

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: P841622

Luminaire Tested: **ARCH4-200-750-U-T2R-HSS**

Issue Date: 5/27/2024

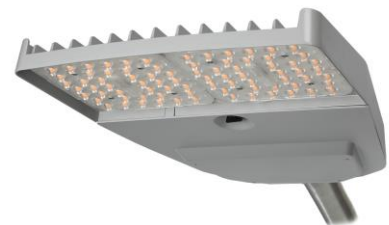
Test Information

Test Method: LM-79-08
Report Number: P841622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-200-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22824 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

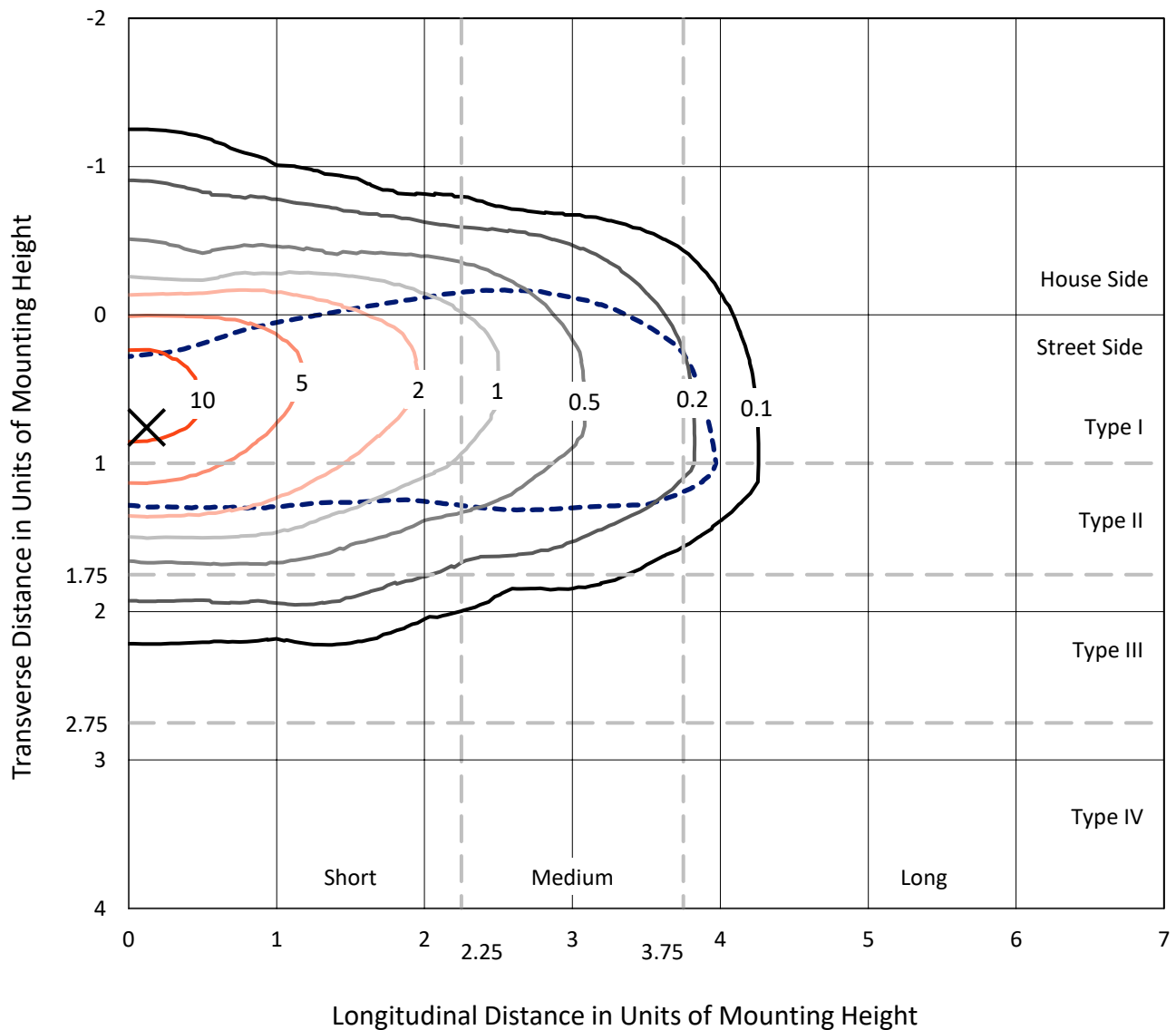
Input Watts (W): 203.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

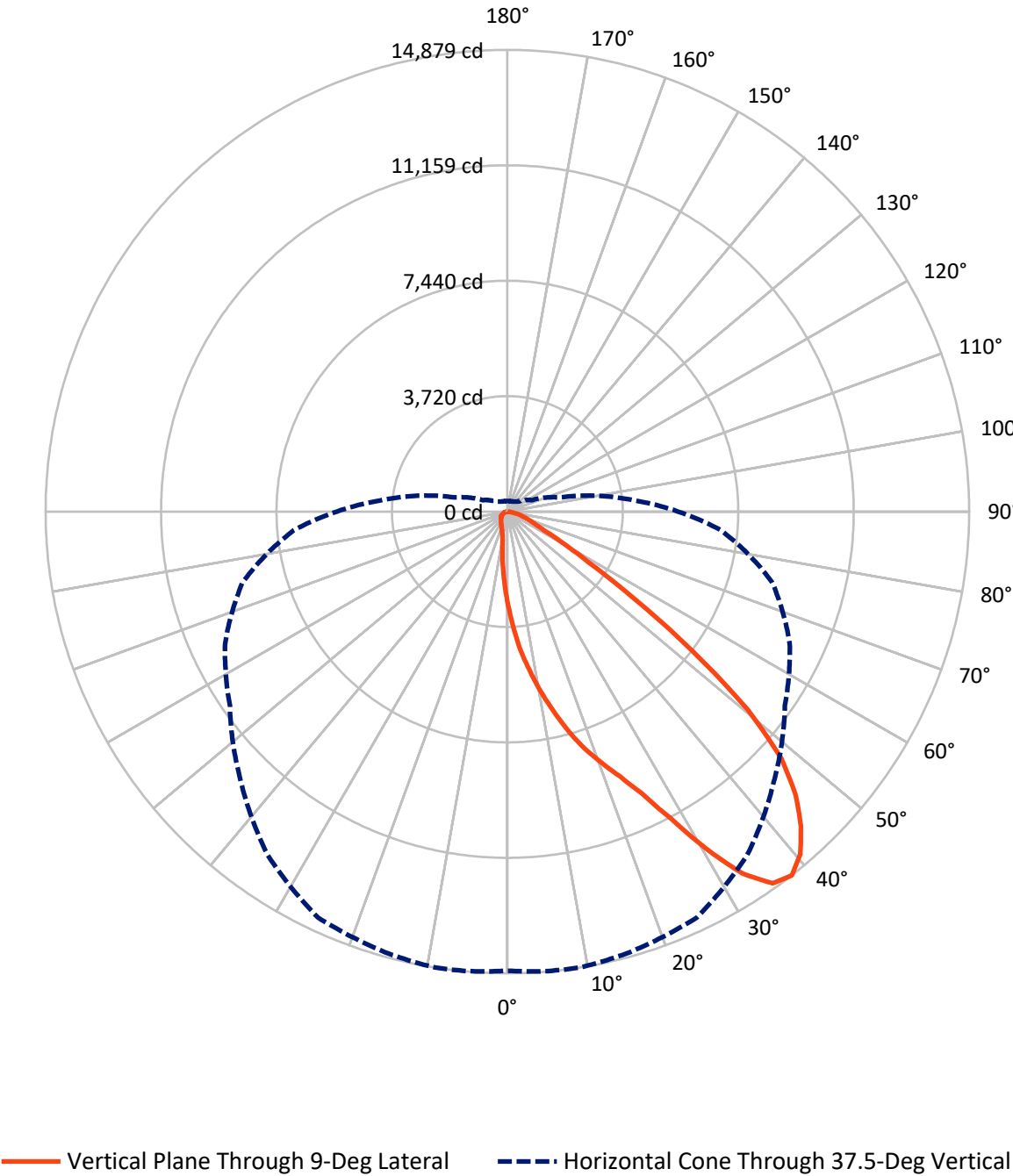
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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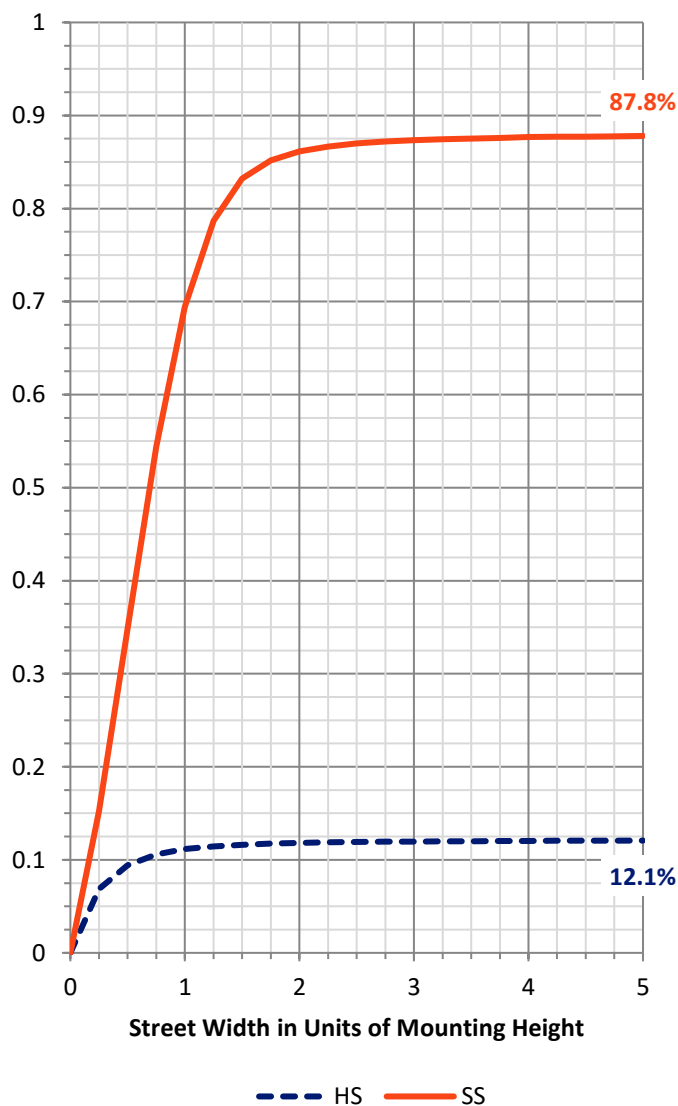
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2775.8	0.0	2775.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	20048.2	0.0	20048.2
	% Fixture	87.8	0.0	87.8
Total	Lumens	22824.0	0.0	22824.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.3	1.3
10°-20°	1054.0	4.6
20°-30°	2165.8	9.5
30°-40°	3828.2	16.8
40°-50°	5085.5	22.3
50°-60°	4823.2	21.1
60°-70°	3679.7	16.1
70°-80°	1783.9	7.8
80°-90°	100.4	0.4
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°	22824.0	100.0
0°-180°	22824.0	100.0

