

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: P836817

Luminaire Tested: **ARCH3-80-722-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-80-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

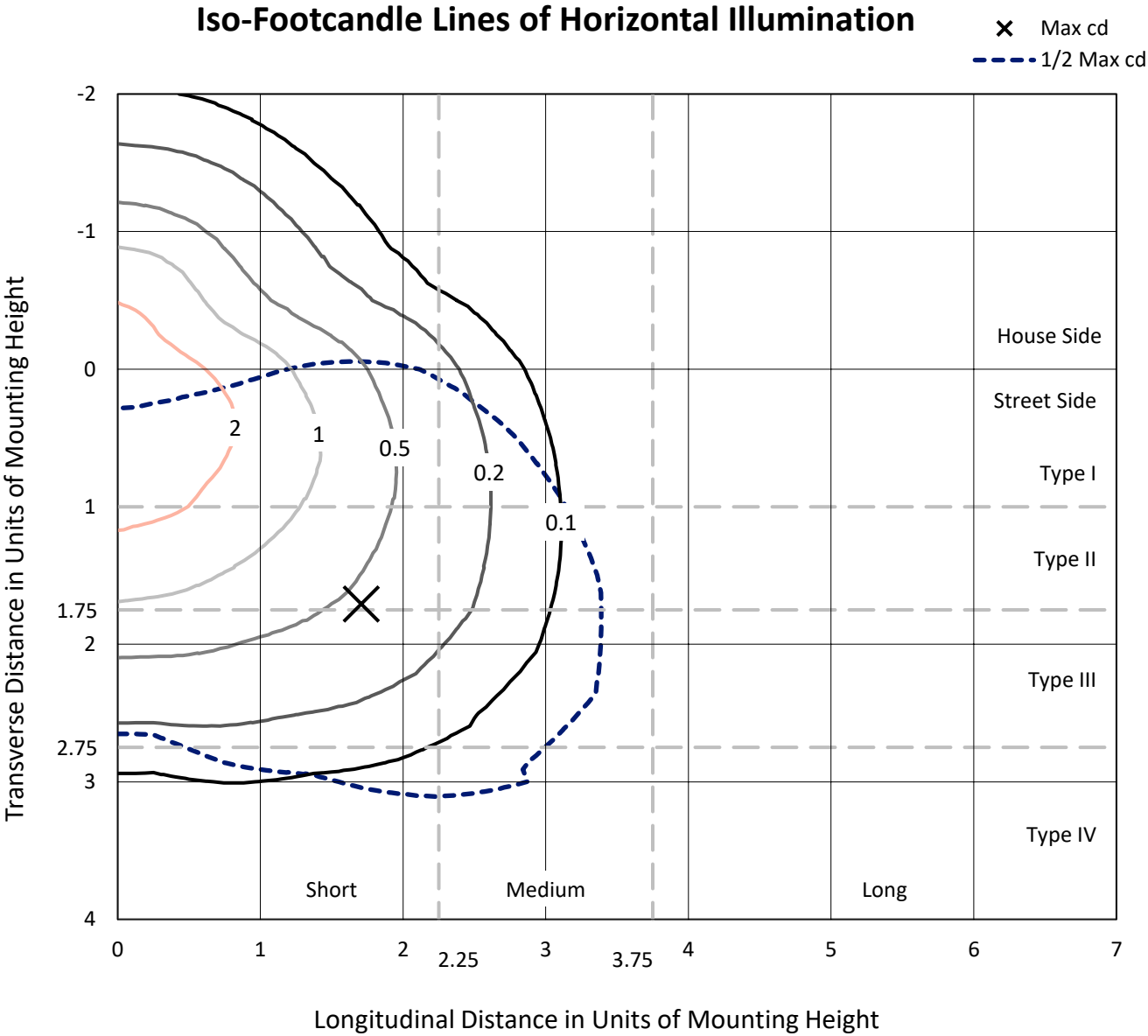
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11184 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 81.9
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

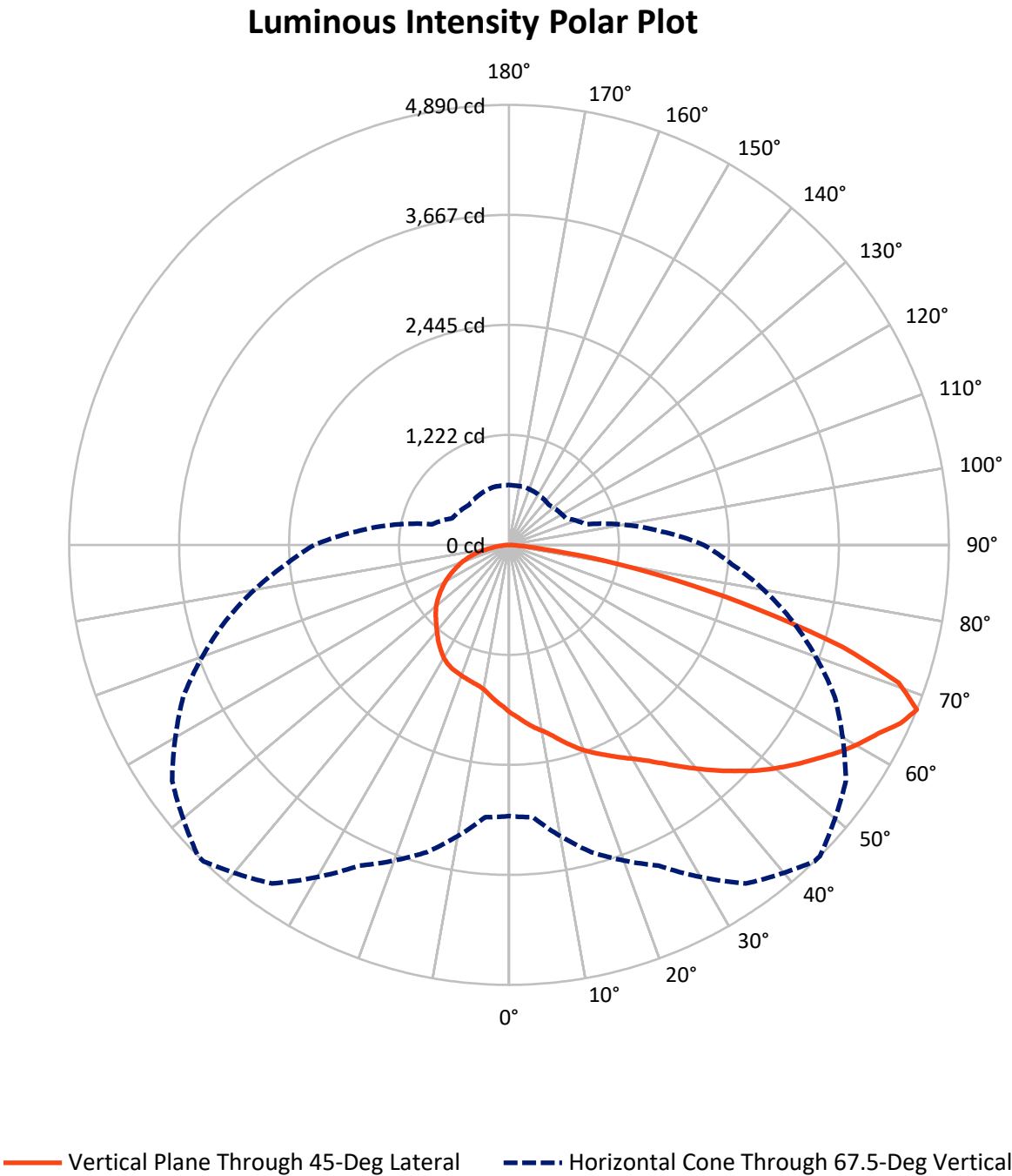


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Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type IV - Short - N/A

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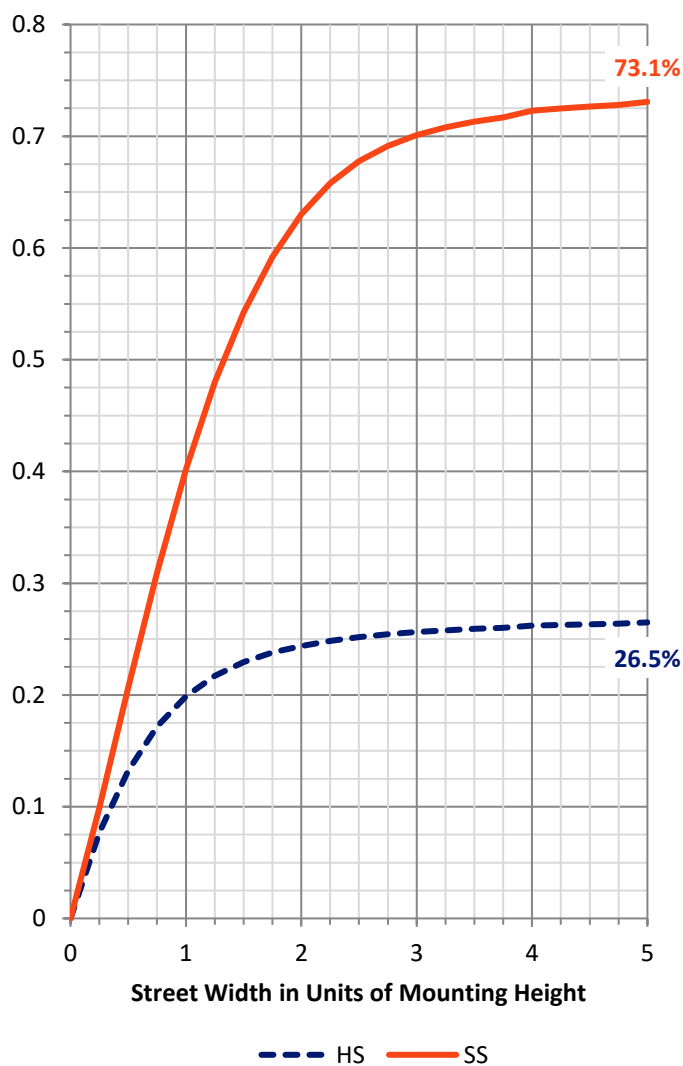
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2987.8	0.0	2987.8
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	8196.2	0.0	8196.2
	% Fixture	73.3	0.0	73.3
Total	Lumens	11184.0	0.0	11184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	1.6
10°-20°	551.7	4.9
20°-30°	952.3	8.5
30°-40°	1404.3	12.6
40°-50°	1902.5	17.0
50°-60°	2325.3	20.8
60°-70°	2398.3	21.4
70°-80°	1313.6	11.7
80°-90°	157.4	1.4
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°	11184.0	100.0
0°-180°	11184.0	100.0

Coefficient of Utilization



