

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: P836175

Luminaire Tested: **ARCH3-150-727-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836175
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: ARCH3-150-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14165 lumens
Efficiency: N/A
Efficacy: 94.0 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): 150.7
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

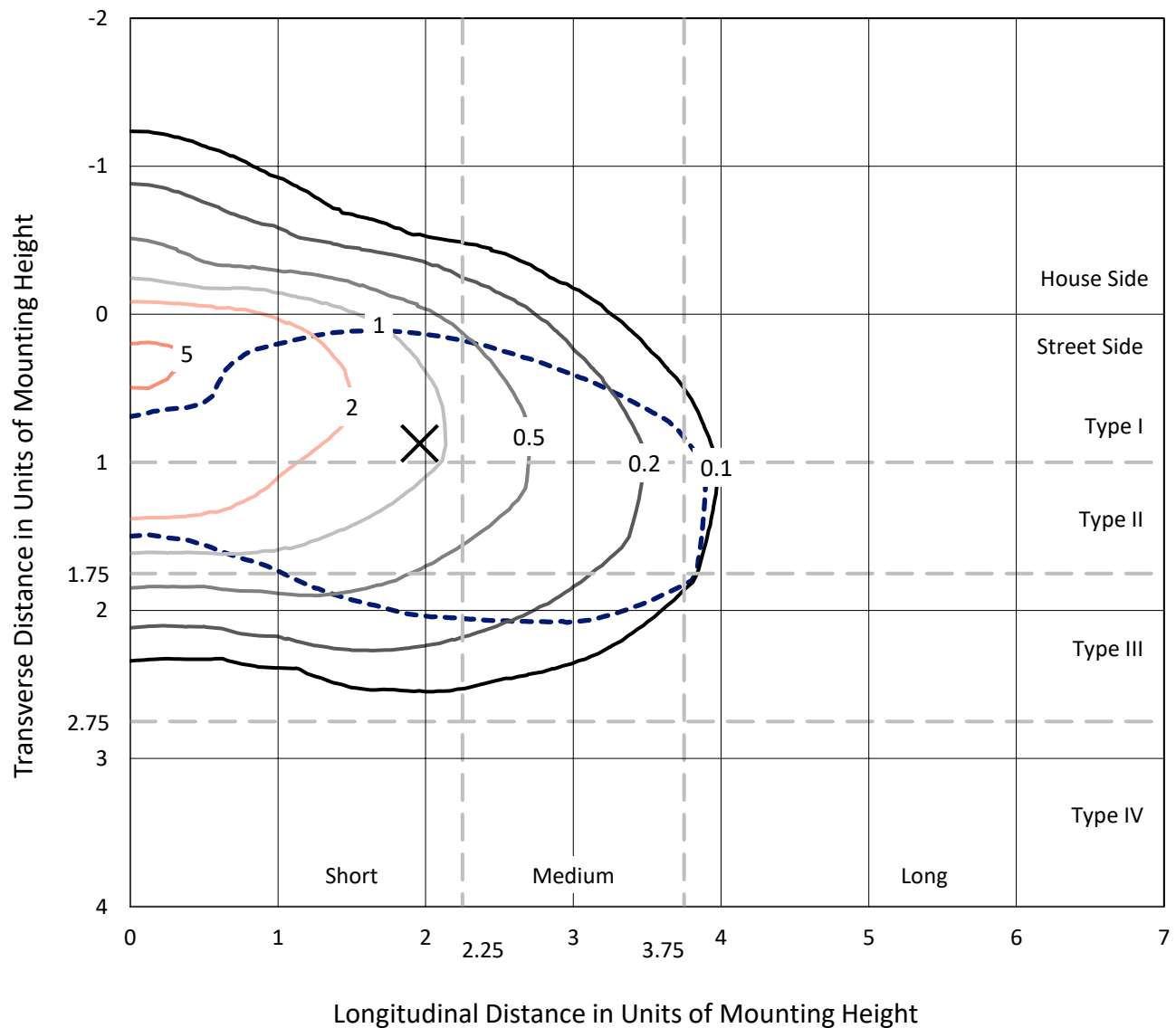


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Iso-Footcandle Lines of Horizontal Illumination

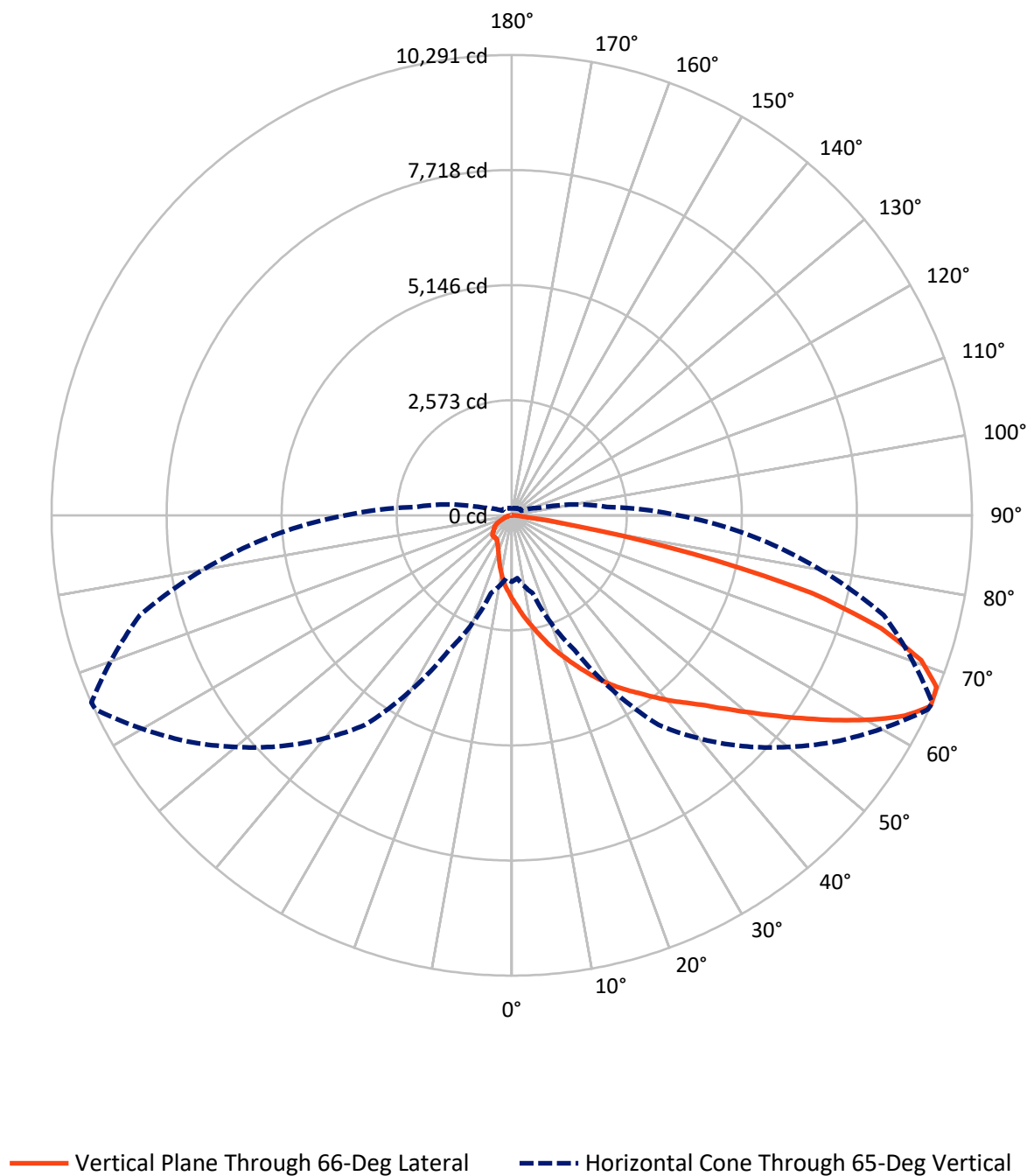
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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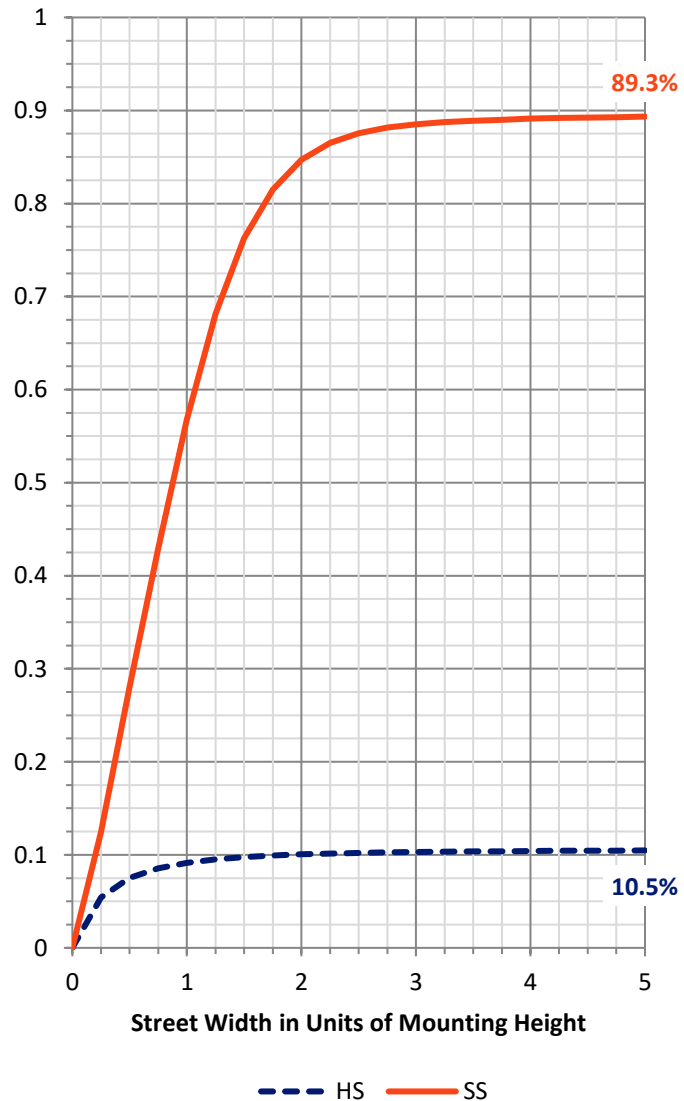
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1498.3	0.0	1498.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	12666.7	0.0	12666.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	14165.0	0.0	14165.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.0	1.3
10°-20°	603.1	4.3
20°-30°	1091.1	7.7
30°-40°	1706.2	12.0
40°-50°	2588.4	18.3
50°-60°	3288.6	23.2
60°-70°	3072.8	21.7
70°-80°	1527.2	10.8
