

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: P842519

Luminaire Tested: **ARCH4-60-722-U-T4W-HSS**

Issue Date: 5/27/2024

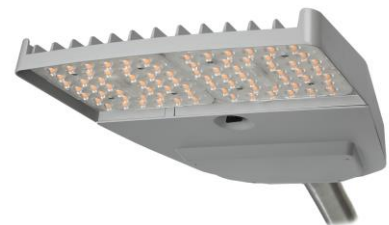
Test Information

Test Method: LM-79-08
Report Number: P842519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-60-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6702 lumens
Efficiency: N/A
Efficacy: 106.4 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): 63
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



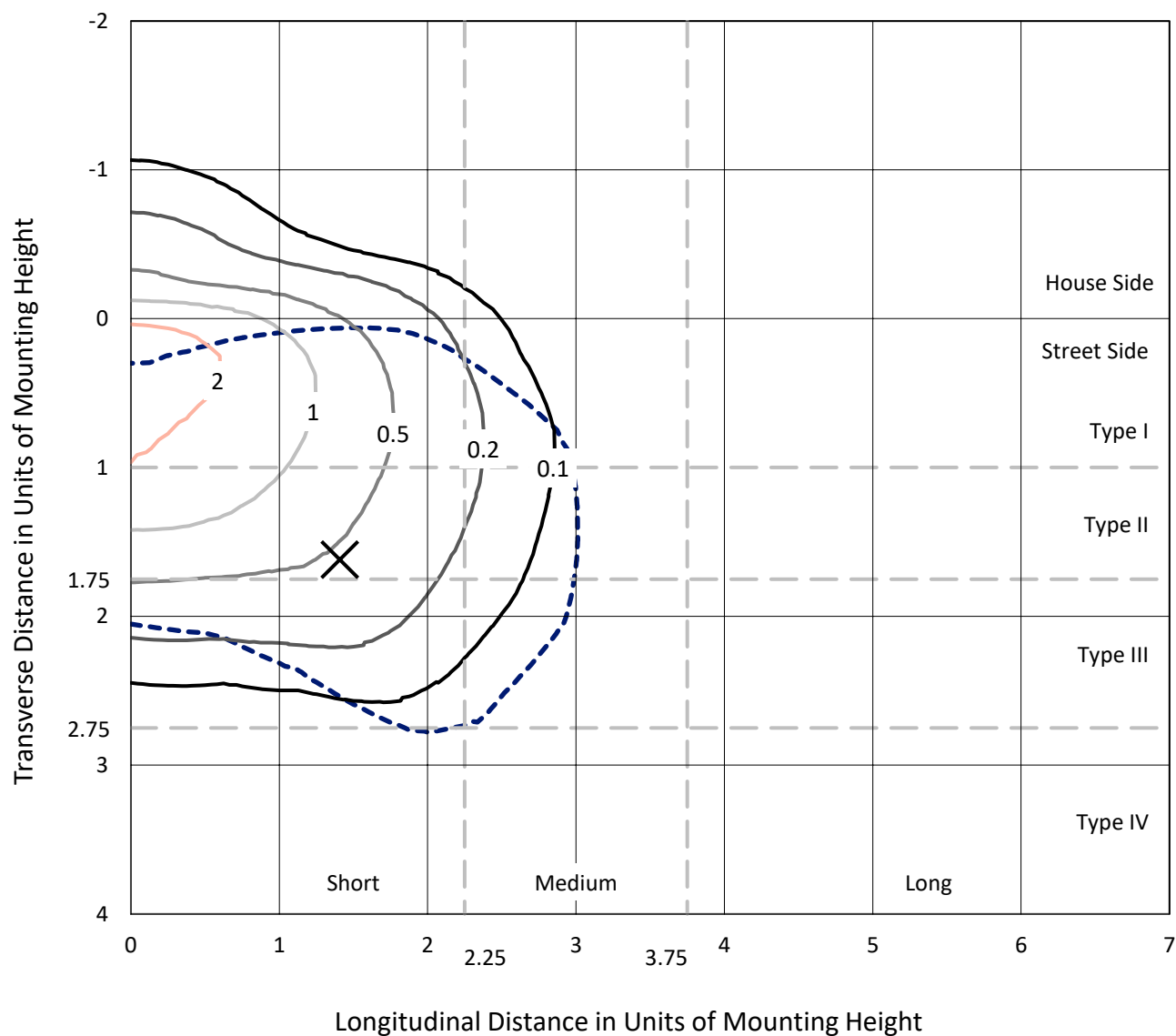
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

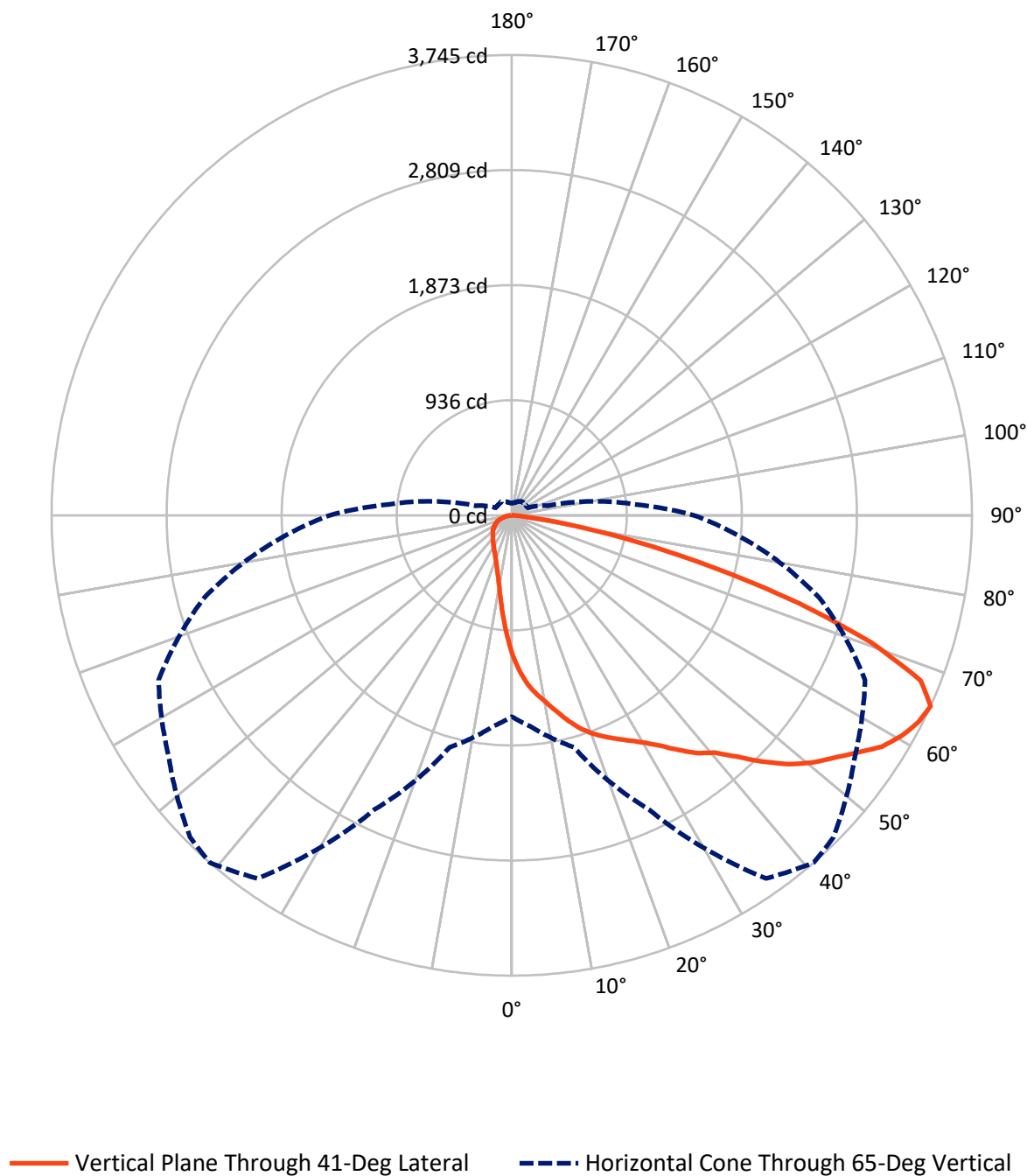


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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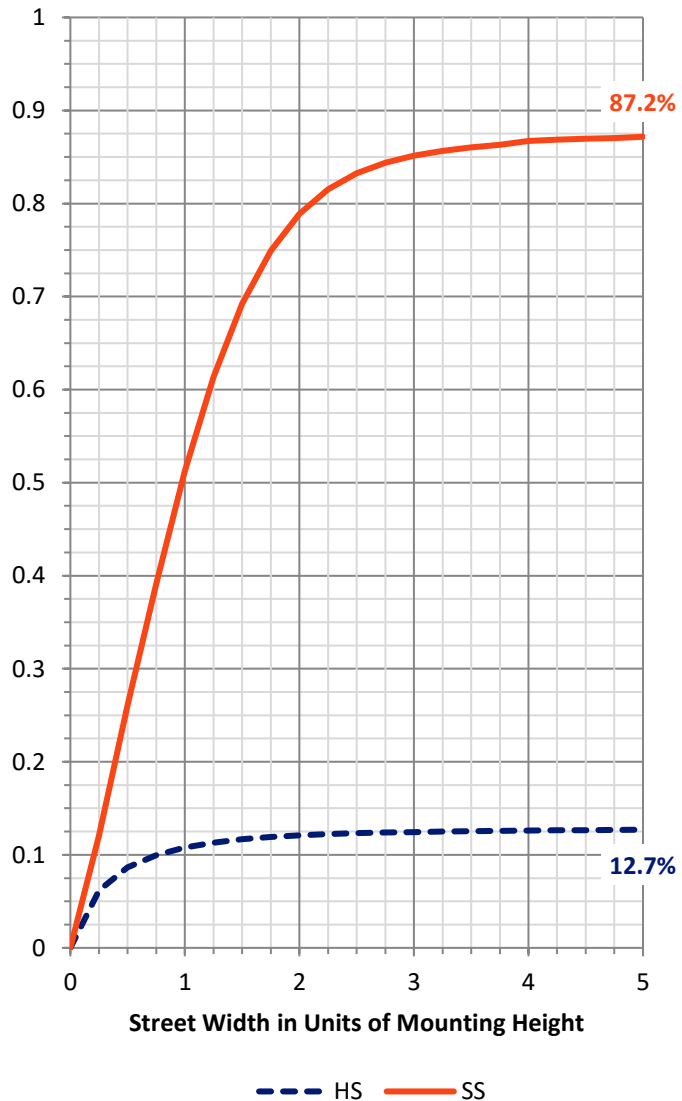
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	860.4	0.0	860.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	5841.6	0.0	5841.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	6702.0	0.0	6702.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	1.6
10°-20°	319.1	4.8
20°-30°	548.9	8.2
30°-40°	832.5	12.4
40°-50°	1219.6	18.2
50°-60°	1540.1	23.0
60°-70°	1444.1	21.5
70°-80°	643.6	9.6
