

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: P799380

Luminaire Tested: **ARCH2-110-730-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

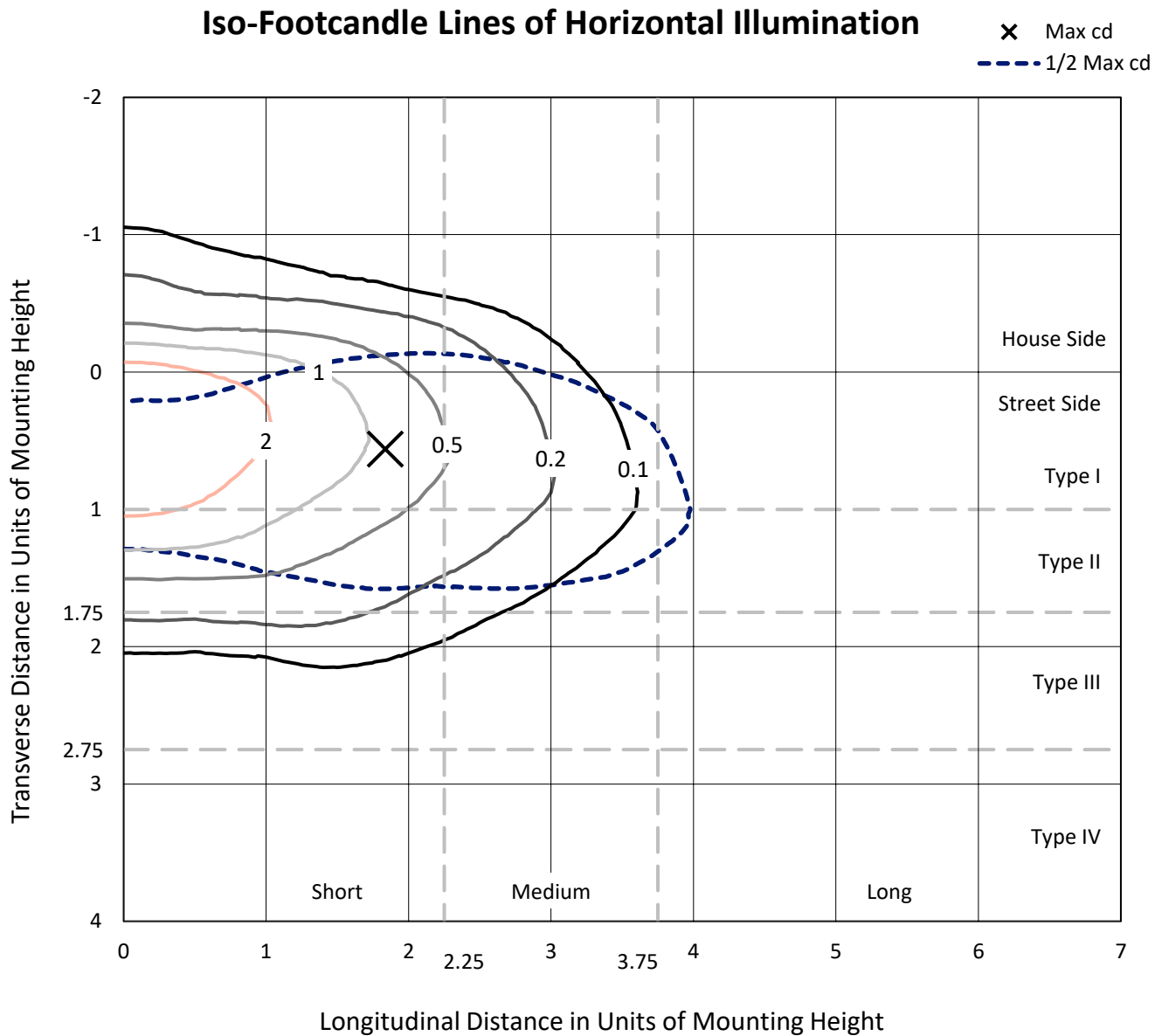
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8771 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 109.5
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

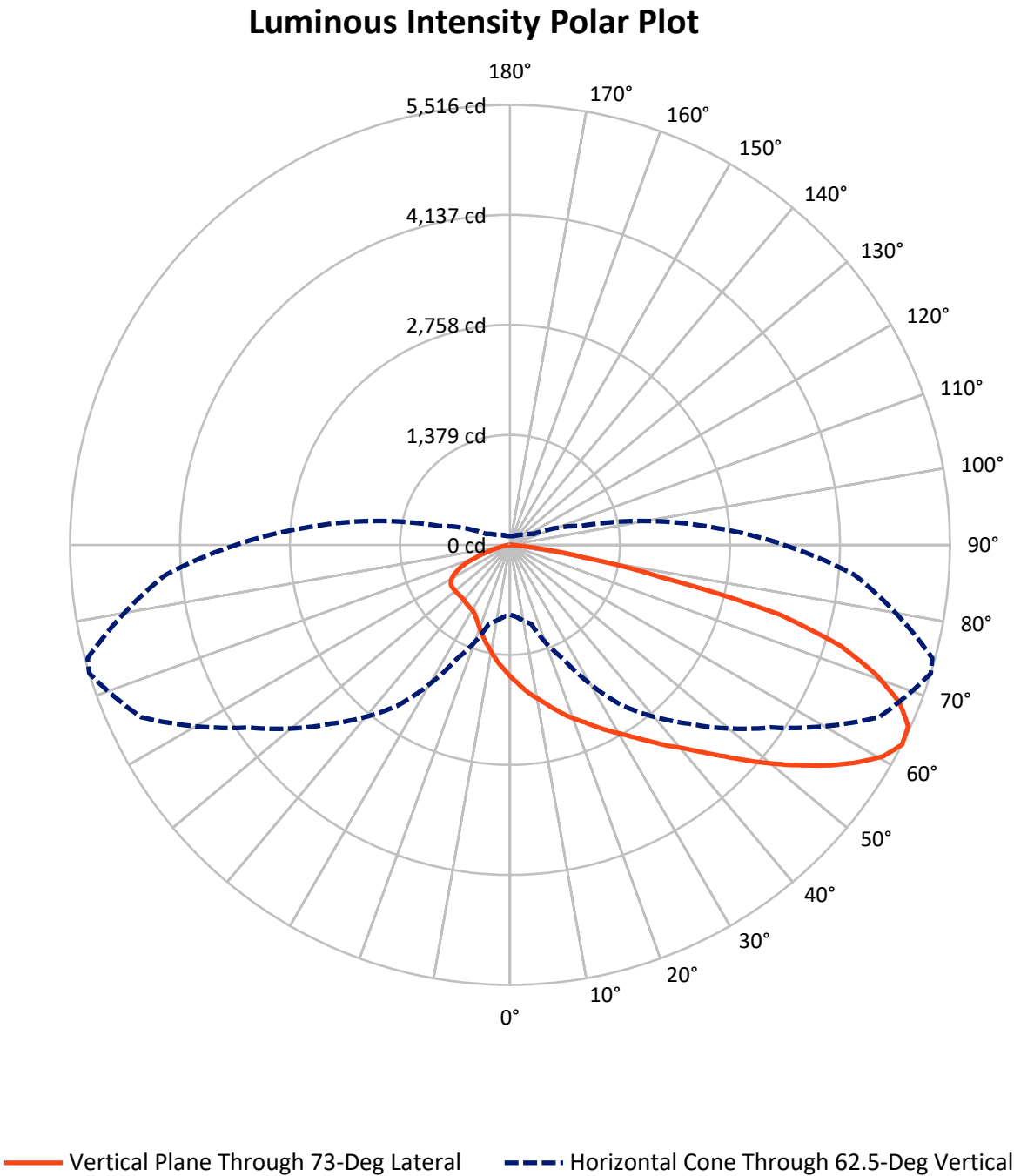


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Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type II - Short - N/A

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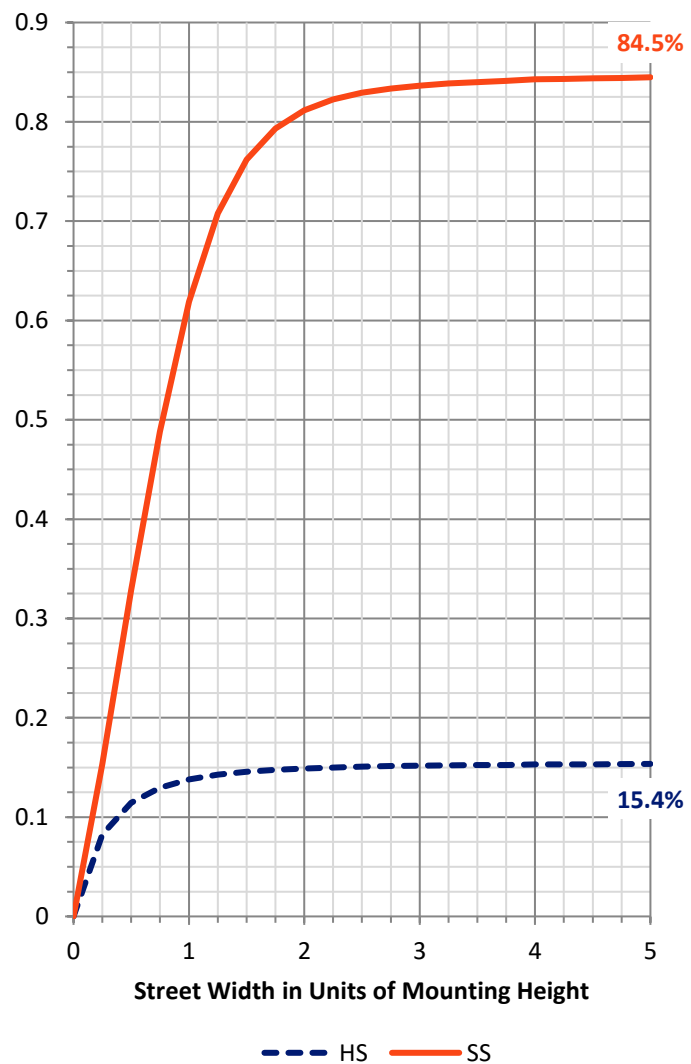
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1359.6	0.0	1359.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	7411.4	0.0	7411.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	8771.0	0.0	8771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	1.8
10°-20°	484.1	5.5
20°-30°	805.9	9.2
30°-40°	1215.9	13.9
40°-50°	1699.6	19.4
50°-60°	1877.3	21.4
60°-70°	1635.4	18.6
70°-80°	826.1	9.4
80°-90°	66.3	0.8
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°	8771.0	100.0
0°-180°	8771.0	100.0

Coefficient of Utilization