80°-90°	102.6	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°	14165.0	100.0
0°-180°	14165.0	100.0

Coefficient of Utilization



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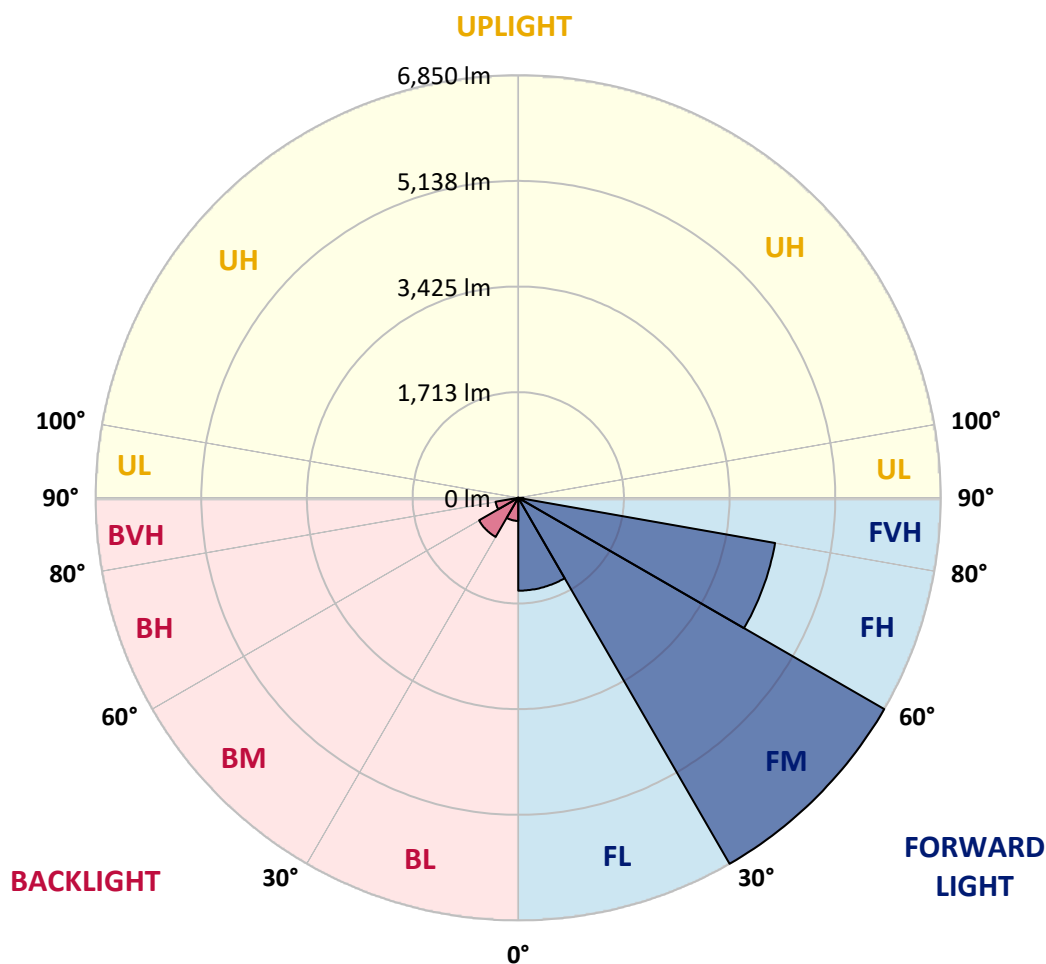
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1505.0	10.6			
FM	(30°-60°)	6850.4	48.4			
FH	(60°-80°)	4226.9	29.8			G2/5000
FVH	(80°-90°)	84.4	0.6			G1/100
BL	(0°-30°)	374.2	2.6	B1/500		
BM	(30°-60°)	732.8	5.2	B1/1000		
BH	(60°-80°)	373.1	2.6	B1/500		G1/500
BVH	(80°-90°)	18.2	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°	1874.7	1874.7	1874.7	1874.7	1874.7	1874.7	1874.7	1874.7	1874.7	1874.7	1874.7
2.5°	2189.6	2207.4	2216.3	2219.3	2151.0	2121.2	2091.5	2023.2	2008.4	1969.7	1919.2
5°	2575.8	2599.6	2593.6	2581.7	2498.6	2403.5	2326.2	2198.5	2177.7	2085.6	1972.7
7.5°	2956.1	2976.9	2970.9	2926.4	2834.3	2700.6	2572.8	2385.7	2356.0	2207.4	2026.2
10°	3274.0	3291.8	3288.8	3244.3	3134.3	2970.9	2816.4	2566.9	2531.2	2320.3	2070.7
12.5°	3535.4	3559.2	3556.2	3526.5	3428.5	3250.2	3074.9	2774.9	2730.3	2457.0	2133.1
15°	3740.4	3770.1	3770.1	3758.2	3689.9	3541.4	3342.3	3003.6	2950.1	2614.4	2210.4
17.5°	3865.2	3889.0	3909.8	3930.5	3883.0	3770.1	3588.9	3232.4	3175.9	2768.9	2290.6
