

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: P842369

Luminaire Tested: **ARCH4-40-722-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-40-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

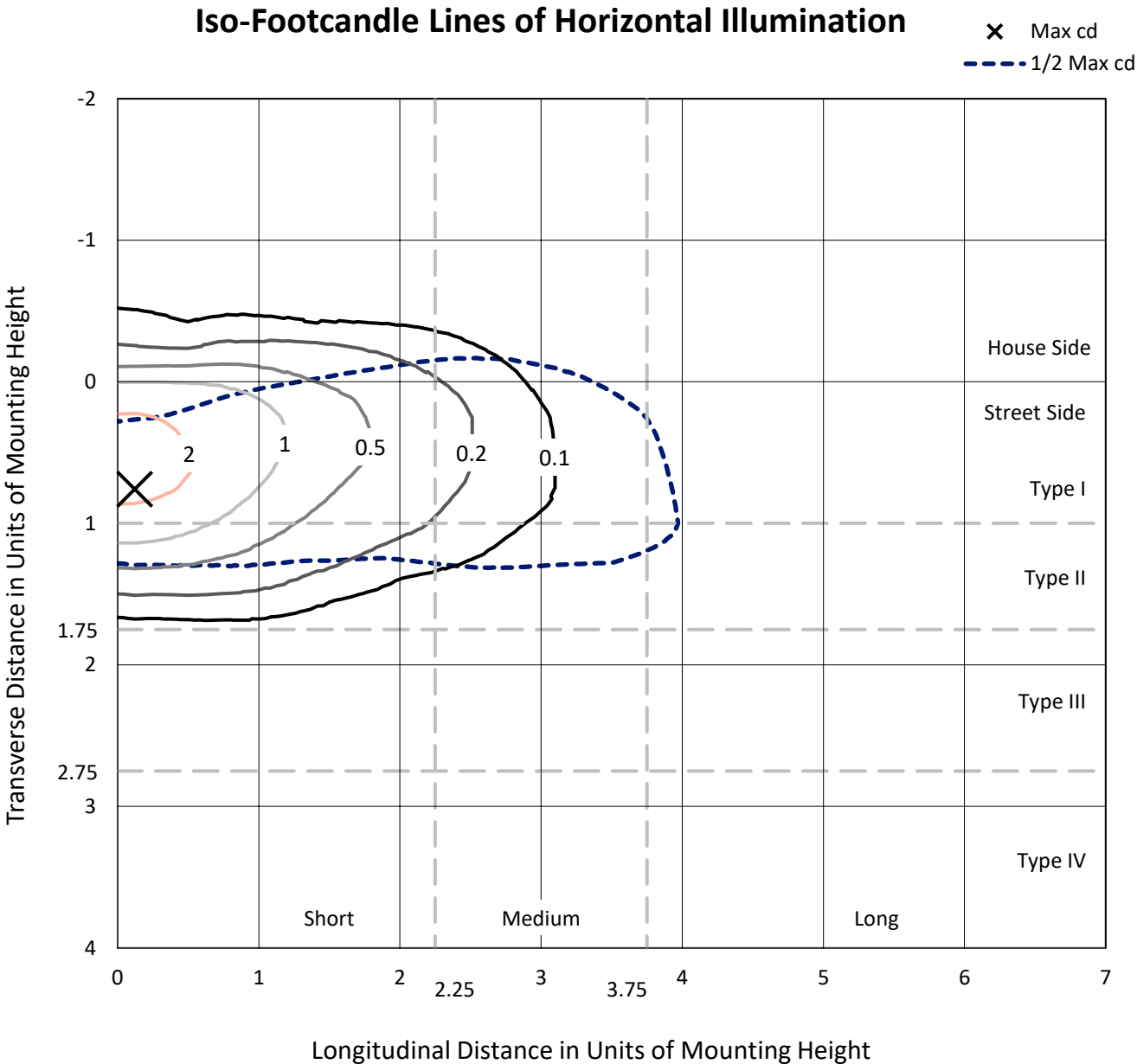
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4647 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43.8
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



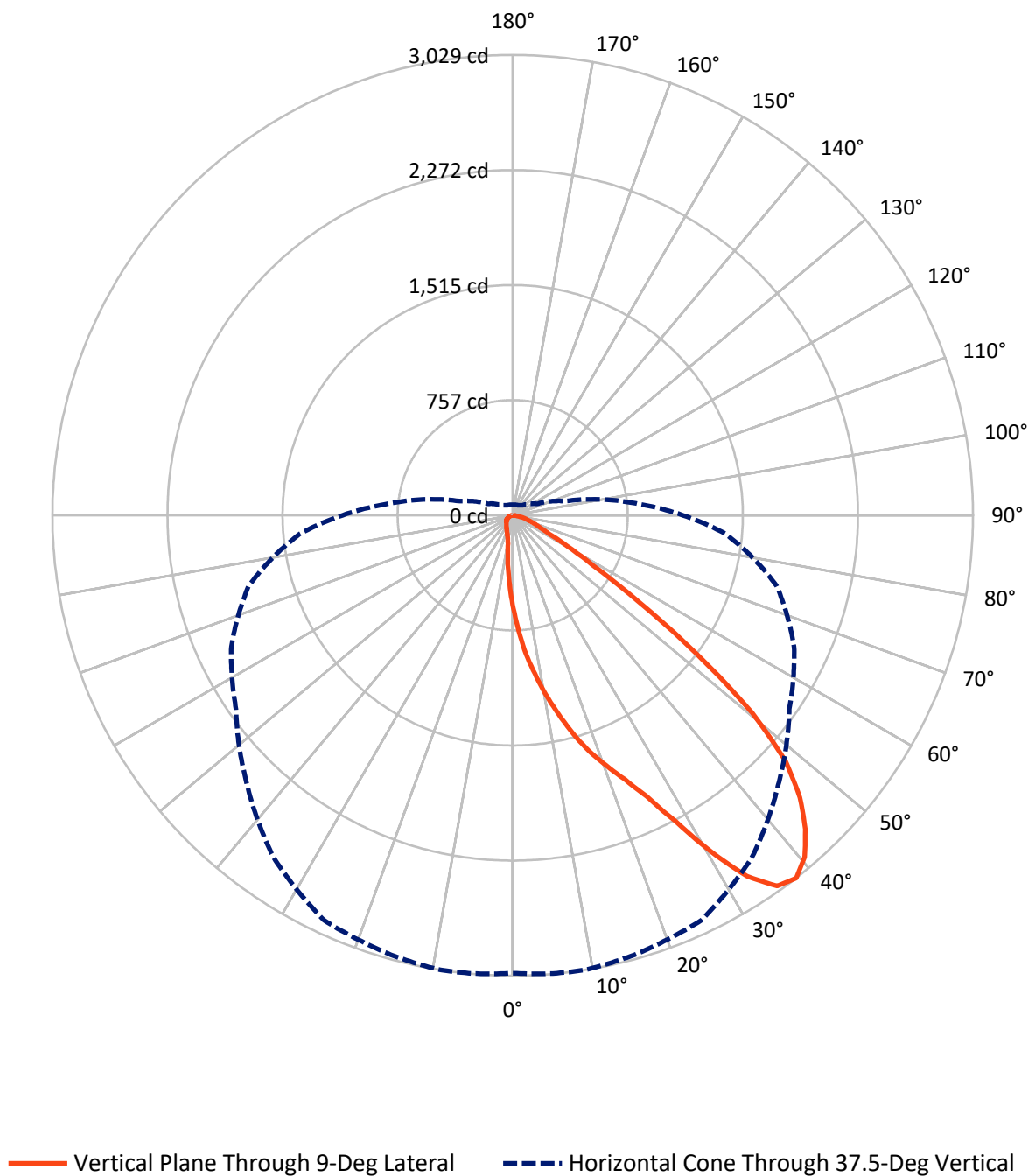
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Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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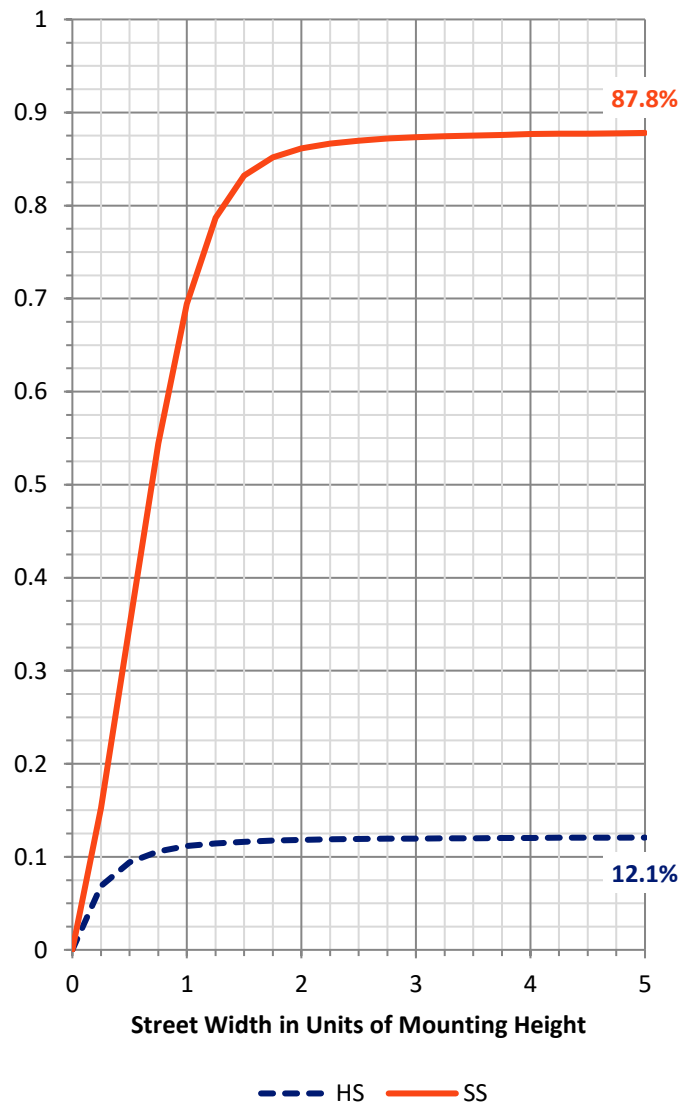
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	565.2	0.0	565.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	4081.8	0.0	4081.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	4647.0	0.0	4647.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	1.3
10°-20°	214.6	4.6
20°-30°	441.0	9.5
30°-40°	779.4	16.8
40°-50°	1035.4	22.3
50°-60°	982.0	21.1
60°-70°	749.2	16.1
70°-80°	363.2	7.8
80°-90°	20.5	0.4
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°	4647.0	100.0
