

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: P836606

Luminaire Tested: **ARCH3-50-727-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-50-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

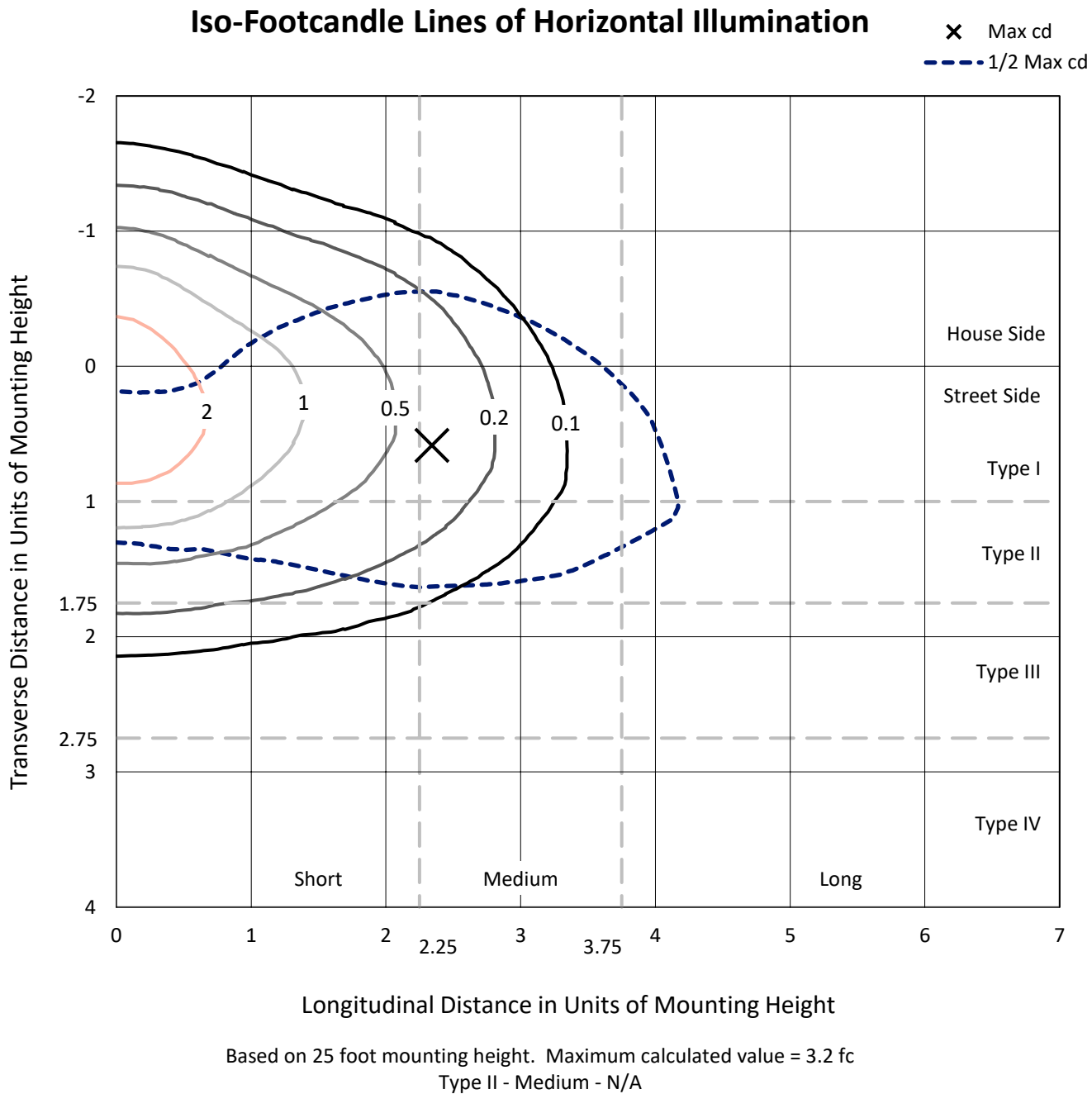
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8627 lumens
Efficiency: N/A
Efficacy: 161.0 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): 53.6
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



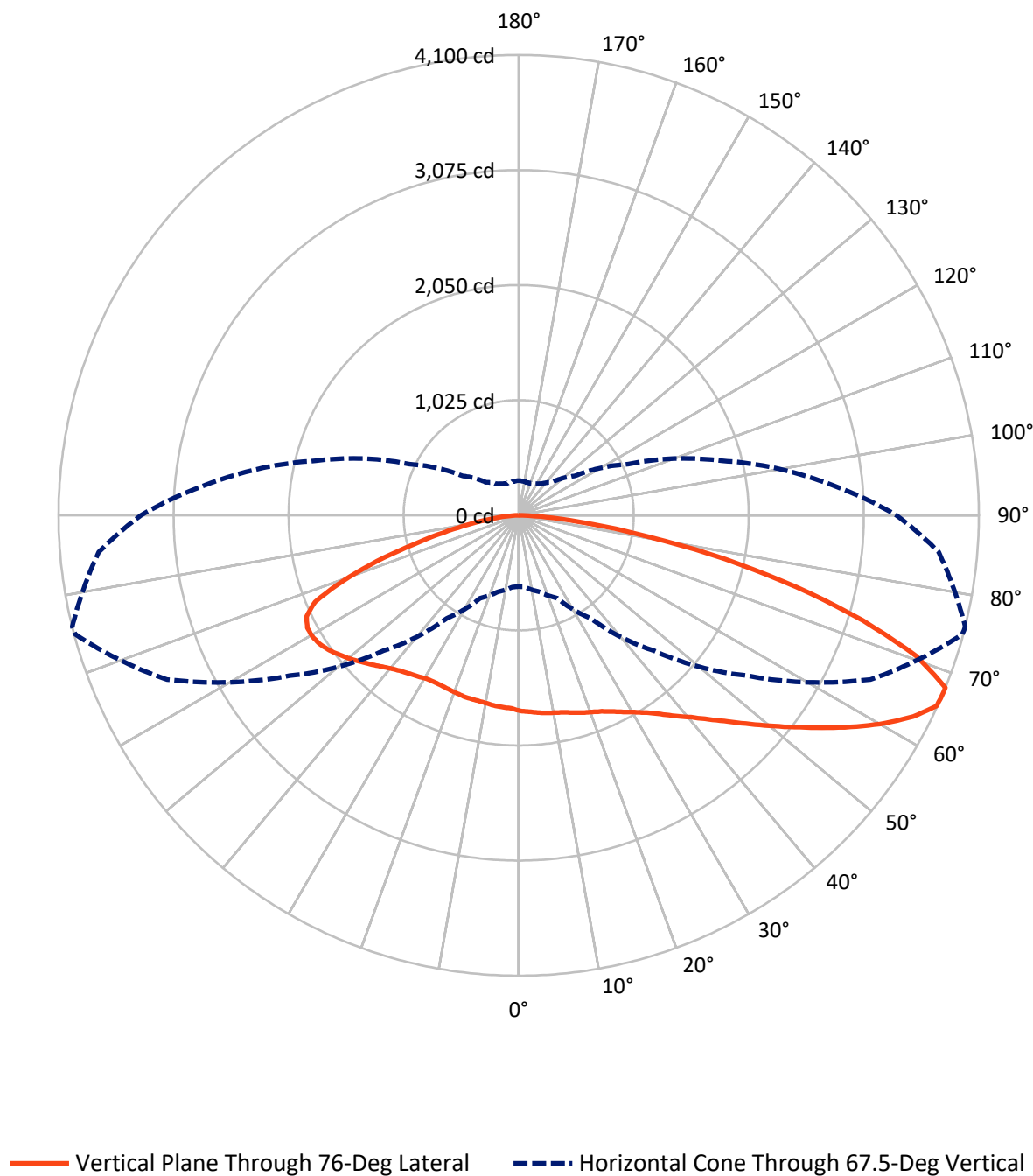
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Luminous Intensity Polar Plot



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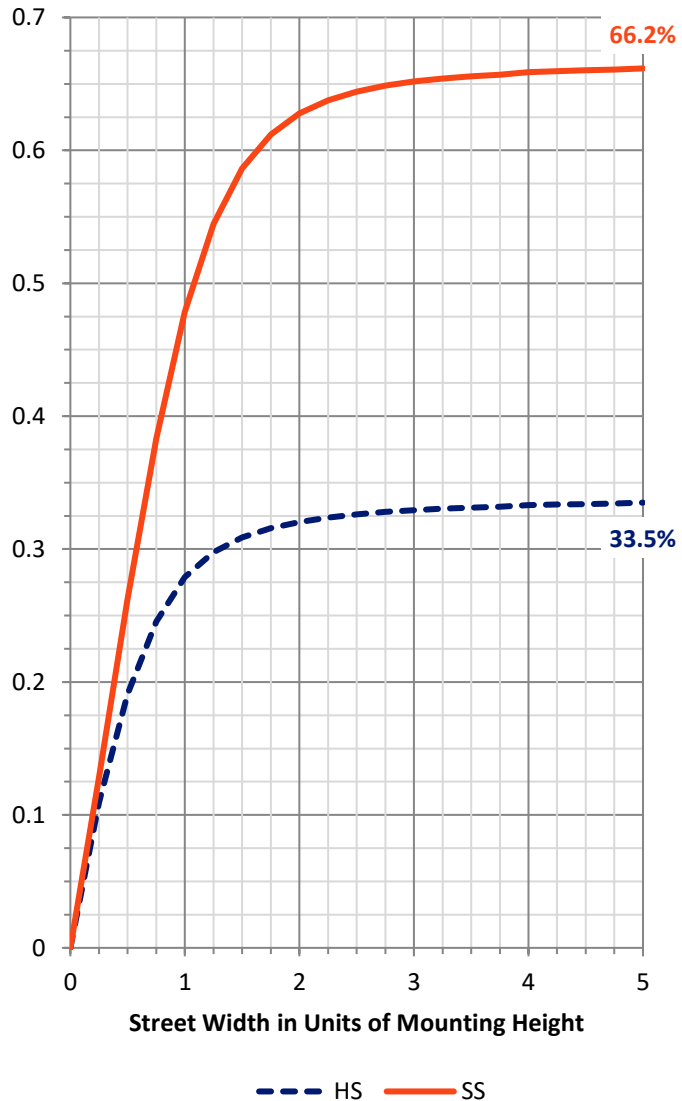
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2915.1	0.0	2915.1
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	5711.9	0.0	5711.9
	% Fixture	66.2	0.0	66.2
Total	Lumens	8627.0	0.0	8627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.0	1.9
10°-20°	513.7	6.0
20°-30°	872.8	10.1
30°-40°	1241.9	14.4
40°-50°	1568.5	18.2
50°-60°	1698.2	19.7
60°-70°	1579.5	18.3
70°-80°	848.3	9.8
80°-90°	135.9	1.6
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°	8627.0	100.0
0°-180°	8627.0	100.0

Coefficient of Utilization