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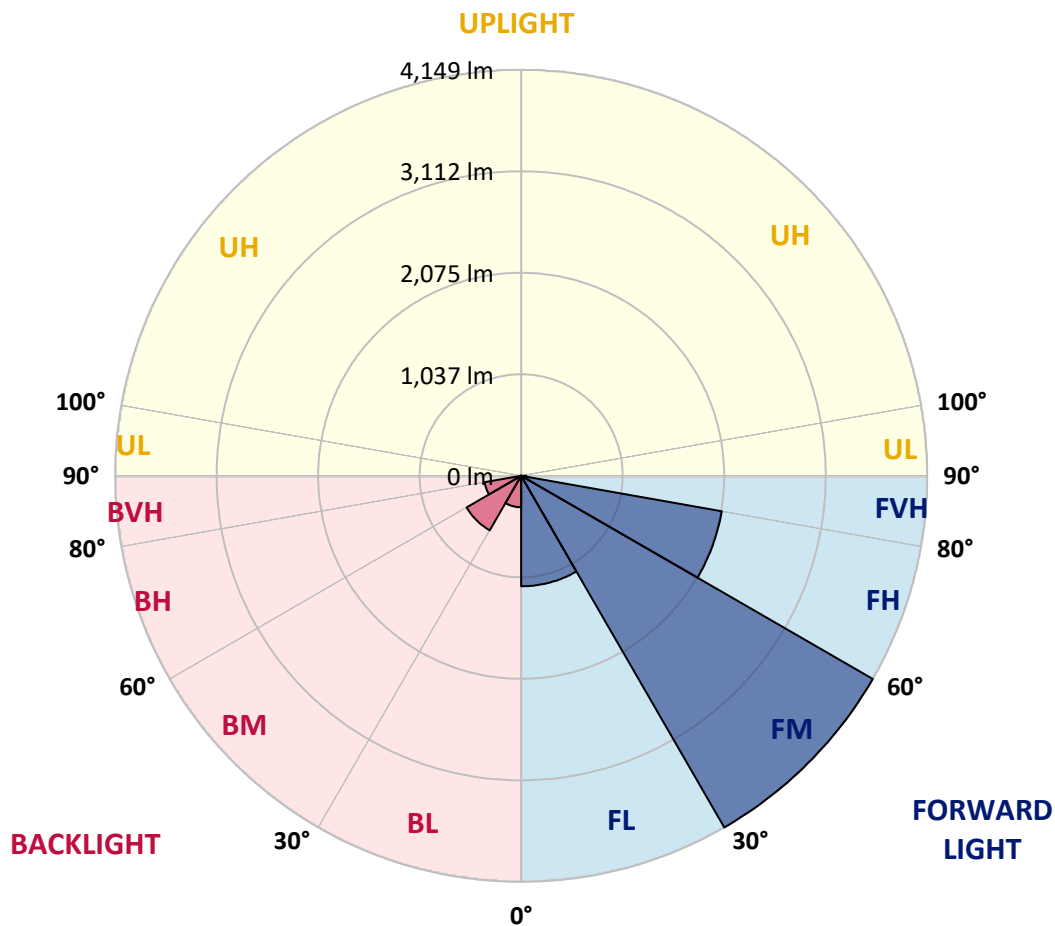
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1129.1	12.9			
FM	(30°-60°)	4149.0	47.3			
FH	(60°-80°)	2081.9	23.7			G2/5000
FVH	(80°-90°)	51.3	0.6			G1/100
BL	(0°-30°)	321.4	3.7	B1/500		
BM	(30°-60°)	643.8	7.3	B1/1000		
BH	(60°-80°)	379.5	4.3	B1/500		G1/500
BVH	(80°-90°)	15.0	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1660.8	1660.8	1660.8	1660.8	1660.8	1660.8	1660.8	1660.8	1660.8	1660.8	1660.8
2.5°	1890.1	1911.2	1899.7	1907.3	1869.1	1844.3	1815.6	1760.2	1729.6	1725.8	1689.5
5°	2167.3	2190.2	2171.1	2165.4	2098.5	2041.1	1976.2	1878.7	1813.7	1802.2	1722.0
7.5°	2444.4	2465.4	2442.5	2425.3	2335.5	2234.2	2138.6	1995.3	1894.0	1874.9	1748.7
10°	2639.3	2658.4	2641.2	2624.0	2530.4	2427.2	2291.5	2104.2	1966.6	1936.0	1765.9
12.5°	2786.5	2798.0	2790.3	2775.0	2687.1	2576.3	2446.3	2226.5	2048.8	2010.6	1792.7
15°	2906.9	2926.0	2916.4	2905.0	2820.9	2710.0	2585.8	2354.6	2144.3	2096.6	1832.8
17.5°	2987.2	3000.5	3002.4	3002.4	2927.9	2819.0	2698.6	2471.1	2239.9	2178.7	1871.0
20°	3023.5	3038.8	3048.3	3063.6	3002.4	2908.8	2786.5	2570.5	2329.7	2260.9	1907.3
