

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: P836816

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

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
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-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

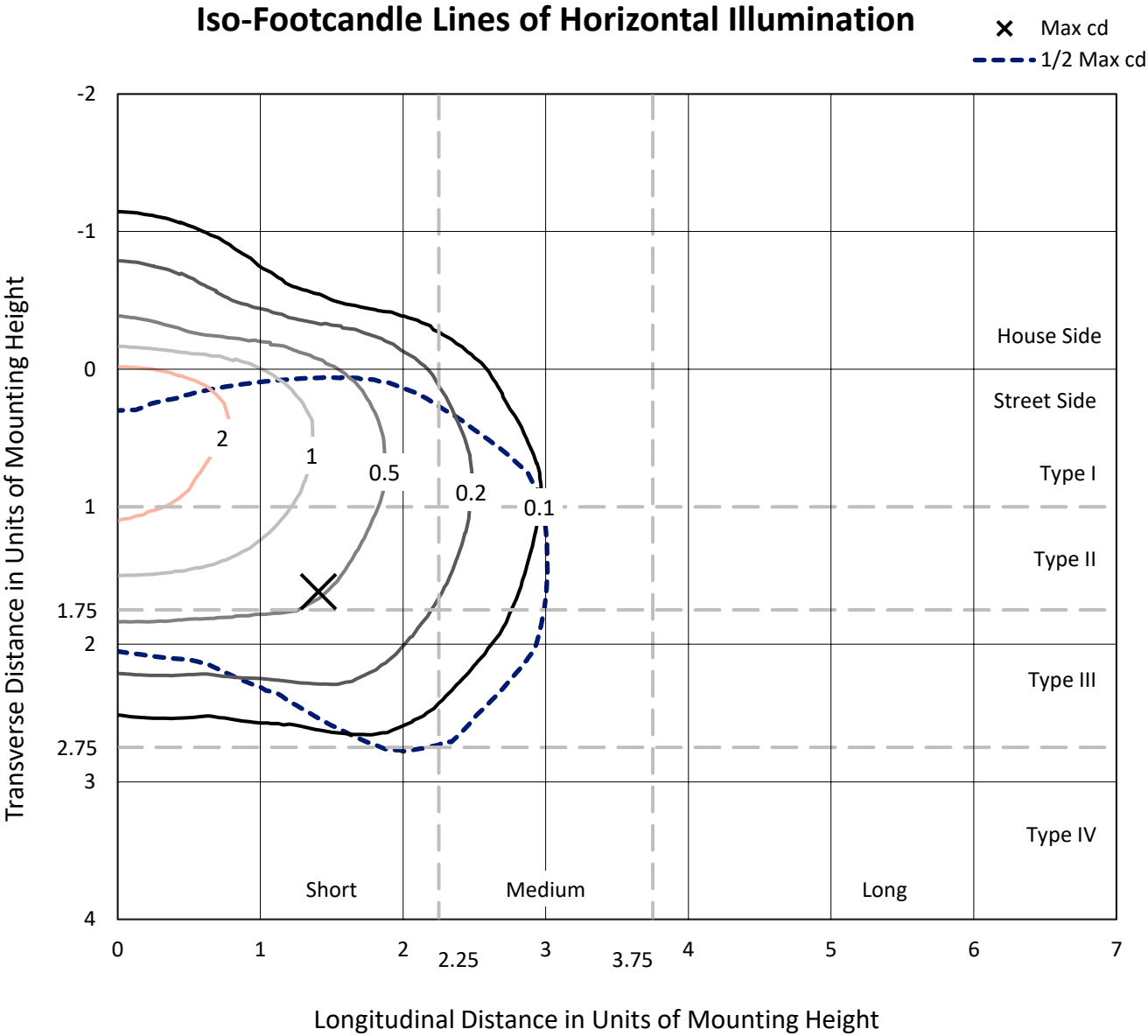
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7815 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - 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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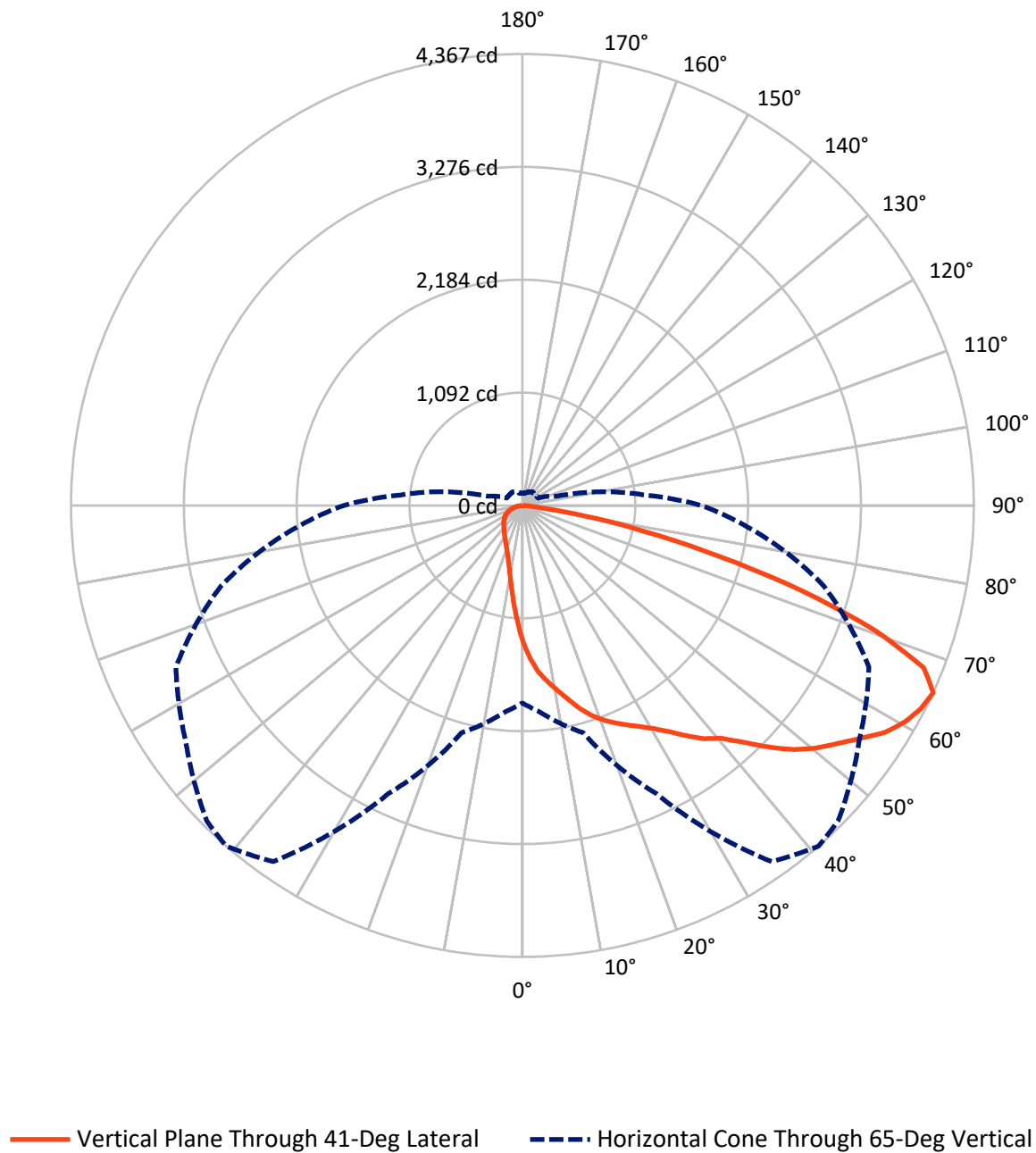


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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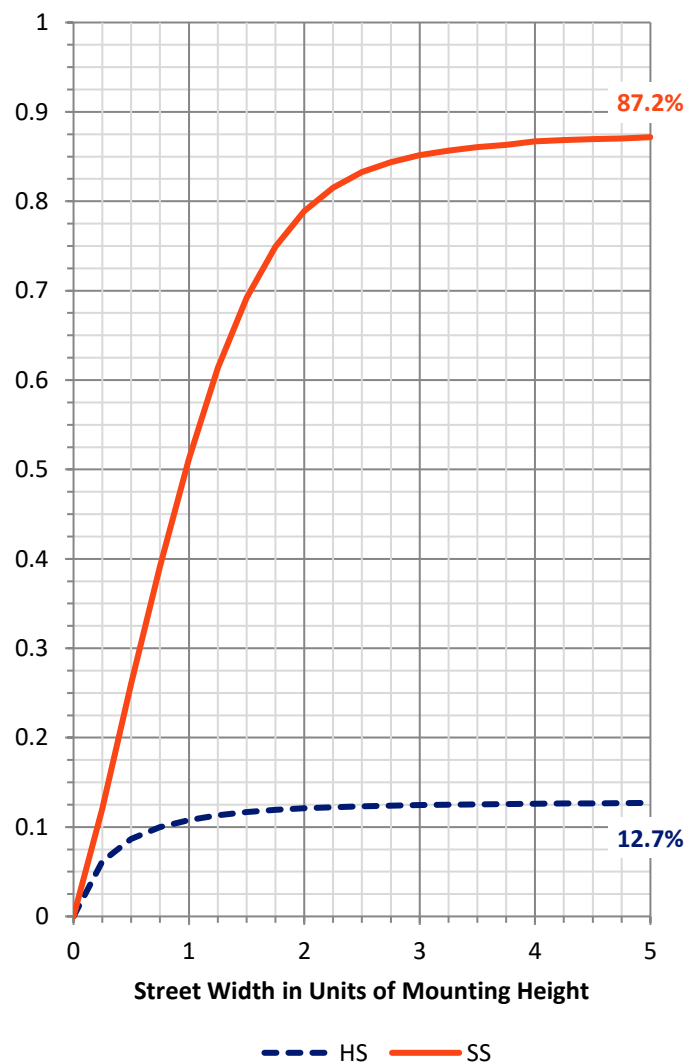
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1003.3	0.0	1003.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	6811.7	0.0	6811.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	7815.0	0.0	7815.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.1	1.6
10°-20°	372.0	4.8
20°-30°	640.0	8.2
30°-40°	970.7	12.4
40°-50°	1422.2	18.2
50°-60°	1795.9	23.0
60°-70°	1684.0	21.5
70°-80°	750.5	9.6
80°-90°	55.6	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°	7815.0	100.0
