

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: P835853

Luminaire Tested: **ARCH3-100-750-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-100-750-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11318 lumens
Efficiency: N/A
Efficacy: 110.3 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): 102.6
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



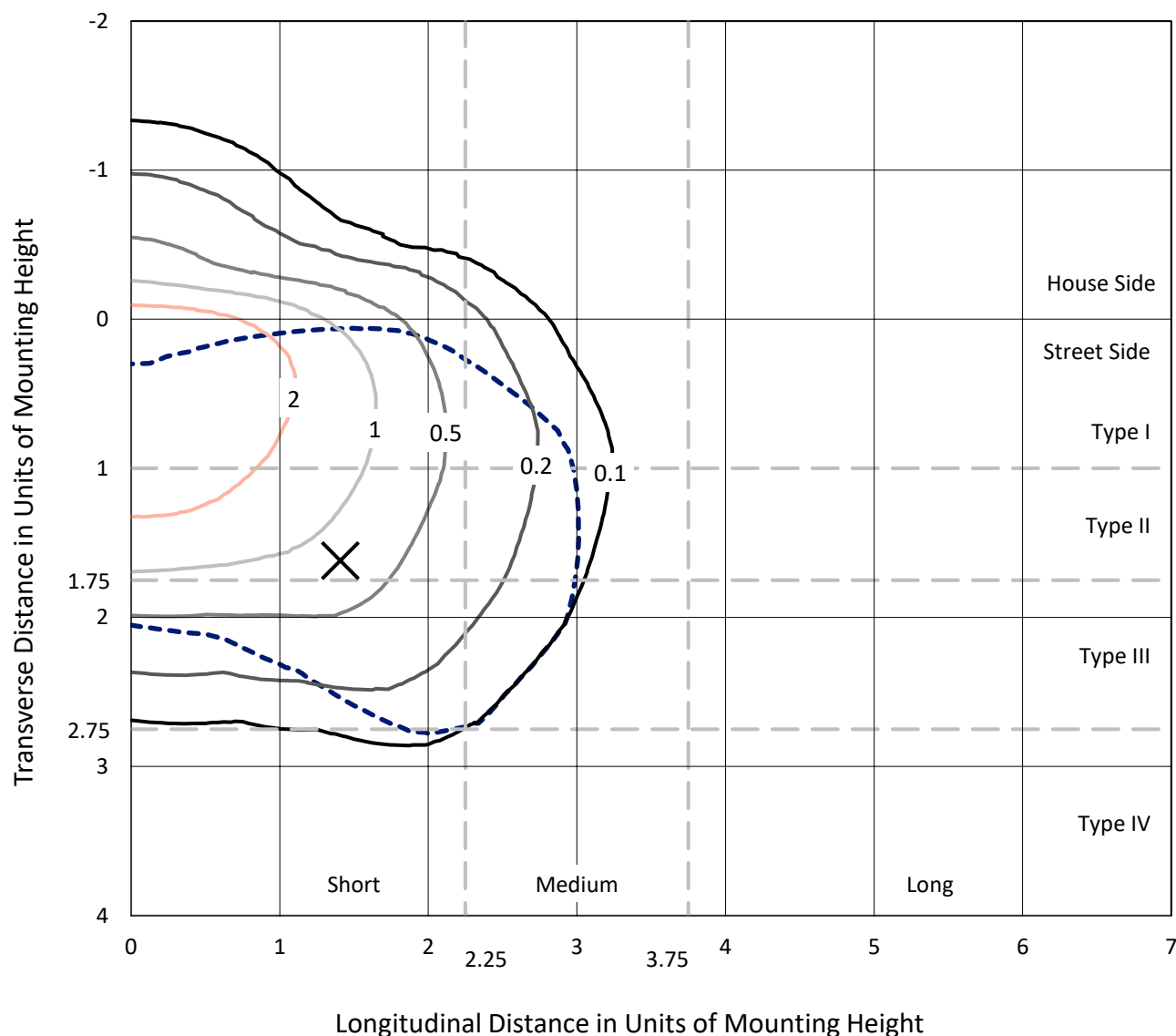
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

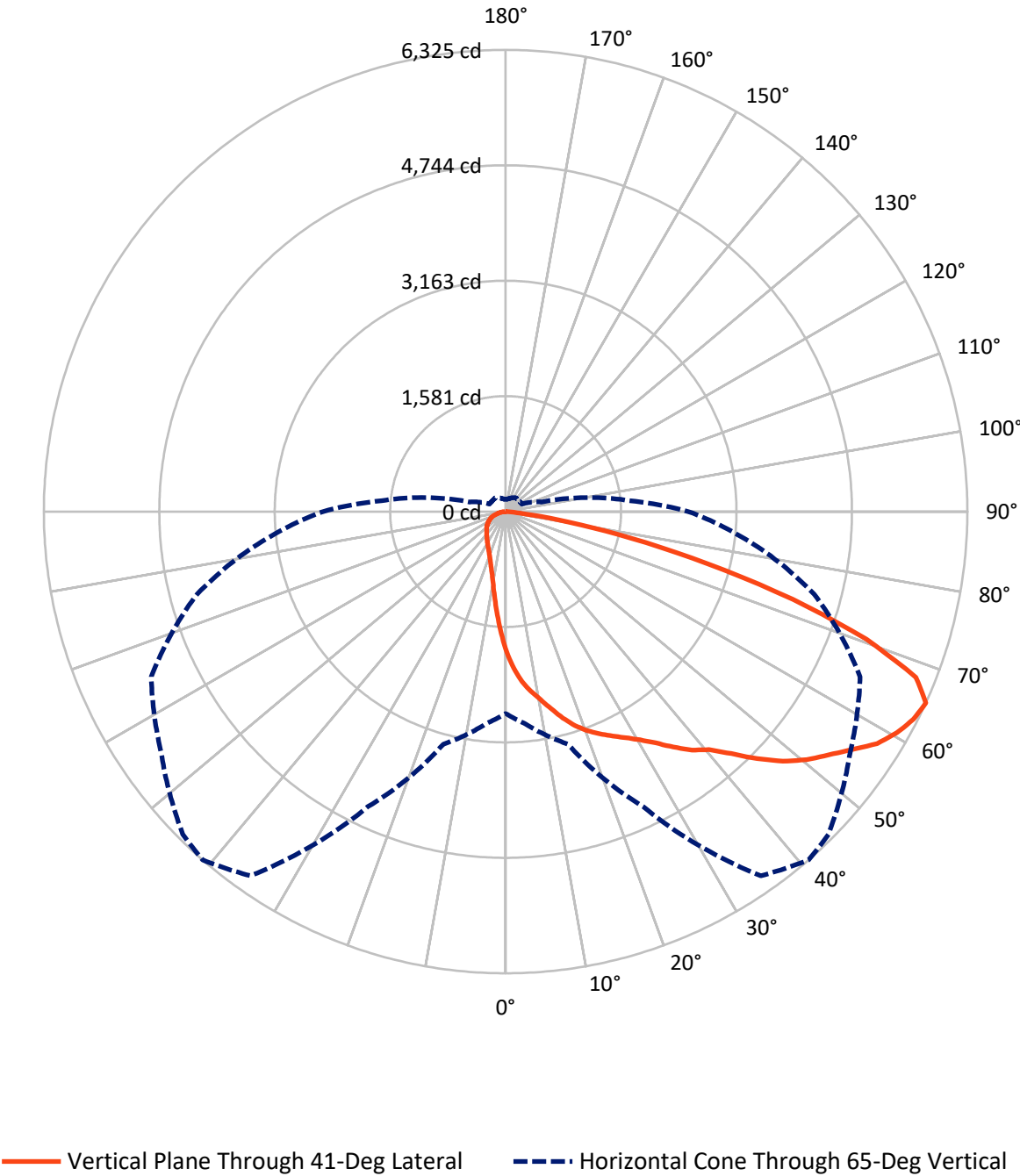


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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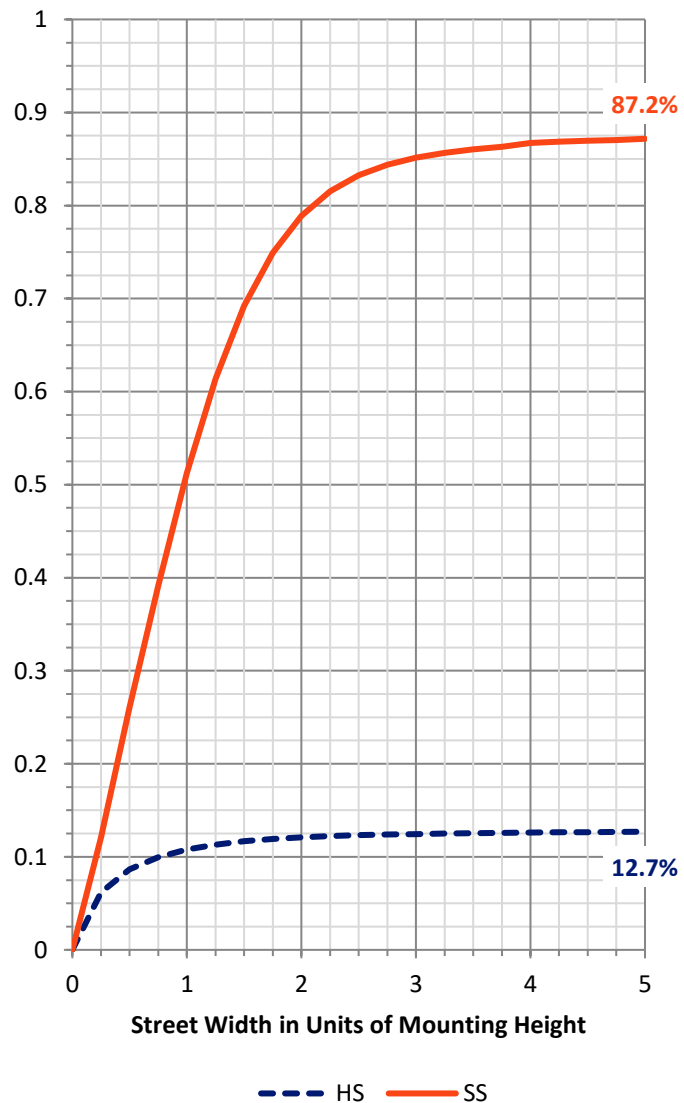
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1453.1	0.0	1453.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	9864.9	0.0	9864.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	11318.0	0.0	11318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.7	1.6
10°-20°	538.8	4.8
20°-30°	926.9	8.2
30°-40°	1405.9	12.4
40°-50°	2059.6	18.2
50°-60°	2600.8	23.0
60°-70°	2438.8	21.5
70°-80°	1087.0	9.6
80°-90°	80.5	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°	11318.0	100.0
0°-180°	11318.0	100.0

Coefficient of Utilization



