

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: P835950

Luminaire Tested: **ARCH3-120-722-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-120-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

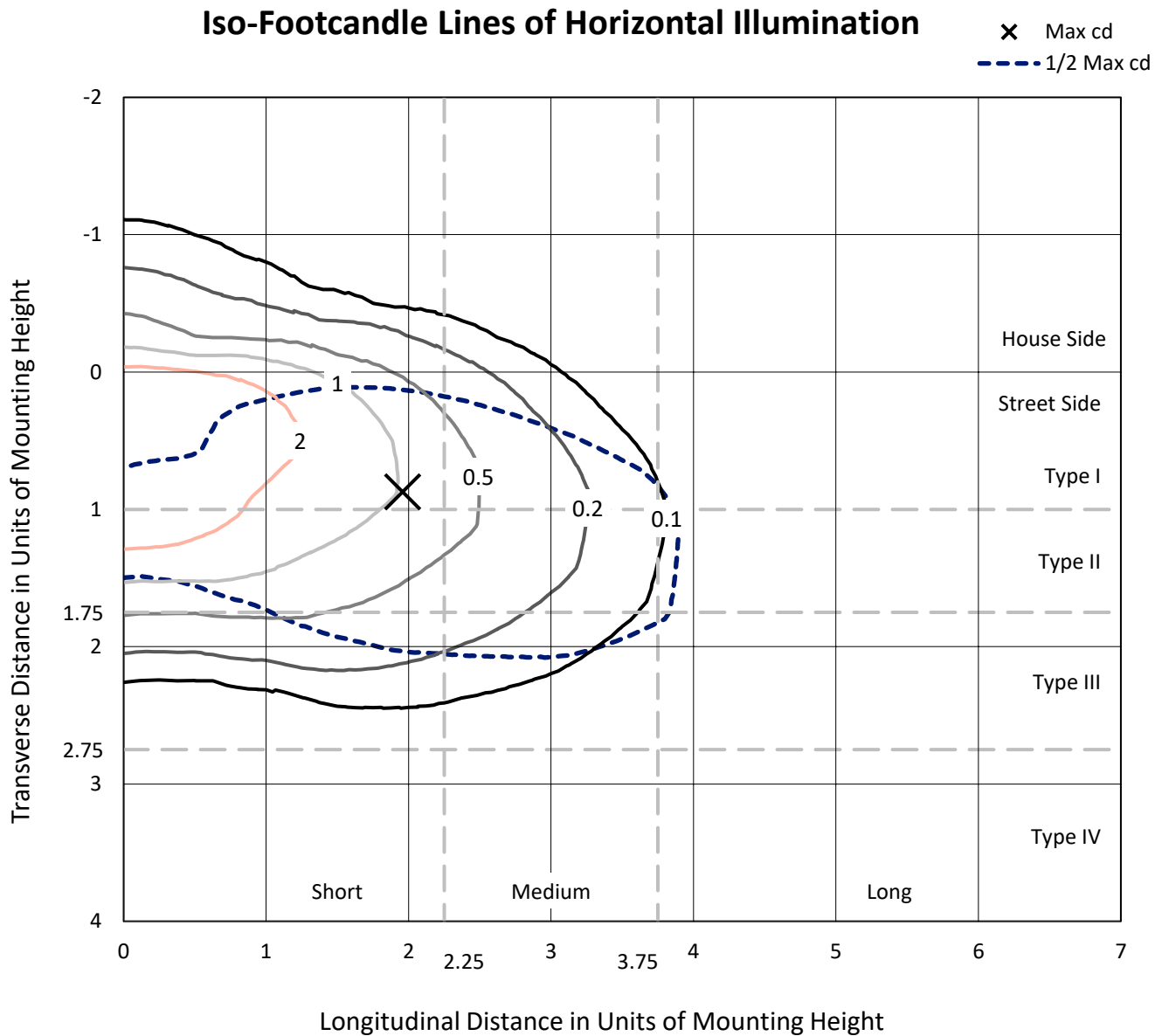
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11051 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.7
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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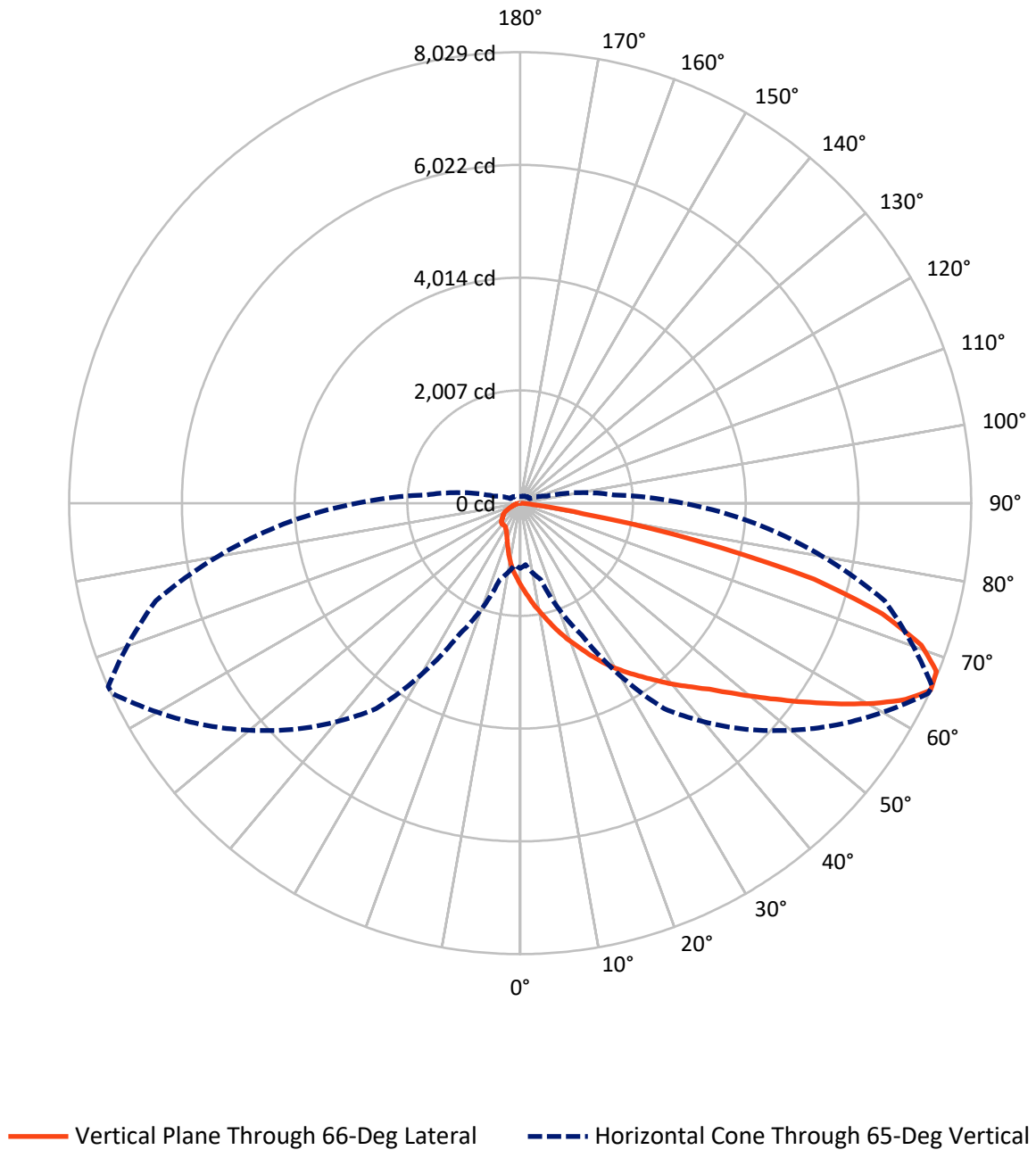


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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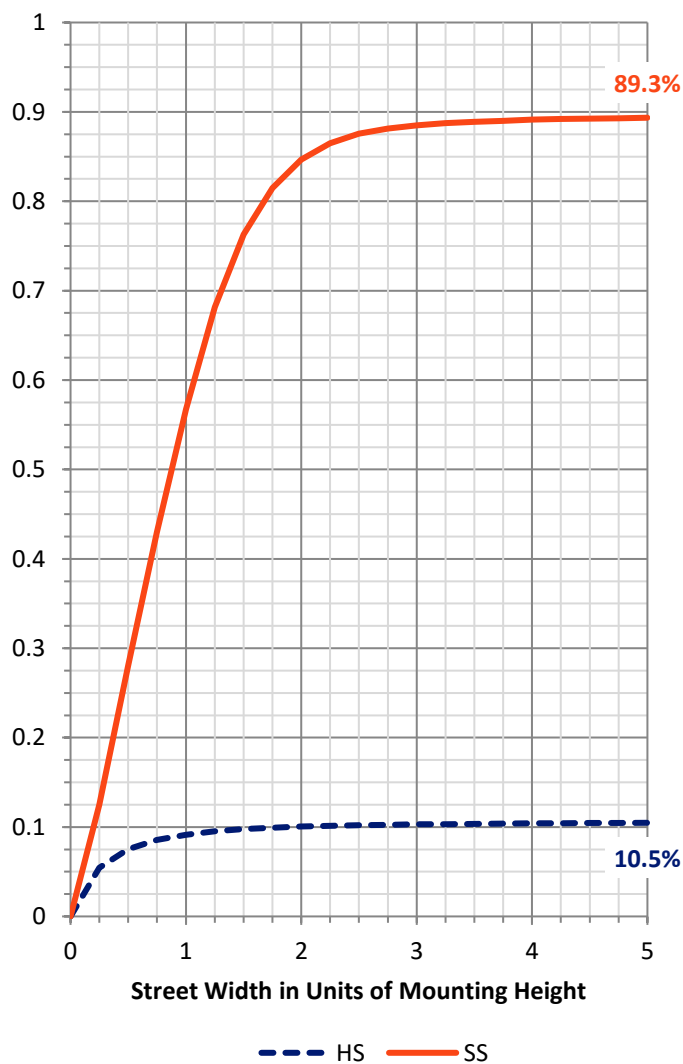
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1168.9	0.0	1168.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	9882.1	0.0	9882.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	11051.0	0.0	11051.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	1.3
10°-20°	470.5	4.3
20°-30°	851.3	7.7
30°-40°	1331.1	12.0
40°-50°	2019.3	18.3
50°-60°	2565.6	23.2
60°-70°	2397.3	21.7
70°-80°	1191.4	10.8
80°-90°	80.1	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°	11051.0	100.0
0°-180°	11051.0	100.0