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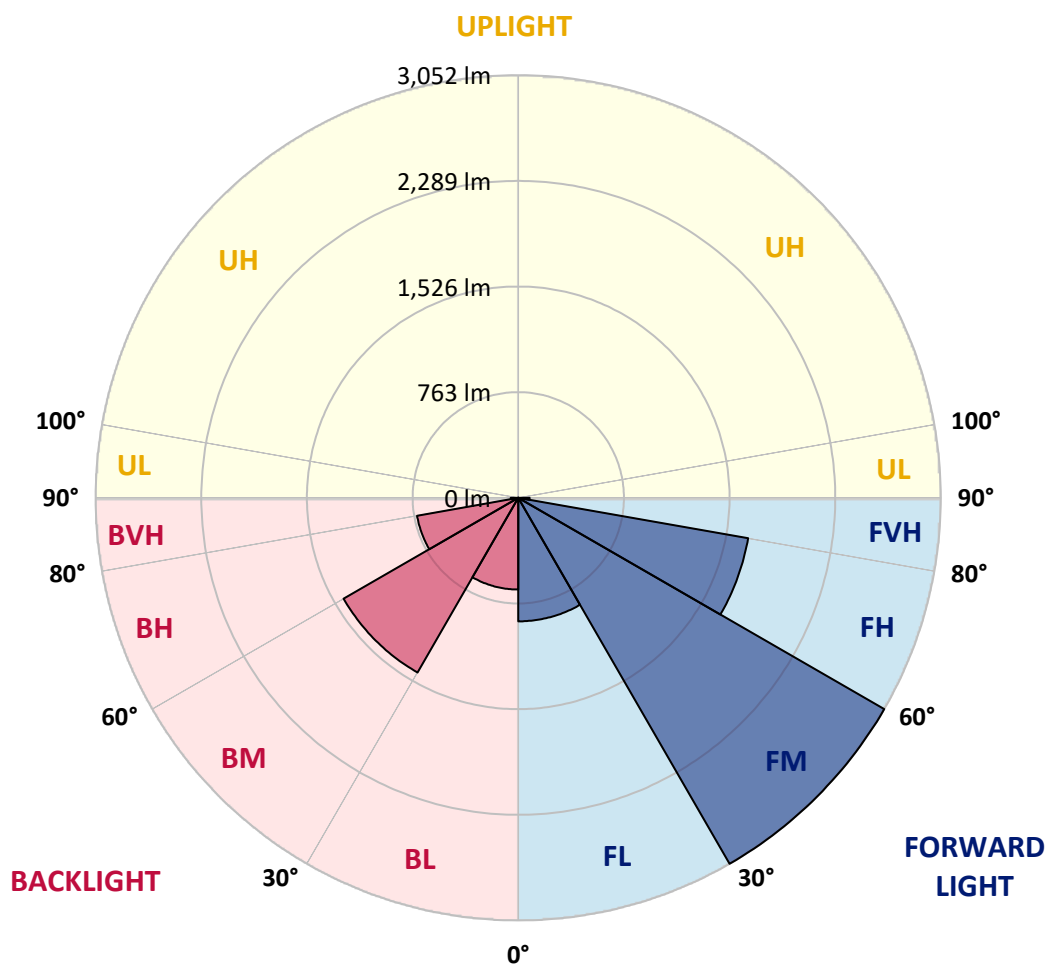
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	892.1	10.3			
FM	(30°-60°)	3051.9	35.4			
FH	(60°-80°)	1685.6	19.5			G1/1800
FVH	(80°-90°)	82.2	1.0			G1/100
BL	(0°-30°)	662.5	7.7	B2/1000		
BM	(30°-60°)	1456.7	16.9	B2/2500		
BH	(60°-80°)	742.2	8.6	B2/1000		G2/1000
BVH	(80°-90°)	53.7	0.6			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°	76°	85°
0°	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6
2.5°	1795.5	1792.3	1779.5	1781.1	1781.1	1779.5	1760.3	1752.2	1752.2	1750.6	1733.0
5°	1859.6	1854.8	1840.3	1837.1	1830.7	1822.7	1792.3	1774.7	1766.7	1765.1	1741.0
7.5°	1934.8	1928.4	1910.8	1901.2	1885.2	1864.4	1825.9	1798.7	1779.5	1777.9	1744.2
10°	2010.1	2003.7	1982.9	1965.3	1942.8	1909.2	1859.6	1819.5	1789.1	1785.9	1745.8
12.5°	2099.8	2093.4	2067.8	2045.4	2011.7	1966.9	1901.2	1846.7	1805.1	1800.3	1750.6
15°	2194.3	2184.7	2159.1	2133.4	2091.8	2034.1	1955.7	1883.6	1830.7	1822.7	1765.1
17.5°	2272.8	2260.0	2239.2	2213.5	2167.1	2099.8	2010.1	1920.4	1854.8	1848.3	1779.5
20°	2340.1	2330.5	2308.0	2284.0	2234.4	2160.7	2061.4	1957.3	1877.2	1869.2	1790.7
22.5°	2404.1	2391.3	2378.5	2360.9	2306.4	2224.7	2120.6	2002.1	1906.0	1896.4	1805.1
