

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: P836744

Luminaire Tested: **ARCH3-70-722-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836744
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: ARCH3-70-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

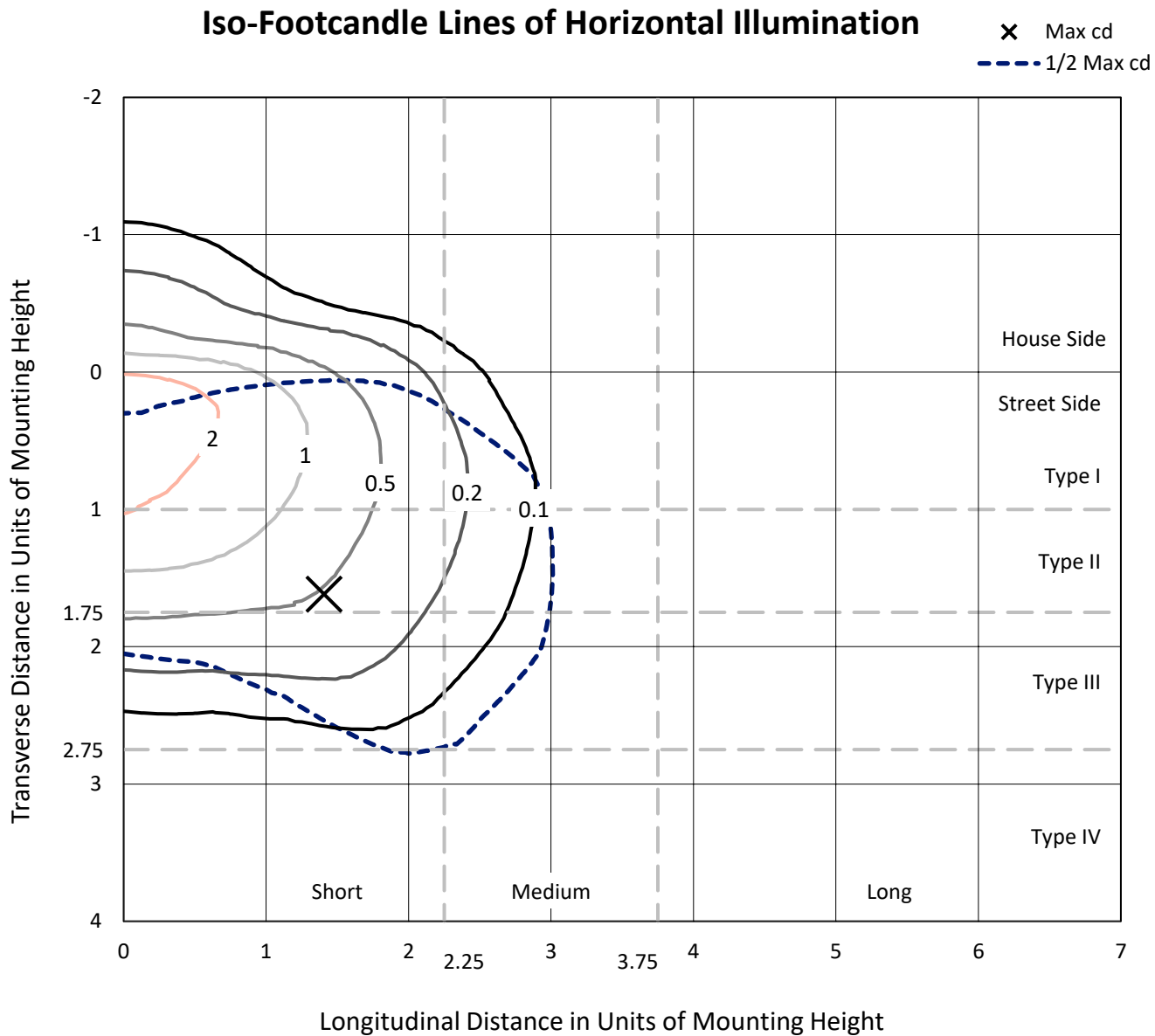
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7070 lumens
Efficiency: N/A
Efficacy: 96.7 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): 73.1
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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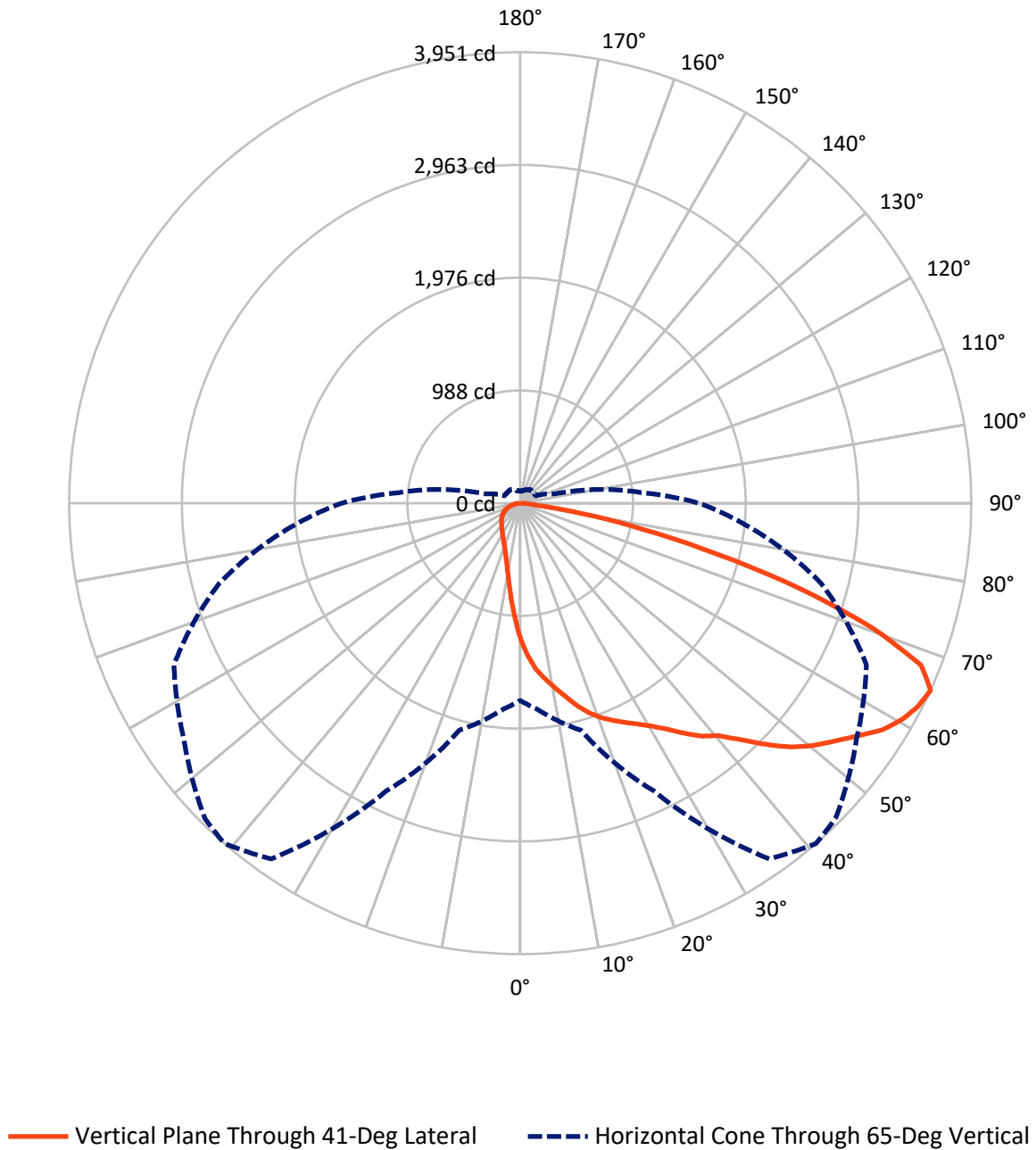


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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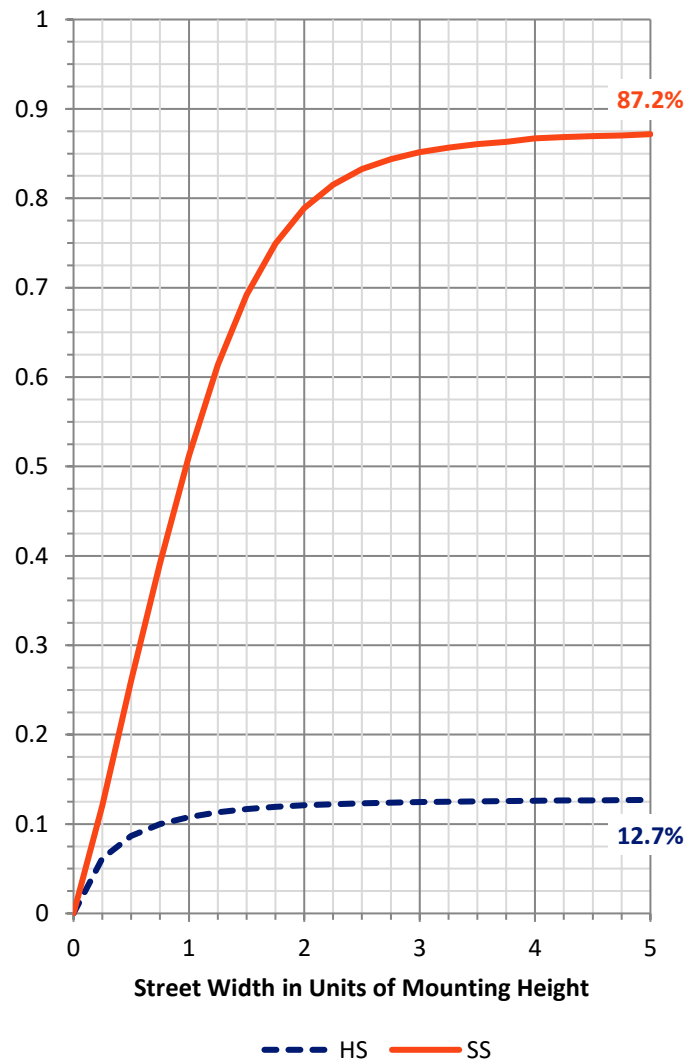
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	907.7	0.0	907.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	6162.3	0.0	6162.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	7070.0	0.0	7070.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	1.6
10°-20°	336.6	4.8
20°-30°	579.0	8.2
30°-40°	878.2	12.4
40°-50°	1286.6	18.2
50°-60°	1624.7	23.0
60°-70°	1523.4	21.5
70°-80°	679.0	9.6