Coefficient of Utilization



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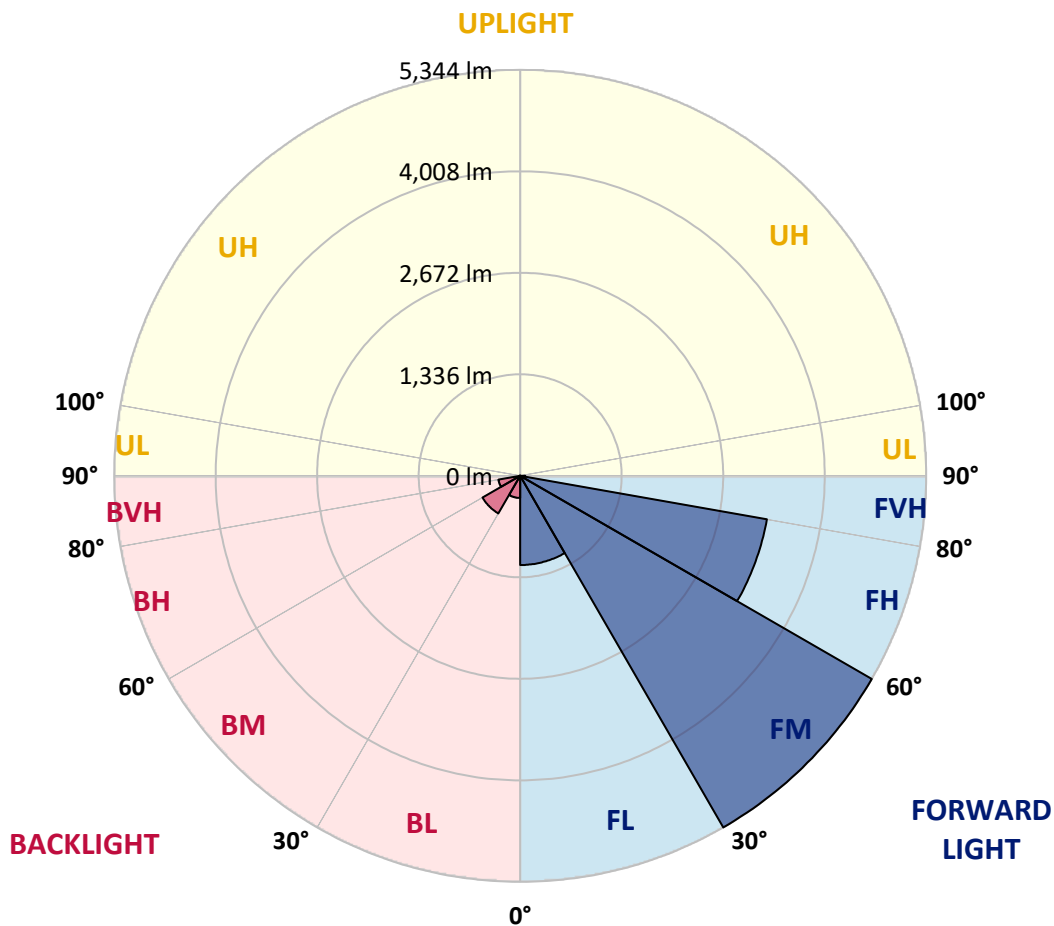
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1174.2	10.6			
FM	(30°-60°)	5344.4	48.4			
FH	(60°-80°)	3297.7	29.8			G2/5000
FVH	(80°-90°)	65.9	0.6			G1/100
BL	(0°-30°)	291.9	2.6	B1/500		
BM	(30°-60°)	571.7	5.2	B1/1000		
BH	(60°-80°)	291.1	2.6	B1/500		G1/500
BVH	(80°-90°)	14.2	0.1			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°	45°	55°	65°	66°	75°	85°
0°	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5
2.5°	1708.2	1722.1	1729.1	1731.4	1678.1	1654.9	1631.7	1578.4	1566.8	1536.7	1497.3
5°	2009.5	2028.1	2023.4	2014.2	1949.3	1875.1	1814.8	1715.2	1699.0	1627.1	1539.0
7.5°	2306.2	2322.4	2317.8	2283.0	2211.2	2106.9	2007.2	1861.2	1838.0	1722.1	1580.7
10°	2554.2	2568.1	2565.8	2531.1	2445.3	2317.8	2197.3	2002.6	1974.8	1810.2	1615.5
12.5°	2758.2	2776.7	2774.4	2751.2	2674.8	2535.7	2398.9	2164.8	2130.1	1916.8	1664.2
15°	2918.1	2941.3	2941.3	2932.0	2878.7	2762.8	2607.5	2343.3	2301.6	2039.7	1724.5
17.5°	3015.5	3034.0	3050.2	3066.5	3029.4	2941.3	2799.9	2521.8	2477.7	2160.2	1787.0
20°	3066.5	3085.0	3096.6	3131.4	3138.3	3094.3	2983.0	2697.9	2651.6	2297.0	1858.9