0°-180°	4647.0	100.0

Coefficient of Utilization



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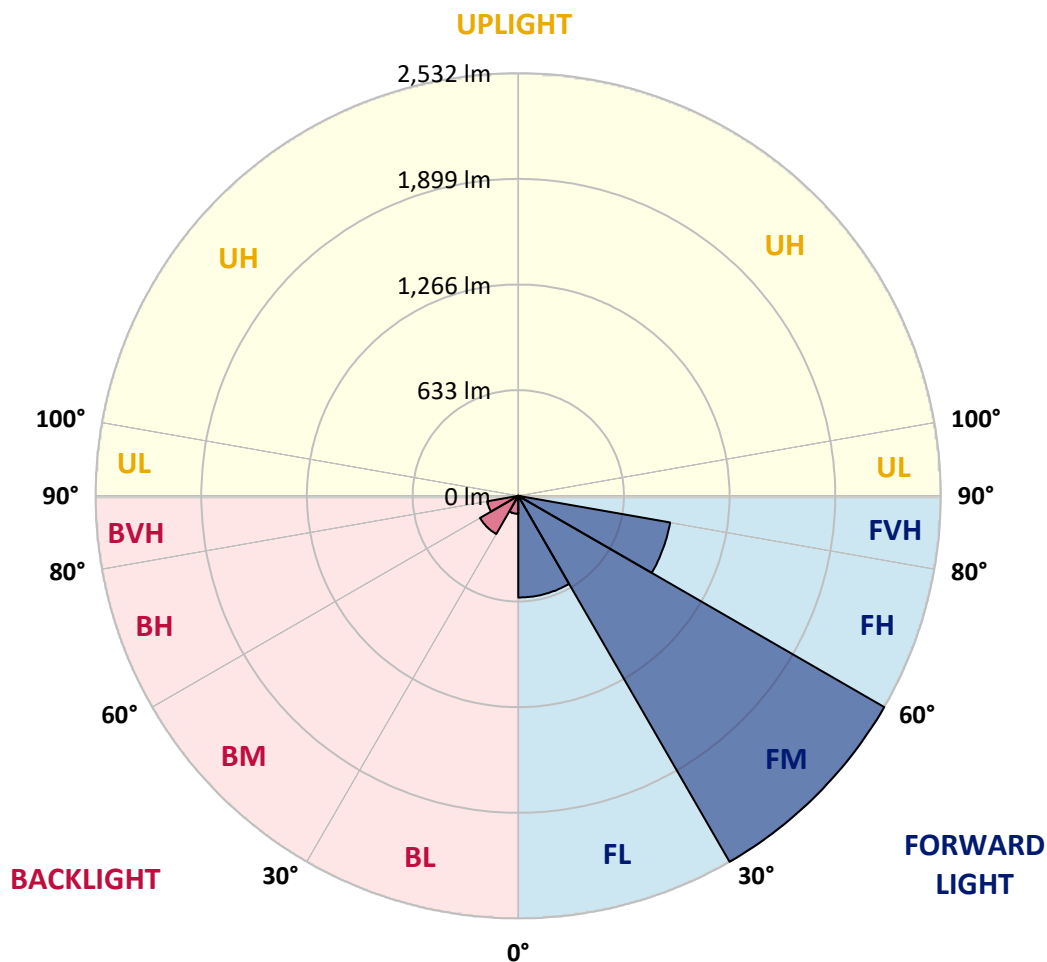
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	609.5	13.1			
FM	(30°-60°)	2532.4	54.5			
FH	(60°-80°)	923.8	19.9			G1/1800
FVH	(80°-90°)	16.2	0.3			G1/100
BL	(0°-30°)	107.9	2.3	B0/110		
BM	(30°-60°)	264.5	5.7	B1/1000		
BH	(60°-80°)	188.6	4.1	B1/500		G1/500
BVH	(80°-90°)	4.3	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3
2.5°	761.2	747.8	763.1	761.2	747.8	739.2	712.5	703.9	672.5	649.6	629.5
5°	917.6	904.2	917.6	913.8	894.7	873.7	829.8	801.2	745.0	695.4	650.5
7.5°	1047.3	1047.3	1053.0	1054.0	1031.1	998.7	944.3	901.4	822.2	745.9	674.4
10°	1187.5	1188.5	1200.9	1192.3	1161.8	1117.9	1049.2	994.9	899.5	799.3	697.3
12.5°	1337.3	1338.2	1342.1	1338.2	1302.0	1245.7	1162.7	1091.2	981.5	860.4	728.7
15°	1487.0	1488.0	1492.8	1486.1	1446.0	1380.2	1285.8	1198.0	1068.3	929.0	766.9
17.5°	1627.3	1629.2	1633.0	1624.4	1582.4	1504.2	1407.9	1302.0	1160.8	1002.5	809.8
20°	1753.2	1755.1	1757.9	1746.5	1704.5	1626.3	1522.3	1411.7	1255.3	1077.8	856.6