80°-90°	50.3	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°	7070.0	100.0
0°-180°	7070.0	100.0

Coefficient of Utilization



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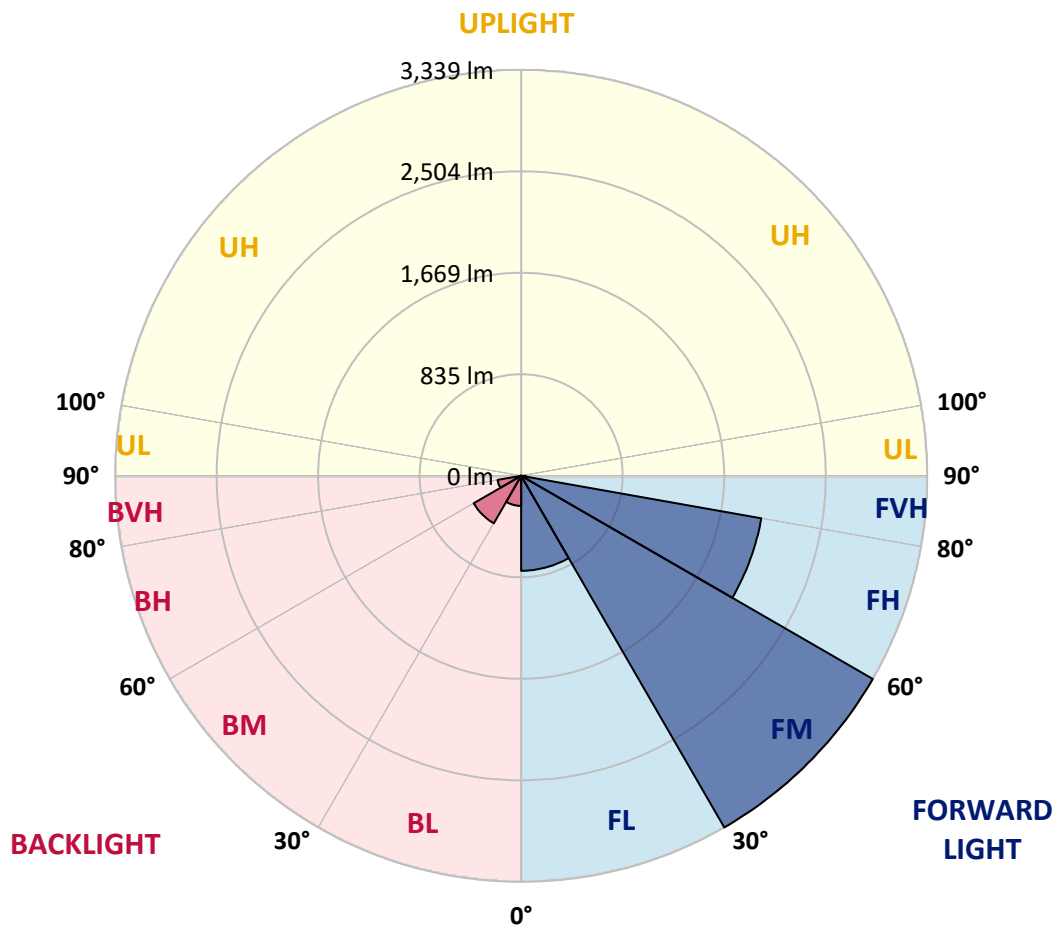
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	780.8	11.0			
FM	(30°-60°)	3338.7	47.2			
FH	(60°-80°)	2005.2	28.4			G2/5000
FVH	(80°-90°)	37.6	0.5			G1/100
BL	(0°-30°)	247.1	3.5	B1/500		
BM	(30°-60°)	450.7	6.4	B1/1000		
BH	(60°-80°)	197.2	2.8	B1/500		G1/500
BVH	(80°-90°)	12.7	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°	1204.7	1204.7	1204.7	1204.7	1204.7	1204.7	1204.7	1204.7	1204.7	1204.7	1204.7
2.5°	1389.6	1385.1	1382.1	1365.7	1365.7	1343.3	1344.8	1324.0	1298.6	1258.4	1215.1
5°	1520.8	1514.8	1507.4	1491.0	1485.0	1462.6	1459.6	1429.8	1386.6	1316.5	1239.0
7.5°	1635.6	1629.6	1619.2	1595.3	1578.9	1552.1	1544.6	1505.9	1458.2	1371.7	1262.8
10°	1739.9	1735.5	1722.1	1692.2	1669.9	1637.1	1623.6	1571.5	1511.8	1416.4	1282.2
12.5°	1845.8	1839.8	1821.9	1796.6	1769.8	1731.0	1714.6	1647.5	1571.5	1465.6	1310.5
15°	1944.2	1935.3	1921.8	1895.0	1871.1	1833.9	1816.0	1737.0	1644.5	1520.8	1347.8
17.5°	2008.3	2000.9	1988.9	1974.0	1954.6	1926.3	1908.4	1830.9	1717.6	1574.4	1386.6
