

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: P841725

Luminaire Tested: **ARCH4-220-722-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-220-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 870mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19891 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 221.8
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



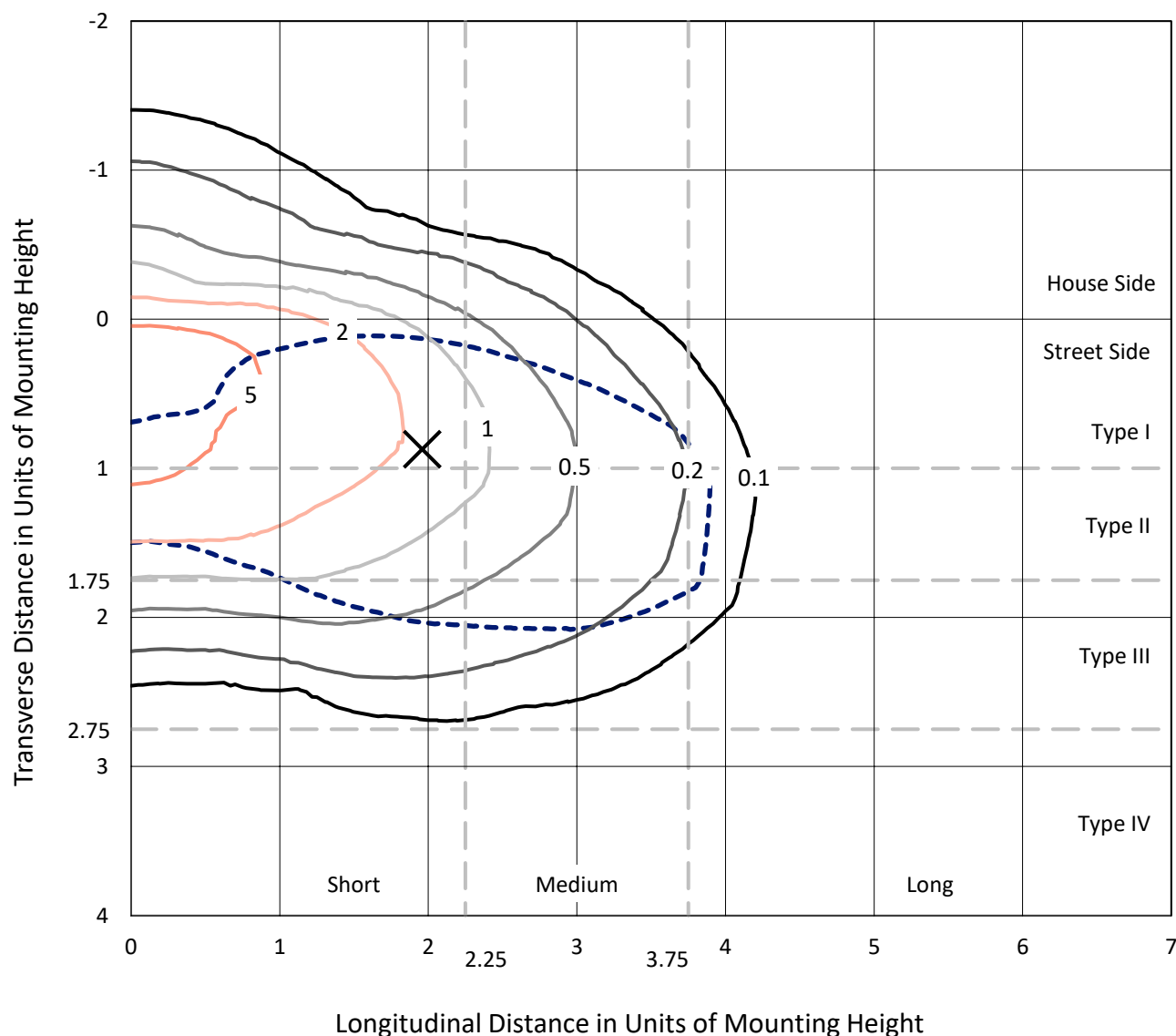
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

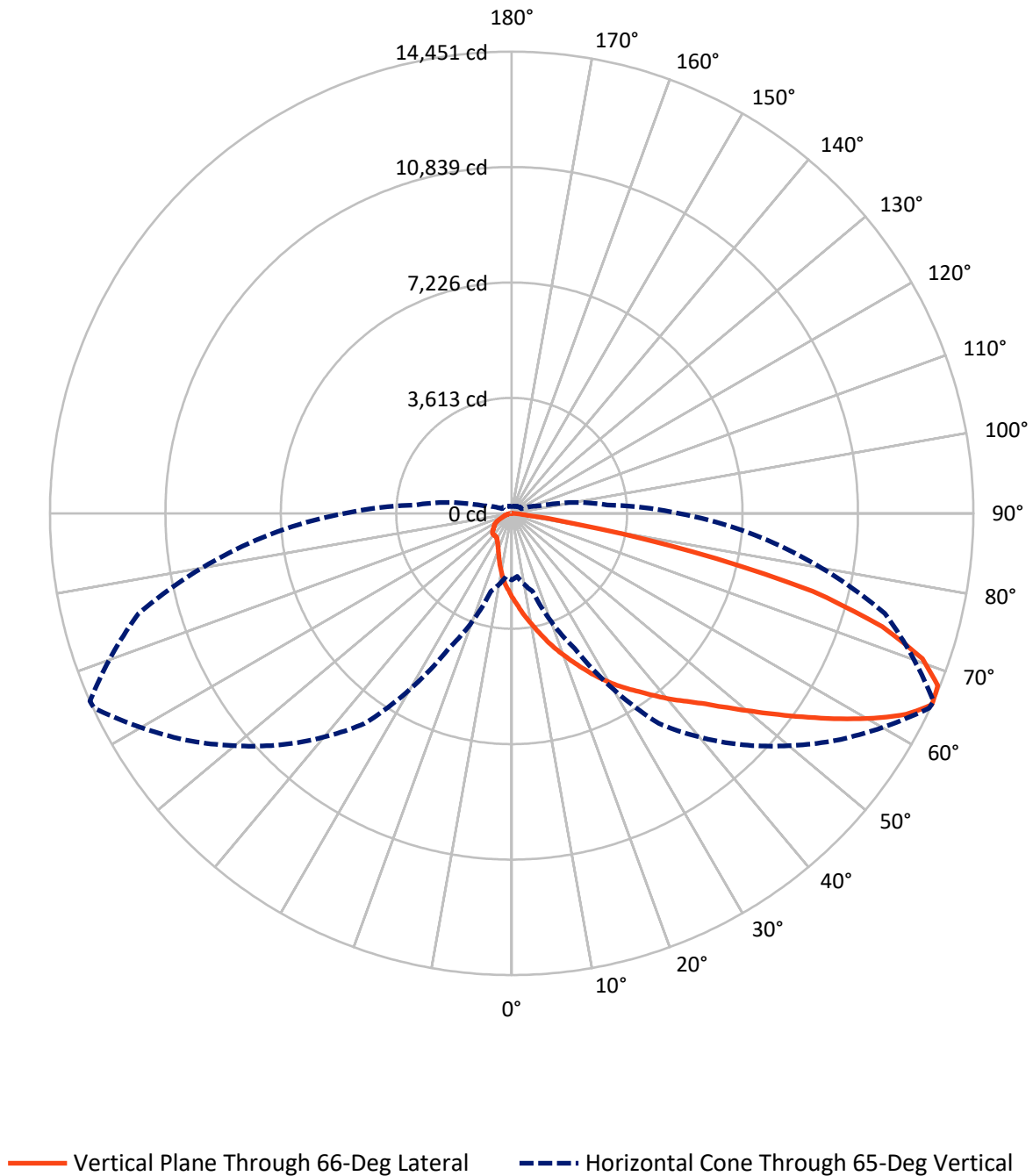


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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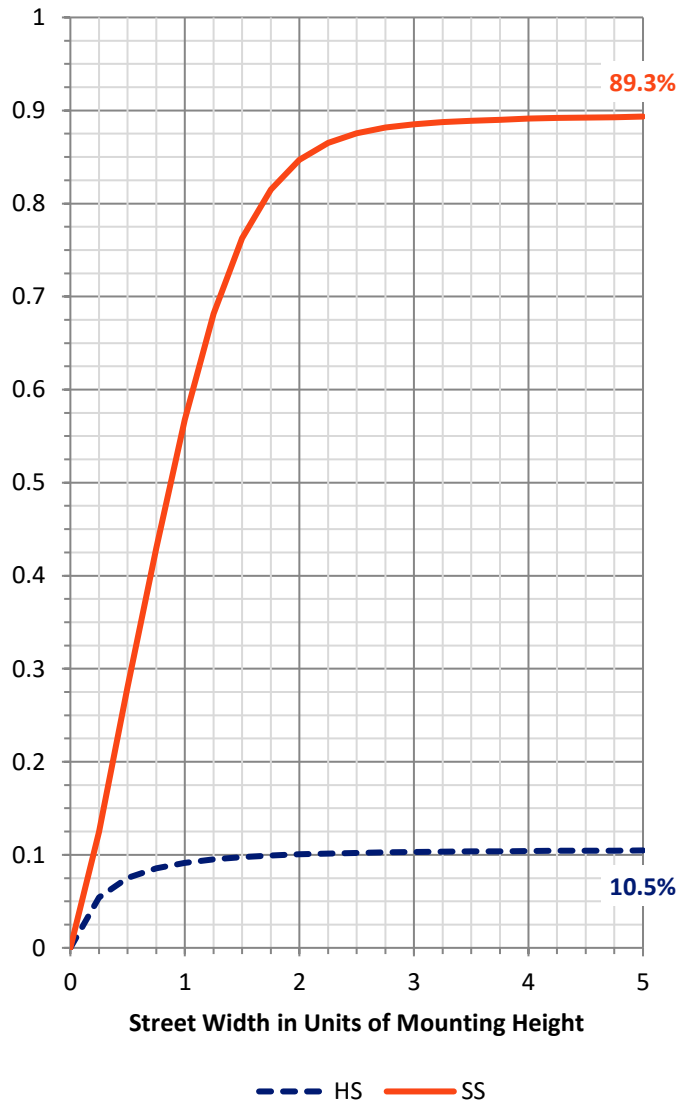
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2103.9	0.0	2103.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	17787.1	0.0	17787.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	19891.0	0.0	19891.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.8	1.3
10°-20°	846.8	4.3
20°-30°	1532.2	7.7
30°-40°	2396.0	12.0
40°-50°	3634.6	18.3
50°-60°	4617.9	23.2
60°-70°	4315.0	21.7
70°-80°	2144.5	10.8
80°-90°	144.1	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°	19891.0	100.0
0°-180°	19891.0	100.0