0°-180°	7815.0	100.0

Coefficient of Utilization



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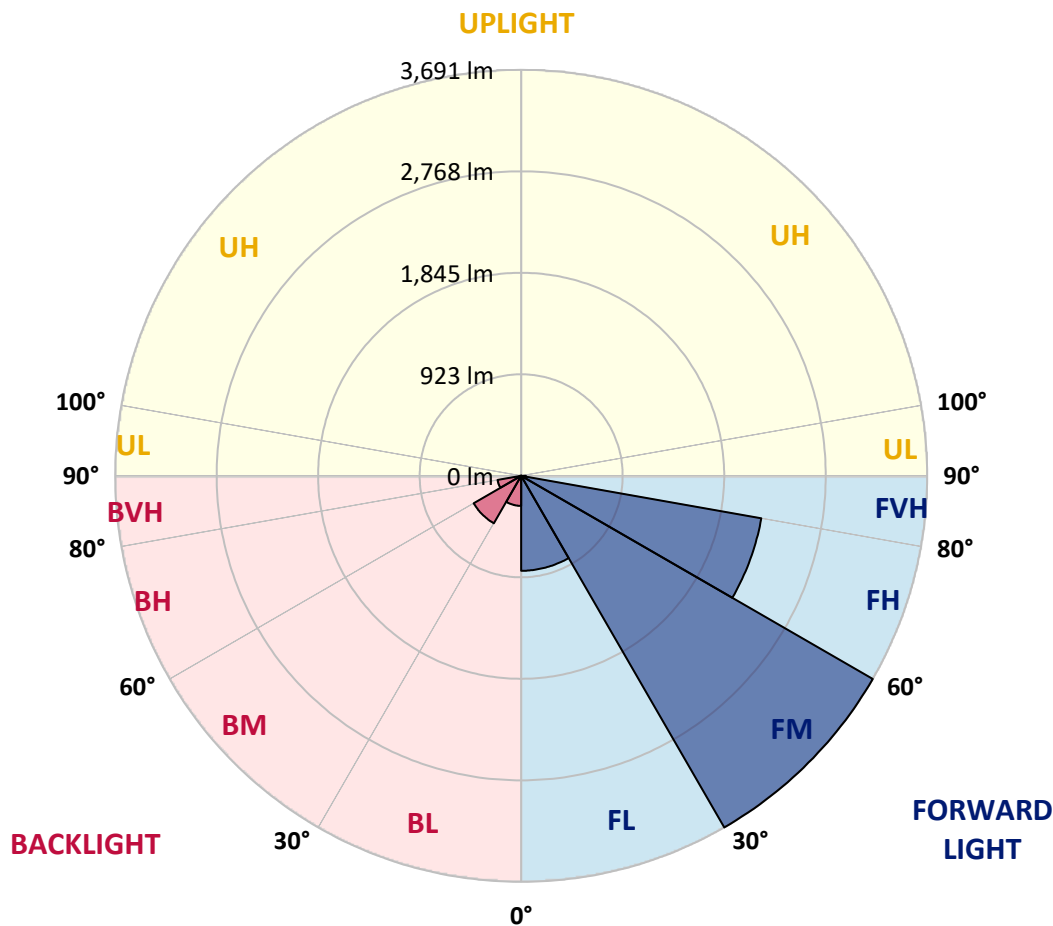
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	863.1	11.0			
FM	(30°-60°)	3690.6	47.2			
FH	(60°-80°)	2216.5	28.4			G2/5000
FVH	(80°-90°)	41.5	0.5			G1/100
BL	(0°-30°)	273.1	3.5	B1/500		
BM	(30°-60°)	498.2	6.4	B1/1000		
BH	(60°-80°)	218.0	2.8	B1/500		G1/500
BVH	(80°-90°)	14.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6
2.5°	1536.0	1531.1	1527.8	1509.6	1509.6	1484.9	1486.6	1463.5	1435.5	1391.0	1343.2
5°	1681.0	1674.4	1666.2	1648.1	1641.5	1616.8	1613.5	1580.5	1532.7	1455.2	1369.5
7.5°	1807.9	1801.3	1789.8	1763.4	1745.3	1715.6	1707.4	1664.5	1611.8	1516.2	1395.9
10°	1923.3	1918.3	1903.5	1870.6	1845.8	1809.6	1794.7	1737.1	1671.1	1565.7	1417.3
12.5°	2040.3	2033.7	2013.9	1985.9	1956.3	1913.4	1895.3	1821.1	1737.1	1620.0	1448.6
15°	2149.1	2139.2	2124.4	2094.7	2068.3	2027.1	2007.3	1920.0	1817.8	1681.0	1489.8
17.5°	2219.9	2211.7	2198.5	2182.0	2160.6	2129.3	2109.5	2023.8	1898.6	1740.4	1532.7
20°	2262.8	2259.5	2254.6	2244.7	2234.8	2213.3	2198.5	2117.8	1985.9	1798.0	1573.9