Coefficient of Utilization



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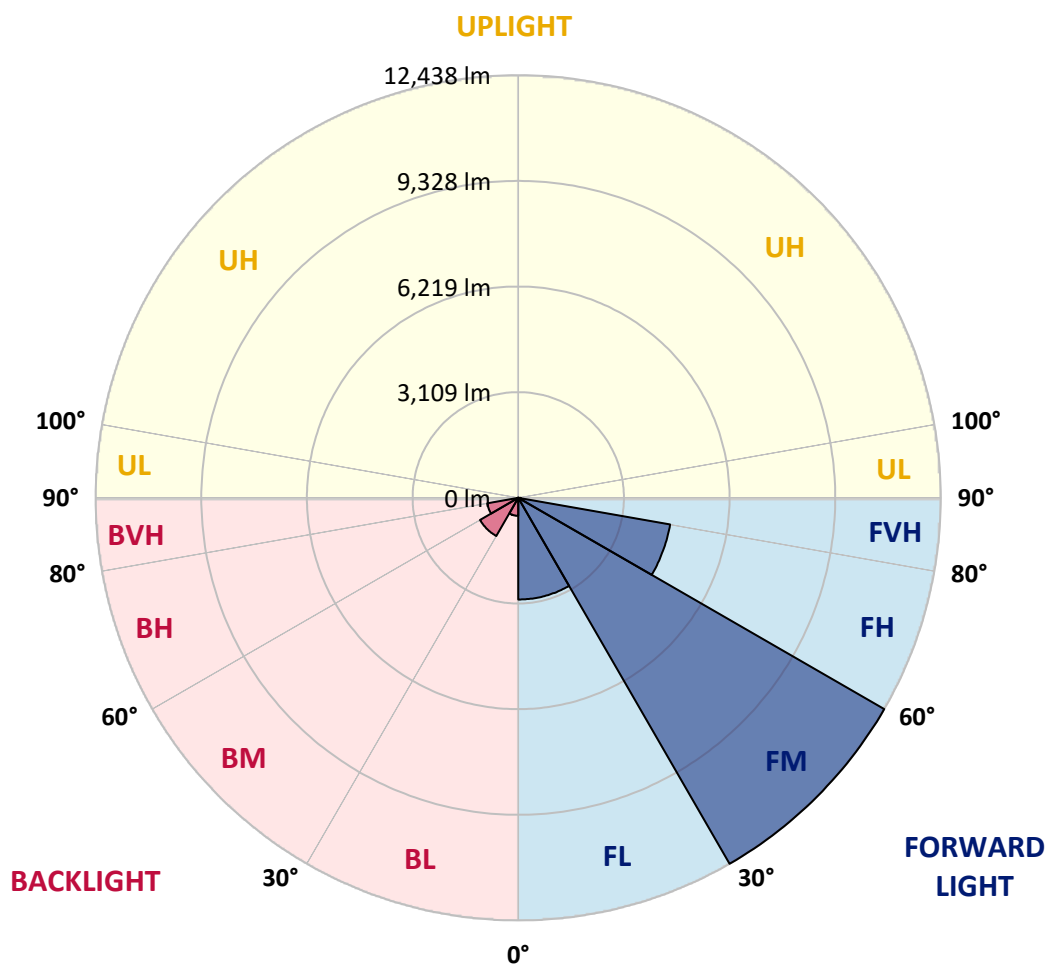
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2993.4	13.1			
FM	(30°-60°)	12438.0	54.5			
FH	(60°-80°)	4537.3	19.9			G2/5000
FVH	(80°-90°)	79.5	0.3			G1/100
BL	(0°-30°)	529.7	2.3	B2/1000		
BM	(30°-60°)	1298.9	5.7	B2/2500		
BH	(60°-80°)	926.3	4.1	B2/1000		G2/1000
BVH	(80°-90°)	20.9	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1
2.5°	3738.5	3672.9	3747.9	3738.5	3672.9	3630.8	3499.6	3457.4	3302.8	3190.4	3092.0
5°	4506.8	4441.3	4506.8	4488.1	4394.4	4291.3	4075.8	3935.3	3658.9	3415.3	3195.1
7.5°	5144.0	5144.0	5172.1	5176.8	5064.3	4905.1	4638.0	4427.2	4038.4	3663.6	3312.2
10°	5832.7	5837.3	5898.3	5856.1	5706.2	5490.7	5153.4	4886.3	4417.8	3925.9	3424.6
12.5°	6568.2	6572.9	6591.6	6572.9	6394.8	6118.4	5710.9	5359.5	4820.7	4225.8	3579.2
15°	7303.7	7308.4	7331.8	7299.0	7102.3	6779.0	6315.2	5884.2	5247.1	4563.1	3766.6
17.5°	7992.4	8001.8	8020.5	7978.3	7772.2	7388.0	6914.9	6394.8	5701.5	4923.8	3977.5
20°	8610.8	8620.2	8634.2	8578.0	8371.9	7987.7	7477.1	6933.6	6165.3	5293.9	4207.0
22.5°	9233.9	9243.2	9266.7	9191.7	8962.2	8521.8	8020.5	7458.3	6657.2	5701.5	4474.1
