

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: P836708

Luminaire Tested: **ARCH3-60-740-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836708
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: ARCH3-60-740-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 505mA 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: 7450 lumens
Efficiency: N/A
Efficacy: 117.9 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

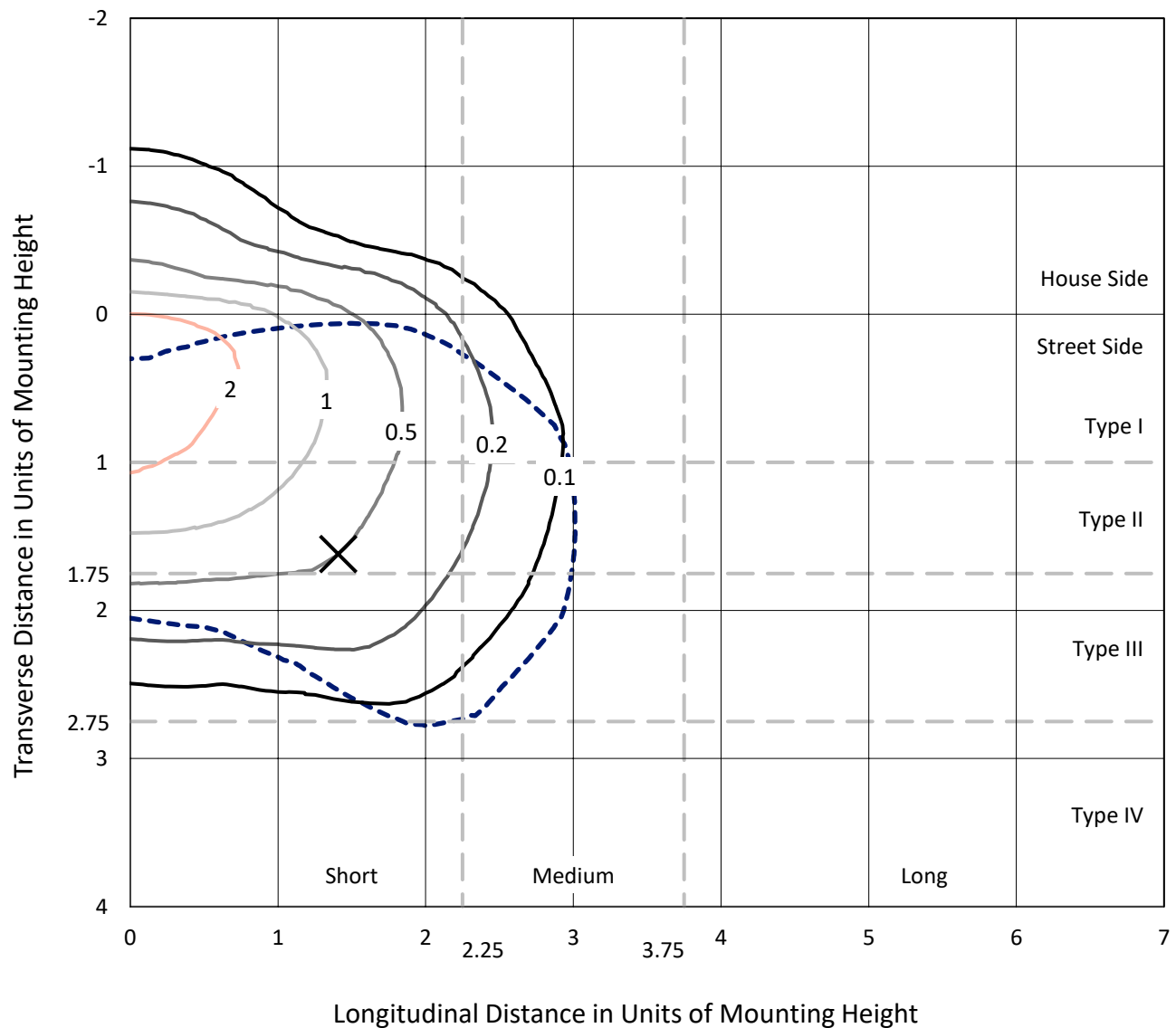
Input Watts (W): 63.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

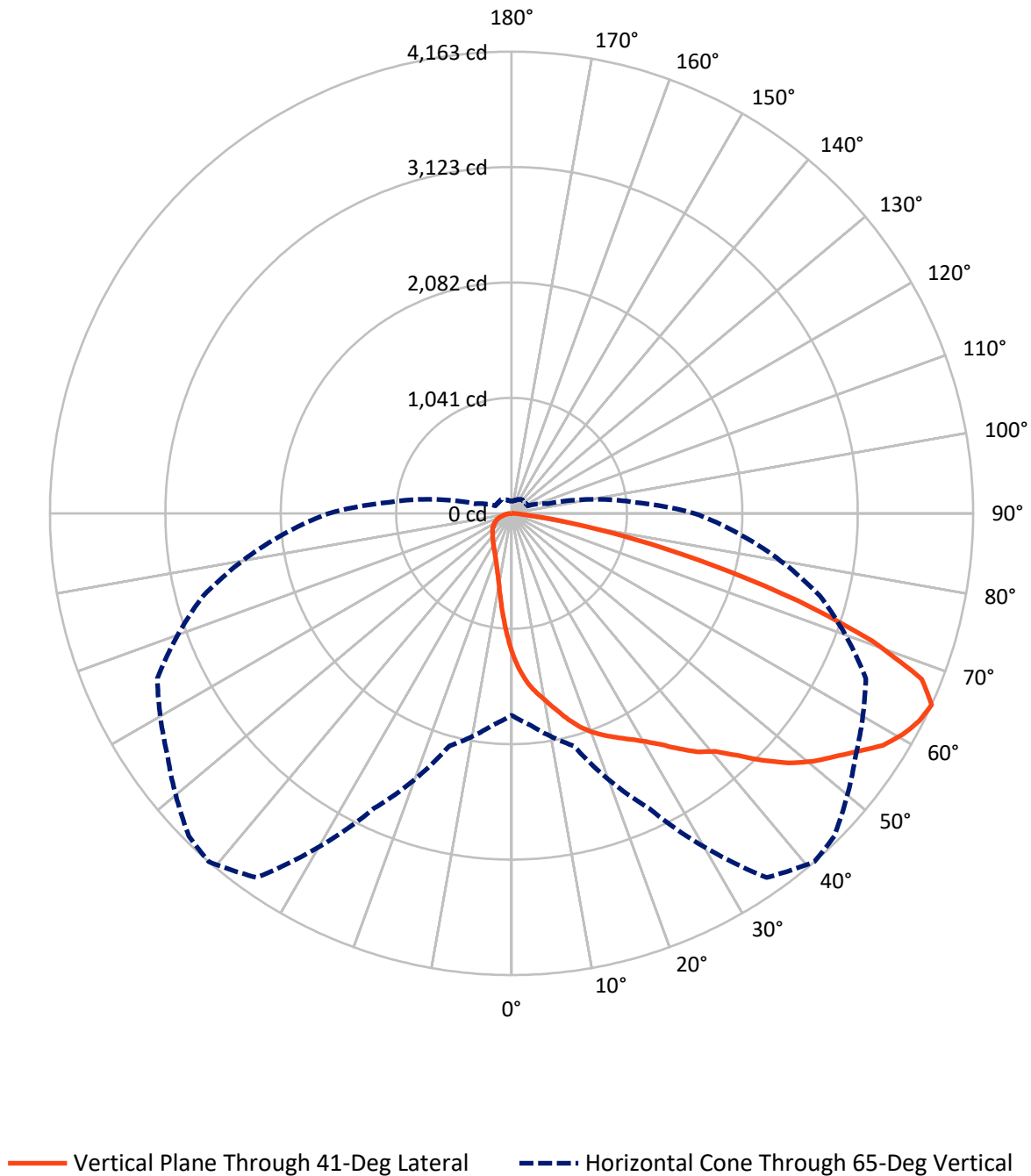
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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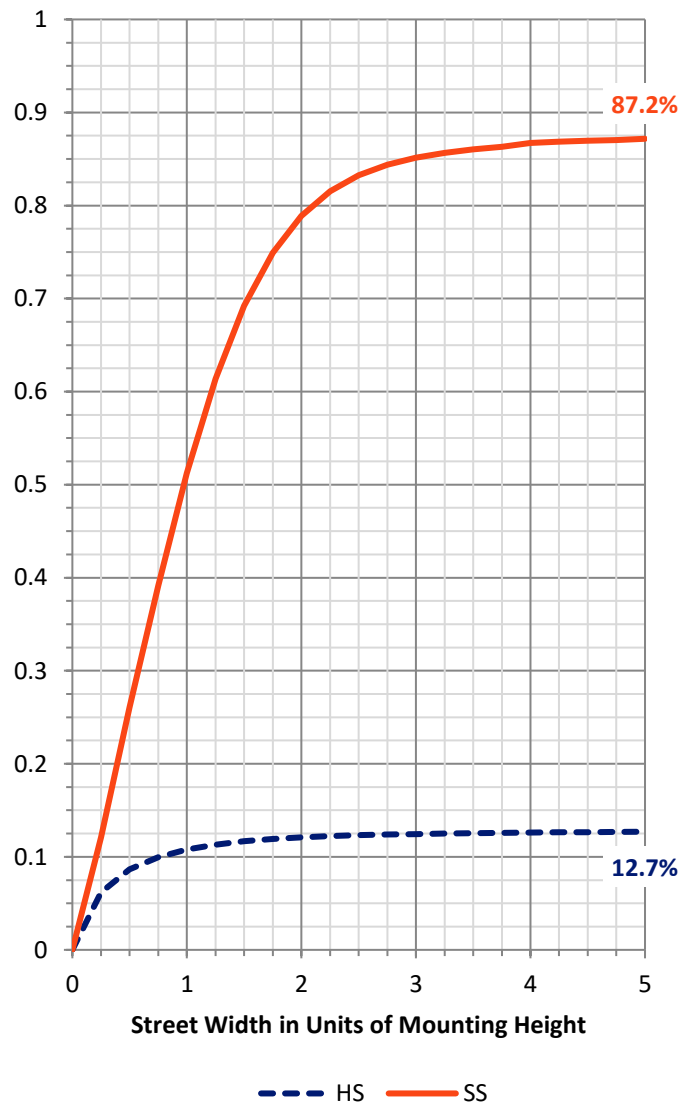
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	956.5	0.0	956.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	6493.5	0.0	6493.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	7450.0	0.0	7450.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	1.6
10°-20°	354.7	4.8
20°-30°	610.2	8.2
30°-40°	925.4	12.4
40°-50°	1355.7	18.2
50°-60°	1712.0	23.0
60°-70°	1605.3	21.5
70°-80°	715.5	9.6
80°-90°	53.0	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°	7450.0	100.0
