

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: P842463

Luminaire Tested: **ARCH4-50-730-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-50-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 435mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6330 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 53.2
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



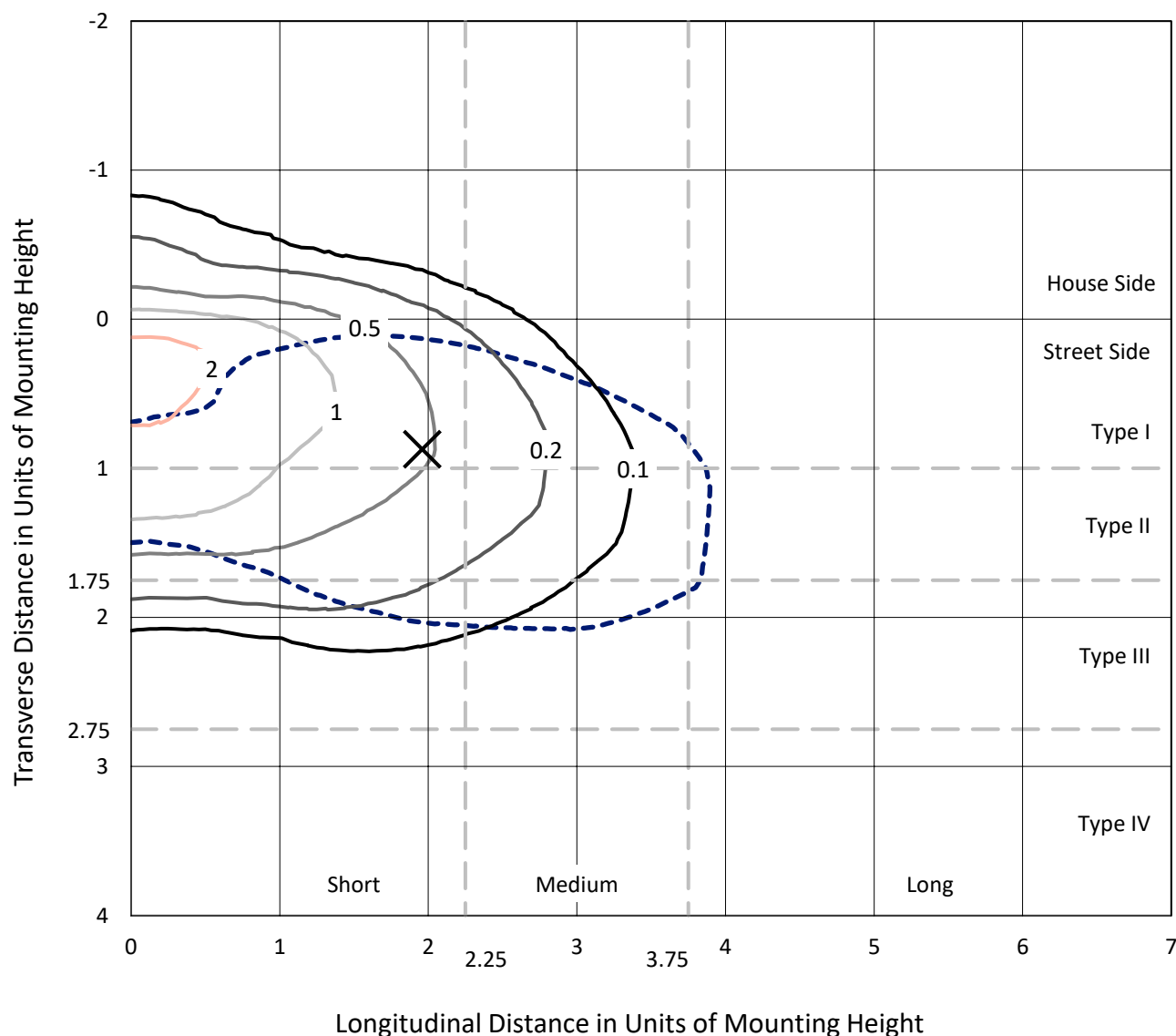
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



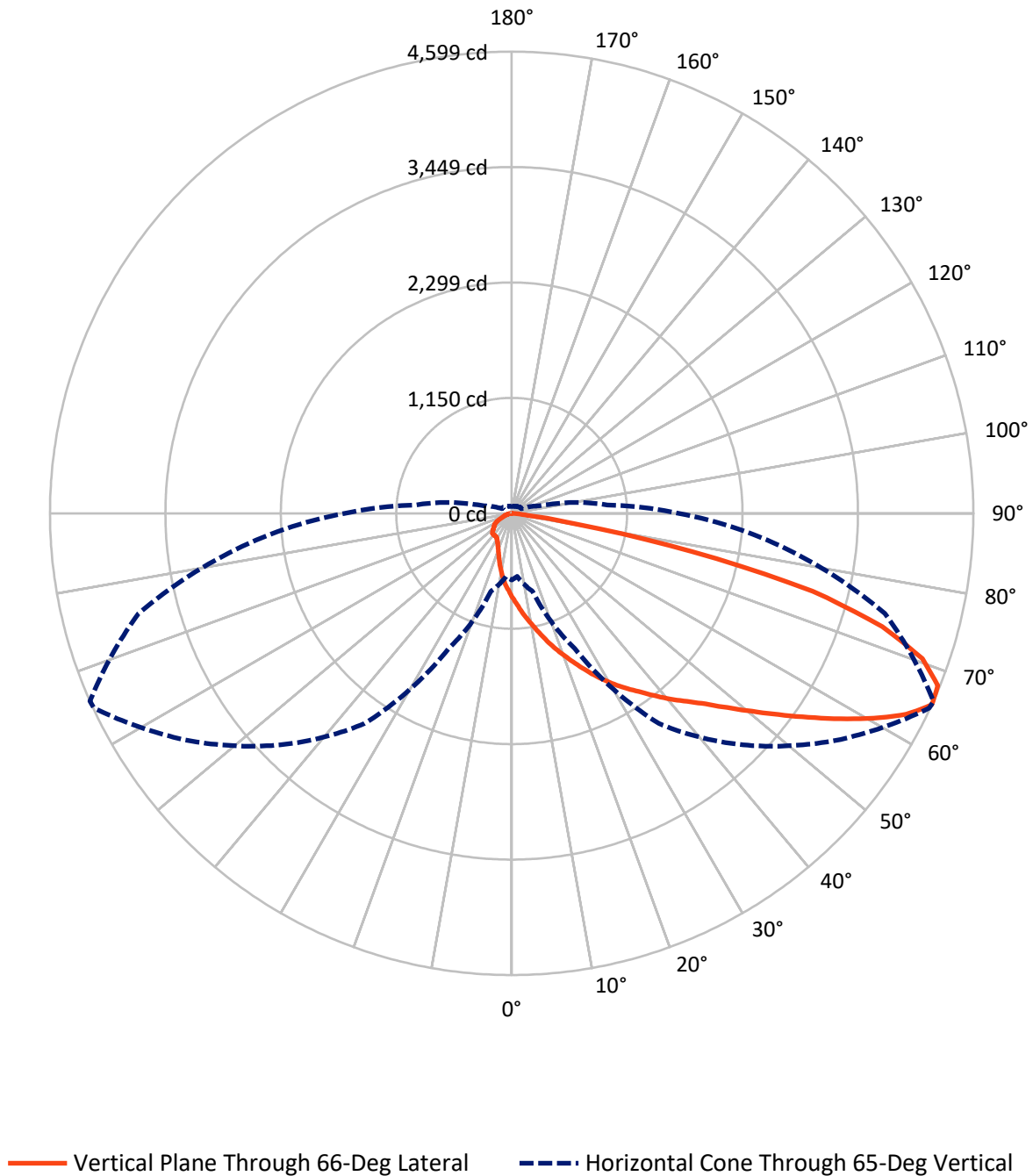
Based on 25 foot mounting height. Maximum calculated value = 2.4 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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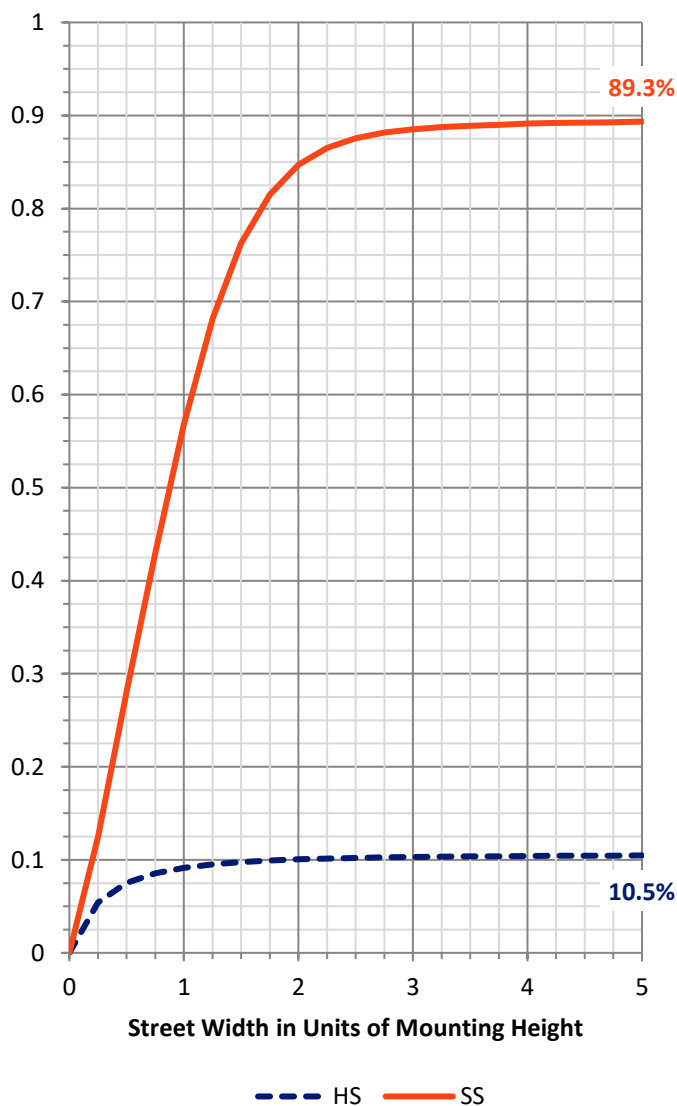
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	669.6	0.0	669.6
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	5660.4	0.0	5660.4
	% Fixture	89.4	0.0	89.4
Total	Lumens	6330.0	0.0	6330.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	1.3
10°-20°	269.5	4.3
20°-30°	487.6	7.7
30°-40°	762.5	12.0
40°-50°	1156.7	18.3
50°-60°	1469.6	23.2
60°-70°	1373.2	21.7
70°-80°	682.5	10.8
80°-90°	45.9	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°	6330.0	100.0