Coefficient of Utilization



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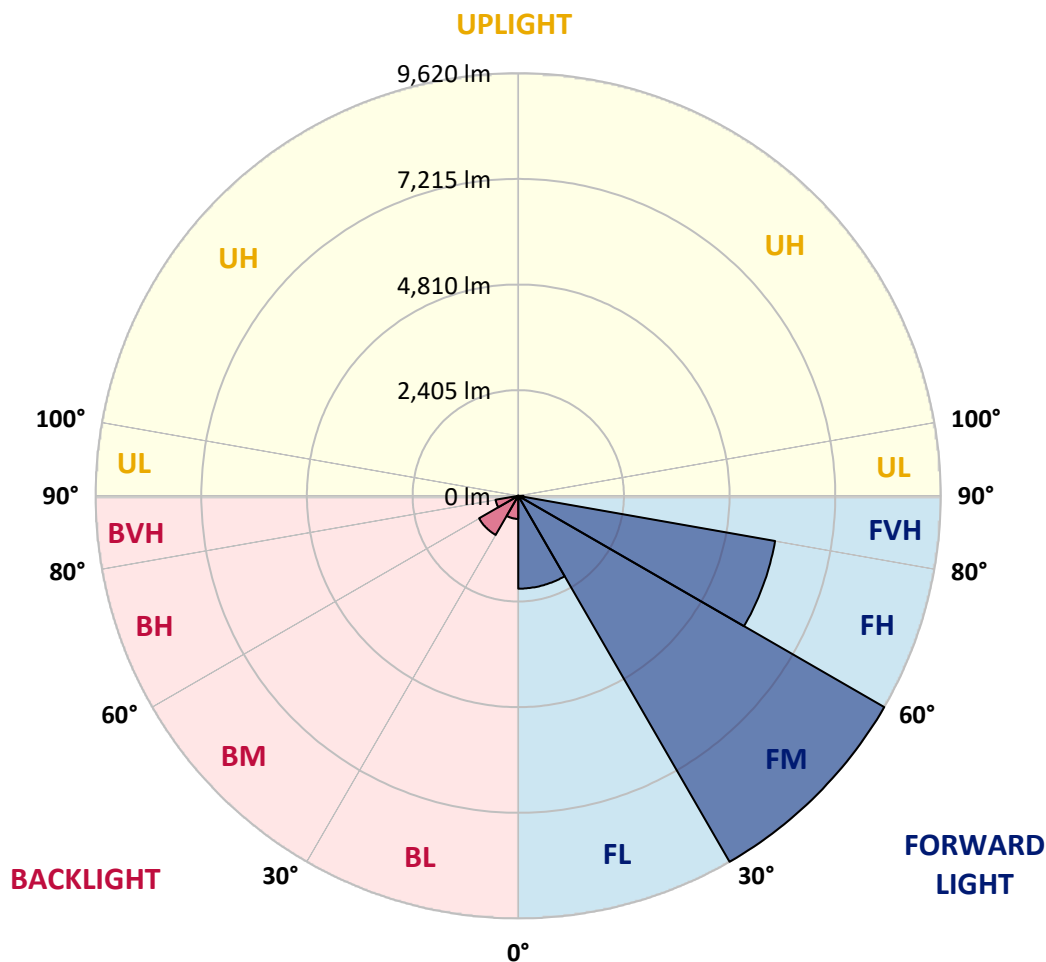
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2113.4	10.6			
FM	(30°-60°)	9619.5	48.4			
FH	(60°-80°)	5935.6	29.8			G3/7500
FVH	(80°-90°)	118.6	0.6			G2/225
BL	(0°-30°)	525.4	2.6	B2/1000		
BM	(30°-60°)	1029.0	5.2	B2/2500		
BH	(60°-80°)	523.9	2.6	B2/1000		G2/1000
BVH	(80°-90°)	25.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5
2.5°	3074.7	3099.7	3112.2	3116.4	3020.5	2978.7	2937.0	2841.1	2820.2	2766.0	2695.0
5°	3617.0	3650.4	3642.1	3625.4	3508.6	3375.1	3266.6	3087.2	3058.0	2928.7	2770.1
7.5°	4151.0	4180.2	4171.9	4109.3	3980.0	3792.3	3612.9	3350.0	3308.3	3099.7	2845.2
10°	4597.4	4622.5	4618.3	4555.7	4401.3	4171.9	3955.0	3604.5	3554.5	3258.2	2907.8
12.5°	4964.6	4997.9	4993.8	4952.0	4814.4	4564.1	4317.9	3896.5	3834.0	3450.2	2995.4
15°	5252.4	5294.1	5294.1	5277.4	5181.5	4972.9	4693.4	4217.8	4142.7	3671.3	3103.9
17.5°	5427.6	5461.0	5490.2	5519.4	5452.7	5294.1	5039.6	4539.0	4459.8	3888.2	3216.5
20°	5519.4	5552.8	5573.6	5636.2	5648.7	5569.5	5369.2	4856.1	4772.6	4134.3	3345.9
22.5°	5669.6	5698.8	5703.0	5757.2	5782.2	5803.1	5677.9	5169.0	5102.2	4405.5	3491.9
