

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: P842681

Luminaire Tested: **ARCH4-80-730-U-T4W-HSS**

Issue Date: 5/27/2024

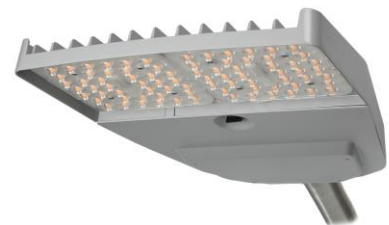
Test Information

Test Method: LM-79-08
Report Number: P842681
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: ARCH4-80-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 685mA 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: 9979 lumens
Efficiency: N/A
Efficacy: 119.7 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): 83.4
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



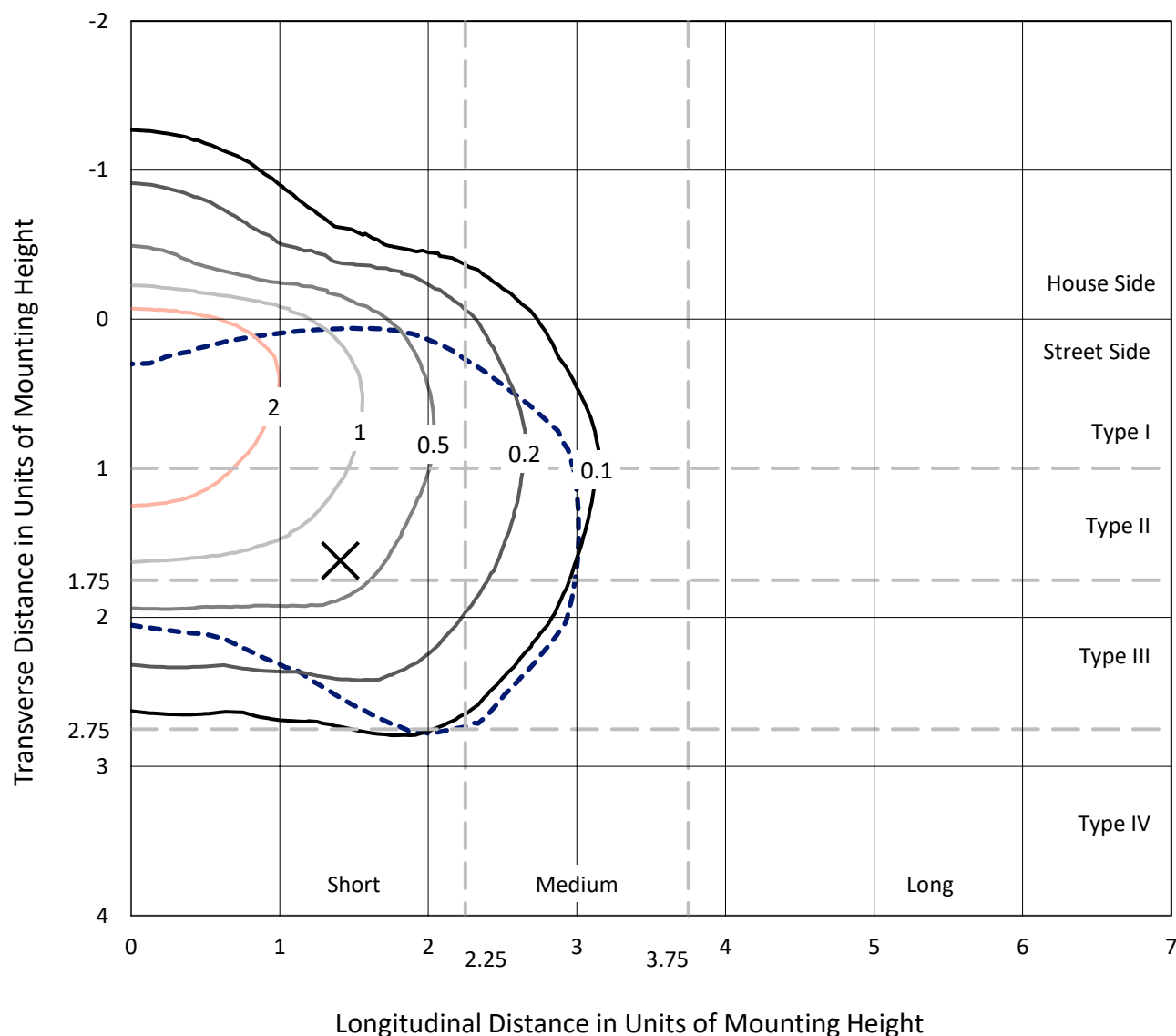
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

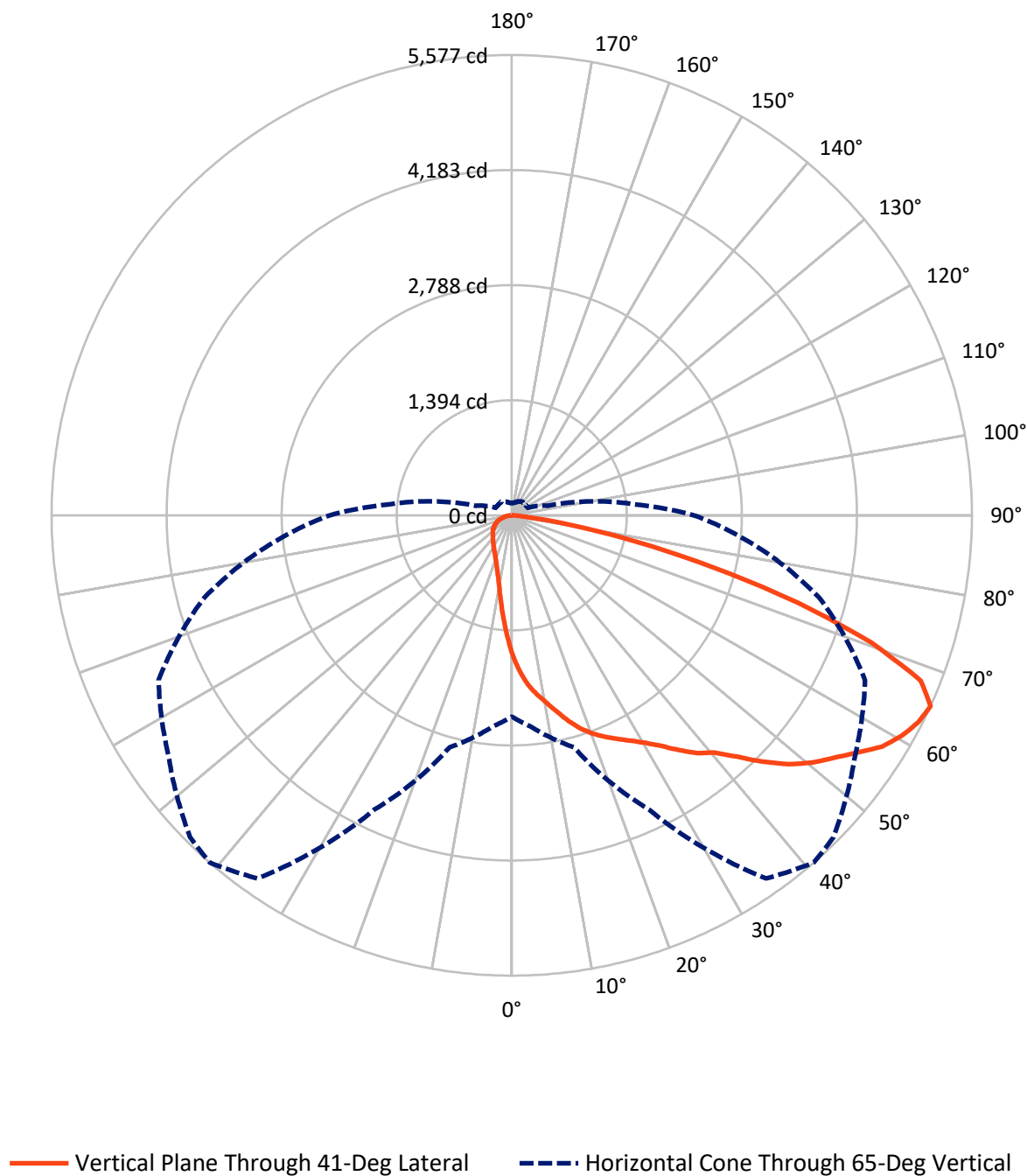


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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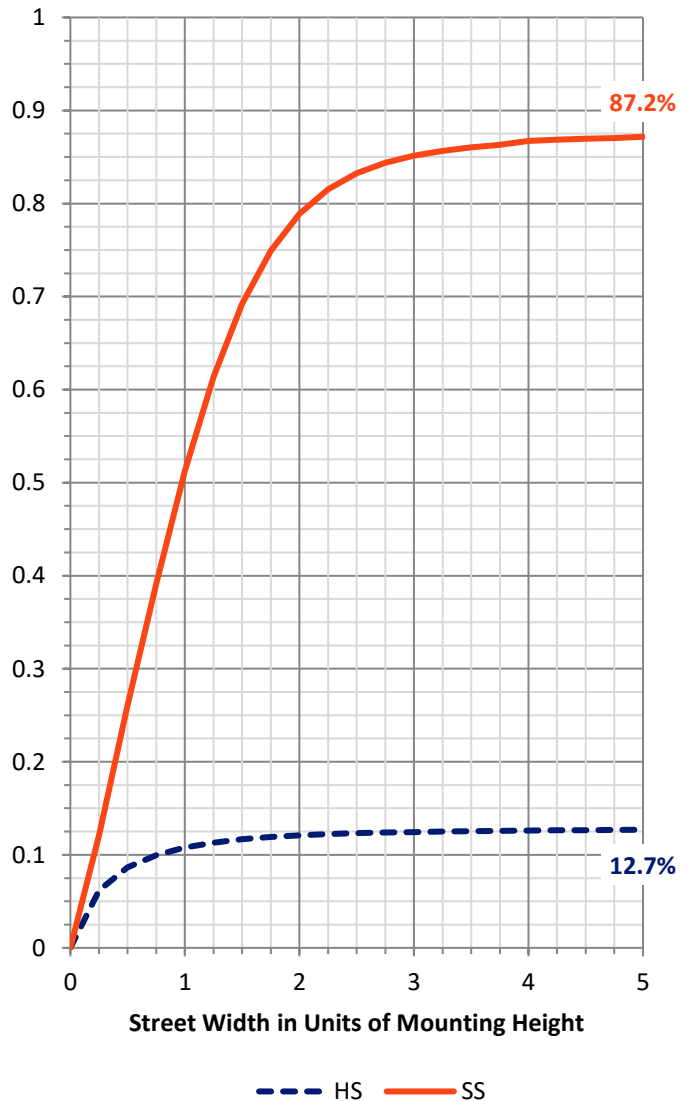
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1281.1	0.0	1281.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	8697.9	0.0	8697.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	9979.0	0.0	9979.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	1.6
10°-20°	475.1	4.8
20°-30°	817.3	8.2
30°-40°	1239.5	12.4
40°-50°	1815.9	18.2
50°-60°	2293.1	23.0