22.5°	1880.0	1881.9	1886.7	1871.4	1824.7	1735.0	1633.0	1518.5	1355.4	1160.8	910.9
25°	2042.2	2044.1	2047.9	2026.0	1962.1	1857.1	1749.4	1632.0	1464.2	1254.3	977.7
27.5°	2279.7	2277.8	2277.8	2237.7	2128.0	1991.6	1866.7	1747.4	1581.5	1354.5	1051.1
30°	2573.5	2568.7	2565.8	2511.5	2355.0	2143.3	1986.9	1855.2	1694.0	1460.3	1130.3
32.5°	2836.7	2836.7	2831.0	2773.8	2607.8	2347.4	2114.7	1960.2	1802.8	1567.2	1212.3
35°	2992.2	2998.9	2996.0	2953.1	2832.0	2566.8	2287.3	2086.1	1917.2	1678.8	1310.6
37.5°	3013.2	3026.6	3029.4	3003.7	2939.8	2746.1	2479.0	2222.5	2043.1	1799.0	1406.0
40°	2928.3	2956.9	2956.9	2953.1	2930.2	2831.0	2640.2	2380.8	2172.9	1923.9	1502.3
42.5°	2797.6	2827.2	2823.4	2837.7	2832.0	2811.0	2730.9	2528.6	2302.6	2052.7	1590.1
45°	2626.9	2657.4	2649.8	2675.5	2687.0	2709.9	2721.3	2631.7	2430.4	2192.9	1688.3
47.5°	2353.1	2404.6	2416.1	2461.9	2509.6	2581.1	2635.5	2668.9	2549.6	2343.6	1795.1
50°	1948.7	2021.2	2044.1	2140.4	2271.1	2419.0	2506.7	2623.1	2633.6	2498.1	1910.6
52.5°	1395.5	1479.4	1514.7	1673.0	1942.0	2199.6	2357.9	2522.0	2666.0	2646.0	2035.5
55°	902.3	973.9	1008.2	1157.0	1514.7	1919.1	2182.4	2391.3	2647.9	2781.4	2178.6