22.5°	3040.7	3054.1	3078.9	3113.3	3063.6	2985.2	2872.5	2662.3	2419.5	2346.9	1949.4
25°	3054.1	3071.3	3107.6	3172.5	3138.1	3071.3	2973.8	2767.4	2526.6	2452.0	2010.6
27.5°	3090.4	3111.4	3145.8	3224.1	3182.1	3149.6	3080.8	2880.1	2639.3	2562.9	2085.1
30°	3216.5	3233.7	3231.8	3281.5	3229.9	3220.3	3172.5	2989.1	2748.3	2671.8	2173.0
32.5°	3445.8	3463.0	3421.0	3401.9	3289.1	3291.0	3271.9	3105.7	2878.2	2799.9	2274.3
35°	3692.4	3711.5	3656.1	3623.6	3434.4	3379.0	3388.5	3250.9	3023.5	2945.1	2400.4
37.5°	3912.2	3935.1	3887.3	3839.5	3648.4	3520.4	3518.5	3413.4	3189.7	3109.5	2539.9
40°	4032.6	4059.3	4088.0	4061.2	3860.6	3719.1	3658.0	3579.6	3354.1	3271.9	2690.9
42.5°	4089.9	4164.4	4216.0	4198.8	4034.5	3891.1	3818.5	3753.5	3554.8	3474.5	2870.6
45°	3929.4	3931.3	4040.2	4133.9	4103.3	4007.7	3994.3	3948.5	3784.1	3707.7	3073.2
47.5°	3728.7	3713.4	3789.9	3956.1	4042.1	4067.0	4145.3	4164.4	4045.9	3969.5	3279.6
50°	3247.1	3256.6	3505.1	3744.0	3912.2	4072.7	4252.4	4386.1	4315.4	4242.8	3497.4
52.5°	2641.2	2664.2	2948.9	3474.5	3740.2	4015.4	4315.4	4607.8	4590.6	4521.8	3715.3
55°	2117.6	2153.9	2455.9	3025.4	3520.4	3887.3	4342.2	4810.4	4875.4	4812.3	3929.4
57.5°	1618.8	1657.0	1911.2	2496.0	3239.4	3679.0	4323.1	4988.2	5141.0	5100.9	4126.2