25°	10030.3	10039.7	10058.4	9950.7	9636.8	9121.4	8592.1	8015.8	7191.3	6160.6	4802.0
27.5°	11196.8	11187.5	11187.5	10990.7	10451.9	9782.0	9168.3	8582.7	7767.5	6652.5	5162.7
30°	12639.8	12616.4	12602.3	12335.3	11566.9	10526.9	9758.6	9112.1	8320.3	7172.5	5551.6
32.5°	13932.8	13932.8	13904.7	13623.6	12808.4	11529.5	10386.4	9627.4	8854.4	7697.2	5954.5
35°	14696.4	14729.2	14715.2	14504.4	13909.4	12607.0	11234.3	10245.8	9416.6	8245.4	6437.0
37.5°	14799.5	14865.1	14879.1	14752.7	14438.8	13487.7	12176.0	10915.7	10035.0	8835.7	6905.5
40°	14382.6	14523.1	14523.1	14504.4	14391.9	13904.7	12967.7	11693.4	10672.1	9449.4	7378.7
42.5°	13740.7	13886.0	13867.2	13937.5	13909.4	13806.3	13412.8	12419.6	11309.3	10081.8	7809.7
45°	12902.1	13052.0	13014.6	13141.1	13197.3	13309.7	13365.9	12925.6	11937.1	10770.5	8292.2
47.5°	11557.6	11810.6	11866.8	12091.7	12325.9	12677.3	12944.3	13108.3	12522.7	11510.7	8816.9
50°	9571.2	9927.2	10039.7	10512.8	11154.7	11880.8	12311.8	12883.4	12934.9	12269.7	9383.8
52.5°	6854.0	7266.2	7439.6	8217.3	9538.4	10803.3	11581.0	12386.8	13094.2	12995.8	9997.5
55°	4431.9	4783.3	4951.9	5682.7	7439.6	9426.0	10719.0	11745.0	13005.2	13661.1	10700.2
57.5°	2731.3	2932.7	3045.2	3672.9	5289.2	7659.8	9589.9	11154.7	12733.5	14237.3	11431.1