0°-180°	6330.0	100.0

Coefficient of Utilization



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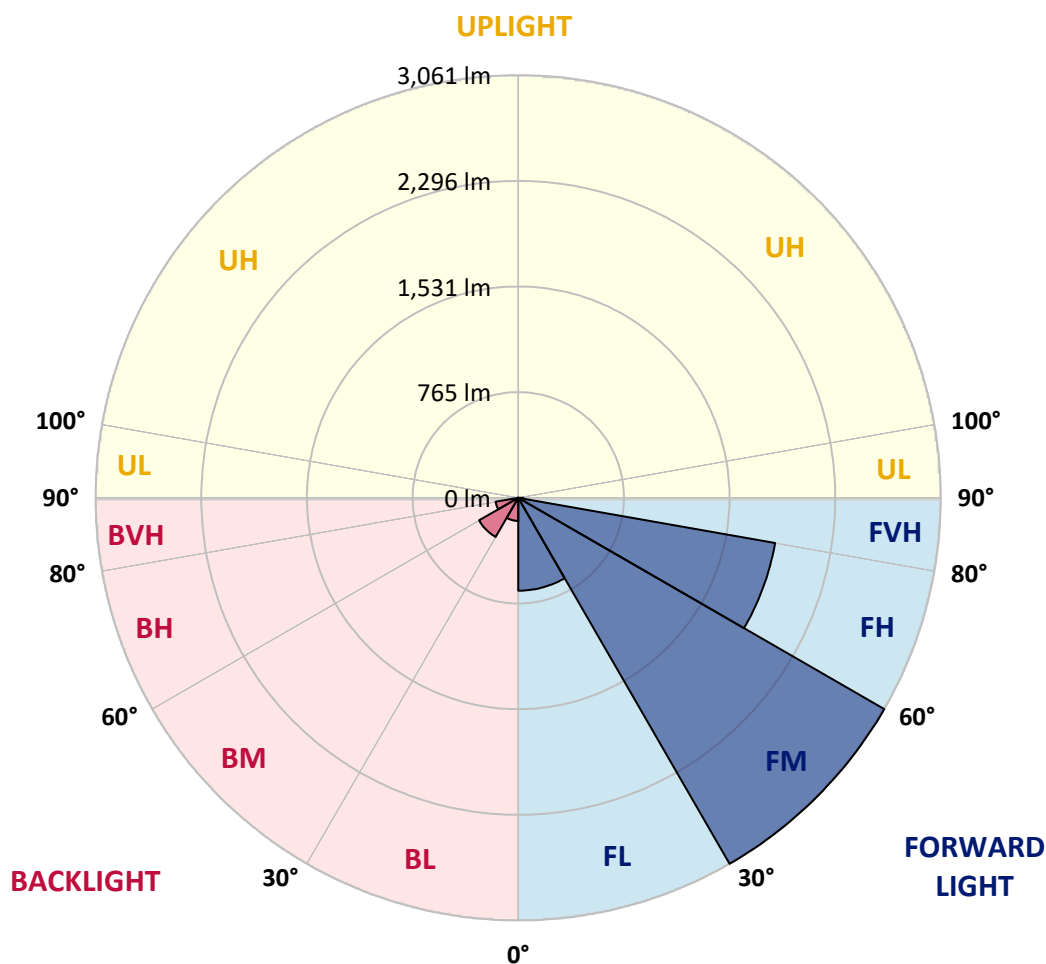
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	672.6	10.6			
FM	(30°-60°)	3061.3	48.4			
FH	(60°-80°)	1888.9	29.8			G2/5000
FVH	(80°-90°)	37.7	0.6			G1/100
BL	(0°-30°)	167.2	2.6	B1/500		
BM	(30°-60°)	327.5	5.2	B1/1000		
BH	(60°-80°)	166.7	2.6	B1/500		G1/500
BVH	(80°-90°)	8.1	0.1			G0/10
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°	45°	55°	65°	66°	75°	85°
0°	837.7	837.7	837.7	837.7	837.7	837.7	837.7	837.7	837.7	837.7	837.7
2.5°	978.5	986.4	990.4	991.7	961.2	947.9	934.7	904.1	897.5	880.2	857.7
5°	1151.1	1161.7	1159.0	1153.7	1116.5	1074.1	1039.5	982.5	973.2	932.0	881.6
7.5°	1321.0	1330.3	1327.6	1307.7	1266.6	1206.8	1149.7	1066.1	1052.8	986.4	905.5
10°	1463.1	1471.0	1469.7	1449.8	1400.7	1327.6	1258.6	1147.1	1131.1	1036.9	925.4
12.5°	1579.9	1590.5	1589.2	1575.9	1532.1	1452.4	1374.1	1240.0	1220.1	1098.0	953.2
15°	1671.5	1684.8	1684.8	1679.5	1648.9	1582.5	1493.6	1342.2	1318.3	1168.3	987.8
17.5°	1727.3	1737.9	1747.2	1756.5	1735.2	1684.8	1603.8	1444.5	1419.2	1237.4	1023.6