20°	2047.1	2044.1	2039.6	2030.7	2021.7	2002.4	1988.9	1915.9	1796.6	1626.6	1423.9
22.5°	2076.9	2073.9	2072.4	2072.4	2073.9	2066.5	2057.5	1994.9	1872.6	1681.8	1458.2
25°	2123.1	2121.6	2118.6	2115.7	2126.1	2127.6	2124.6	2081.4	1968.1	1754.9	1501.4
27.5°	2187.2	2182.8	2176.8	2173.8	2184.2	2191.7	2197.7	2167.8	2069.4	1829.4	1550.6
30°	2285.6	2272.2	2257.3	2246.9	2254.3	2266.3	2279.7	2261.8	2173.8	1921.8	1601.3
32.5°	2401.9	2385.5	2351.2	2331.9	2351.2	2360.2	2370.6	2361.7	2282.7	2021.7	1652.0
35°	2543.6	2524.2	2488.4	2460.1	2494.4	2475.0	2470.5	2461.6	2385.5	2120.1	1708.6
37.5°	2779.1	2750.8	2694.2	2631.5	2631.5	2589.8	2573.4	2546.5	2478.0	2208.1	1763.8
40°	3052.0	3014.7	2941.7	2849.2	2764.2	2677.8	2667.3	2647.9	2586.8	2309.5	1826.4
42.5°	3351.7	3280.1	3178.7	3066.9	2929.7	2831.3	2807.5	2752.3	2692.7	2412.4	1889.0
45°	3684.1	3535.1	3387.4	3330.8	3104.2	3014.7	2970.0	2870.1	2803.0	2519.7	1954.6
47.5°	3737.8	3621.5	3523.1	3514.2	3266.7	3192.1	3141.4	2998.3	2922.3	2634.5	2023.2
50°	3708.0	3637.9	3648.4	3612.6	3386.0	3336.8	3298.0	3135.5	3040.1	2744.8	2085.8
52.5°	3582.8	3621.5	3681.2	3615.6	3499.3	3459.0	3439.6	3283.1	3150.4	2846.2	2142.5
55°	3433.7	3460.5	3588.7	3669.2	3630.5	3594.7	3576.8	3454.5	3259.2	2931.2	2194.7