25°	5919.9	5953.3	5940.8	5965.8	5970.0	5995.0	5982.5	5527.8	5461.0	4714.2	3667.1
27.5°	6241.2	6282.9	6274.5	6249.5	6211.9	6191.1	6245.3	5890.7	5828.1	5023.0	3846.5
30°	6587.4	6637.5	6625.0	6574.9	6474.8	6387.2	6462.3	6232.8	6174.4	5340.0	4046.7
32.5°	6937.9	6996.3	6992.1	6908.7	6737.6	6587.4	6700.1	6554.0	6512.3	5682.1	4263.7
35°	7167.3	7242.4	7234.1	7184.0	6962.9	6833.6	6971.2	6883.6	6854.4	6099.3	4576.6
37.5°	7538.6	7617.9	7547.0	7421.8	7167.3	7100.6	7267.4	7254.9	7234.1	6541.5	4906.1
40°	8439.7	8556.6	8368.8	7855.7	7438.5	7380.1	7617.9	7667.9	7647.1	6979.6	5202.4
42.5°	9382.6	9557.8	9265.8	8556.6	7930.8	7718.0	8001.7	8072.6	8047.6	7355.0	5469.4
45°	9954.1	10029.2	9737.2	9186.5	8802.7	8126.8	8410.5	8527.4	8506.5	7805.6	5811.4
47.5°	10421.4	10392.2	10058.4	9687.1	9758.1	8702.6	8873.6	9103.1	9086.4	8302.1	6186.9
50°	10521.5	10454.8	10321.3	10087.6	10275.4	9286.6	9361.7	9758.1	9741.4	8852.8	6566.6
52.5°	9816.5	9728.9	10091.8	10287.9	10225.3	9712.2	9899.9	10475.6	10467.3	9449.3	6929.5
55°	8055.9	7985.0	8961.2	9975.0	10171.1	10012.5	10496.5	11222.4	11268.3	10083.5	7259.1
57.5°	6337.1	6262.0	7221.5	9190.7	9970.8	10287.9	11193.2	12077.6	12136.0	10771.8	7572.0
60°	5052.2	4939.5	5673.8	7955.8	9595.4	10500.7	11864.9	13016.3	13024.7	11401.8	7763.9