20°	1756.5	1767.1	1773.7	1793.6	1797.6	1772.4	1708.7	1545.4	1518.8	1315.7	1064.8
22.5°	1804.3	1813.6	1814.9	1832.1	1840.1	1846.7	1806.9	1644.9	1623.7	1402.0	1111.2
25°	1883.9	1894.5	1890.6	1898.5	1899.9	1907.8	1903.8	1759.1	1737.9	1500.2	1167.0
27.5°	1986.1	1999.4	1996.8	1988.8	1976.9	1970.2	1987.5	1874.6	1854.7	1598.5	1224.1
30°	2096.3	2112.3	2108.3	2092.4	2060.5	2032.6	2056.5	1983.5	1964.9	1699.4	1287.8
32.5°	2207.9	2226.5	2225.1	2198.6	2144.1	2096.3	2132.2	2085.7	2072.4	1808.2	1356.8
35°	2280.9	2304.8	2302.1	2286.2	2215.8	2174.7	2218.5	2190.6	2181.3	1941.0	1456.4
37.5°	2399.0	2424.3	2401.7	2361.9	2280.9	2259.6	2312.7	2308.8	2302.1	2081.7	1561.3
40°	2685.8	2723.0	2663.2	2499.9	2367.2	2348.6	2424.3	2440.2	2433.6	2221.1	1655.6
42.5°	2985.9	3041.6	2948.7	2723.0	2523.8	2456.1	2546.4	2569.0	2561.0	2340.6	1740.5
45°	3167.7	3191.6	3098.7	2923.5	2801.3	2586.2	2676.5	2713.7	2707.1	2484.0	1849.4
47.5°	3316.4	3307.2	3200.9	3082.8	3105.3	2769.5	2823.9	2896.9	2891.6	2642.0	1968.9
50°	3348.3	3327.1	3284.6	3210.2	3270.0	2955.3	2979.2	3105.3	3100.0	2817.3	2089.7
52.5°	3123.9	3096.1	3211.6	3274.0	3254.0	3090.7	3150.5	3333.7	3331.0	3007.1	2205.2
55°	2563.7	2541.1	2851.8	3174.4	3236.8	3186.3	3340.3	3571.4	3586.0	3208.9	2310.1