57.5°	3216.0	3204.1	3345.7	3660.3	3767.6	3746.8	3727.4	3623.0	3360.6	2992.3	2227.5
60°	2889.5	2864.1	3043.0	3481.4	3812.4	3845.2	3836.2	3734.8	3438.1	2990.9	2214.1
62.5°	2324.4	2387.0	2634.5	3189.2	3831.8	3915.2	3898.8	3743.8	3463.5	2904.4	2129.1
65°	1728.0	1817.5	2060.5	2786.6	3804.9	3951.0	3906.3	3597.7	3345.7	2732.9	1942.7
67.5°	1244.9	1324.0	1501.4	2293.1	3547.0	3787.0	3734.8	3359.1	3074.3	2489.9	1684.8
70°	851.3	908.0	1028.8	1669.9	3028.1	3274.1	3241.3	3002.8	2646.4	2200.6	1368.7
72.5°	600.9	624.7	702.2	1101.8	2300.5	2568.9	2530.1	2470.5	2126.1	1829.4	1064.5
75°	450.3	465.2	506.9	712.7	1552.1	1780.2	1744.4	1778.7	1587.9	1385.1	775.3
77.5°	170.0	184.9	287.8	454.7	918.4	1092.9	1057.1	1078.0	882.6	699.3	386.2
80°	46.2	49.2	95.4	216.2	417.5	544.2	495.0	424.9	328.0	322.0	204.3
82.5°	19.4	22.4	43.2	116.3	149.1	149.1	125.2	155.1	125.2	150.6	98.4
85°	7.5	8.9	10.4	29.8	19.4	20.9	22.4	29.8	25.3	31.3	22.4
87.5°	0.0	0.0	0.0	1.5	1.5	3.0	1.5	3.0	4.5	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1204.7	1204.7	1204.7	1204.7	1204.7	1204.7	1204.7	1204.7	1204.7	1204.7	1204.7
2.5°	1197.2	1180.8	1157.0	1118.2	1078.0	1055.6	1027.3	1022.8	993.0	990.0	978.1