57.5°	556.1	597.1	620.0	747.8	1076.9	1559.5	1952.5	2271.1	2592.6	2898.7	2327.4
60°	374.9	398.7	410.2	470.2	731.6	1165.6	1636.8	2145.2	2520.1	2977.9	2462.8
62.5°	249.0	256.6	268.0	305.2	482.6	818.4	1257.2	1920.1	2465.7	2982.7	2563.0
65°	192.7	196.5	201.3	217.5	297.6	572.3	884.2	1555.7	2384.6	2881.6	2594.5
67.5°	151.7	155.5	161.2	169.8	215.6	388.2	601.9	1139.8	2218.6	2723.2	2543.0
70°	119.2	122.1	125.9	133.5	167.9	281.4	397.8	757.4	1883.8	2572.5	2380.8
72.5°	94.4	97.3	101.1	108.7	136.4	206.0	272.8	472.2	1452.7	2388.4	2068.9
75°	74.4	76.3	79.2	86.8	109.7	160.2	185.0	282.3	987.2	2051.7	1612.0
77.5°	37.2	45.8	52.5	60.1	80.1	110.6	123.0	156.4	416.8	1053.0	768.8
80°	21.9	26.7	28.6	33.4	52.5	66.8	66.8	63.0	131.6	404.4	313.8
82.5°	12.4	17.2	18.1	19.1	31.5	38.2	30.5	22.9	26.7	135.4	91.6
85°	3.8	5.7	6.7	7.6	10.5	11.4	10.5	9.5	7.6	13.4	8.6
87.5°	0.0	0.0	0.0	0.0	1.0	1.9	1.9	1.9	2.9	2.9	2.9
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°	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3
2.5°	618.1	605.7	581.8	559.9	538.9	523.7	509.4	496.0	486.5	478.8	477.9