62.5°	3433.5	3308.3	4121.8	6391.3	8965.4	10534.0	12382.2	13825.7	13859.0	11873.2	7797.3
65°	2085.9	1981.6	2532.3	4668.3	8035.1	10250.3	12390.5	14422.2	14451.4	12090.1	7597.0
67.5°	1209.8	1168.1	1447.6	2907.8	6491.5	9486.9	11869.0	14330.5	14384.7	11998.4	7142.3
70°	705.0	700.9	805.2	1439.3	4580.7	7972.5	10705.1	13558.7	13637.9	11518.6	6445.6
72.5°	517.3	525.7	567.4	771.8	2653.3	5740.5	9065.5	12006.7	12127.7	10579.9	5452.7
75°	408.8	413.0	450.6	525.7	1393.4	3245.7	6791.8	9637.1	9733.0	8907.0	4259.5
77.5°	304.5	312.9	342.1	371.3	646.6	1489.4	3821.5	5936.6	5778.1	4889.5	2056.7
80°	221.1	242.0	254.5	267.0	342.1	575.7	1147.3	2069.3	2052.6	2136.0	972.1
82.5°	141.8	158.5	171.0	179.4	204.4	275.3	342.1	463.1	500.6	830.2	388.0
85°	62.6	70.9	79.3	96.0	87.6	96.0	141.8	91.8	79.3	125.2	70.9
87.5°	0.0	0.0	12.5	20.9	16.7	8.3	25.0	16.7	12.5	12.5	12.5
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°	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5
2.5°	2657.5	2611.6	2515.7	2423.9	2369.6	2298.7	2236.1	2177.7	2173.6	2156.9	2127.7
5°	2690.9	2603.3	2423.9	2252.8	2123.5	1985.8	1869.0	1777.2	1743.9	1718.8	1685.4
7.5°	2724.2	2586.6	2319.6	2069.3	1864.8	1672.9	1535.3	1410.1	1372.6	1339.2	1318.3
