

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: P842417

Luminaire Tested: **ARCH4-40-750-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-40-750-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

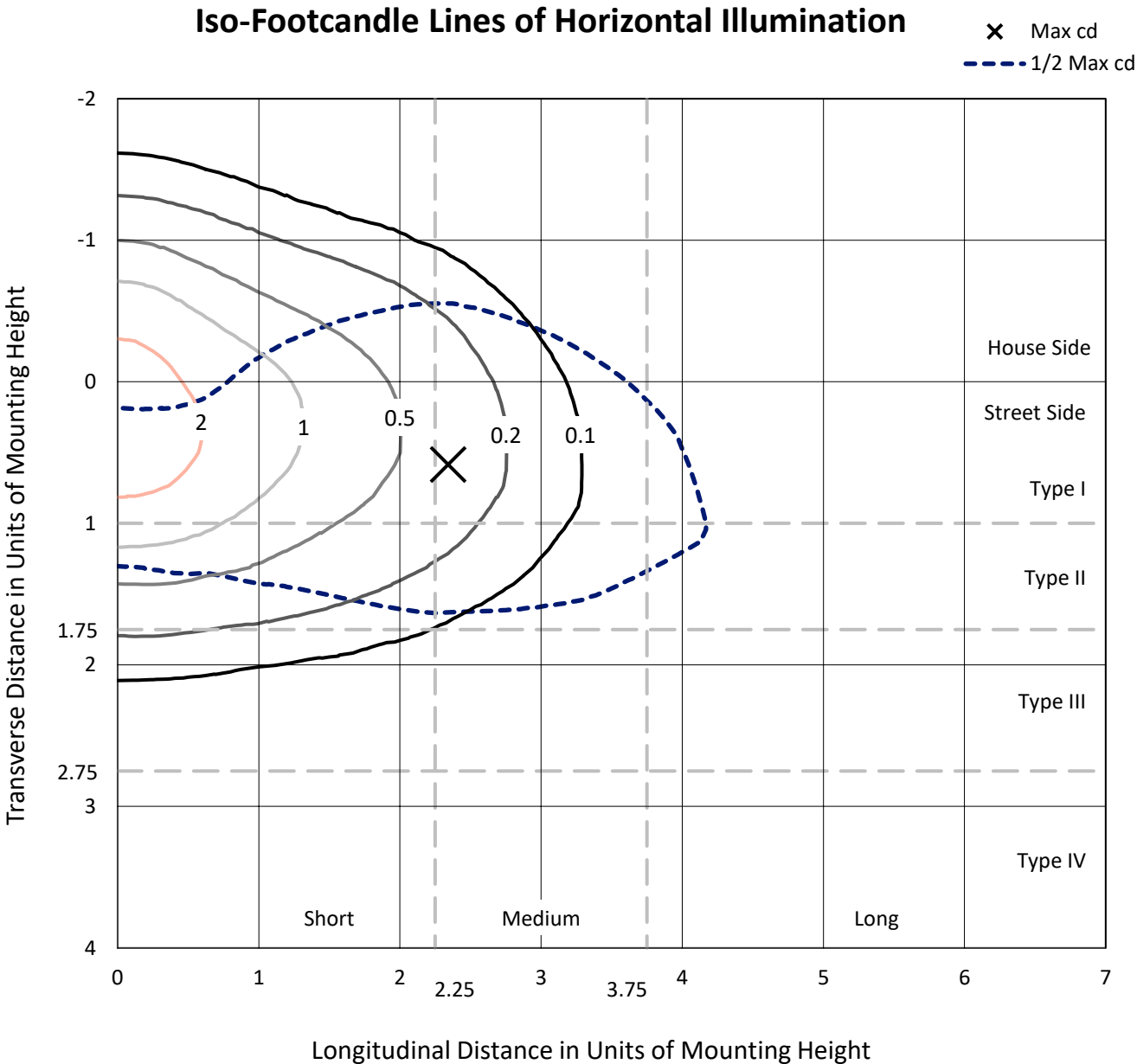
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8047 lumens
Efficiency: N/A
Efficacy: 183.7 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): 43.8
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



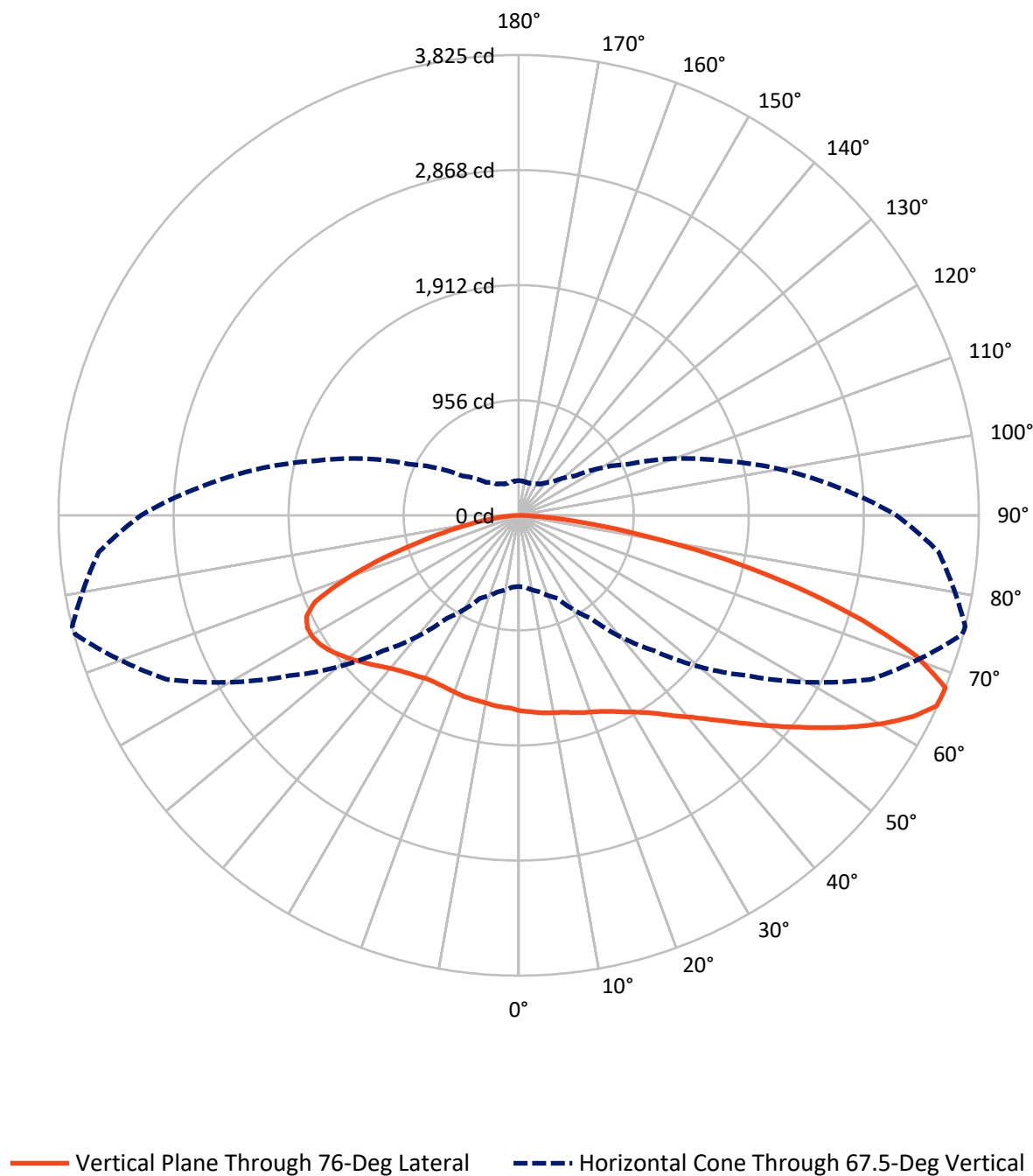
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Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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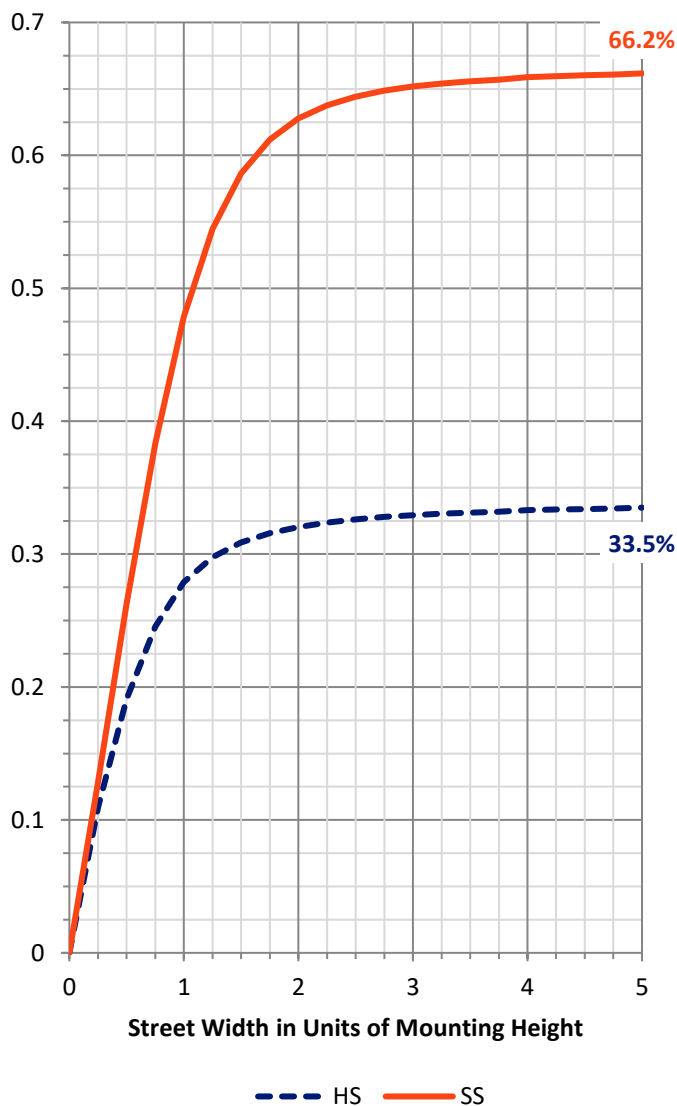
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2719.1	0.0	2719.1
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	5327.9	0.0	5327.9
	% Fixture	66.2	0.0	66.2
Total	Lumens	8047.0	0.0	8047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	1.9
10°-20°	479.2	6.0
20°-30°	814.1	10.1
30°-40°	1158.4	14.4
40°-50°	1463.0	18.2
50°-60°	1584.0	19.7
60°-70°	1473.3	18.3
70°-80°	791.3	9.8
80°-90°	126.8	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°	8047.0	100.0
0°-180°	8047.0	100.0

Coefficient of Utilization



