

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: P835964

Luminaire Tested: **ARCH3-120-730-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-120-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12897 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

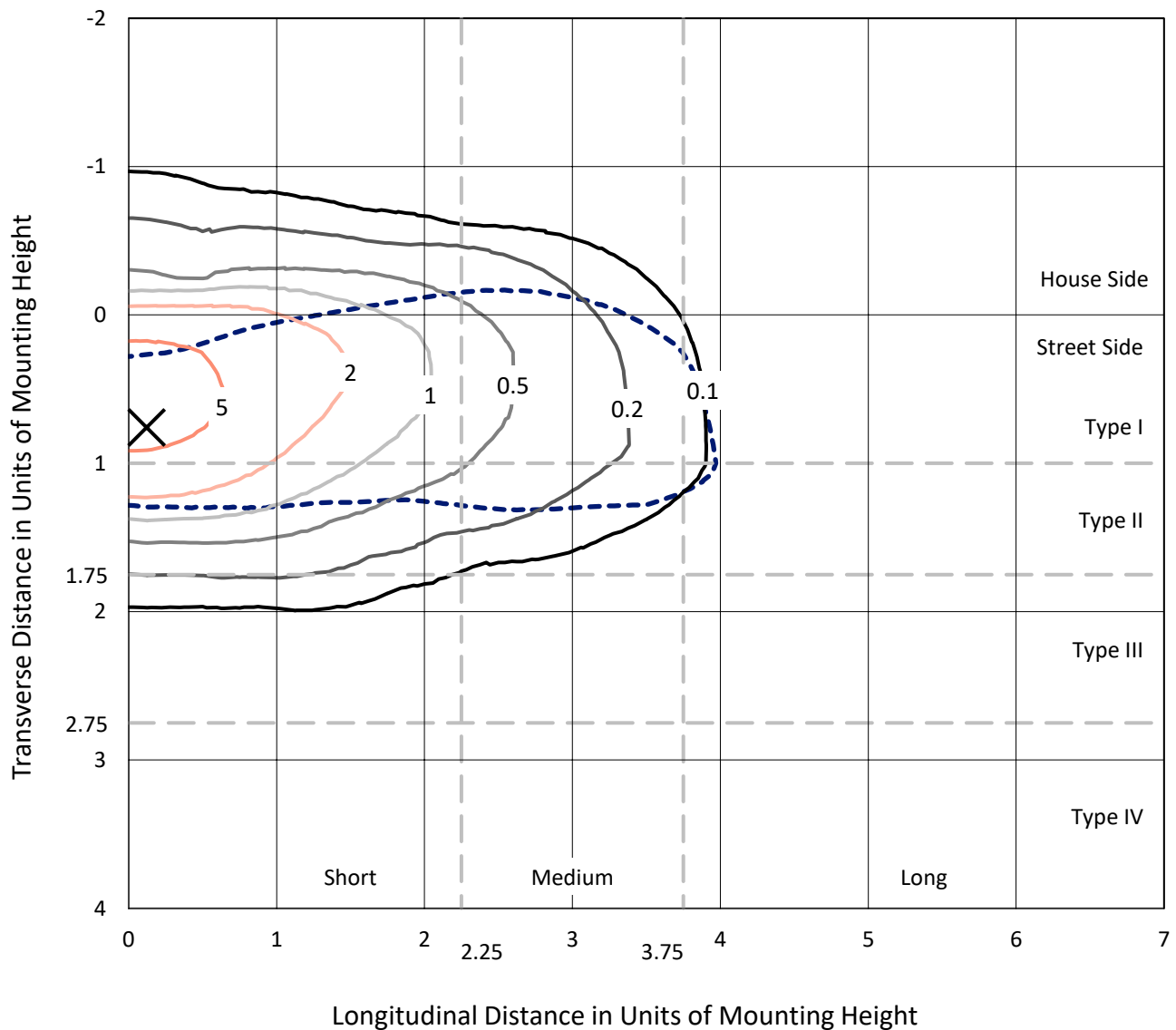
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

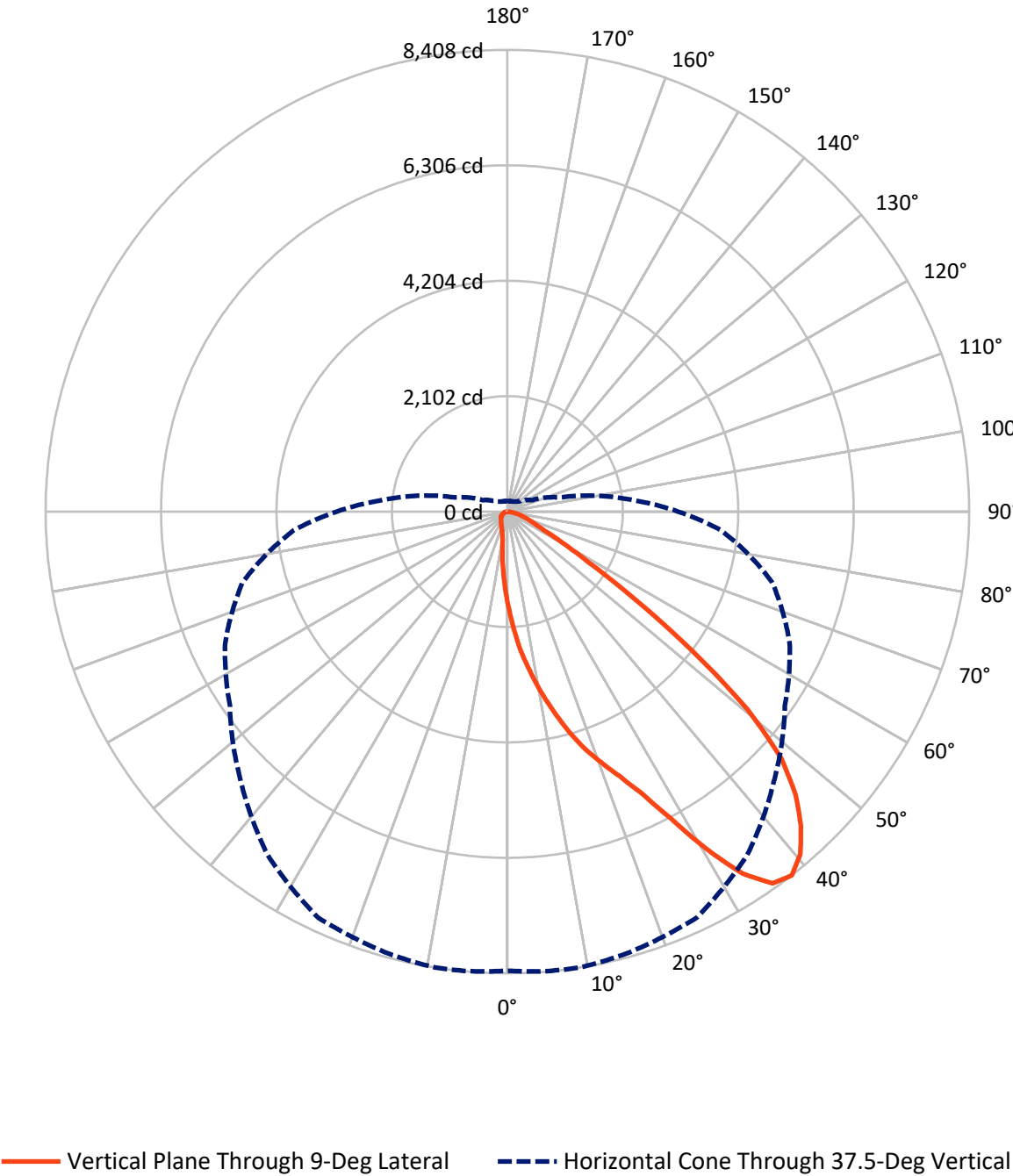
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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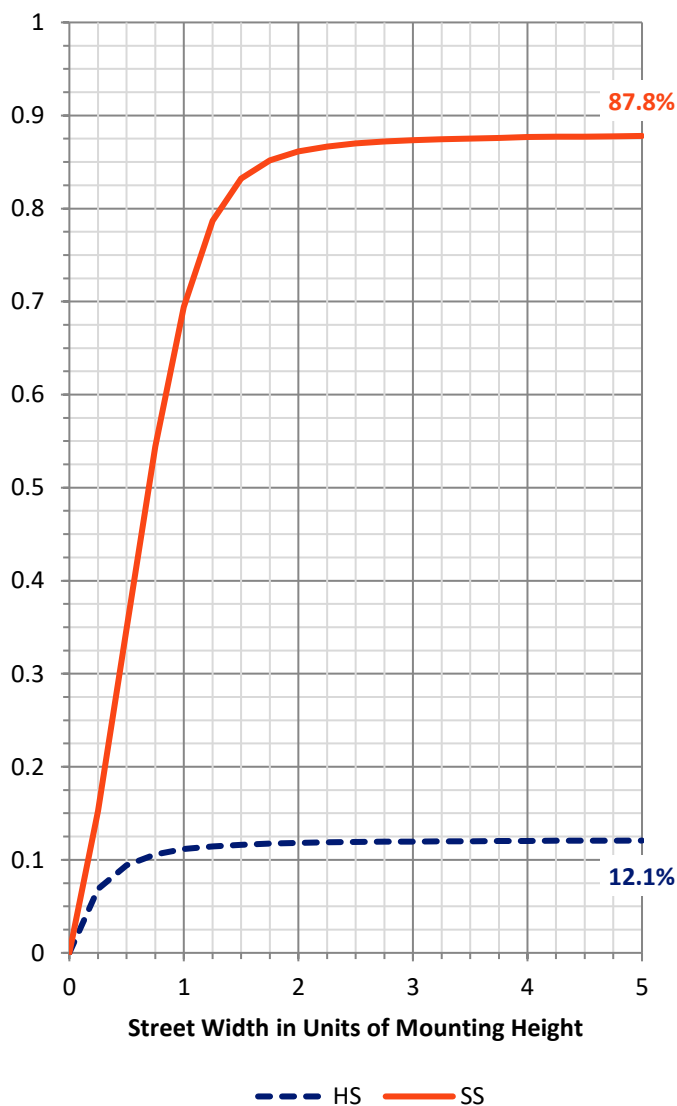
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1568.5	0.0	1568.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	11328.5	0.0	11328.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	12897.0	0.0	12897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	1.3
10°-20°	595.6	4.6
20°-30°	1223.8	9.5
30°-40°	2163.2	16.8
40°-50°	2873.6	22.3
50°-60°	2725.4	21.1
60°-70°	2079.3	16.1
70°-80°	1008.0	7.8
80°-90°	56.7	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°	12897.0	100.0
0°-180°	12897.0	100.0

Coefficient of Utilization



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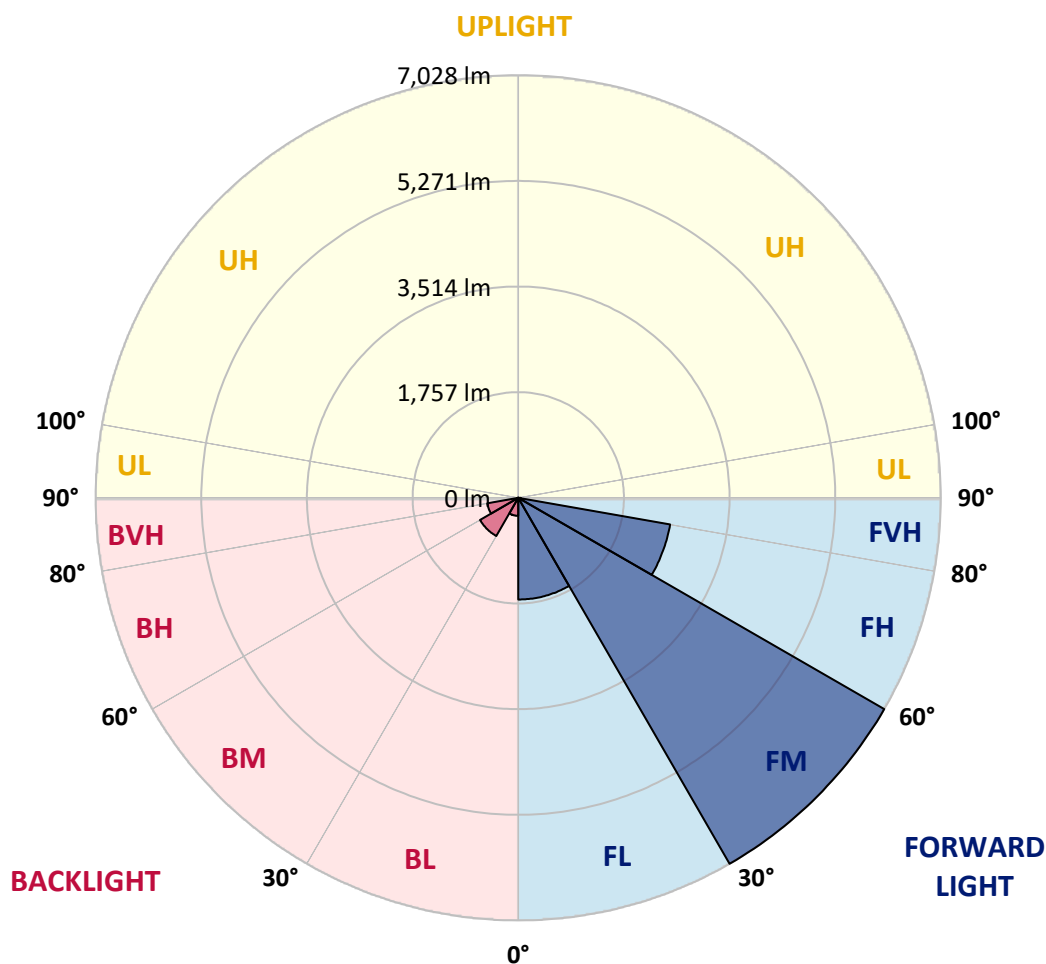