10°	2736.8	2557.4	2198.6	1864.8	1597.8	1393.4	1247.4	1155.6	1122.2	1105.6	1093.0
12.5°	2774.3	2540.7	2085.9	1672.9	1364.2	1176.5	1072.2	1017.9	1005.4	992.9	980.4
15°	2824.4	2540.7	1973.3	1485.2	1180.6	1030.5	967.9	930.3	922.0	917.8	909.5
17.5°	2878.6	2540.7	1864.8	1326.7	1047.1	934.5	888.6	867.8	863.6	859.4	855.2
20°	2953.7	2544.9	1748.0	1189.0	951.2	863.6	826.0	801.0	796.8	792.7	792.7
22.5°	3028.8	2553.2	1635.4	1084.7	888.6	809.3	763.5	738.4	730.1	730.1	730.1
25°	3124.7	2578.2	1531.1	997.1	834.4	759.3	700.9	680.0	675.8	675.8	671.7
27.5°	3237.4	2607.4	1439.3	930.3	780.1	700.9	642.5	621.6	613.3	613.3	609.1
30°	3358.4	2636.6	1364.2	880.3	725.9	642.5	588.2	563.2	554.9	559.0	554.9
32.5°	3491.9	2678.4	1305.8	846.9	675.8	592.4	542.3	513.1	509.0	509.0	504.8
35°	3717.2	2795.2	1297.5	830.2	634.1	554.9	504.8	475.6	471.4	471.4	467.3
37.5°	3959.1	2928.7	1335.0	821.9	600.8	521.5	475.6	446.4	442.2	442.2	442.2
40°	4163.5	3028.8	1376.7	821.9	579.9	492.3	450.6	425.5	425.5	425.5	425.5
42.5°	4301.2	3037.1	1368.4	821.9	563.2	471.4	433.9	408.8	408.8	413.0	408.8
45°	4505.6	3078.9	1335.0	809.3	550.7	454.7	417.2	396.3	392.2	396.3	396.3