0°-180°	7450.0	100.0

Coefficient of Utilization



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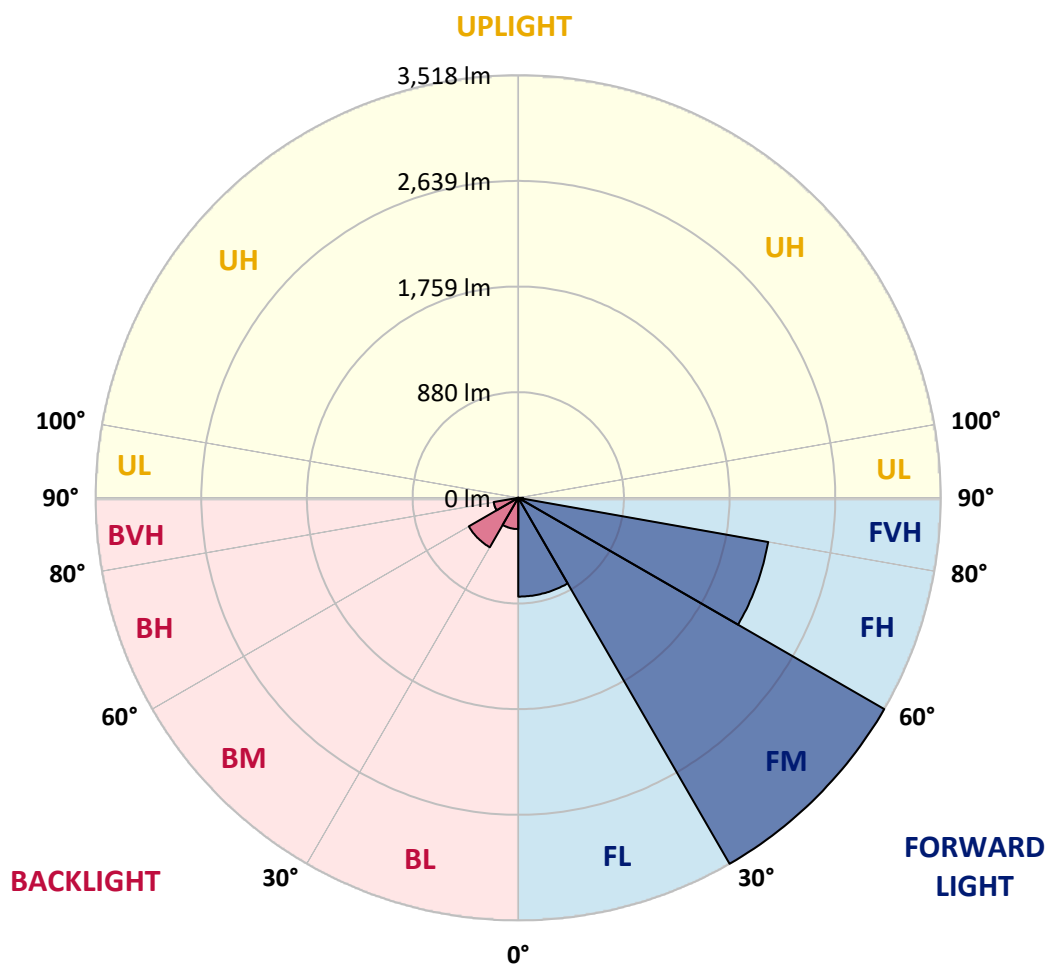
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	822.8	11.0			
FM	(30°-60°)	3518.2	47.2			
FH	(60°-80°)	2113.0	28.4			G2/5000
FVH	(80°-90°)	39.6	0.5			G1/100
BL	(0°-30°)	260.3	3.5	B1/500		
BM	(30°-60°)	474.9	6.4	B1/1000		
BH	(60°-80°)	207.8	2.8	B1/500		G1/500
BVH	(80°-90°)	13.4	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°	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4
2.5°	1464.3	1459.5	1456.4	1439.1	1439.1	1415.6	1417.1	1395.1	1368.4	1326.0	1280.4
5°	1602.5	1596.2	1588.4	1571.1	1564.8	1541.2	1538.1	1506.7	1461.1	1387.3	1305.6
7.5°	1723.5	1717.2	1706.2	1681.1	1663.8	1635.5	1627.6	1586.8	1536.5	1445.4	1330.7
10°	1833.5	1828.7	1814.6	1783.2	1759.6	1725.1	1710.9	1655.9	1593.1	1492.5	1351.1
12.5°	1945.0	1938.7	1919.9	1893.2	1864.9	1824.0	1806.8	1736.1	1655.9	1544.4	1381.0
15°	2048.7	2039.3	2025.1	1996.9	1971.7	1932.4	1913.6	1830.3	1732.9	1602.5	1420.3
17.5°	2116.3	2108.4	2095.8	2080.1	2059.7	2029.8	2011.0	1929.3	1809.9	1659.1	1461.1
20°	2157.1	2154.0	2149.3	2139.8	2130.4	2110.0	2095.8	2018.9	1893.2	1714.1	1500.4