60°-70°	2150.3	21.5
70°-80°	958.4	9.6
80°-90°	71.0	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°	9979.0	100.0
0°-180°	9979.0	100.0

Coefficient of Utilization



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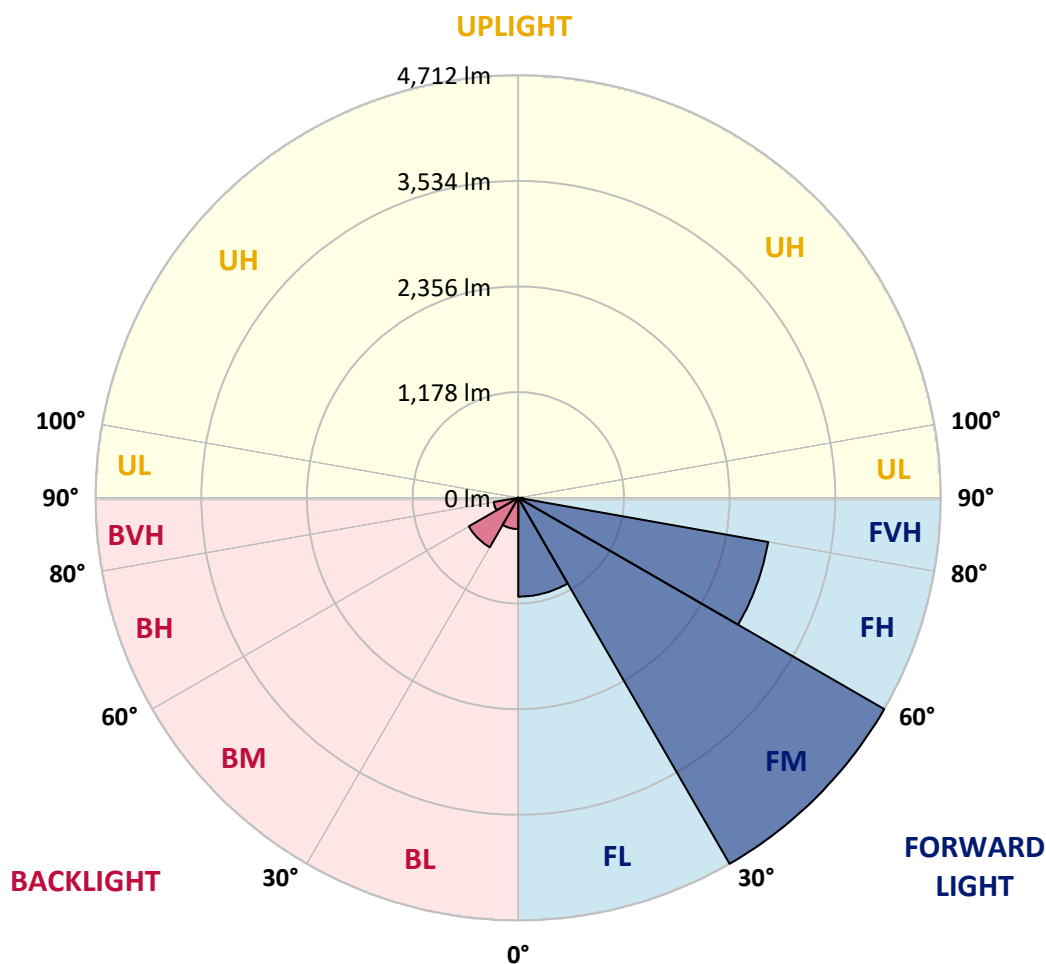
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1102.1	11.0			
FM	(30°-60°)	4712.5	47.2			
FH	(60°-80°)	2830.3	28.4			G2/5000
FVH	(80°-90°)	53.0	0.5			G1/100
BL	(0°-30°)	348.7	3.5	B1/500		
BM	(30°-60°)	636.2	6.4	B1/1000		
BH	(60°-80°)	278.3	2.8	B1/500		G1/500
BVH	(80°-90°)	18.0	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°	1700.4	1700.4	1700.4	1700.4	1700.4	1700.4	1700.4	1700.4	1700.4	1700.4	1700.4
2.5°	1961.3	1955.0	1950.8	1927.6	1927.6	1896.1	1898.2	1868.7	1832.9	1776.1	1715.1
5°	2146.5	2138.1	2127.6	2104.4	2096.0	2064.4	2060.2	2018.1	1957.1	1858.2	1748.8
7.5°	2308.5	2300.1	2285.4	2251.7	2228.6	2190.7	2180.2	2125.5	2058.1	1936.1	1782.4
10°	2455.9	2449.5	2430.6	2388.5	2356.9	2310.7	2291.7	2218.1	2133.9	1999.2	1809.8
12.5°	2605.3	2596.9	2571.6	2535.8	2497.9	2443.2	2420.1	2325.4	2218.1	2068.6	1849.8
15°	2744.2	2731.5	2712.6	2674.7	2641.0	2588.4	2563.2	2451.6	2321.2	2146.5	1902.4
17.5°	2834.7	2824.1	2807.3	2786.2	2758.9	2718.9	2693.7	2584.2	2424.3	2222.3	1957.1