25°	2477.8	2463.4	2458.6	2449.0	2384.9	2301.6	2192.7	2058.2	1946.0	1934.8	1830.7
27.5°	2569.1	2553.1	2543.5	2543.5	2466.6	2380.1	2269.6	2123.8	1992.5	1982.9	1862.8
30°	2665.2	2646.0	2631.6	2631.6	2545.1	2458.6	2344.9	2189.5	2045.4	2034.1	1904.4
32.5°	2750.1	2730.9	2714.9	2713.3	2623.6	2537.1	2423.4	2261.6	2109.4	2095.0	1955.7
35°	2815.8	2798.1	2783.7	2786.9	2702.0	2617.2	2511.4	2357.7	2189.5	2173.5	2022.9
37.5°	2855.8	2849.4	2841.4	2852.6	2774.1	2694.0	2602.7	2450.6	2280.8	2266.4	2106.2
40°	2876.6	2871.8	2903.9	2918.3	2835.0	2762.9	2694.0	2546.7	2380.1	2364.1	2202.3
42.5°	2907.1	2947.1	2959.9	2956.7	2879.8	2815.8	2777.3	2650.8	2497.0	2482.6	2317.6
45°	2798.1	2788.5	2859.0	2897.5	2883.0	2849.4	2855.8	2775.7	2633.2	2618.8	2450.6
47.5°	2652.4	2639.6	2679.6	2774.1	2830.2	2862.2	2926.3	2905.5	2790.1	2777.3	2605.9
50°	2344.9	2362.5	2511.4	2638.0	2748.5	2859.0	2985.5	3044.8	2963.1	2950.3	2772.5
52.5°	2003.7	2021.3	2176.7	2468.2	2649.2	2835.0	3028.8	3184.2	3150.5	3136.1	2950.3
55°	1755.4	1793.9	1970.1	2181.5	2508.2	2759.7	3054.4	3326.7	3352.3	3339.5	3144.1
57.5°	1508.8	1537.6	1670.6	1858.0	2316.0	2628.4	3052.8	3459.6	3563.8	3550.9	3341.1
60°	1218.9	1255.7	1361.4	1563.2	2059.8	2471.4	3008.0	3563.8	3767.2	3757.6	3531.7