22.5°	2188.5	2185.4	2183.8	2183.8	2185.4	2177.5	2168.1	2102.1	1973.3	1772.2	1536.5
25°	2237.2	2235.7	2232.5	2229.4	2240.4	2241.9	2238.8	2193.2	2073.8	1849.2	1582.1
27.5°	2304.8	2300.1	2293.8	2290.6	2301.6	2309.5	2315.8	2284.4	2180.7	1927.7	1633.9
30°	2408.5	2394.3	2378.6	2367.6	2375.5	2388.1	2402.2	2383.3	2290.6	2025.1	1687.4
32.5°	2531.0	2513.7	2477.6	2457.2	2477.6	2487.0	2498.0	2488.6	2405.3	2130.4	1740.8
35°	2680.3	2659.9	2622.1	2592.3	2628.4	2608.0	2603.3	2593.9	2513.7	2234.1	1800.5
37.5°	2928.5	2898.7	2839.0	2773.0	2773.0	2729.0	2711.7	2683.4	2611.2	2326.8	1858.6
40°	3216.0	3176.7	3099.8	3002.4	2912.8	2821.7	2810.7	2790.3	2725.8	2433.6	1924.6
42.5°	3531.8	3456.4	3349.6	3231.7	3087.2	2983.5	2958.4	2900.2	2837.4	2542.0	1990.6
45°	3882.2	3725.1	3569.5	3509.8	3271.0	3176.7	3129.6	3024.3	2953.6	2655.1	2059.7
47.5°	3938.7	3816.2	3712.5	3703.1	3442.3	3363.7	3310.3	3159.5	3079.3	2776.1	2132.0
50°	3907.3	3833.5	3844.5	3806.8	3567.9	3516.1	3475.3	3304.0	3203.5	2892.4	2198.0
52.5°	3775.3	3816.2	3879.0	3809.9	3687.3	3644.9	3624.5	3459.5	3319.7	2999.2	2257.7
55°	3618.2	3646.5	3781.6	3866.5	3825.6	3787.9	3769.0	3640.2	3434.4	3088.8	2312.6