80°-90°	47.7	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°	6702.0	100.0
0°-180°	6702.0	100.0

Coefficient of Utilization



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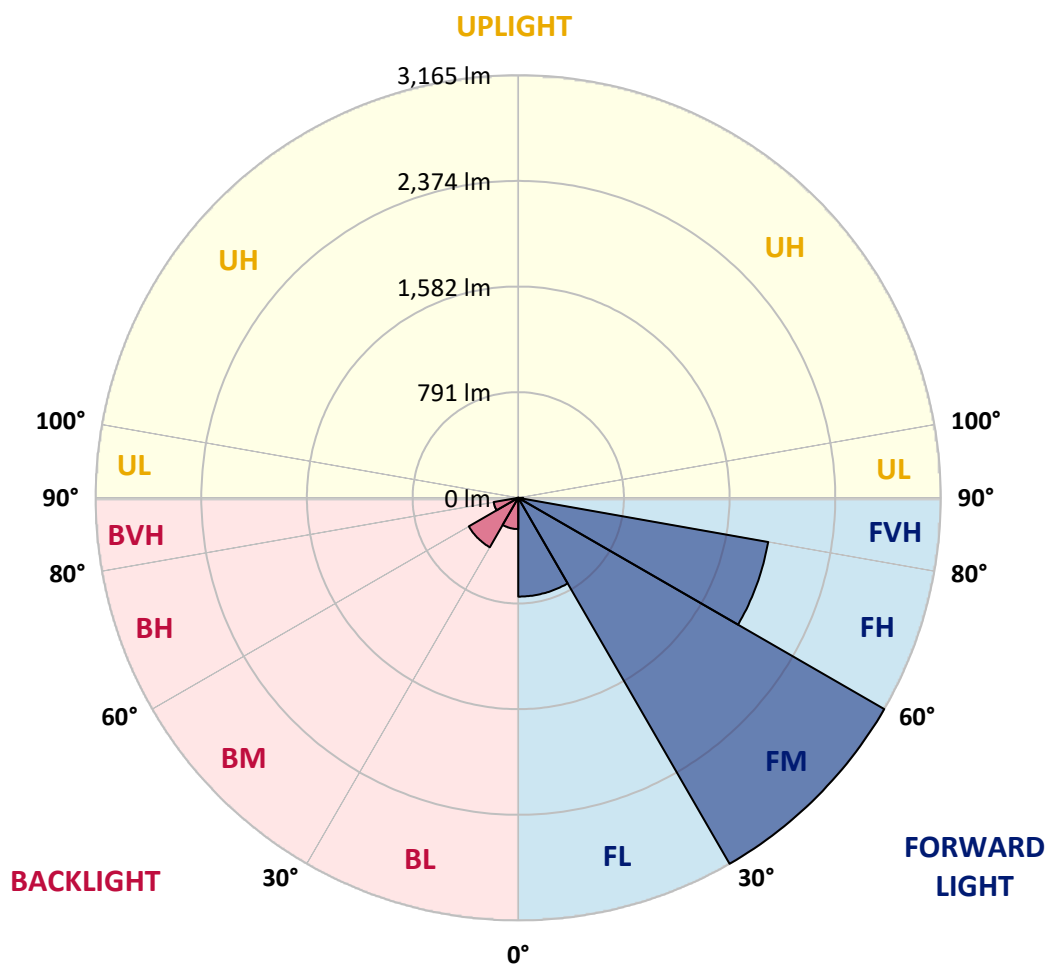
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	740.2	11.0			
FM	(30°-60°)	3164.9	47.2			
FH	(60°-80°)	1900.9	28.4			G2/5000
FVH	(80°-90°)	35.6	0.5			G1/100
BL	(0°-30°)	234.2	3.5	B1/500		
BM	(30°-60°)	427.2	6.4	B1/1000		
BH	(60°-80°)	186.9	2.8	B1/500		G1/500
BVH	(80°-90°)	12.1	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°	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0
2.5°	1317.2	1313.0	1310.2	1294.6	1294.6	1273.4	1274.8	1255.1	1231.0	1192.9	1151.9
5°	1441.6	1436.0	1428.9	1413.3	1407.7	1386.5	1383.7	1355.4	1314.4	1248.0	1174.5
7.5°	1550.4	1544.8	1534.9	1512.3	1496.7	1471.3	1464.2	1427.5	1382.3	1300.3	1197.1
10°	1649.4	1645.1	1632.4	1604.2	1583.0	1551.9	1539.1	1489.7	1433.1	1342.7	1215.5
12.5°	1749.7	1744.1	1727.1	1703.1	1677.6	1640.9	1625.4	1561.8	1489.7	1389.3	1242.3
15°	1843.0	1834.5	1821.8	1796.4	1773.8	1738.4	1721.5	1646.6	1558.9	1441.6	1277.7
17.5°	1903.8	1896.7	1885.4	1871.3	1852.9	1826.0	1809.1	1735.6	1628.2	1492.5	1314.4