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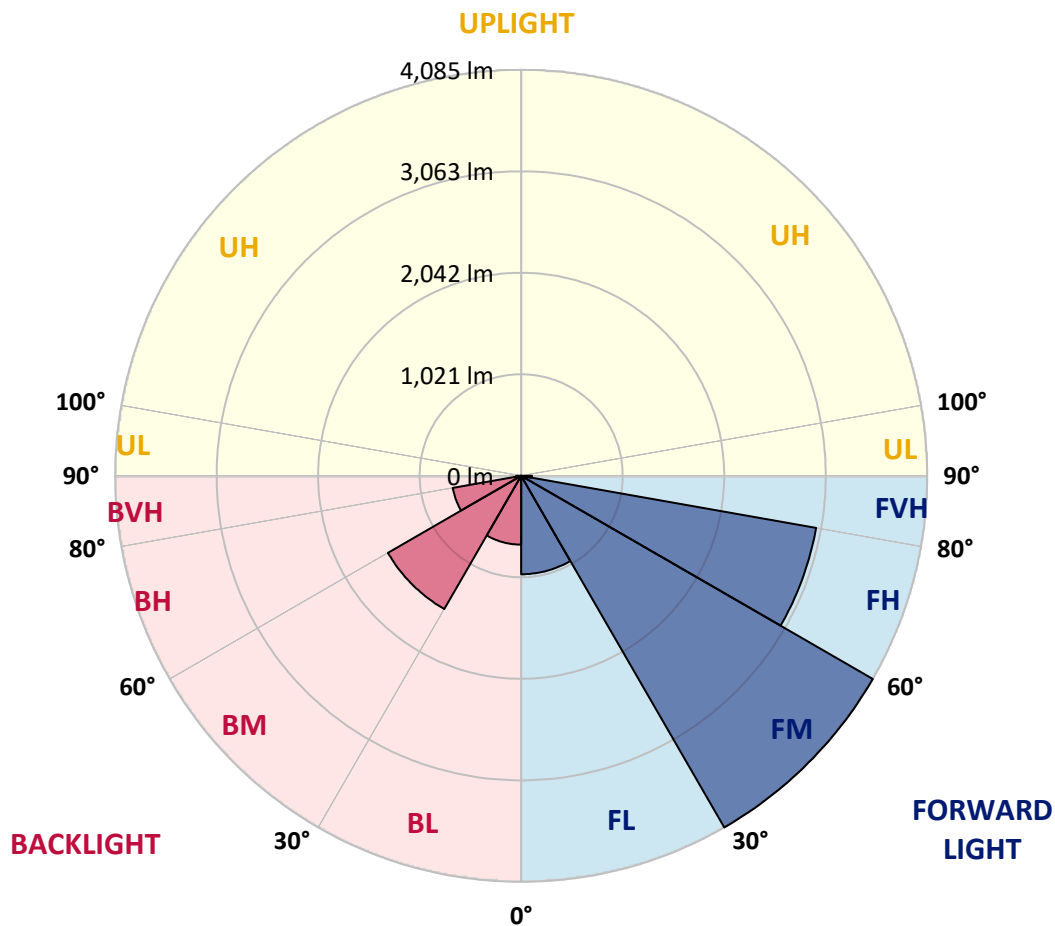
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	990.1	8.9			
FM	(30°-60°)	4084.5	36.5			
FH	(60°-80°)	3013.1	26.9			G2/5000
FVH	(80°-90°)	108.5	1.0			G2/225
BL	(0°-30°)	692.5	6.2	B2/1000		
BM	(30°-60°)	1547.6	13.8	B2/2500		
BH	(60°-80°)	698.7	6.2	B2/1000		G2/1000
BVH	(80°-90°)	49.0	0.4			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1865.3	1865.3	1865.3	1865.3	1865.3	1865.3	1865.3	1865.3	1865.3	1865.3	1865.3
2.5°	1947.0	1945.3	1948.7	1936.8	1921.4	1919.7	1919.7	1909.5	1897.6	1873.8	1855.1
5°	2038.9	2035.5	2037.2	2020.2	1999.7	1989.5	1987.8	1965.7	1938.5	1901.0	1867.0
7.5°	2124.0	2120.6	2118.9	2100.1	2069.5	2052.5	2050.8	2018.4	1986.1	1928.2	1878.9
10°	2204.0	2200.6	2197.1	2171.6	2134.2	2108.7	2105.2	2064.4	2023.6	1952.1	1889.1
12.5°	2306.1	2299.3	2295.9	2265.2	2210.8	2183.5	2178.4	2124.0	2072.9	1986.1	1909.5
15°	2413.3	2408.2	2403.1	2374.1	2312.9	2277.1	2268.6	2200.6	2130.8	2030.4	1940.2
17.5°	2493.3	2488.2	2488.2	2462.6	2406.5	2365.6	2358.8	2277.1	2190.3	2071.2	1964.0
20°	2542.6	2537.5	2542.6	2527.3	2484.8	2450.7	2443.9	2353.7	2249.9	2108.7	1984.4
22.5°	2578.4	2573.3	2581.8	2575.0	2544.3	2523.9	2518.8	2430.3	2311.2	2147.8	2004.8