22.5°	2295.8	2292.5	2290.8	2290.8	2292.5	2284.2	2274.3	2205.1	2070.0	1859.0	1611.8
25°	2346.8	2345.2	2341.9	2338.6	2350.1	2351.8	2348.5	2300.7	2175.4	1939.8	1659.6
27.5°	2417.7	2412.8	2406.2	2402.9	2414.4	2422.7	2429.2	2396.3	2287.5	2022.2	1714.0
30°	2526.5	2511.6	2495.2	2483.6	2491.9	2505.1	2519.9	2500.1	2402.9	2124.4	1770.0
32.5°	2655.0	2636.9	2599.0	2577.6	2599.0	2608.9	2620.4	2610.5	2523.2	2234.8	1826.1
35°	2811.6	2790.2	2750.6	2719.3	2757.2	2735.8	2730.8	2721.0	2636.9	2343.5	1888.7
37.5°	3072.0	3040.7	2978.1	2908.8	2908.8	2862.7	2844.6	2814.9	2739.1	2440.8	1949.7
40°	3373.6	3332.4	3251.6	3149.4	3055.5	2959.9	2948.4	2927.0	2859.4	2552.9	2018.9
42.5°	3704.8	3625.7	3513.7	3390.1	3238.4	3129.7	3103.3	3042.3	2976.4	2666.6	2088.1
45°	4072.4	3907.6	3744.4	3681.8	3431.3	3332.4	3282.9	3172.5	3098.4	2785.2	2160.6
47.5°	4131.7	4003.1	3894.4	3884.5	3610.9	3528.5	3472.5	3314.3	3230.2	2912.1	2236.4
50°	4098.7	4021.3	4032.8	3993.3	3742.8	3688.4	3645.5	3465.9	3360.4	3034.1	2305.6
52.5°	3960.3	4003.1	4069.1	3996.6	3868.0	3823.5	3802.1	3629.0	3482.4	3146.2	2368.3
55°	3795.5	3825.2	3966.9	4055.9	4013.0	3973.5	3953.7	3818.6	3602.7	3240.1	2425.9
57.5°	3554.9	3541.7	3698.3	4046.0	4164.7	4141.6	4120.2	4004.8	3714.7	3307.7	2462.2