57.5°	2016.7	1992.8	2298.1	2924.8	3173.1	3274.0	3562.1	3843.5	3862.1	3428.0	2409.7
60°	1607.8	1571.9	1805.6	2531.8	3053.6	3341.7	3775.8	4142.2	4144.9	3628.4	2470.7
62.5°	1092.6	1052.8	1311.7	2033.9	2853.1	3352.3	3940.4	4399.8	4410.4	3778.5	2481.4
65°	663.8	630.6	805.9	1485.6	2557.0	3262.0	3943.1	4589.7	4598.9	3847.5	2417.6
67.5°	385.0	371.7	460.7	925.4	2065.8	3019.1	3777.1	4560.4	4577.7	3818.3	2272.9
70°	224.4	223.0	256.2	458.0	1457.7	2537.1	3406.7	4314.8	4340.1	3665.6	2051.2
72.5°	164.6	167.3	180.6	245.6	844.4	1826.8	2885.0	3820.9	3859.4	3366.9	1735.2
75°	130.1	131.4	143.4	167.3	443.4	1032.9	2161.4	3066.8	3097.4	2834.5	1355.5
77.5°	96.9	99.6	108.9	118.2	205.8	474.0	1216.1	1889.2	1838.8	1556.0	654.5
80°	70.4	77.0	81.0	85.0	108.9	183.2	365.1	658.5	653.2	679.8	309.3
82.5°	45.1	50.5	54.4	57.1	65.1	87.6	108.9	147.4	159.3	264.2	123.5
85°	19.9	22.6	25.2	30.5	27.9	30.5	45.1	29.2	25.2	39.8	22.6
87.5°	0.0	0.0	4.0	6.6	5.3	2.7	8.0	5.3	4.0	4.0	4.0
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°	837.7	837.7	837.7	837.7	837.7	837.7	837.7	837.7	837.7	837.7	837.7
2.5°	845.7	831.1	800.6	771.4	754.1	731.5	711.6	693.0	691.7	686.4	677.1