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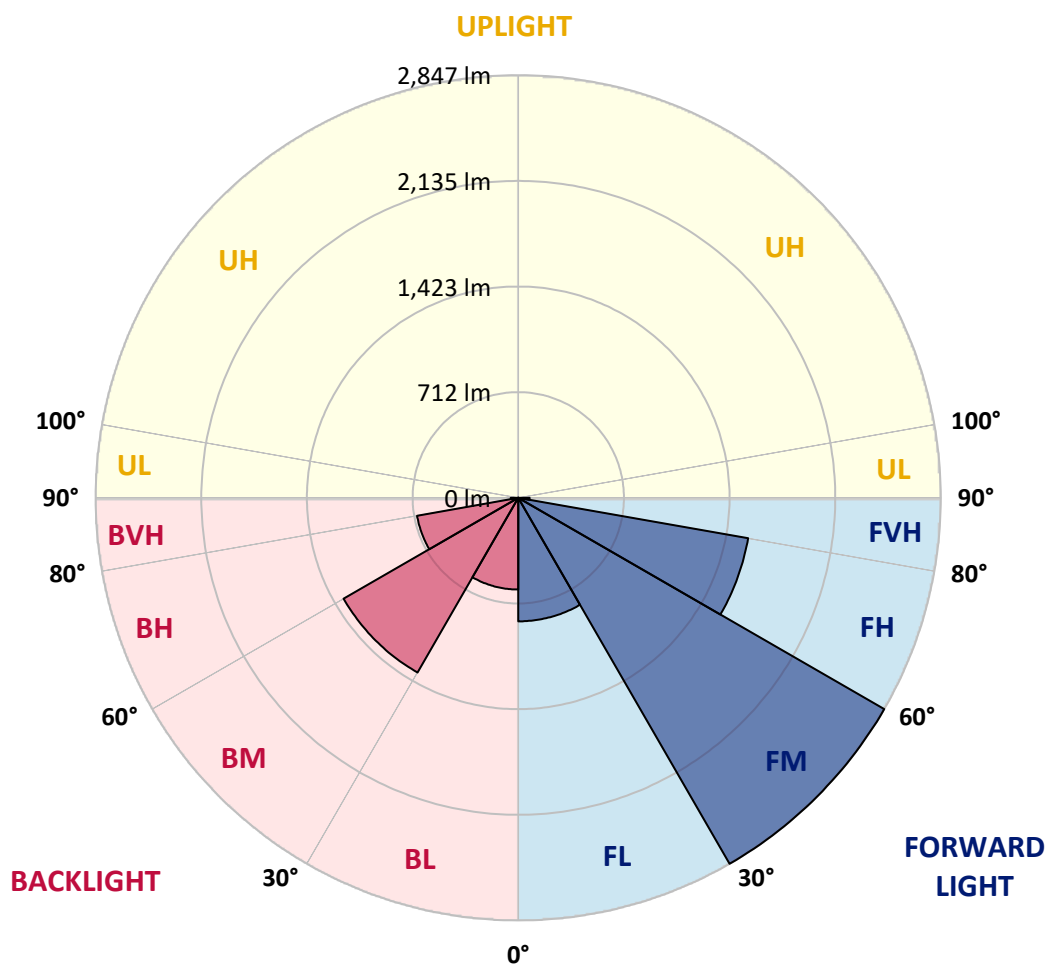
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	832.1	10.3			
FM	(30°-60°)	2846.7	35.4			
FH	(60°-80°)	1572.3	19.5			G1/1800
FVH	(80°-90°)	76.7	1.0			G1/100
BL	(0°-30°)	617.9	7.7	B2/1000		
BM	(30°-60°)	1358.8	16.9	B2/2500		
BH	(60°-80°)	692.3	8.6	B2/1000		G2/1000
BVH	(80°-90°)	50.1	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°	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5
2.5°	1674.8	1671.8	1659.8	1661.3	1661.3	1659.8	1641.9	1634.4	1634.4	1632.9	1616.5
5°	1734.5	1730.1	1716.6	1713.6	1707.6	1700.2	1671.8	1655.4	1647.9	1646.4	1624.0
7.5°	1804.8	1798.8	1782.3	1773.4	1758.4	1739.0	1703.2	1677.8	1659.8	1658.3	1627.0
10°	1875.0	1869.0	1849.6	1833.1	1812.2	1780.9	1734.5	1697.2	1668.8	1665.8	1628.5
12.5°	1958.6	1952.7	1928.8	1907.8	1876.5	1834.6	1773.4	1722.6	1683.7	1679.3	1632.9
15°	2046.8	2037.8	2013.9	1990.0	1951.2	1897.4	1824.2	1756.9	1707.6	1700.2	1646.4
17.5°	2120.0	2108.0	2088.6	2064.7	2021.4	1958.6	1875.0	1791.3	1730.1	1724.1	1659.8
20°	2182.7	2173.8	2152.9	2130.4	2084.1	2015.4	1922.8	1825.7	1751.0	1743.5	1670.3
22.5°	2242.5	2230.5	2218.6	2202.2	2151.4	2075.2	1978.1	1867.5	1777.9	1768.9	1683.7