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1691.4	13.1			
FM	(30°-60°)	7028.2	54.5			
FH	(60°-80°)	2563.9	19.9			G2/5000
FVH	(80°-90°)	44.9	0.3			G1/100
BL	(0°-30°)	299.3	2.3	B1/500		
BM	(30°-60°)	734.0	5.7	B1/1000		
BH	(60°-80°)	523.4	4.1	B2/1000		G2/1000
BVH	(80°-90°)	11.8	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°	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8
2.5°	2112.5	2075.4	2117.8	2112.5	2075.4	2051.6	1977.5	1953.7	1866.3	1802.8	1747.2
5°	2546.7	2509.6	2546.7	2536.1	2483.1	2424.9	2303.1	2223.7	2067.5	1929.8	1805.4
7.5°	2906.7	2906.7	2922.6	2925.2	2861.7	2771.7	2620.8	2501.6	2281.9	2070.1	1871.6
10°	3295.8	3298.5	3332.9	3309.1	3224.3	3102.6	2912.0	2761.1	2496.4	2218.4	1935.1
12.5°	3711.4	3714.1	3724.7	3714.1	3613.5	3457.3	3227.0	3028.5	2724.0	2387.8	2022.5
15°	4127.1	4129.7	4142.9	4124.4	4013.2	3830.6	3568.5	3324.9	2964.9	2578.4	2128.4
17.5°	4516.2	4521.5	4532.1	4508.3	4391.8	4174.7	3907.3	3613.5	3221.7	2782.3	2247.5
20°	4865.6	4870.9	4878.9	4847.1	4730.6	4513.6	4225.0	3917.9	3483.8	2991.4	2377.2
22.5°	5217.7	5223.0	5236.3	5193.9	5064.2	4815.3	4532.1	4214.4	3761.7	3221.7	2528.1
25°	5667.8	5673.1	5683.6	5622.8	5445.4	5154.2	4855.1	4529.4	4063.5	3481.1	2713.4