20°	2889.4	2885.2	2878.8	2866.2	2853.6	2826.2	2807.3	2704.2	2535.8	2295.9	2009.7
22.5°	2931.5	2927.2	2925.1	2925.1	2927.2	2916.7	2904.1	2815.7	2643.1	2373.8	2058.1
25°	2996.7	2994.6	2990.4	2986.2	3000.9	3003.0	2998.8	2937.8	2777.8	2476.9	2119.1
27.5°	3087.2	3080.9	3072.4	3068.2	3083.0	3093.5	3101.9	3059.8	2920.9	2582.1	2188.6
30°	3226.1	3207.1	3186.1	3171.4	3181.9	3198.7	3217.7	3192.4	3068.2	2712.6	2260.1
32.5°	3390.2	3367.1	3318.7	3291.3	3318.7	3331.3	3346.0	3333.4	3221.9	2853.6	2331.7
35°	3590.1	3562.8	3512.3	3472.3	3520.7	3493.3	3487.0	3474.4	3367.1	2992.5	2411.7
37.5°	3922.6	3882.7	3802.7	3714.3	3714.3	3655.4	3632.2	3594.3	3497.5	3116.6	2489.5
40°	4307.7	4255.1	4152.0	4021.5	3901.6	3779.5	3764.8	3737.4	3651.2	3259.7	2577.9
42.5°	4730.7	4629.7	4486.6	4328.8	4135.2	3996.3	3962.6	3884.8	3800.6	3404.9	2666.3
45°	5200.0	4989.6	4781.2	4701.3	4381.4	4255.1	4192.0	4051.0	3956.3	3556.5	2758.9
47.5°	5275.8	5111.6	4972.7	4960.1	4610.8	4505.6	4434.0	4232.0	4124.7	3718.5	2855.7
50°	5233.7	5134.8	5149.5	5099.0	4779.1	4709.7	4655.0	4425.6	4290.9	3874.2	2944.1
52.5°	5056.9	5111.6	5195.8	5103.2	4939.1	4882.2	4854.9	4633.9	4446.6	4017.3	3024.0
55°	4846.5	4884.4	5065.3	5179.0	5124.3	5073.8	5048.5	4875.9	4600.3	4137.3	3097.7