22.5°	3149.9	3166.1	3168.4	3198.6	3212.5	3224.1	3154.5	2871.8	2834.7	2447.6	1940.0
25°	3289.0	3307.5	3300.6	3314.5	3316.8	3330.7	3323.7	3071.1	3034.0	2619.1	2037.4
27.5°	3467.4	3490.6	3486.0	3472.1	3451.2	3439.6	3469.8	3272.8	3238.0	2790.6	2137.0
30°	3659.8	3687.6	3680.7	3652.9	3597.2	3548.6	3590.3	3462.8	3430.4	2966.8	2248.3
32.5°	3854.5	3887.0	3884.7	3838.3	3743.3	3659.8	3722.4	3641.3	3618.1	3156.9	2368.8
35°	3982.0	4023.7	4019.1	3991.3	3868.4	3796.6	3873.1	3824.4	3808.2	3388.6	2542.6
37.5°	4188.3	4232.3	4192.9	4123.4	3982.0	3944.9	4037.6	4030.7	4019.1	3634.3	2725.7
40°	4688.9	4753.8	4649.5	4364.4	4132.7	4100.2	4232.3	4260.1	4248.5	3877.7	2890.3
42.5°	5212.8	5310.1	5147.9	4753.8	4406.2	4288.0	4445.6	4485.0	4471.1	4086.3	3038.7
45°	5530.3	5572.0	5409.8	5103.8	4890.6	4515.1	4672.7	4737.6	4726.0	4336.6	3228.7
47.5°	5789.9	5773.7	5588.2	5382.0	5421.4	4835.0	4930.0	5057.5	5048.2	4612.4	3437.3
50°	5845.5	5808.4	5734.3	5604.5	5708.8	5159.4	5201.2	5421.4	5412.1	4918.4	3648.2
52.5°	5453.8	5405.1	5606.8	5715.7	5681.0	5395.9	5500.2	5820.0	5815.4	5249.8	3849.9
55°	4475.7	4436.3	4978.7	5541.9	5650.8	5562.7	5831.6	6234.9	6260.4	5602.2	4033.0