25°	2641.3	2641.3	2641.3	2629.4	2600.5	2593.7	2593.7	2517.1	2389.5	2198.9	2035.5
27.5°	2767.3	2760.5	2752.0	2717.9	2668.6	2666.9	2677.1	2605.6	2479.7	2265.2	2072.9
30°	2952.8	2949.4	2917.1	2845.6	2762.2	2753.7	2760.5	2700.9	2576.7	2335.0	2115.5
32.5°	3192.8	3180.8	3114.5	3007.3	2888.1	2849.0	2862.6	2799.6	2678.8	2406.5	2156.3
35°	3362.9	3366.4	3318.7	3221.7	3080.4	2976.6	2986.8	2910.2	2789.4	2486.5	2207.4
37.5°	3558.7	3570.6	3499.1	3425.9	3294.9	3117.9	3128.1	3024.3	2900.0	2586.9	2261.8
40°	3829.3	3805.4	3684.6	3597.8	3453.1	3265.9	3274.4	3151.9	3027.7	2682.2	2324.8
42.5°	4055.6	4013.1	3866.7	3756.1	3582.5	3422.5	3431.0	3289.8	3157.0	2787.7	2394.6
45°	4380.7	4263.3	4052.2	3997.8	3715.2	3575.7	3584.2	3436.1	3293.2	2900.0	2469.5
47.5°	4569.6	4382.4	4247.9	4219.0	3861.6	3734.0	3744.2	3591.0	3439.5	3027.7	2547.7
50°	4557.7	4436.8	4397.7	4326.2	3990.9	3882.0	3892.2	3751.0	3587.6	3153.6	2622.6
52.5°	4479.4	4501.5	4481.1	4362.0	4120.3	4025.0	4036.9	3909.3	3739.1	3271.0	2692.4
55°	4600.2	4615.5	4576.4	4419.8	4263.3	4167.9	4181.6	4076.0	3888.8	3374.9	2752.0
57.5°	4744.9	4690.4	4651.3	4521.9	4411.3	4322.8	4338.1	4246.2	4018.2	3458.3	2797.9
60°	4738.1	4624.1	4663.2	4528.7	4511.7	4465.8	4479.4	4385.8	4116.9	3519.5	2816.6