25°	2311.2	2297.8	2293.3	2284.3	2224.6	2146.9	2045.3	1919.8	1815.2	1804.8	1707.6
27.5°	2396.4	2381.4	2372.5	2372.5	2300.8	2220.1	2117.0	1981.0	1858.5	1849.6	1737.5
30°	2486.0	2468.1	2454.6	2454.6	2374.0	2293.3	2187.2	2042.3	1907.8	1897.4	1776.4
32.5°	2565.2	2547.3	2532.3	2530.8	2447.2	2366.5	2260.4	2109.5	1967.6	1954.2	1824.2
35°	2626.5	2610.0	2596.6	2599.6	2520.4	2441.2	2342.6	2199.2	2042.3	2027.4	1886.9
37.5°	2663.8	2657.8	2650.4	2660.8	2587.6	2512.9	2427.8	2285.8	2127.5	2114.0	1964.6
40°	2683.2	2678.7	2708.6	2722.1	2644.4	2577.2	2512.9	2375.5	2220.1	2205.1	2054.3
42.5°	2711.6	2749.0	2760.9	2757.9	2686.2	2626.5	2590.6	2472.6	2329.2	2315.7	2161.8
45°	2610.0	2601.1	2666.8	2702.7	2689.2	2657.8	2663.8	2589.1	2456.1	2442.7	2285.8
47.5°	2474.1	2462.1	2499.5	2587.6	2639.9	2669.8	2729.5	2710.1	2602.6	2590.6	2430.7
50°	2187.2	2203.7	2342.6	2460.6	2563.7	2666.8	2784.8	2840.1	2763.9	2752.0	2586.1
52.5°	1869.0	1885.4	2030.4	2302.3	2471.1	2644.4	2825.2	2970.1	2938.7	2925.3	2752.0
55°	1637.4	1673.3	1837.6	2034.8	2339.6	2574.2	2849.1	3103.0	3127.0	3115.0	2932.7
57.5°	1407.4	1434.2	1558.2	1733.0	2160.3	2451.7	2847.6	3227.0	3324.2	3312.2	3116.5
60°	1136.9	1171.3	1269.9	1458.1	1921.3	2305.2	2805.7	3324.2	3513.9	3504.9	3294.3