27.5°	6326.9	6321.6	6321.6	6210.4	5906.0	5527.5	5180.7	4849.8	4389.1	3759.1	2917.3
30°	7142.3	7129.0	7121.1	6970.2	6536.1	5948.4	5514.2	5148.9	4701.5	4052.9	3137.0
32.5°	7872.9	7872.9	7857.0	7698.2	7237.6	6514.9	5868.9	5440.1	5003.3	4349.4	3364.7
35°	8304.4	8322.9	8315.0	8195.9	7859.7	7123.7	6348.1	5789.5	5321.0	4659.2	3637.3
37.5°	8362.7	8399.7	8407.7	8336.2	8158.8	7621.4	6880.2	6168.1	5670.4	4992.7	3902.0
40°	8127.0	8206.5	8206.5	8195.9	8132.3	7857.0	7327.6	6607.5	6030.4	5339.5	4169.4
42.5°	7764.4	7846.4	7835.9	7875.6	7859.7	7801.4	7579.1	7017.9	6390.5	5696.9	4413.0
45°	7290.5	7375.2	7354.1	7425.5	7457.3	7520.8	7552.6	7303.8	6745.2	6086.0	4685.6
47.5°	6530.8	6673.7	6705.5	6832.5	6964.9	7163.5	7314.3	7407.0	7076.1	6504.3	4982.1
50°	5408.3	5609.5	5673.1	5940.4	6303.1	6713.4	6957.0	7279.9	7309.1	6933.1	5302.4
52.5°	3872.9	4105.9	4203.8	4643.3	5389.8	6104.6	6544.0	6999.3	7399.1	7343.5	5649.2
55°	2504.3	2702.8	2798.1	3211.1	4203.8	5326.3	6056.9	6636.6	7348.8	7719.4	6046.3
57.5°	1543.3	1657.2	1720.7	2075.4	2988.7	4328.2	5418.9	6303.1	7195.2	8045.0	6459.3
60°	1040.4	1106.5	1138.3	1305.1	2030.4	3234.9	4542.7	5953.7	6994.0	8264.7	6835.2
62.5°	690.9	712.1	743.9	847.1	1339.5	2271.3	3489.1	5328.9	6843.1	8277.9	7113.2