60°	1219.3	1257.6	1420.0	2023.9	2887.8	3445.8	4227.5	5104.7	5379.9	5337.9	4269.6
62.5°	873.4	904.0	1024.4	1574.8	2459.7	3168.7	3992.4	5106.6	5515.6	5481.2	4338.4
65°	628.8	628.8	726.2	1123.8	2058.3	2836.2	3637.0	4871.6	5487.0	5477.4	4290.6
67.5°	452.9	456.8	535.1	785.5	1641.7	2432.9	3176.4	4453.0	5265.3	5313.1	4118.6
70°	321.1	330.6	366.9	548.5	1240.3	1920.7	2683.3	3904.5	4865.8	4949.9	3786.0
72.5°	248.5	254.2	279.0	382.2	905.9	1427.6	2138.6	3292.9	4332.6	4428.2	3333.1
75°	191.1	196.9	216.0	280.9	649.8	1001.5	1519.4	2555.2	3493.6	3663.7	2677.6
77.5°	139.5	147.2	160.5	204.5	378.4	636.4	921.2	1437.2	1928.4	2008.6	1402.8
80°	65.0	74.5	93.6	131.9	204.5	300.1	326.8	554.2	926.9	969.0	760.6
82.5°	36.3	45.9	53.5	80.3	103.2	107.0	110.8	139.5	349.7	386.1	319.2
85°	17.2	22.9	24.8	34.4	34.4	30.6	36.3	26.8	57.3	68.8	66.9
87.5°	0.0	1.9	3.8	9.6	7.6	5.7	5.7	5.7	5.7	7.6	5.7
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°	1660.8	1660.8	1660.8	1660.8	1660.8	1660.8	1660.8	1660.8	1660.8	1660.8	1660.8
2.5°	1672.3	1647.4	1590.1	1540.4	1507.9	1479.2	1441.0	1423.8	1393.2	1399.0	1381.8
5°	1681.8	1636.0	1534.7	1441.0	1372.2	1311.1	1244.2	1205.9	1163.9	1160.1	1146.7