20°	3930.5	3954.3	3969.2	4013.7	4022.6	3966.2	3823.6	3458.2	3398.7	2944.2	2382.7
22.5°	4037.5	4058.3	4061.3	4099.9	4117.7	4132.6	4043.4	3681.0	3633.5	3137.3	2486.7
25°	4215.8	4239.5	4230.6	4248.4	4251.4	4269.2	4260.3	3936.5	3889.0	3357.2	2611.5
27.5°	4444.5	4474.2	4468.3	4450.5	4423.7	4408.9	4447.5	4195.0	4150.4	3577.0	2739.2
30°	4691.1	4726.8	4717.8	4682.2	4610.9	4548.5	4602.0	4438.6	4397.0	3802.8	2881.8
32.5°	4940.7	4982.3	4979.3	4919.9	4798.1	4691.1	4771.3	4667.3	4637.6	4046.4	3036.3
35°	5104.1	5157.5	5151.6	5116.0	4958.5	4866.4	4964.4	4902.0	4881.2	4343.5	3259.1
37.5°	5368.5	5424.9	5374.4	5285.3	5104.1	5056.5	5175.4	5166.5	5151.6	4658.4	3493.8
40°	6010.2	6093.4	5959.7	5594.3	5297.2	5255.6	5424.9	5460.6	5445.7	4970.4	3704.8
42.5°	6681.6	6806.4	6598.4	6093.4	5647.7	5496.2	5698.3	5748.8	5730.9	5237.8	3894.9
45°	7088.7	7142.1	6934.2	6542.0	6268.7	5787.4	5989.4	6072.6	6057.7	5558.6	4138.5
47.5°	7421.4	7400.6	7162.9	6898.5	6949.0	6197.4	6319.2	6482.6	6470.7	5912.2	4405.9
50°	7492.7	7445.2	7350.1	7183.7	7317.4	6613.3	6666.8	6949.0	6937.1	6304.3	4676.3
52.5°	6990.6	6928.2	7186.7	7326.3	7281.8	6916.3	7050.0	7460.0	7454.1	6729.2	4934.7
55°	5736.9	5686.4	6381.6	7103.5	7243.1	7130.2	7474.9	7991.8	8024.5	7180.8	5169.4