5°	856.3	828.4	771.4	716.9	675.8	632.0	594.8	565.6	555.0	547.0	536.4
7.5°	866.9	823.1	738.2	658.5	593.5	532.4	488.6	448.7	436.8	426.2	419.5
10°	870.9	813.8	699.7	593.5	508.5	443.4	397.0	367.8	357.1	351.8	347.8
12.5°	882.9	808.5	663.8	532.4	434.1	374.4	341.2	323.9	320.0	316.0	312.0
15°	898.8	808.5	628.0	472.6	375.7	327.9	308.0	296.1	293.4	292.1	289.4
17.5°	916.1	808.5	593.5	422.2	333.2	297.4	282.8	276.1	274.8	273.5	272.2
20°	940.0	809.9	556.3	378.4	302.7	274.8	262.9	254.9	253.6	252.3	252.3
22.5°	963.9	812.5	520.4	345.2	282.8	257.6	243.0	235.0	232.3	232.3	232.3
25°	994.4	820.5	487.2	317.3	265.5	241.6	223.0	216.4	215.1	215.1	213.8
27.5°	1030.2	829.8	458.0	296.1	248.3	223.0	204.5	197.8	195.2	195.2	193.8
30°	1068.8	839.1	434.1	280.1	231.0	204.5	187.2	179.2	176.6	177.9	176.6
32.5°	1111.2	852.3	415.6	269.5	215.1	188.5	172.6	163.3	162.0	162.0	160.6
35°	1182.9	889.5	412.9	264.2	201.8	176.6	160.6	151.4	150.0	150.0	148.7
37.5°	1259.9	932.0	424.8	261.5	191.2	166.0	151.4	142.1	140.7	140.7	140.7
40°	1325.0	963.9	438.1	261.5	184.5	156.7	143.4	135.4	135.4	135.4	135.4
42.5°	1368.8	966.5	435.5	261.5	179.2	150.0	138.1	130.1	130.1	131.4	130.1
45°	1433.9	979.8	424.8	257.6	175.2	144.7	132.8	126.1	124.8	126.1	126.1