7.5°	1687.6	1616.9	1471.6	1339.7	1234.6	1141.0	1051.1	1001.5	949.9	938.4	926.9
10°	1681.8	1588.2	1406.6	1234.6	1095.1	978.5	877.2	814.2	760.6	747.3	735.8
12.5°	1687.6	1572.9	1345.5	1137.1	970.9	839.0	724.3	659.4	609.7	596.3	588.6
15°	1700.9	1563.3	1293.9	1049.2	860.0	712.9	600.1	544.7	504.5	491.2	487.3
17.5°	1712.4	1553.8	1238.4	963.2	749.2	602.0	504.5	458.7	424.3	410.9	407.1
20°	1727.7	1540.4	1183.0	881.0	651.7	514.1	428.1	388.0	361.2	351.7	349.7
22.5°	1741.1	1530.8	1131.4	798.9	561.9	443.4	370.8	338.3	319.2	309.6	309.6
25°	1775.5	1534.7	1087.5	722.4	495.0	388.0	326.8	302.0	286.7	280.9	280.9
27.5°	1815.6	1550.0	1053.1	657.4	437.7	345.9	296.2	275.2	267.6	259.9	261.8
30°	1872.9	1580.5	1030.1	603.9	395.6	313.4	271.4	256.1	248.5	246.5	246.5
32.5°	1945.6	1630.2	1028.2	569.5	365.0	288.6	254.2	240.8	237.0	235.1	235.1
35°	2031.6	1674.2	1016.7	554.2	345.9	271.4	240.8	231.3	229.3	229.3	229.3
37.5°	2134.8	1746.8	1009.1	533.2	336.4	261.8	231.3	223.6	223.6	223.6	223.6
40°	2241.8	1806.1	997.6	514.1	332.5	256.1	225.5	216.0	216.0	216.0	216.0
42.5°	2369.9	1892.1	993.8	504.5	326.8	252.3	217.9	206.4	208.3	208.3	210.2
45°	2524.7	1989.5	991.9	495.0	324.9	248.5	210.2	196.9	198.8	196.9	196.9