60°	1841.2	1958.3	2014.5	2309.6	3593.3	5724.9	8039.2	10536.3	12377.4	14626.2	12096.3
62.5°	1222.8	1260.2	1316.4	1499.2	2370.5	4019.6	6174.7	9430.6	12110.4	14649.6	12588.2
65°	946.3	965.1	988.5	1068.2	1461.7	2810.9	4342.9	7641.0	11712.2	14153.0	12742.8
67.5°	744.9	763.6	791.7	833.9	1058.8	1906.7	2956.2	5598.4	10897.0	13375.3	12489.9
70°	585.6	599.7	618.4	655.9	824.5	1382.0	1953.6	3719.8	9252.6	12635.1	11693.4
72.5°	463.8	477.9	496.6	534.1	669.9	1011.9	1339.9	2319.0	7135.1	11730.9	10161.5
75°	365.4	374.8	388.8	426.3	538.8	787.1	908.9	1386.7	4848.8	10077.2	7917.4
77.5°	182.7	224.9	257.7	295.1	393.5	543.4	604.3	768.3	2047.3	5172.1	3776.0
80°	107.8	131.2	140.5	164.0	257.7	327.9	327.9	309.2	646.5	1986.4	1541.3
82.5°	60.9	84.3	89.0	93.7	154.6	187.4	149.9	112.4	131.2	665.3	449.7
85°	18.7	28.1	32.8	37.5	51.5	56.2	51.5	46.8	37.5	65.6	42.2
87.5°	0.0	0.0	0.0	0.0	4.7	9.4	9.4	9.4	14.1	14.1	14.1
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°	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1	3017.1
2.5°	3035.8	2974.9	2857.8	2750.0	2647.0	2572.0	2501.7	2436.1	2389.3	2351.8	2347.1
5°	3078.0	2956.2	2731.3	2520.5	2328.4	2169.1	2033.2	1925.5	1845.8	1789.6	1784.9