5°	626.7	601.9	556.1	513.2	474.1	441.6	414.0	392.0	375.8	364.4	363.4
7.5°	638.1	600.0	530.3	466.4	408.2	361.5	321.4	291.9	270.9	262.3	255.6
10°	647.7	598.1	504.6	419.7	343.4	284.2	236.6	207.0	191.7	186.0	183.1
12.5°	663.9	600.0	482.6	376.8	287.1	217.5	181.2	165.0	158.3	153.6	152.6
15°	687.7	608.6	461.7	334.8	229.9	175.5	154.5	144.0	137.4	136.4	135.4
17.5°	711.6	616.2	442.6	291.9	190.8	152.6	138.3	129.7	125.0	124.0	124.0
20°	739.2	625.7	421.6	250.9	163.1	137.4	125.9	119.2	113.5	112.6	112.6
22.5°	771.7	639.1	401.6	214.6	145.0	125.9	116.4	108.7	104.0	103.0	103.0
25°	815.5	659.1	385.4	187.9	132.6	116.4	107.8	101.1	97.3	95.4	95.4
27.5°	864.2	686.8	373.9	171.7	124.0	108.7	100.2	94.4	90.6	88.7	88.7
30°	918.6	717.3	366.3	165.0	119.2	102.1	94.4	88.7	83.9	83.0	83.0
32.5°	978.6	752.6	361.5	166.0	118.3	97.3	88.7	83.0	79.2	77.3	77.3
35°	1045.4	791.7	358.6	171.7	120.2	93.5	83.9	78.2	74.4	72.5	72.5
37.5°	1119.8	837.5	358.6	177.4	125.0	92.5	79.2	73.4	70.6	68.7	68.7
40°	1189.4	886.1	362.5	184.1	129.7	92.5	75.4	70.6	66.8	64.9	64.9
42.5°	1243.8	913.8	365.3	190.8	132.6	91.6	71.5	66.8	63.9	62.0	62.0
45°	1305.8	943.4	359.6	193.6	132.6	89.7	68.7	63.9	61.0	59.1	59.1