62.5°	1020.3	1031.5	1106.8	1281.3	1729.8	2272.8	2907.1	3619.8	3951.4	3945.0	3703.1
65°	821.7	823.3	892.1	1037.9	1411.1	2026.1	2735.7	3599.0	4090.7	4093.9	3826.4
67.5°	634.3	642.3	704.7	815.3	1121.2	1705.8	2490.6	3458.0	4092.3	4100.3	3756.0
70°	438.9	445.3	539.8	647.1	866.5	1359.8	2159.1	3084.8	3756.0	3762.4	3366.7
72.5°	309.1	312.3	413.2	517.3	677.5	1025.1	1628.9	2551.5	3201.8	3206.6	2831.8
75°	230.6	233.8	291.5	392.4	518.9	709.5	1113.2	1954.1	2557.9	2557.9	2236.0
77.5°	163.4	165.0	189.0	270.7	346.0	478.9	669.5	1279.7	1877.2	1880.4	1628.9
80°	110.5	112.1	123.3	182.6	216.2	259.5	363.6	671.1	1183.6	1188.5	1034.7
82.5°	57.7	60.9	68.9	92.9	108.9	144.2	187.4	341.2	655.1	667.9	621.5
85°	22.4	22.4	25.6	30.4	40.0	56.1	86.5	129.7	296.3	305.9	273.9
87.5°	8.0	8.0	9.6	9.6	11.2	12.8	14.4	19.2	33.6	33.6	32.0
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°	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6
2.5°	1726.6	1726.6	1718.6	1721.8	1720.2	1717.0	1713.8	1718.6	1713.8	1702.6	1701.0
5°	1729.8	1726.6	1713.8	1712.2	1707.4	1701.0	1693.0	1696.2	1688.2	1678.6	1677.0
7.5°	1731.4	1725.0	1707.4	1701.0	1691.4	1678.6	1665.8	1665.8	1654.5	1644.9	1643.3
10°	1728.2	1720.2	1696.2	1683.4	1665.8	1646.5	1628.9	1624.1	1611.3	1600.1	1600.1