57.5°	4512.9	4459.4	5142.7	6545.0	7100.5	7326.3	7971.0	8600.9	8642.5	7671.0	5392.2
60°	3597.8	3517.6	4040.5	5665.6	6833.2	7477.8	8449.3	9269.3	9275.3	8119.6	5528.9
62.5°	2445.1	2356.0	2935.3	4551.5	6384.5	7501.6	8817.7	9845.7	9869.4	8455.3	5552.7
65°	1485.5	1411.2	1803.4	3324.5	5722.0	7299.6	8823.7	10270.5	10291.3	8609.8	5410.1
67.5°	861.6	831.9	1030.9	2070.7	4622.8	6755.9	8452.3	10205.2	10243.8	8544.4	5086.2
70°	502.1	499.1	573.4	1025.0	3262.1	5677.5	7623.4	9655.5	9712.0	8202.8	4590.1
72.5°	368.4	374.3	404.0	549.6	1889.5	4088.0	6455.8	8550.4	8636.5	7534.3	3883.0
75°	291.2	294.1	320.9	374.3	992.3	2311.4	4836.7	6862.9	6931.2	6342.9	3033.3
77.5°	216.9	222.8	243.6	264.4	460.5	1060.6	2721.4	4227.6	4114.7	3481.9	1464.7
80°	157.5	172.3	181.2	190.1	243.6	410.0	817.0	1473.6	1461.7	1521.1	692.2
82.5°	101.0	112.9	121.8	127.8	145.6	196.1	243.6	329.8	356.5	591.2	276.3
85°	44.6	50.5	56.4	68.3	62.4	68.3	101.0	65.4	56.4	89.1	50.5
87.5°	0.0	0.0	8.9	14.9	11.9	5.9	17.8	11.9	8.9	8.9	8.9
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°	1874.7	1874.7	1874.7	1874.7	1874.7	1874.7	1874.7	1874.7	1874.7	1874.7	1874.7
2.5°	1892.5	1859.8	1791.5	1726.1	1687.5	1637.0	1592.4	1550.8	1547.9	1536.0	1515.2
5°	1916.3	1853.9	1726.1	1604.3	1512.2	1414.2	1331.0	1265.6	1241.9	1224.0	1200.3