57.5°	4539.2	4522.4	4722.3	5166.3	5317.9	5288.4	5261.0	5113.7	4743.4	4223.6	3144.0
60°	4078.4	4042.6	4295.1	4913.8	5381.0	5427.3	5414.7	5271.6	4852.8	4221.5	3125.1
62.5°	3280.8	3369.2	3718.5	4501.3	5408.4	5526.2	5503.1	5284.2	4888.6	4099.4	3005.1
65°	2439.0	2565.3	2908.3	3933.2	5370.5	5576.7	5513.6	5078.0	4722.3	3857.4	2742.1
67.5°	1757.2	1868.7	2119.1	3236.6	5006.4	5345.2	5271.6	4741.3	4339.3	3514.4	2378.0
70°	1201.6	1281.6	1452.0	2356.9	4274.1	4621.3	4575.0	4238.3	3735.3	3106.1	1931.9
72.5°	848.1	881.8	991.2	1555.2	3247.1	3625.9	3571.2	3487.0	3000.9	2582.1	1502.6
75°	635.5	656.6	715.5	1005.9	2190.7	2512.7	2462.2	2510.6	2241.2	1955.0	1094.3
77.5°	239.9	260.9	406.2	641.8	1296.3	1542.5	1492.0	1521.5	1245.8	987.0	545.0
80°	65.2	69.4	134.7	305.1	589.2	768.1	698.7	599.8	463.0	454.6	288.3
82.5°	27.4	31.6	61.0	164.1	210.4	210.4	176.8	218.9	176.8	212.5	138.9
85°	10.5	12.6	14.7	42.1	27.4	29.5	31.6	42.1	35.8	44.2	31.6
87.5°	0.0	0.0	0.0	2.1	2.1	4.2	2.1	4.2	6.3	6.3	6.3
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°	1700.4	1700.4	1700.4	1700.4	1700.4	1700.4	1700.4	1700.4	1700.4	1700.4	1700.4
2.5°	1689.8	1666.7	1633.0	1578.3	1521.5	1489.9	1449.9	1443.6	1401.5	1397.3	1380.5