62.5°	4389.2	4327.9	4525.3	4479.4	4593.4	4593.4	4610.4	4470.9	4176.5	3545.1	2806.4
65°	3783.3	3786.7	4133.9	4324.5	4690.4	4768.7	4782.3	4523.6	4142.4	3470.2	2711.1
67.5°	3014.1	3036.2	3534.8	3931.4	4593.4	4887.8	4889.5	4571.3	3996.1	3259.1	2489.9
70°	2205.7	2222.7	2811.5	3293.2	4135.6	4624.1	4596.8	4436.8	3677.8	2891.5	2144.4
72.5°	1490.9	1506.2	2112.1	2529.0	3393.6	3938.2	3878.6	3921.2	3134.9	2375.8	1724.0
75°	1002.4	1021.1	1502.8	1809.1	2496.7	2990.2	2857.5	2969.8	2425.2	1798.9	1257.7
77.5°	631.4	643.3	954.8	1186.2	1705.3	2035.5	1902.7	1904.4	1397.3	968.4	675.7
80°	401.6	405.1	578.6	684.2	987.1	1223.7	1082.4	879.9	629.7	514.0	403.3
82.5°	233.2	228.1	345.5	386.3	469.7	464.6	384.6	364.2	275.7	257.0	205.9
85°	93.6	86.8	151.5	141.3	143.0	151.5	112.3	112.3	90.2	69.8	51.1
87.5°	18.7	18.7	20.4	18.7	18.7	20.4	15.3	15.3	13.6	13.6	13.6
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°	1865.3	1865.3	1865.3	1865.3	1865.3	1865.3	1865.3	1865.3	1865.3	1865.3	1865.3
2.5°	1851.7	1848.3	1839.8	1817.6	1805.7	1798.9	1788.7	1785.3	1783.6	1785.3	1790.4
5°	1856.8	1844.9	1821.0	1785.3	1761.5	1746.1	1729.1	1722.3	1717.2	1717.2	1722.3
7.5°	1860.2	1841.5	1800.6	1747.8	1713.8	1690.0	1669.6	1661.1	1659.3	1664.5	1666.2