57.5°	3388.8	3376.3	3525.5	3857.0	3970.1	3948.2	3927.7	3817.7	3541.2	3153.2	2347.2
60°	3044.8	3018.1	3206.6	3668.5	4017.3	4051.8	4042.4	3935.6	3622.9	3151.6	2333.1
62.5°	2449.3	2515.3	2776.1	3360.6	4037.7	4125.7	4108.4	3945.0	3649.6	3060.5	2243.5
65°	1820.9	1915.2	2171.2	2936.4	4009.4	4163.4	4116.3	3791.0	3525.5	2879.8	2047.1
67.5°	1311.9	1395.1	1582.1	2416.3	3737.6	3990.6	3935.6	3539.7	3239.6	2623.7	1775.3
70°	897.1	956.8	1084.1	1759.6	3190.9	3450.1	3415.6	3164.2	2788.7	2318.9	1442.3
72.5°	633.1	658.3	740.0	1161.0	2424.2	2707.0	2666.1	2603.3	2240.4	1927.7	1121.8
75°	474.5	490.2	534.2	751.0	1635.5	1875.9	1838.2	1874.3	1673.2	1459.5	817.0
77.5°	179.1	194.8	303.2	479.2	967.8	1151.6	1113.9	1135.9	930.1	736.8	406.9
80°	48.7	51.8	100.5	227.8	439.9	573.4	521.6	447.8	345.6	339.4	215.2
82.5°	20.4	23.6	45.6	122.5	157.1	157.1	132.0	163.4	132.0	158.7	103.7
85°	7.9	9.4	11.0	31.4	20.4	22.0	23.6	31.4	26.7	33.0	23.6
87.5°	0.0	0.0	0.0	1.6	1.6	3.1	1.6	3.1	4.7	4.7	4.7
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°	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4	1269.4
2.5°	1261.6	1244.3	1219.2	1178.3	1135.9	1112.3	1082.5	1077.8	1046.3	1043.2	1030.6
5°	1269.4	1233.3	1168.9	1090.3	1013.4	953.7	909.7	886.1	840.5	840.5	828.0