57.5°	3520.8	3479.0	4012.1	5106.1	5539.6	5715.7	6218.7	6710.1	6742.5	5984.6	4206.8
60°	2806.9	2744.3	3152.2	4420.1	5331.0	5833.9	6591.9	7231.6	7236.2	6334.6	4313.4
62.5°	1907.6	1838.0	2290.0	3550.9	4981.0	5852.5	6879.3	7681.2	7699.8	6596.5	4332.0
65°	1158.9	1101.0	1406.9	2593.6	4464.1	5694.9	6883.9	8012.7	8028.9	6717.0	4220.7
67.5°	672.2	649.0	804.3	1615.5	3606.5	5270.7	6594.2	7961.7	7991.8	6666.0	3968.1
70°	391.7	389.4	447.3	799.6	2545.0	4429.3	5947.5	7532.9	7576.9	6399.5	3581.0
72.5°	287.4	292.0	315.2	428.8	1474.1	3189.3	5036.6	6670.7	6737.9	5878.0	3029.4
75°	227.1	229.5	250.3	292.0	774.1	1803.3	3773.4	5354.1	5407.5	4948.5	2366.5
77.5°	169.2	173.8	190.1	206.3	359.3	827.5	2123.1	3298.2	3210.2	2716.5	1142.7
80°	122.8	134.4	141.4	148.3	190.1	319.9	637.4	1149.6	1140.4	1186.7	540.1
82.5°	78.8	88.1	95.0	99.7	113.6	153.0	190.1	257.3	278.1	461.2	215.6
85°	34.8	39.4	44.0	53.3	48.7	53.3	78.8	51.0	44.0	69.5	39.4
87.5°	0.0	0.0	7.0	11.6	9.3	4.6	13.9	9.3	7.0	7.0	7.0
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°	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5
2.5°	1476.4	1451.0	1397.6	1346.6	1316.5	1277.1	1242.3	1209.9	1207.6	1198.3	1182.1
5°	1495.0	1446.3	1346.6	1251.6	1179.8	1103.3	1038.4	987.4	968.8	954.9	936.4