5°	1700.4	1652.0	1565.7	1460.5	1357.3	1277.4	1218.5	1186.9	1125.9	1125.9	1109.0
7.5°	1708.8	1633.0	1494.1	1338.4	1197.4	1090.1	1010.1	976.4	921.7	917.5	904.9
10°	1710.9	1609.9	1416.3	1214.2	1041.7	932.3	854.4	816.5	768.1	763.9	755.5
12.5°	1727.7	1597.3	1346.8	1106.9	930.2	812.3	736.5	705.0	667.1	662.9	654.5
15°	1755.1	1597.3	1287.9	1016.4	831.2	721.8	656.6	627.1	599.8	595.6	591.3
17.5°	1782.4	1593.0	1229.0	932.3	749.2	650.3	593.4	570.3	549.3	547.1	542.9
20°	1807.7	1590.9	1170.1	860.7	686.0	591.3	547.1	526.1	509.3	509.3	507.2
22.5°	1832.9	1586.7	1113.2	793.4	631.3	547.1	509.3	486.1	473.5	473.5	471.4
25°	1870.8	1586.7	1060.6	736.5	587.1	513.5	475.6	458.8	448.2	446.1	446.1
27.5°	1915.0	1599.4	1014.3	686.0	549.3	479.8	450.3	433.5	420.9	416.7	418.8
30°	1963.4	1609.9	972.2	641.8	513.5	454.6	423.0	406.2	393.5	389.3	391.4
32.5°	2011.8	1622.5	934.4	601.9	477.7	431.4	399.8	380.9	368.3	366.2	366.2
35°	2064.4	1635.1	896.5	568.2	448.2	408.3	378.8	357.8	349.3	345.1	347.2
37.5°	2117.0	1656.2	860.7	536.6	427.2	387.2	359.9	338.8	332.5	330.4	330.4
40°	2180.2	1687.7	846.0	515.6	408.3	368.3	345.1	324.1	317.8	317.8	317.8
42.5°	2232.8	1713.0	833.3	492.4	393.5	351.4	330.4	313.6	309.3	307.2	309.3
45°	2285.4	1736.1	816.5	471.4	374.6	334.6	317.8	300.9	296.7	296.7	296.7