47.5°	1510.9	1003.7	414.2	241.6	173.9	139.4	128.8	120.8	119.5	120.8	119.5
50°	1583.9	1024.9	408.9	220.4	171.3	134.1	123.5	115.5	114.2	115.5	114.2
52.5°	1644.9	1034.2	399.6	205.8	164.6	128.8	118.2	110.2	107.5	108.9	108.9
55°	1694.1	1031.6	386.3	193.8	152.7	123.5	111.5	104.9	100.9	100.9	99.6
57.5°	1739.2	1032.9	374.4	181.9	139.4	115.5	106.2	98.2	92.9	91.6	90.3
60°	1756.5	1026.3	353.2	166.0	126.1	108.9	99.6	90.3	85.0	83.6	82.3
62.5°	1732.6	1002.4	325.3	138.1	114.2	100.9	92.9	83.6	78.3	77.0	75.7
65°	1664.9	957.2	282.8	108.9	103.6	91.6	85.0	78.3	71.7	69.0	67.7
67.5°	1549.4	892.2	229.7	87.6	91.6	83.6	79.7	71.7	63.7	61.1	59.7
70°	1384.7	805.9	172.6	74.3	81.0	74.3	71.7	63.7	57.1	54.4	53.1
72.5°	1153.7	666.5	120.8	63.7	70.4	65.1	62.4	57.1	50.5	46.5	46.5
75°	872.3	478.0	79.7	54.4	58.4	55.8	51.8	47.8	43.8	41.2	39.8
77.5°	375.7	185.9	49.1	41.2	47.8	46.5	41.2	38.5	37.2	34.5	34.5
80°	162.0	75.7	30.5	30.5	34.5	33.2	31.9	29.2	29.2	27.9	26.6
82.5°	59.7	30.5	18.6	22.6	25.2	22.6	22.6	22.6	22.6	21.2	21.2
85°	14.6	9.3	9.3	13.3	14.6	13.3	14.6	13.3	13.3	13.3	11.9
87.5°	4.0	4.0	5.3	5.3	5.3	5.3	5.3	4.0	0.0	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)