5°	1204.7	1170.4	1109.3	1034.7	961.7	905.0	863.3	840.9	797.7	797.7	785.7
7.5°	1210.7	1157.0	1058.6	948.2	848.4	772.3	715.7	691.8	653.0	650.1	641.1
10°	1212.1	1140.6	1003.4	860.3	738.0	660.5	605.3	578.5	544.2	541.2	535.3
12.5°	1224.1	1131.6	954.2	784.2	659.0	575.5	521.8	499.5	472.6	469.7	463.7
15°	1243.5	1131.6	912.5	720.1	588.9	511.4	465.2	444.3	424.9	421.9	419.0
17.5°	1262.8	1128.7	870.7	660.5	530.8	460.7	420.4	404.0	389.1	387.6	384.7
20°	1280.7	1127.2	829.0	609.8	486.1	419.0	387.6	372.7	360.8	360.8	359.3
22.5°	1298.6	1124.2	788.7	562.1	447.3	387.6	360.8	344.4	335.5	335.5	334.0
25°	1325.5	1124.2	751.4	521.8	416.0	363.8	337.0	325.0	317.6	316.1	316.1
27.5°	1356.8	1133.1	718.6	486.1	389.1	339.9	319.1	307.1	298.2	295.2	296.7
30°	1391.1	1140.6	688.8	454.7	363.8	322.0	299.7	287.8	278.8	275.8	277.3
32.5°	1425.4	1149.5	662.0	426.4	338.4	305.6	283.3	269.9	260.9	259.4	259.4
35°	1462.6	1158.5	635.1	402.6	317.6	289.2	268.4	253.5	247.5	244.5	246.0
37.5°	1499.9	1173.4	609.8	380.2	302.7	274.3	255.0	240.0	235.6	234.1	234.1
40°	1544.6	1195.7	599.4	365.3	289.2	260.9	244.5	229.6	225.1	225.1	225.1
42.5°	1581.9	1213.6	590.4	348.9	278.8	249.0	234.1	222.2	219.2	217.7	219.2
45°	1619.2	1230.0	578.5	334.0	265.4	237.1	225.1	213.2	210.2	210.2	210.2