7.5°	1940.0	1842.0	1651.8	1473.6	1328.0	1191.3	1093.3	1004.2	977.4	953.7	938.8
10°	1948.9	1821.2	1565.7	1328.0	1137.9	992.3	888.3	822.9	799.2	787.3	778.4
12.5°	1975.7	1809.3	1485.5	1191.3	971.5	837.8	763.5	724.9	716.0	707.1	698.2
15°	2011.3	1809.3	1405.3	1057.7	840.8	733.8	689.3	662.5	656.6	653.6	647.7
17.5°	2049.9	1809.3	1328.0	944.8	745.7	665.5	632.8	618.0	615.0	612.0	609.0
20°	2103.4	1812.3	1244.8	846.7	677.4	615.0	588.2	570.4	567.4	564.5	564.5
22.5°	2156.9	1818.2	1164.6	772.4	632.8	576.4	543.7	525.9	519.9	519.9	519.9
25°	2225.2	1836.0	1090.3	710.1	594.2	540.7	499.1	484.3	481.3	481.3	478.3
27.5°	2305.4	1856.8	1025.0	662.5	555.6	499.1	457.5	442.7	436.7	436.7	433.8
30°	2391.6	1877.6	971.5	626.9	516.9	457.5	418.9	401.1	395.1	398.1	395.1
32.5°	2486.7	1907.3	929.9	603.1	481.3	421.9	386.2	365.4	362.5	362.5	359.5
35°	2647.1	1990.5	924.0	591.2	451.6	395.1	359.5	338.7	335.7	335.7	332.7
37.5°	2819.4	2085.6	950.7	585.3	427.8	371.4	338.7	317.9	314.9	314.9	314.9
40°	2965.0	2156.9	980.4	585.3	413.0	350.6	320.9	303.0	303.0	303.0	303.0
42.5°	3063.0	2162.8	974.5	585.3	401.1	335.7	309.0	291.2	291.2	294.1	291.2
45°	3208.6	2192.6	950.7	576.4	392.2	323.8	297.1	282.2	279.3	282.2	282.2