10°	1861.9	1834.6	1776.8	1710.4	1666.2	1635.5	1615.1	1610.0	1615.1	1625.3	1627.0
12.5°	1873.8	1836.3	1763.2	1684.9	1632.1	1601.5	1586.2	1586.2	1599.8	1618.5	1620.2
15°	1894.2	1848.3	1756.4	1664.5	1610.0	1582.8	1577.7	1586.2	1606.6	1635.5	1638.9
17.5°	1909.5	1855.1	1741.0	1637.2	1581.1	1564.0	1572.6	1593.0	1621.9	1661.1	1664.5
20°	1919.7	1855.1	1718.9	1604.9	1552.1	1548.7	1572.6	1604.9	1635.5	1681.5	1686.6
22.5°	1930.0	1851.7	1693.4	1565.7	1519.8	1530.0	1574.3	1615.1	1645.7	1695.1	1703.6
25°	1948.7	1856.8	1667.9	1526.6	1485.8	1514.7	1572.6	1621.9	1654.2	1705.3	1718.9
27.5°	1974.2	1868.7	1649.1	1490.9	1451.7	1490.9	1560.6	1620.2	1654.2	1703.6	1718.9
30°	2001.4	1882.3	1627.0	1451.7	1412.6	1456.8	1535.1	1601.5	1640.6	1686.6	1705.3
32.5°	2030.4	1897.6	1608.3	1409.2	1364.9	1410.9	1497.7	1572.6	1615.1	1657.6	1678.1
35°	2069.5	1924.8	1598.1	1375.1	1322.4	1363.2	1450.0	1535.1	1581.1	1620.2	1644.0
37.5°	2117.2	1958.9	1593.0	1341.1	1276.4	1310.5	1399.0	1489.2	1538.5	1570.9	1593.0
40°	2171.6	2001.4	1591.3	1308.8	1230.5	1256.0	1346.2	1436.4	1484.1	1509.6	1528.3
42.5°	2232.9	2049.1	1587.9	1276.4	1184.5	1204.9	1295.1	1383.6	1424.5	1446.6	1463.6
45°	2297.6	2096.7	1581.1	1237.3	1135.2	1159.0	1242.4	1320.7	1363.2	1381.9	1400.7
47.5°	2362.2	2144.4	1567.4	1193.0	1090.9	1113.0	1186.2	1254.3	1288.3	1305.4	1324.1