20°	1940.5	1937.7	1933.5	1925.0	1916.5	1898.1	1885.4	1816.2	1703.1	1542.0	1349.7
22.5°	1968.8	1966.0	1964.6	1964.6	1966.0	1958.9	1950.4	1891.1	1775.2	1594.3	1382.3
25°	2012.6	2011.2	2008.4	2005.5	2015.4	2016.8	2014.0	1973.0	1865.6	1663.5	1423.2
27.5°	2073.4	2069.1	2063.5	2060.7	2070.6	2077.6	2083.3	2055.0	1961.7	1734.2	1469.9
30°	2166.7	2153.9	2139.8	2129.9	2137.0	2148.3	2161.0	2144.1	2060.7	1821.8	1517.9
32.5°	2276.9	2261.4	2228.9	2210.5	2228.9	2237.3	2247.2	2238.7	2163.8	1916.5	1566.0
35°	2411.2	2392.8	2358.9	2332.0	2364.5	2346.2	2341.9	2333.4	2261.4	2009.8	1619.7
37.5°	2634.5	2607.6	2553.9	2494.6	2494.6	2455.0	2439.4	2414.0	2349.0	2093.2	1672.0
40°	2893.1	2857.8	2788.5	2700.9	2620.3	2538.4	2528.5	2510.1	2452.2	2189.3	1731.4
42.5°	3177.2	3109.4	3013.3	2907.3	2777.2	2683.9	2661.3	2609.0	2552.5	2286.8	1790.7
45°	3492.4	3351.0	3211.1	3157.4	2942.6	2857.8	2815.4	2720.7	2657.1	2388.6	1852.9
47.5°	3543.3	3433.0	3339.7	3331.3	3096.6	3026.0	2977.9	2842.2	2770.2	2497.4	1917.9
50°	3515.0	3448.6	3458.5	3424.5	3209.7	3163.1	3126.3	2972.3	2881.8	2602.0	1977.3
52.5°	3396.3	3433.0	3489.6	3427.4	3317.1	3279.0	3260.6	3112.2	2986.4	2698.1	2031.0
55°	3254.9	3280.4	3401.9	3478.3	3441.5	3407.6	3390.6	3274.7	3089.6	2778.6	2080.4