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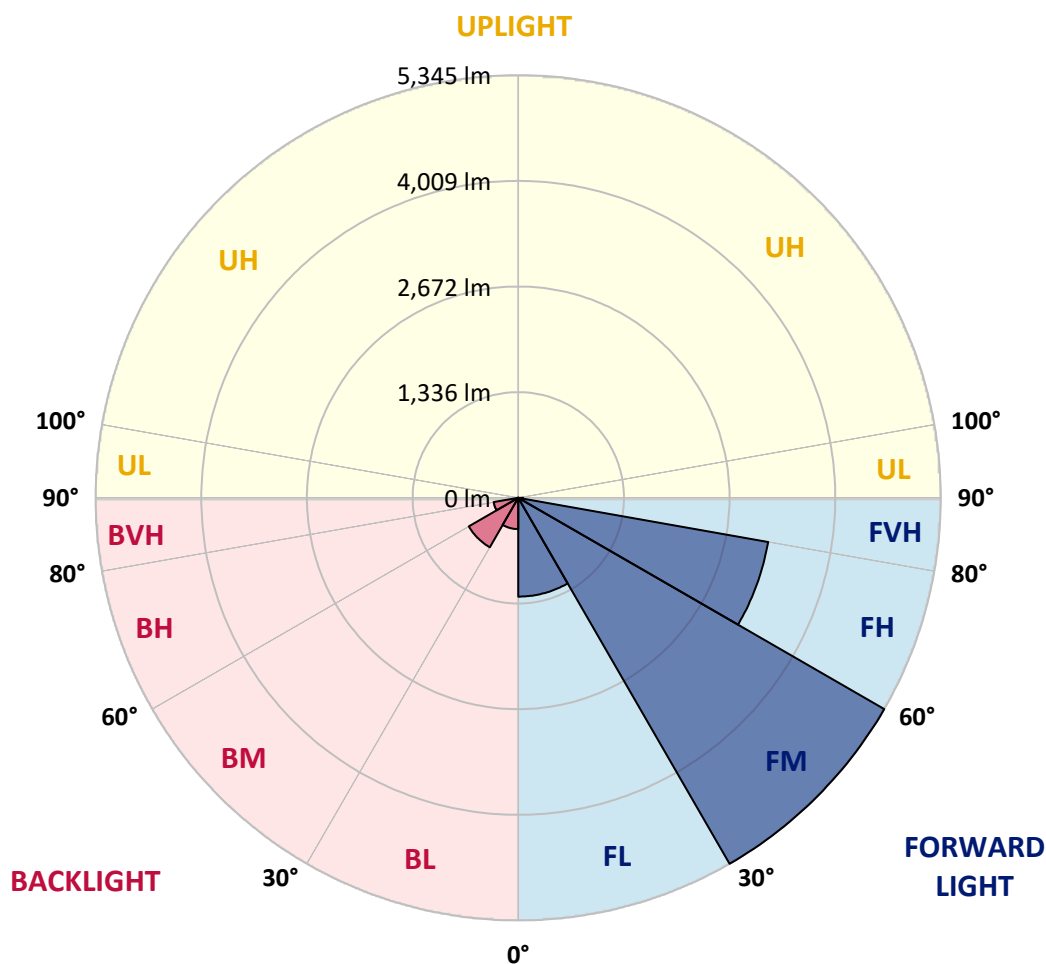
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1249.9	11.0			
FM	(30°-60°)	5344.8	47.2			
FH	(60°-80°)	3210.1	28.4			G2/5000
FVH	(80°-90°)	60.1	0.5			G1/100
BL	(0°-30°)	395.5	3.5	B1/500		
BM	(30°-60°)	721.5	6.4	B1/1000		
BH	(60°-80°)	315.6	2.8	B1/500		G1/500
BVH	(80°-90°)	20.4	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°	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5
2.5°	2224.5	2217.3	2212.6	2186.3	2186.3	2150.5	2152.9	2119.5	2078.9	2014.5	1945.2
5°	2434.5	2425.0	2413.0	2386.8	2377.2	2341.4	2336.7	2288.9	2219.7	2107.5	1983.4
7.5°	2618.3	2608.8	2592.1	2553.9	2527.6	2484.7	2472.7	2410.7	2334.3	2195.8	2021.6
10°	2785.4	2778.2	2756.7	2709.0	2673.2	2620.7	2599.2	2515.7	2420.2	2267.5	2052.6
12.5°	2954.8	2945.3	2916.7	2876.1	2833.1	2771.1	2744.8	2637.4	2515.7	2346.2	2098.0
15°	3112.4	3098.1	3076.6	3033.6	2995.4	2935.8	2907.1	2780.6	2632.6	2434.5	2157.7
17.5°	3215.0	3203.1	3184.0	3160.1	3129.1	3083.7	3055.1	2931.0	2749.6	2520.5	2219.7
20°	3277.1	3272.3	3265.1	3250.8	3236.5	3205.5	3184.0	3067.0	2876.1	2604.0	2279.4