7.5°	1275.7	1219.2	1115.5	999.2	894.0	813.8	754.1	729.0	688.1	685.0	675.6
10°	1277.3	1201.9	1057.3	906.5	777.7	696.0	637.9	609.6	573.4	570.3	564.0
12.5°	1289.9	1192.5	1005.5	826.4	694.4	606.4	549.9	526.3	498.0	494.9	488.6
15°	1310.3	1192.5	961.5	758.8	620.6	538.9	490.2	468.2	447.8	444.6	441.5
17.5°	1330.7	1189.3	917.5	696.0	559.3	485.5	443.0	425.8	410.1	408.5	405.3
20°	1349.6	1187.7	873.5	642.6	512.2	441.5	408.5	392.8	380.2	380.2	378.6
22.5°	1368.4	1184.6	831.1	592.3	471.3	408.5	380.2	362.9	353.5	353.5	351.9
25°	1396.7	1184.6	791.8	549.9	438.3	383.3	355.1	342.5	334.6	333.1	333.1
27.5°	1429.7	1194.0	757.3	512.2	410.1	358.2	336.2	323.6	314.2	311.1	312.6
30°	1465.8	1201.9	725.8	479.2	383.3	339.4	315.8	303.2	293.8	290.7	292.2
32.5°	1502.0	1211.3	697.6	449.3	356.6	322.1	298.5	284.4	274.9	273.4	273.4
35°	1541.2	1220.7	669.3	424.2	334.6	304.8	282.8	267.1	260.8	257.7	259.2
37.5°	1580.5	1236.4	642.6	400.6	318.9	289.1	268.7	252.9	248.2	246.7	246.7
40°	1627.6	1260.0	631.6	384.9	304.8	274.9	257.7	241.9	237.2	237.2	237.2
42.5°	1666.9	1278.9	622.2	367.6	293.8	262.4	246.7	234.1	231.0	229.4	231.0
45°	1706.2	1296.1	609.6	351.9	279.7	249.8	237.2	224.7	221.5	221.5	221.5