50°	2425.2	2186.9	1535.1	1142.0	1045.0	1065.4	1121.6	1167.5	1193.0	1206.6	1225.4
52.5°	2481.4	2215.9	1489.2	1082.4	999.0	1009.2	1046.7	1085.8	1106.2	1107.9	1125.0
55°	2529.0	2231.2	1422.8	1021.1	949.7	951.4	971.8	1002.4	1010.9	1004.1	1016.0
57.5°	2556.2	2222.7	1349.6	958.2	898.6	891.8	907.1	922.4	924.1	907.1	919.0
60°	2563.1	2183.5	1254.3	895.2	847.5	828.8	833.9	830.5	827.1	820.3	830.5
62.5°	2529.0	2100.1	1148.8	833.9	793.1	764.2	762.4	760.7	765.9	767.6	769.3
65°	2404.8	1943.6	1022.8	771.0	735.2	696.1	694.4	714.8	721.6	711.4	714.8
67.5°	2164.8	1703.6	885.0	697.8	662.0	628.0	641.6	653.5	665.4	662.0	665.4
70°	1824.4	1399.0	759.0	616.1	582.0	563.3	578.6	588.9	590.6	587.2	590.6
72.5°	1434.7	1092.6	641.6	532.7	502.1	493.6	512.3	520.8	536.1	542.9	544.6
75°	1036.5	806.7	525.9	442.5	417.0	417.0	434.0	449.3	462.9	454.4	449.3
77.5°	578.6	481.6	377.8	304.6	309.7	333.6	340.4	357.4	371.0	369.3	365.9
80°	350.6	301.2	255.3	197.4	195.7	214.4	258.7	287.6	294.4	279.1	277.4
82.5°	182.1	158.3	136.2	110.6	122.5	143.0	149.8	180.4	199.1	192.3	200.8
85°	46.0	44.2	49.4	51.1	63.0	69.8	76.6	90.2	59.6	28.9	28.9
87.5°	13.6	13.6	17.0	17.0	22.1	27.2	25.5	25.5	13.6	1.7	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)