47.5°	3380.9	2246.0	926.9	540.7	389.2	311.9	288.2	270.4	267.4	270.4	267.4
50°	3544.3	2293.6	915.0	493.2	383.3	300.1	276.3	258.5	255.5	258.5	255.5
52.5°	3681.0	2314.4	894.3	460.5	368.4	288.2	264.4	246.6	240.6	243.6	243.6
55°	3790.9	2308.4	864.5	433.8	341.7	276.3	249.6	234.7	225.8	225.8	222.8
57.5°	3891.9	2311.4	837.8	407.0	311.9	258.5	237.7	219.8	208.0	205.0	202.0
60°	3930.5	2296.5	790.3	371.4	282.2	243.6	222.8	202.0	190.1	187.2	184.2
62.5°	3877.1	2243.1	727.9	309.0	255.5	225.8	208.0	187.2	175.3	172.3	169.3
65°	3725.6	2142.0	632.8	243.6	231.7	205.0	190.1	175.3	160.4	154.5	151.5
67.5°	3467.1	1996.5	514.0	196.1	205.0	187.2	178.3	160.4	142.6	136.7	133.7
70°	3098.7	1803.4	386.2	166.4	181.2	166.4	160.4	142.6	127.8	121.8	118.8
72.5°	2581.7	1491.4	270.4	142.6	157.5	145.6	139.6	127.8	112.9	104.0	104.0
75°	1951.9	1069.5	178.3	121.8	130.7	124.8	115.9	107.0	98.0	92.1	89.1
77.5°	840.8	415.9	109.9	92.1	107.0	104.0	92.1	86.2	83.2	77.2	77.2
80°	362.5	169.3	68.3	68.3	77.2	74.3	71.3	65.4	65.4	62.4	59.4
82.5°	133.7	68.3	41.6	50.5	56.4	50.5	50.5	50.5	50.5	47.5	47.5
85°	32.7	20.8	20.8	29.7	32.7	29.7	32.7	29.7	29.7	29.7	26.7
87.5°	8.9	8.9	11.9	11.9	11.9	11.9	11.9	8.9	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)