12.5°	1729.8	1718.6	1688.2	1667.4	1643.3	1619.3	1596.9	1590.5	1579.3	1568.1	1566.4
15°	1739.4	1723.4	1685.0	1657.7	1622.5	1595.3	1571.3	1566.4	1556.8	1548.8	1548.8
17.5°	1749.0	1728.2	1680.2	1641.7	1598.5	1568.1	1545.6	1545.6	1539.2	1534.4	1534.4
20°	1753.8	1729.8	1670.6	1619.3	1569.7	1537.6	1516.8	1520.0	1518.4	1516.8	1516.8
22.5°	1765.1	1733.0	1662.6	1598.5	1539.2	1505.6	1486.4	1491.2	1489.6	1489.6	1491.2
25°	1782.7	1741.0	1656.1	1579.3	1510.4	1473.6	1452.7	1455.9	1455.9	1455.9	1455.9
27.5°	1806.7	1757.1	1654.5	1561.6	1481.6	1439.9	1414.3	1414.3	1407.9	1409.5	1411.1
30°	1843.5	1787.5	1657.7	1545.6	1451.1	1398.3	1367.8	1363.0	1361.4	1364.6	1366.2
32.5°	1888.4	1829.1	1677.0	1534.4	1419.1	1351.8	1313.4	1311.8	1307.0	1307.0	1307.0
35°	1944.4	1869.2	1694.6	1532.8	1387.1	1302.2	1260.5	1255.7	1244.5	1239.7	1239.7
37.5°	2016.5	1931.6	1715.4	1521.6	1359.8	1254.1	1204.5	1188.5	1175.6	1174.0	1174.0
40°	2104.6	2002.1	1745.8	1508.8	1331.0	1204.5	1138.8	1111.6	1113.2	1119.6	1119.6
42.5°	2208.7	2088.6	1784.3	1502.4	1289.4	1153.2	1061.9	1029.9	1041.1	1047.5	1049.1
45°	2330.5	2191.1	1827.5	1494.4	1250.9	1095.6	980.2	940.2	945.0	946.6	948.2
47.5°	2471.4	2304.8	1872.4	1488.0	1207.7	1023.5	890.5	837.7	836.1	826.5	829.7