60°	3193.9	3165.9	3363.7	3848.2	4214.1	4250.4	4240.5	4128.4	3800.4	3306.0	2447.4
62.5°	2569.3	2638.5	2912.1	3525.2	4235.5	4327.8	4309.7	4138.3	3828.5	3210.4	2353.4
65°	1910.1	2009.0	2277.6	3080.2	4205.9	4367.4	4317.9	3976.8	3698.3	3020.9	2147.4
67.5°	1376.1	1463.5	1659.6	2534.7	3920.7	4186.1	4128.4	3713.1	3398.3	2752.3	1862.3
70°	941.0	1003.7	1137.2	1845.8	3347.2	3619.1	3582.9	3319.2	2925.3	2432.5	1512.9
72.5°	664.2	690.5	776.2	1217.9	2543.0	2839.6	2796.8	2730.8	2350.1	2022.2	1176.7
75°	497.7	514.2	560.3	787.8	1715.6	1967.8	1928.2	1966.1	1755.2	1531.1	857.0
77.5°	187.9	204.4	318.1	502.7	1015.2	1208.0	1168.5	1191.5	975.7	772.9	426.8
80°	51.1	54.4	105.5	239.0	461.5	601.5	547.2	469.7	362.6	356.0	225.8
82.5°	21.4	24.7	47.8	128.5	164.8	164.8	138.4	171.4	138.4	166.5	108.8
85°	8.2	9.9	11.5	33.0	21.4	23.1	24.7	33.0	28.0	34.6	24.7
87.5°	0.0	0.0	0.0	1.6	1.6	3.3	1.6	3.3	4.9	4.9	4.9
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°	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6
2.5°	1323.4	1305.3	1278.9	1236.0	1191.5	1166.8	1135.5	1130.6	1097.6	1094.3	1081.1
5°	1331.6	1293.7	1226.2	1143.8	1063.0	1000.4	954.2	929.5	881.7	881.7	868.5