22.5°	3324.8	3320.0	3317.6	3317.6	3320.0	3308.1	3293.8	3193.5	2997.8	2692.3	2334.3
25°	3398.8	3396.4	3391.6	3386.9	3403.6	3406.0	3401.2	3332.0	3150.6	2809.3	2403.5
27.5°	3501.4	3494.3	3484.7	3479.9	3496.7	3508.6	3518.1	3470.4	3312.9	2928.6	2482.3
30°	3659.0	3637.5	3613.6	3596.9	3608.8	3627.9	3649.4	3620.8	3479.9	3076.6	2563.4
32.5°	3845.1	3818.9	3764.0	3732.9	3764.0	3778.3	3795.0	3780.7	3654.2	3236.5	2644.6
35°	4071.9	4040.8	3983.6	3938.2	3993.1	3962.1	3954.9	3940.6	3818.9	3394.0	2735.3
37.5°	4449.0	4403.6	4312.9	4212.7	4212.7	4145.9	4119.6	4076.6	3966.8	3534.8	2823.6
40°	4885.8	4826.1	4709.1	4561.2	4425.1	4286.7	4270.0	4238.9	4141.1	3697.1	2923.8
42.5°	5365.5	5250.9	5088.6	4909.6	4690.0	4532.5	4494.3	4406.0	4310.5	3861.8	3024.1
45°	5897.8	5659.1	5422.8	5332.1	4969.3	4826.1	4754.5	4594.6	4487.2	4033.7	3129.1
47.5°	5983.7	5797.5	5640.0	5625.7	5229.5	5110.1	5029.0	4799.8	4678.1	4217.5	3238.9
50°	5936.0	5823.8	5840.5	5783.2	5420.4	5341.6	5279.6	5019.4	4866.7	4394.1	3339.1
52.5°	5735.5	5797.5	5893.0	5788.0	5601.8	5537.4	5506.3	5255.7	5043.3	4556.4	3429.8
55°	5496.8	5539.7	5745.0	5873.9	5811.8	5754.6	5725.9	5530.2	5217.5	4692.4	3513.4
57.5°	5148.3	5129.2	5356.0	5859.6	6031.4	5998.0	5967.0	5799.9	5379.8	4790.3	3565.9