7.5°	1513.5	1437.0	1288.7	1149.6	1036.1	929.4	853.0	783.4	762.6	744.0	732.4
10°	1520.5	1420.8	1221.5	1036.1	887.7	774.1	693.0	642.0	623.5	614.2	607.3
12.5°	1541.3	1411.5	1158.9	929.4	757.9	653.6	595.7	565.5	558.6	551.6	544.7
15°	1569.2	1411.5	1096.3	825.1	655.9	572.5	537.7	516.9	512.2	509.9	505.3
17.5°	1599.3	1411.5	1036.1	737.1	581.8	519.2	493.7	482.1	479.8	477.5	475.2
20°	1641.0	1413.9	971.2	660.6	528.5	479.8	458.9	445.0	442.7	440.4	440.4
22.5°	1682.7	1418.5	908.6	602.6	493.7	449.7	424.2	410.3	405.6	405.6	405.6
25°	1736.0	1432.4	850.6	554.0	463.6	421.8	389.4	377.8	375.5	375.5	373.2
27.5°	1798.6	1448.6	799.6	516.9	433.4	389.4	356.9	345.4	340.7	340.7	338.4
30°	1865.8	1464.9	757.9	489.1	403.3	356.9	326.8	312.9	308.3	310.6	308.3
32.5°	1940.0	1488.0	725.5	470.5	375.5	329.1	301.3	285.1	282.8	282.8	280.5
35°	2065.2	1552.9	720.8	461.2	352.3	308.3	280.5	264.2	261.9	261.9	259.6
37.5°	2199.6	1627.1	741.7	456.6	333.8	289.7	264.2	248.0	245.7	245.7	245.7
40°	2313.2	1682.7	764.9	456.6	322.2	273.5	250.3	236.4	236.4	236.4	236.4
42.5°	2389.7	1687.4	760.2	456.6	312.9	261.9	241.1	227.1	227.1	229.5	227.1
45°	2503.2	1710.5	741.7	449.7	306.0	252.6	231.8	220.2	217.9	220.2	220.2