62.5°	951.7	962.1	1032.4	1195.2	1613.5	2120.0	2711.6	3376.4	3685.7	3679.7	3454.1
65°	766.4	767.9	832.2	968.1	1316.2	1889.9	2551.8	3357.0	3815.7	3818.7	3569.2
67.5°	591.6	599.1	657.4	760.4	1045.8	1591.1	2323.2	3225.6	3817.2	3824.6	3503.4
70°	409.4	415.3	503.5	603.6	808.3	1268.4	2013.9	2877.5	3503.4	3509.4	3140.4
72.5°	288.3	291.3	385.5	482.6	632.0	956.2	1519.4	2379.9	2986.5	2991.0	2641.4
75°	215.1	218.1	271.9	366.0	484.1	661.8	1038.3	1822.7	2385.9	2385.9	2085.6
77.5°	152.4	153.9	176.3	252.5	322.7	446.7	624.5	1193.7	1751.0	1754.0	1519.4
80°	103.1	104.6	115.0	170.3	201.7	242.0	339.1	626.0	1104.1	1108.6	965.1
82.5°	53.8	56.8	64.2	86.7	101.6	134.5	174.8	318.2	611.0	623.0	579.7
85°	20.9	20.9	23.9	28.4	37.4	52.3	80.7	121.0	276.4	285.4	255.5
87.5°	7.5	7.5	9.0	9.0	10.5	12.0	13.4	17.9	31.4	31.4	29.9
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°	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5
2.5°	1610.5	1610.5	1603.1	1606.1	1604.6	1601.6	1598.6	1603.1	1598.6	1588.1	1586.6
5°	1613.5	1610.5	1598.6	1597.1	1592.6	1586.6	1579.2	1582.2	1574.7	1565.7	1564.2
7.5°	1615.0	1609.0	1592.6	1586.6	1577.7	1565.7	1553.8	1553.8	1543.3	1534.3	1532.8
10°	1612.0	1604.6	1582.2	1570.2	1553.8	1535.8	1519.4	1514.9	1503.0	1492.5	1492.5