60°	4625.6	4585.0	4871.4	5573.2	6103.0	6155.5	6141.2	5978.9	5503.9	4787.9	3544.4
62.5°	3721.0	3821.3	4217.5	5105.3	6134.1	6267.7	6241.5	5993.2	5544.5	4649.5	3408.3
65°	2766.3	2909.5	3298.5	4460.9	6091.1	6325.0	6253.4	5759.3	5356.0	4375.0	3110.0
67.5°	1993.0	2119.5	2403.5	3670.9	5678.2	6062.5	5978.9	5377.4	4921.6	3985.9	2697.1
70°	1362.9	1453.6	1646.9	2673.2	4847.6	5241.4	5188.9	4807.0	4236.6	3522.9	2191.1
72.5°	961.9	1000.1	1124.2	1763.8	3682.8	4112.4	4050.4	3954.9	3403.6	2928.6	1704.2
75°	720.8	744.7	811.5	1140.9	2484.7	2849.8	2792.5	2847.4	2541.9	2217.3	1241.1
77.5°	272.1	296.0	460.7	728.0	1470.3	1749.5	1692.2	1725.7	1413.0	1119.4	618.2
80°	74.0	78.8	152.8	346.1	668.3	871.2	792.4	680.2	525.1	515.5	327.0
82.5°	31.0	35.8	69.2	186.2	238.7	238.7	200.5	248.2	200.5	241.1	157.5
85°	11.9	14.3	16.7	47.7	31.0	33.4	35.8	47.7	40.6	50.1	35.8
87.5°	0.0	0.0	0.0	2.4	2.4	4.8	2.4	4.8	7.2	7.2	7.2
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°	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5
2.5°	1916.6	1890.3	1852.2	1790.1	1725.7	1689.8	1644.5	1637.3	1589.6	1584.8	1565.7
5°	1928.5	1873.6	1775.8	1656.4	1539.5	1448.8	1382.0	1346.2	1276.9	1276.9	1257.8