47.5°	4747.6	3154.0	1301.6	759.3	546.5	438.0	404.7	379.6	375.5	379.6	375.5
50°	4977.1	3220.7	1284.9	692.5	538.2	421.4	388.0	363.0	358.8	363.0	358.8
52.5°	5169.0	3249.9	1255.7	646.6	517.3	404.7	371.3	346.3	337.9	342.1	342.1
55°	5323.3	3241.6	1214.0	609.1	479.8	388.0	350.4	329.6	317.1	317.1	312.9
57.5°	5465.2	3245.7	1176.5	571.5	438.0	363.0	333.8	308.7	292.0	287.9	283.7
60°	5519.4	3224.9	1109.7	521.5	396.3	342.1	312.9	283.7	267.0	262.8	258.7
62.5°	5444.3	3149.8	1022.1	433.9	358.8	317.1	292.0	262.8	246.1	242.0	237.8
65°	5231.6	3007.9	888.6	342.1	325.4	287.9	267.0	246.1	225.3	216.9	212.8
67.5°	4868.6	2803.5	721.7	275.3	287.9	262.8	250.3	225.3	200.3	191.9	187.7
70°	4351.3	2532.3	542.3	233.6	254.5	233.6	225.3	200.3	179.4	171.0	166.9
72.5°	3625.4	2094.3	379.6	200.3	221.1	204.4	196.1	179.4	158.5	146.0	146.0
75°	2740.9	1501.9	250.3	171.0	183.6	175.2	162.7	150.2	137.7	129.3	125.2
77.5°	1180.6	584.1	154.4	129.3	150.2	146.0	129.3	121.0	116.8	108.5	108.5
80°	509.0	237.8	96.0	96.0	108.5	104.3	100.1	91.8	91.8	87.6	83.4
82.5°	187.7	96.0	58.4	70.9	79.3	70.9	70.9	70.9	70.9	66.8	66.8
85°	45.9	29.2	29.2	41.7	45.9	41.7	45.9	41.7	41.7	41.7	37.5
87.5°	12.5	12.5	16.7	16.7	16.7	16.7	16.7	12.5	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)