57.5°	3048.6	3037.3	3171.6	3469.8	3571.5	3551.7	3533.4	3434.4	3185.7	2836.6	2111.5
60°	2739.1	2715.0	2884.6	3300.2	3613.9	3645.0	3636.5	3540.4	3259.2	2835.2	2098.8
62.5°	2203.4	2262.8	2497.4	3023.2	3632.3	3711.5	3695.9	3548.9	3283.2	2753.2	2018.3
65°	1638.1	1722.9	1953.2	2641.5	3606.9	3745.4	3703.0	3410.4	3171.6	2590.7	1841.6
67.5°	1180.1	1255.1	1423.2	2173.7	3362.4	3589.9	3540.4	3184.3	2914.3	2360.3	1597.1
70°	807.0	860.7	975.2	1583.0	2870.5	3103.7	3072.6	2846.5	2508.7	2086.1	1297.5
72.5°	569.6	592.2	665.7	1044.5	2180.8	2435.2	2398.5	2341.9	2015.4	1734.2	1009.1
75°	426.8	441.0	480.5	675.6	1471.3	1687.5	1653.6	1686.1	1505.2	1313.0	734.9
77.5°	161.1	175.3	272.8	431.1	870.6	1036.0	1002.1	1021.9	836.7	662.9	366.1
80°	43.8	46.6	90.5	204.9	395.7	515.9	469.2	402.8	310.9	305.3	193.6
82.5°	18.4	21.2	41.0	110.2	141.3	141.3	118.7	147.0	118.7	142.7	93.3
85°	7.1	8.5	9.9	28.3	18.4	19.8	21.2	28.3	24.0	29.7	21.2
87.5°	0.0	0.0	0.0	1.4	1.4	2.8	1.4	2.8	4.2	4.2	4.2
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°	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0	1142.0
2.5°	1134.9	1119.4	1096.8	1060.0	1021.9	1000.7	973.8	969.6	941.3	938.5	927.2