7.5°	1938.1	1852.2	1694.6	1518.0	1358.1	1236.4	1145.7	1107.5	1045.4	1040.6	1026.3
10°	1940.5	1825.9	1606.3	1377.2	1181.5	1057.3	969.0	926.1	871.2	866.4	856.9
12.5°	1959.6	1811.6	1527.5	1255.5	1055.0	921.3	835.4	799.6	756.6	751.8	742.3
15°	1990.6	1811.6	1460.7	1152.8	942.8	818.7	744.7	711.3	680.2	675.5	670.7
17.5°	2021.6	1806.8	1393.9	1057.3	849.7	737.5	673.1	646.8	623.0	620.6	615.8
20°	2050.3	1804.4	1327.1	976.2	778.1	670.7	620.6	596.7	577.6	577.6	575.2
22.5°	2078.9	1799.6	1262.6	899.8	716.0	620.6	577.6	551.3	537.0	537.0	534.6
25°	2121.9	1799.6	1202.9	835.4	665.9	582.4	539.4	520.3	508.4	506.0	506.0
27.5°	2172.0	1814.0	1150.4	778.1	623.0	544.2	510.8	491.7	477.4	472.6	475.0
30°	2226.9	1825.9	1102.7	728.0	582.4	515.5	479.7	460.7	446.3	441.6	443.9
32.5°	2281.8	1840.2	1059.7	682.6	541.8	489.3	453.5	432.0	417.7	415.3	415.3
35°	2341.4	1854.5	1016.8	644.4	508.4	463.0	429.6	405.8	396.2	391.4	393.8
37.5°	2401.1	1878.4	976.2	608.6	484.5	439.2	408.1	384.3	377.1	374.7	374.7
40°	2472.7	1914.2	959.5	584.8	463.0	417.7	391.4	367.6	360.4	360.4	360.4
42.5°	2532.4	1942.8	945.2	558.5	446.3	398.6	374.7	355.6	350.9	348.5	350.9
45°	2592.1	1969.1	926.1	534.6	424.8	379.5	360.4	341.3	336.5	336.5	336.5