47.5°	2637.7	1752.3	723.2	421.8	303.6	243.4	224.8	210.9	208.6	210.9	208.6
50°	2765.1	1789.4	713.9	384.8	299.0	234.1	215.6	201.6	199.3	201.6	199.3
52.5°	2871.8	1805.6	697.7	359.3	287.4	224.8	206.3	192.4	187.7	190.1	190.1
55°	2957.5	1800.9	674.5	338.4	266.5	215.6	194.7	183.1	176.2	176.2	173.8
57.5°	3036.3	1803.3	653.6	317.5	243.4	201.6	185.4	171.5	162.2	159.9	157.6
60°	3066.5	1791.7	616.5	289.7	220.2	190.1	173.8	157.6	148.3	146.0	143.7
62.5°	3024.7	1749.9	567.9	241.1	199.3	176.2	162.2	146.0	136.8	134.4	132.1
65°	2906.5	1671.1	493.7	190.1	180.8	159.9	148.3	136.8	125.2	120.5	118.2
67.5°	2704.9	1557.6	401.0	153.0	159.9	146.0	139.1	125.2	111.3	106.6	104.3
70°	2417.5	1406.9	301.3	129.8	141.4	129.8	125.2	111.3	99.7	95.0	92.7
72.5°	2014.2	1163.5	210.9	111.3	122.8	113.6	108.9	99.7	88.1	81.1	81.1
75°	1522.8	834.4	139.1	95.0	102.0	97.3	90.4	83.4	76.5	71.9	69.5
77.5°	655.9	324.5	85.8	71.9	83.4	81.1	71.9	67.2	64.9	60.3	60.3
80°	282.8	132.1	53.3	53.3	60.3	57.9	55.6	51.0	51.0	48.7	46.4
82.5°	104.3	53.3	32.4	39.4	44.0	39.4	39.4	39.4	39.4	37.1	37.1
85°	25.5	16.2	16.2	23.2	25.5	23.2	25.5	23.2	23.2	23.2	20.9
87.5°	7.0	7.0	9.3	9.3	9.3	9.3	9.3	7.0	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)