7.5°	3134.2	2946.8	2604.8	2290.9	2005.1	1775.6	1578.8	1433.6	1330.5	1288.3	1255.5
10°	3181.0	2937.4	2478.3	2061.3	1686.6	1396.1	1161.8	1016.6	941.7	913.5	899.5
12.5°	3260.7	2946.8	2370.5	1850.5	1410.1	1068.2	890.1	810.5	777.7	754.3	749.6
15°	3377.8	2988.9	2267.5	1644.4	1129.1	862.0	758.9	707.4	674.6	669.9	665.3
17.5°	3494.9	3026.4	2173.8	1433.6	937.0	749.6	679.3	637.1	613.7	609.0	609.0
20°	3630.8	3073.3	2070.7	1232.1	801.1	674.6	618.4	585.6	557.5	552.8	552.8
22.5°	3790.1	3138.9	1972.3	1054.1	712.1	618.4	571.6	534.1	510.7	506.0	506.0
25°	4005.6	3237.2	1892.7	922.9	651.2	571.6	529.4	496.6	477.9	468.5	468.5
27.5°	4244.5	3373.1	1836.5	843.3	609.0	534.1	491.9	463.8	445.1	435.7	435.7
30°	4511.5	3523.0	1799.0	810.5	585.6	501.3	463.8	435.7	412.3	407.6	407.6
32.5°	4806.7	3696.4	1775.6	815.2	580.9	477.9	435.7	407.6	388.8	379.5	379.5
35°	5134.6	3888.4	1761.5	843.3	590.3	459.1	412.3	384.2	365.4	356.1	356.1
37.5°	5500.0	4113.3	1761.5	871.4	613.7	454.4	388.8	360.7	346.7	337.3	337.3
40°	5842.0	4352.2	1780.3	904.2	637.1	454.4	370.1	346.7	327.9	318.6	318.6
42.5°	6109.1	4488.1	1794.3	937.0	651.2	449.7	351.4	327.9	313.9	304.5	304.5
45°	6413.6	4633.3	1766.2	951.0	651.2	440.4	337.3	313.9	299.8	290.5	290.5