12.5°	1613.5	1603.1	1574.7	1555.3	1532.8	1510.4	1489.5	1483.5	1473.1	1462.6	1461.1
15°	1622.5	1607.5	1571.7	1546.3	1513.4	1488.0	1465.6	1461.1	1452.2	1444.7	1444.7
17.5°	1631.5	1612.0	1567.2	1531.4	1491.0	1462.6	1441.7	1441.7	1435.7	1431.3	1431.3
20°	1635.9	1613.5	1558.2	1510.4	1464.1	1434.2	1414.8	1417.8	1416.3	1414.8	1414.8
22.5°	1646.4	1616.5	1550.8	1491.0	1435.7	1404.4	1386.4	1390.9	1389.4	1389.4	1390.9
25°	1662.8	1624.0	1544.8	1473.1	1408.8	1374.5	1355.1	1358.0	1358.0	1358.0	1358.0
27.5°	1685.2	1638.9	1543.3	1456.7	1382.0	1343.1	1319.2	1319.2	1313.2	1314.7	1316.2
30°	1719.6	1667.3	1546.3	1441.7	1353.6	1304.3	1275.9	1271.4	1269.9	1272.9	1274.4
32.5°	1761.4	1706.2	1564.2	1431.3	1323.7	1260.9	1225.1	1223.6	1219.1	1219.1	1219.1
35°	1813.7	1743.5	1580.7	1429.8	1293.8	1214.6	1175.8	1171.3	1160.8	1156.4	1156.4
37.5°	1881.0	1801.8	1600.1	1419.3	1268.4	1169.8	1123.5	1108.6	1096.6	1095.1	1095.1
40°	1963.1	1867.5	1628.5	1407.4	1241.5	1123.5	1062.2	1036.8	1038.3	1044.3	1044.3
42.5°	2060.2	1948.2	1664.3	1401.4	1202.7	1075.7	990.5	960.6	971.1	977.1	978.6
45°	2173.8	2043.8	1704.7	1393.9	1166.8	1021.9	914.3	877.0	881.5	883.0	884.5
47.5°	2305.2	2149.9	1746.5	1387.9	1126.5	954.7	830.7	781.4	779.9	770.9	773.9