65°	534.7	545.3	558.6	603.6	825.9	1588.3	2454.0	4317.7	6618.1	7997.3	7200.5
67.5°	420.9	431.5	447.4	471.2	598.3	1077.4	1670.4	3163.5	6157.5	7557.9	7057.6
70°	330.9	338.8	349.4	370.6	465.9	780.9	1103.9	2101.9	5228.3	7139.6	6607.5
72.5°	262.1	270.0	280.6	301.8	378.6	571.8	757.1	1310.4	4031.8	6628.7	5741.9
75°	206.5	211.8	219.7	240.9	304.4	444.7	513.6	783.6	2739.9	5694.2	4473.8
77.5°	103.2	127.1	145.6	166.8	222.4	307.1	341.5	434.1	1156.8	2922.6	2133.7
80°	60.9	74.1	79.4	92.7	145.6	185.3	185.3	174.7	365.3	1122.4	870.9
82.5°	34.4	47.7	50.3	52.9	87.4	105.9	84.7	63.5	74.1	375.9	254.1
85°	10.6	15.9	18.5	21.2	29.1	31.8	29.1	26.5	21.2	37.1	23.8
87.5°	0.0	0.0	0.0	0.0	2.6	5.3	5.3	5.3	7.9	7.9	7.9
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°	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8	1704.8
2.5°	1715.4	1681.0	1614.8	1553.9	1495.7	1453.3	1413.6	1376.6	1350.1	1328.9	1326.3
5°	1739.2	1670.4	1543.3	1424.2	1315.7	1225.7	1148.9	1088.0	1043.0	1011.2	1008.6
7.5°	1771.0	1665.1	1471.9	1294.5	1133.0	1003.3	892.1	810.1	751.8	728.0	709.5
10°	1797.5	1659.8	1400.4	1164.8	953.0	788.9	656.5	574.5	532.1	516.2	508.3
12.5°	1842.5	1665.1	1339.5	1045.7	796.8	603.6	503.0	458.0	439.4	426.2	423.6