5°	1142.0	1109.5	1051.5	980.9	911.6	857.9	818.3	797.1	756.1	756.1	744.8
7.5°	1147.6	1096.8	1003.5	898.9	804.2	732.1	678.4	655.8	619.0	616.2	607.7
10°	1149.1	1081.2	951.2	815.5	699.6	626.1	573.8	548.4	515.9	513.0	507.4
12.5°	1160.4	1072.7	904.5	743.4	624.7	545.6	494.7	473.5	448.0	445.2	439.6
15°	1178.7	1072.7	865.0	682.6	558.3	484.8	441.0	421.2	402.8	400.0	397.2
17.5°	1197.1	1069.9	825.4	626.1	503.2	436.7	398.6	383.0	368.9	367.5	364.6
20°	1214.1	1068.5	785.8	578.1	460.8	397.2	367.5	353.3	342.0	342.0	340.6
22.5°	1231.0	1065.7	747.7	532.8	424.0	367.5	342.0	326.5	318.0	318.0	316.6
25°	1256.5	1065.7	712.3	494.7	394.3	344.9	319.4	308.1	301.0	299.6	299.6
27.5°	1286.1	1074.1	681.2	460.8	368.9	322.2	302.5	291.1	282.7	279.8	281.3
30°	1318.7	1081.2	653.0	431.1	344.9	305.3	284.1	272.8	264.3	261.5	262.9
32.5°	1351.2	1089.7	627.5	404.2	320.8	289.7	268.5	255.8	247.3	245.9	245.9
35°	1386.5	1098.2	602.1	381.6	301.0	274.2	254.4	240.3	234.6	231.8	233.2
37.5°	1421.8	1112.3	578.1	360.4	286.9	260.1	241.7	227.5	223.3	221.9	221.9
40°	1464.2	1133.5	568.2	346.3	274.2	247.3	231.8	217.7	213.4	213.4	213.4
42.5°	1499.6	1150.5	559.7	330.7	264.3	236.0	221.9	210.6	207.8	206.3	207.8
45°	1534.9	1166.0	548.4	316.6	251.6	224.7	213.4	202.1	199.3	199.3	199.3
