	1622.1	1608.9	1606.0	1604.5	1598.7	1584.0	1570.8	1569.3	1564.9
17.5°	1761.5	1726.3	1680.8	1667.6	1654.4	1650.0	1635.3	1616.3	1595.7	1595.7	1589.9
20°	1831.9	1792.3	1738.0	1718.9	1699.9	1682.3	1657.3	1626.5	1600.1	1595.7	1589.9
22.5°	1908.2	1861.2	1798.2	1770.3	1736.5	1701.3	1658.8	1617.7	1584.0	1576.7	1572.3
25°	1993.2	1934.6	1859.8	1818.7	1764.4	1710.1	1647.1	1594.3	1554.7	1542.9	1540.0
27.5°	2087.1	2016.7	1925.8	1865.6	1786.4	1701.3	1620.7	1557.6	1509.2	1494.5	1490.1
30°	2182.4	2098.8	1985.9	1897.9	1786.4	1673.5	1572.3	1498.9	1443.2	1422.7	1419.7
32.5°	2277.8	2183.9	2040.2	1915.5	1768.8	1626.5	1509.2	1422.7	1359.6	1334.7	1340.5
35°	2392.2	2277.8	2090.0	1922.8	1739.5	1569.3	1437.3	1336.1	1271.6	1249.6	1254.0
37.5°	2511.0	2371.6	2129.6	1917.0	1698.4	1504.8	1356.7	1258.4	1177.7	1139.6	1144.0
40°	2613.6	2456.7	2157.5	1896.4	1645.6	1431.5	1277.5	1148.4	1036.9	1000.3	995.9
42.5°	2710.4	2519.8	2172.2	1865.6	1585.5	1346.4	1164.5	998.8	887.3	841.9	843.3
45°	2811.6	2581.4	2166.3	1824.6	1510.7	1246.7	1019.3	852.1	753.9	712.8	714.3
47.5°	2927.5	2647.4	2160.4	1780.5	1419.7	1117.6	880.0	723.1	638.0	608.7	605.7
50°	3050.7	2720.7	2153.1	1726.3	1318.5	973.9	742.1	602.8	530.9	511.9	507.5
52.5°	3190.0	2799.9	2148.7	1661.7	1196.8	821.3	618.9	497.2	448.8	435.6	434.1
55°	3357.2	2892.3	2154.6	1584.0	1050.1	677.6	514.8	428.3	396.0	388.7	387.2
57.5°	3561.1	3011.1	2172.2	1493.1	896.1	552.9	438.5	385.7	365.2	359.3	359.3
60°	3782.6	3146.0	2204.4	1390.4	742.1	456.1	388.7	352.0	343.2	350.5	350.5
62.5°	4021.6	3304.4	2261.6	1265.7	598.4	385.7	349.1	324.1	318.3	332.9	334.4
65°	4243.1	3458.4	2298.3	1116.1	475.2	334.4	318.3	296.3	299.2	313.9	312.4
67.5°	4379.5	3586.0	2247.0	928.4	376.9	296.3	286.0	266.9	274.3	286.0	287.5
70°	4295.9	3514.2	1993.2	701.1	294.8	258.1	250.8	239.1	244.9	259.6	265.5
72.5°	3886.7	3147.5	1550.3	473.7	237.6	217.1	220.0	214.1	221.5	234.7	247.9
75°	3154.8	2379.0	1039.9	303.6	187.7	184.8	189.2	184.8	187.7	200.9	208.3
77.5°	1647.1	1160.1	517.7	189.2	139.3	143.7	151.1	152.5	161.3	164.3	167.2
80°	768.5	522.1	215.6	105.6	92.4	101.2	115.9	117.3	120.3	124.7	126.1
82.5°	250.8	156.9	99.7	57.2	52.8	57.2	74.8	89.5	90.9	99.7	99.7
85°	26.4	16.1	22.0	23.5	20.5	24.9	33.7	32.3	14.7	8.8	8.8
87.5°	7.3	5.9	7.3	7.3	5.9	5.9	4.4	1.5	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)