47.5°	1745.5	1305.6	592.3	336.2	267.1	238.8	227.8	216.8	213.7	213.7	213.7
50°	1776.9	1313.4	567.2	318.9	252.9	229.4	218.4	207.4	204.2	204.2	204.2
52.5°	1808.3	1315.0	540.5	298.5	238.8	218.4	209.0	198.0	194.8	193.2	193.2
55°	1836.6	1313.4	509.0	274.9	223.1	205.8	198.0	188.5	182.2	176.0	179.1
57.5°	1857.0	1311.9	472.9	251.4	207.4	193.2	190.1	177.5	165.0	149.3	152.4
60°	1849.2	1294.6	433.6	221.5	190.1	180.7	180.7	163.4	141.4	133.5	135.1
62.5°	1798.9	1245.9	392.8	190.1	172.8	168.1	166.5	147.7	130.4	122.5	124.1
65°	1648.1	1123.3	333.1	161.8	155.5	154.0	154.0	136.7	121.0	111.5	113.1
67.5°	1418.7	942.7	271.8	136.7	138.3	141.4	141.4	125.7	110.0	100.5	102.1
70°	1137.5	736.8	216.8	117.8	119.4	124.1	127.3	113.1	99.0	89.6	89.6
72.5°	856.2	559.3	174.4	99.0	106.8	106.8	111.5	100.5	86.4	77.0	78.6
75°	620.6	400.6	138.3	83.3	92.7	91.1	91.1	84.8	73.8	67.6	67.6
77.5°	293.8	210.5	110.0	59.7	72.3	70.7	72.3	67.6	62.8	56.6	58.1
80°	144.5	103.7	70.7	42.4	50.3	51.8	56.6	53.4	51.8	47.1	47.1
82.5°	69.1	40.8	33.0	29.9	34.6	36.1	39.3	39.3	40.8	37.7	37.7
85°	18.9	11.0	14.1	18.9	22.0	23.6	26.7	28.3	28.3	26.7	28.3
87.5°	4.7	4.7	6.3	9.4	11.0	12.6	14.1	14.1	6.3	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)