47.5°	2338.0	1748.8	793.4	450.3	357.8	319.9	305.1	290.4	286.2	286.2	286.2
50°	2380.1	1759.3	759.7	427.2	338.8	307.2	292.5	277.8	273.6	273.6	273.6
52.5°	2422.2	1761.4	723.9	399.8	319.9	292.5	279.9	265.2	260.9	258.8	258.8
55°	2460.1	1759.3	681.8	368.3	298.8	275.7	265.2	252.5	244.1	235.7	239.9
57.5°	2487.4	1757.2	633.4	336.7	277.8	258.8	254.6	237.8	221.0	199.9	204.1
60°	2476.9	1734.0	580.8	296.7	254.6	242.0	242.0	218.9	189.4	178.9	181.0
62.5°	2409.6	1668.8	526.1	254.6	231.5	225.2	223.1	197.8	174.7	164.1	166.2
65°	2207.5	1504.7	446.1	216.8	208.3	206.2	206.2	183.1	162.0	149.4	151.5
67.5°	1900.3	1262.7	364.1	183.1	185.2	189.4	189.4	168.4	147.3	134.7	136.8
70°	1523.6	987.0	290.4	157.8	159.9	166.2	170.5	151.5	132.6	120.0	120.0
72.5°	1146.9	749.2	233.6	132.6	143.1	143.1	149.4	134.7	115.7	103.1	105.2
75°	831.2	536.6	185.2	111.5	124.2	122.1	122.1	113.6	98.9	90.5	90.5
77.5°	393.5	282.0	147.3	80.0	96.8	94.7	96.8	90.5	84.2	75.8	77.9
80°	193.6	138.9	94.7	56.8	67.3	69.4	75.8	71.6	69.4	63.1	63.1
82.5°	92.6	54.7	44.2	40.0	46.3	48.4	52.6	52.6	54.7	50.5	50.5
85°	25.3	14.7	18.9	25.3	29.5	31.6	35.8	37.9	37.9	35.8	37.9
87.5°	6.3	6.3	8.4	12.6	14.7	16.8	18.9	18.9	8.4	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)