47.5°	2681.4	2102.3	997.6	489.3	323.0	244.6	204.5	187.3	187.3	185.4	185.4
50°	2845.7	2205.5	1001.5	483.5	319.2	237.0	194.9	179.7	175.8	172.0	173.9
52.5°	3000.5	2301.0	1003.4	474.0	307.7	225.5	187.3	170.1	164.4	158.6	160.5
55°	3155.3	2392.8	1007.2	462.5	292.4	214.1	177.7	160.5	152.9	145.2	145.2
57.5°	3294.9	2473.1	997.6	433.8	275.2	202.6	168.2	149.1	137.6	130.0	130.0
60°	3390.4	2530.4	969.0	391.8	252.3	189.2	158.6	137.6	124.2	118.5	118.5
62.5°	3436.3	2539.9	917.4	323.0	223.6	175.8	147.2	126.1	114.7	110.8	110.8
65°	3392.3	2497.9	837.1	242.7	193.0	160.5	135.7	116.6	105.1	95.6	95.6
67.5°	3239.4	2379.4	726.2	183.5	164.4	145.2	124.2	107.0	93.6	86.0	86.0
70°	2931.7	2132.9	561.9	147.2	139.5	126.1	112.8	95.6	84.1	74.5	74.5
72.5°	2528.5	1808.0	395.6	118.5	118.5	107.0	95.6	84.1	72.6	65.0	65.0
75°	1939.8	1337.8	265.7	95.6	97.5	89.8	78.4	68.8	61.2	55.4	55.4
77.5°	1058.8	661.3	162.4	70.7	72.6	68.8	61.2	55.4	51.6	45.9	45.9
80°	514.1	290.5	93.6	49.7	51.6	49.7	45.9	40.1	40.1	36.3	36.3
82.5°	216.0	108.9	49.7	34.4	34.4	30.6	28.7	28.7	28.7	26.8	26.8
85°	53.5	21.0	21.0	19.1	19.1	19.1	17.2	17.2	17.2	13.4	15.3
87.5°	7.6	7.6	7.6	7.6	7.6	7.6	5.7	1.9	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)