47.5°	1374.5	979.6	358.6	195.5	129.7	85.8	65.8	61.0	59.1	57.2	57.2
50°	1444.1	1019.7	360.6	194.6	125.9	80.1	62.0	59.1	56.3	54.4	54.4
52.5°	1523.3	1061.6	364.4	192.7	117.3	73.4	59.1	56.3	53.4	51.5	50.6
55°	1611.0	1107.4	372.0	188.9	105.9	66.8	56.3	53.4	49.6	47.7	46.7
57.5°	1712.2	1163.7	380.6	181.2	93.5	61.0	53.4	49.6	43.9	41.0	40.1
60°	1808.5	1227.6	390.1	163.1	81.1	55.3	50.6	44.8	39.1	37.2	36.2
62.5°	1899.1	1290.6	394.9	130.7	68.7	50.6	47.7	41.0	35.3	33.4	32.4
65°	1957.3	1359.2	384.4	88.7	56.3	46.7	43.9	38.2	32.4	29.6	29.6
67.5°	1961.1	1391.7	348.2	58.2	45.8	42.0	40.1	34.3	28.6	26.7	25.8
70°	1864.8	1343.0	266.1	45.8	38.2	36.2	36.2	30.5	24.8	22.9	21.9
72.5°	1643.5	1189.4	169.8	37.2	32.4	30.5	30.5	25.8	21.9	19.1	18.1
75°	1297.2	917.6	90.6	30.5	26.7	25.8	23.8	21.0	18.1	16.2	15.3
77.5°	596.2	404.4	42.0	21.9	20.0	20.0	18.1	15.3	14.3	12.4	12.4
80°	235.6	137.4	21.0	14.3	13.4	13.4	13.4	10.5	10.5	8.6	7.6
82.5°	64.9	28.6	10.5	8.6	8.6	8.6	7.6	6.7	6.7	5.7	5.7
85°	6.7	4.8	4.8	4.8	4.8	3.8	3.8	2.9	1.9	1.9	1.9
87.5°	2.9	2.9	2.9	2.9	2.9	1.9	1.0	0.0	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)