47.5°	2651.7	1983.4	899.8	510.8	405.8	362.8	346.1	329.4	324.6	324.6	324.6
50°	2699.5	1995.4	861.6	484.5	384.3	348.5	331.8	315.1	310.3	310.3	310.3
52.5°	2747.2	1997.7	821.1	453.5	362.8	331.8	317.4	300.7	296.0	293.6	293.6
55°	2790.2	1995.4	773.3	417.7	338.9	312.7	300.7	286.4	276.9	267.3	272.1
57.5°	2821.2	1993.0	718.4	381.9	315.1	293.6	288.8	269.7	250.6	226.7	231.5
60°	2809.3	1966.7	658.8	336.5	288.8	274.5	274.5	248.2	214.8	202.9	205.3
62.5°	2732.9	1892.7	596.7	288.8	262.5	255.4	253.0	224.4	198.1	186.2	188.6
65°	2503.7	1706.6	506.0	245.8	236.3	233.9	233.9	207.7	183.8	169.5	171.8
67.5°	2155.3	1432.1	412.9	207.7	210.0	214.8	214.8	190.9	167.1	152.8	155.1
70°	1728.0	1119.4	329.4	179.0	181.4	188.6	193.3	171.8	150.4	136.0	136.0
72.5°	1300.8	849.7	264.9	150.4	162.3	162.3	169.5	152.8	131.3	117.0	119.3
75°	942.8	608.6	210.0	126.5	140.8	138.4	138.4	128.9	112.2	102.6	102.6
77.5°	446.3	319.8	167.1	90.7	109.8	107.4	109.8	102.6	95.5	85.9	88.3
80°	219.6	157.5	107.4	64.4	76.4	78.8	85.9	81.2	78.8	71.6	71.6
82.5°	105.0	62.1	50.1	45.3	52.5	54.9	59.7	59.7	62.1	57.3	57.3
85°	28.6	16.7	21.5	28.6	33.4	35.8	40.6	43.0	43.0	40.6	43.0
87.5°	7.2	7.2	9.5	14.3	16.7	19.1	21.5	21.5	9.5	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)