47.5°	1656.5	1239.0	562.1	319.1	253.5	226.6	216.2	205.8	202.8	202.8	202.8
50°	1686.3	1246.4	538.2	302.7	240.0	217.7	207.2	196.8	193.8	193.8	193.8
52.5°	1716.1	1247.9	512.9	283.3	226.6	207.2	198.3	187.9	184.9	183.4	183.4
55°	1742.9	1246.4	483.1	260.9	211.7	195.3	187.9	178.9	173.0	167.0	170.0
57.5°	1762.3	1244.9	448.8	238.6	196.8	183.4	180.4	168.5	156.6	141.6	144.6
60°	1754.9	1228.5	411.5	210.2	180.4	171.5	171.5	155.1	134.2	126.7	128.2
62.5°	1707.1	1182.3	372.7	180.4	164.0	159.5	158.0	140.1	123.7	116.3	117.8
65°	1564.0	1066.0	316.1	153.6	147.6	146.1	146.1	129.7	114.8	105.9	107.3
67.5°	1346.3	894.6	257.9	129.7	131.2	134.2	134.2	119.3	104.4	95.4	96.9
70°	1079.5	699.3	205.8	111.8	113.3	117.8	120.8	107.3	93.9	85.0	85.0
72.5°	812.6	530.8	165.5	93.9	101.4	101.4	105.9	95.4	82.0	73.1	74.5
75°	588.9	380.2	131.2	79.0	88.0	86.5	86.5	80.5	70.1	64.1	64.1
77.5°	278.8	199.8	104.4	56.7	68.6	67.1	68.6	64.1	59.6	53.7	55.2
80°	137.2	98.4	67.1	40.3	47.7	49.2	53.7	50.7	49.2	44.7	44.7
82.5°	65.6	38.8	31.3	28.3	32.8	34.3	37.3	37.3	38.8	35.8	35.8
85°	17.9	10.4	13.4	17.9	20.9	22.4	25.3	26.8	26.8	25.3	26.8
87.5°	4.5	4.5	6.0	8.9	10.4	11.9	13.4	13.4	6.0	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)