50°	2442.7	2261.9	1789.8	1377.5	1077.2	875.5	742.5	684.3	672.3	658.9	660.3
52.5°	2589.1	2377.0	1830.2	1361.0	1015.9	794.8	658.9	596.1	572.2	557.3	560.3
55°	2750.5	2495.0	1869.0	1335.6	951.7	714.1	584.2	519.9	490.0	478.1	479.6
57.5°	2898.4	2608.5	1897.4	1304.3	881.5	640.9	518.4	455.7	436.2	434.8	436.2
60°	3041.8	2704.1	1909.3	1260.9	809.8	573.7	457.2	409.4	395.9	403.4	404.9
62.5°	3162.8	2765.4	1903.4	1202.7	736.5	509.5	407.9	373.5	364.5	379.5	381.0
65°	3233.0	2784.8	1861.5	1119.0	657.4	446.7	361.5	324.2	319.7	328.7	333.2
67.5°	3140.4	2663.8	1748.0	1004.0	569.2	388.4	316.7	286.8	279.4	286.8	286.8
70°	2783.3	2308.2	1479.1	821.7	472.1	331.7	274.9	254.0	248.0	254.0	252.5
72.5°	2318.7	1919.8	1165.3	640.9	372.0	279.4	239.0	219.6	213.6	207.7	204.7
75°	1798.8	1458.1	845.6	470.6	280.9	224.1	200.2	182.3	167.3	173.3	170.3
77.5°	1317.7	1023.4	599.1	325.7	201.7	173.3	156.9	143.4	133.0	144.9	143.4
80°	848.6	661.8	400.4	218.1	138.9	121.0	115.0	107.6	118.0	153.9	156.9
82.5°	518.4	419.8	239.0	141.9	91.1	80.7	74.7	74.7	121.0	133.0	134.5
85°	231.6	222.6	130.0	73.2	50.8	46.3	41.8	53.8	49.3	35.9	37.4
87.5°	37.4	38.8	28.4	25.4	19.4	19.4	14.9	10.5	7.5	4.5	4.5
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)