7.5°	1338.2	1278.9	1170.1	1048.2	937.7	853.7	791.1	764.7	721.9	718.6	708.7
10°	1339.9	1260.8	1109.1	950.9	815.8	730.1	669.1	639.4	601.5	598.2	591.7
12.5°	1353.1	1250.9	1054.8	866.9	728.4	636.2	576.8	552.1	522.4	519.1	512.5
15°	1374.5	1250.9	1008.6	796.0	651.0	565.3	514.2	491.1	469.7	466.4	463.1
17.5°	1395.9	1247.6	962.5	730.1	586.7	509.3	464.8	446.6	430.1	428.5	425.2
20°	1415.7	1245.9	916.3	674.1	537.3	463.1	428.5	412.0	398.8	398.8	397.2
22.5°	1435.5	1242.6	871.8	621.3	494.4	428.5	398.8	380.7	370.8	370.8	369.2
25°	1465.1	1242.6	830.6	576.8	459.8	402.1	372.5	359.3	351.0	349.4	349.4
27.5°	1499.7	1252.5	794.4	537.3	430.1	375.8	352.7	339.5	329.6	326.3	328.0
30°	1537.6	1260.8	761.4	502.7	402.1	356.0	331.3	318.1	308.2	304.9	306.5
32.5°	1575.5	1270.7	731.7	471.3	374.1	337.9	313.1	298.3	288.4	286.8	286.8
35°	1616.8	1280.5	702.1	445.0	351.0	319.7	296.7	280.2	273.6	270.3	271.9
37.5°	1658.0	1297.0	674.1	420.3	334.6	303.2	281.8	265.3	260.4	258.7	258.7
40°	1707.4	1321.7	662.5	403.8	319.7	288.4	270.3	253.8	248.9	248.9	248.9
42.5°	1748.6	1341.5	652.6	385.6	308.2	275.2	258.7	245.6	242.3	240.6	242.3
45°	1789.8	1359.7	639.4	369.2	293.4	262.0	248.9	235.7	232.4	232.4	232.4