47.5°	6750.9	4811.4	1761.5	960.4	637.1	421.6	323.3	299.8	290.5	281.1	281.1
50°	7092.9	5008.1	1770.9	955.7	618.4	393.5	304.5	290.5	276.4	267.0	267.0
52.5°	7481.7	5214.3	1789.6	946.3	576.2	360.7	290.5	276.4	262.4	253.0	248.3
55°	7912.7	5439.1	1827.1	927.6	520.0	327.9	276.4	262.4	243.6	234.2	229.6
57.5°	8409.3	5715.5	1869.3	890.1	459.1	299.8	262.4	243.6	215.5	201.4	196.8
60°	8882.5	6029.4	1916.1	801.1	398.2	271.7	248.3	220.2	192.1	182.7	178.0
62.5°	9327.6	6338.6	1939.5	641.8	337.3	248.3	234.2	201.4	173.3	164.0	159.3
65°	9613.4	6675.9	1888.0	435.7	276.4	229.6	215.5	187.4	159.3	145.2	145.2
67.5°	9632.1	6835.2	1710.0	285.8	224.9	206.1	196.8	168.7	140.5	131.2	126.5
70°	9158.9	6596.3	1307.1	224.9	187.4	178.0	178.0	149.9	121.8	112.4	107.8
72.5°	8072.0	5842.0	833.9	182.7	159.3	149.9	149.9	126.5	107.8	93.7	89.0
75°	6371.4	4506.8	445.1	149.9	131.2	126.5	117.1	103.1	89.0	79.6	75.0
77.5°	2928.0	1986.4	206.1	107.8	98.4	98.4	89.0	75.0	70.3	60.9	60.9
80°	1157.2	674.6	103.1	70.3	65.6	65.6	65.6	51.5	51.5	42.2	37.5
82.5°	318.6	140.5	51.5	42.2	42.2	42.2	37.5	32.8	32.8	28.1	28.1
85°	32.8	23.4	23.4	23.4	23.4	18.7	18.7	14.1	9.4	9.4	9.4
87.5°	14.1	14.1	14.1	14.1	14.1	9.4	4.7	0.0	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)