50°	2618.8	2425.0	1918.8	1476.8	1154.8	938.6	796.0	733.6	720.8	706.3	707.9
52.5°	2775.7	2548.3	1962.1	1459.1	1089.1	852.1	706.3	639.1	613.4	597.4	600.6
55°	2948.7	2674.8	2003.7	1431.9	1020.3	765.6	626.3	557.4	525.4	512.5	514.1
57.5°	3107.3	2796.5	2034.1	1398.3	945.0	687.1	555.8	488.5	467.7	466.1	467.7
60°	3261.0	2899.1	2047.0	1351.8	868.1	615.0	490.1	438.9	424.4	432.5	434.1
62.5°	3390.8	2964.7	2040.5	1289.4	789.6	546.2	437.3	400.4	390.8	406.8	408.4
65°	3466.0	2985.5	1995.7	1199.7	704.7	478.9	387.6	347.6	342.8	352.4	357.2
67.5°	3366.7	2855.8	1874.0	1076.3	610.2	416.4	339.6	307.5	299.5	307.5	307.5
70°	2983.9	2474.6	1585.7	880.9	506.1	355.6	294.7	272.3	265.9	272.3	270.7
72.5°	2485.8	2058.2	1249.3	687.1	398.8	299.5	256.3	235.4	229.0	222.6	219.4
75°	1928.4	1563.2	906.6	504.5	301.1	240.3	214.6	195.4	179.4	185.8	182.6
77.5°	1412.7	1097.2	642.3	349.2	216.2	185.8	168.2	153.8	142.6	155.4	153.8
80°	909.8	709.5	429.3	233.8	149.0	129.7	123.3	115.3	126.5	165.0	168.2
82.5°	555.8	450.1	256.3	152.2	97.7	86.5	80.1	80.1	129.7	142.6	144.2
85°	248.3	238.7	139.3	78.5	54.5	49.7	44.8	57.7	52.9	38.4	40.0
87.5°	40.0	41.6	30.4	27.2	20.8	20.8	16.0	11.2	8.0	4.8	4.8
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)