47.5°	1831.0	1369.5	621.3	352.7	280.2	250.5	239.0	227.4	224.1	224.1	224.1
50°	1864.0	1377.8	595.0	334.6	265.3	240.6	229.1	217.5	214.2	214.2	214.2
52.5°	1896.9	1379.4	566.9	313.1	250.5	229.1	219.2	207.7	204.4	202.7	202.7
55°	1926.6	1377.8	534.0	288.4	234.0	215.9	207.7	197.8	191.2	184.6	187.9
57.5°	1948.0	1376.1	496.1	263.7	217.5	202.7	199.4	186.2	173.0	156.6	159.9
60°	1939.8	1358.0	454.9	232.4	199.4	189.5	189.5	171.4	148.3	140.1	141.7
62.5°	1887.0	1306.9	412.0	199.4	181.3	176.3	174.7	154.9	136.8	128.5	130.2
65°	1728.8	1178.4	349.4	169.8	163.2	161.5	161.5	143.4	126.9	117.0	118.7
67.5°	1488.2	988.8	285.1	143.4	145.0	148.3	148.3	131.8	115.4	105.5	107.1
70°	1193.2	772.9	227.4	123.6	125.3	130.2	133.5	118.7	103.8	93.9	93.9
72.5°	898.2	586.7	182.9	103.8	112.1	112.1	117.0	105.5	90.6	80.8	82.4
75°	651.0	420.3	145.0	87.3	97.2	95.6	95.6	89.0	77.5	70.9	70.9
77.5°	308.2	220.8	115.4	62.6	75.8	74.2	75.8	70.9	65.9	59.3	61.0
80°	151.6	108.8	74.2	44.5	52.7	54.4	59.3	56.0	54.4	49.4	49.4
82.5°	72.5	42.8	34.6	31.3	36.3	37.9	41.2	41.2	42.8	39.6	39.6
85°	19.8	11.5	14.8	19.8	23.1	24.7	28.0	29.7	29.7	28.0	29.7
87.5°	4.9	4.9	6.6	9.9	11.5	13.2	14.8	14.8	6.6	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)