47.5°	1570.2	1174.5	532.8	302.5	240.3	214.8	204.9	195.0	192.2	192.2	192.2
50°	1598.5	1181.6	510.2	286.9	227.5	206.3	196.5	186.6	183.7	183.7	183.7
52.5°	1626.8	1183.0	486.2	268.5	214.8	196.5	188.0	178.1	175.3	173.8	173.8
55°	1652.2	1181.6	457.9	247.3	200.7	185.1	178.1	169.6	163.9	158.3	161.1
57.5°	1670.6	1180.1	425.4	226.1	186.6	173.8	171.0	159.7	148.4	134.3	137.1
60°	1663.5	1164.6	390.1	199.3	171.0	162.5	162.5	147.0	127.2	120.1	121.5
62.5°	1618.3	1120.8	353.3	171.0	155.5	151.2	149.8	132.9	117.3	110.2	111.7
65°	1482.6	1010.5	299.6	145.6	139.9	138.5	138.5	123.0	108.8	100.3	101.8
67.5°	1276.3	848.0	244.5	123.0	124.4	127.2	127.2	113.1	98.9	90.5	91.9
70°	1023.3	662.9	195.0	106.0	107.4	111.7	114.5	101.8	89.0	80.6	80.6
72.5°	770.3	503.2	156.9	89.0	96.1	96.1	100.3	90.5	77.7	69.3	70.7
75°	558.3	360.4	124.4	74.9	83.4	82.0	82.0	76.3	66.4	60.8	60.8
77.5°	264.3	189.4	98.9	53.7	65.0	63.6	65.0	60.8	56.5	50.9	52.3
80°	130.0	93.3	63.6	38.2	45.2	46.6	50.9	48.1	46.6	42.4	42.4
82.5°	62.2	36.7	29.7	26.9	31.1	32.5	35.3	35.3	36.7	33.9	33.9
85°	17.0	9.9	12.7	17.0	19.8	21.2	24.0	25.4	25.4	24.0	25.4
87.5°	4.2	4.2	5.7	8.5	9.9	11.3	12.7	12.7	5.7	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)