15°	1908.7	1688.9	1281.3	929.2	638.0	487.1	428.9	399.7	381.2	378.6	375.9
17.5°	1974.8	1710.1	1228.3	810.1	529.4	423.6	383.9	360.0	346.8	344.1	344.1
20°	2051.6	1736.6	1170.1	696.2	452.7	381.2	349.4	330.9	315.0	312.4	312.4
22.5°	2141.6	1773.7	1114.5	595.6	402.4	349.4	323.0	301.8	288.5	285.9	285.9
25°	2263.4	1829.2	1069.5	521.5	368.0	323.0	299.1	280.6	270.0	264.7	264.7
27.5°	2398.4	1906.0	1037.7	476.5	344.1	301.8	278.0	262.1	251.5	246.2	246.2
30°	2549.3	1990.7	1016.5	458.0	330.9	283.3	262.1	246.2	233.0	230.3	230.3
32.5°	2716.1	2088.7	1003.3	460.6	328.3	270.0	246.2	230.3	219.7	214.4	214.4
35°	2901.4	2197.2	995.4	476.5	333.6	259.4	233.0	217.1	206.5	201.2	201.2
37.5°	3107.9	2324.3	995.4	492.4	346.8	256.8	219.7	203.8	195.9	190.6	190.6
40°	3301.1	2459.3	1006.0	510.9	360.0	256.8	209.1	195.9	185.3	180.0	180.0
42.5°	3452.0	2536.1	1013.9	529.4	368.0	254.1	198.5	185.3	177.4	172.1	172.1
45°	3624.1	2618.1	998.0	537.4	368.0	248.8	190.6	177.4	169.4	164.1	164.1
47.5°	3814.7	2718.7	995.4	542.7	360.0	238.3	182.7	169.4	164.1	158.8	158.8
50°	4007.9	2829.9	1000.7	540.0	349.4	222.4	172.1	164.1	156.2	150.9	150.9
52.5°	4227.7	2946.4	1011.2	534.7	325.6	203.8	164.1	156.2	148.2	143.0	140.3
55°	4471.2	3073.5	1032.4	524.2	293.8	185.3	156.2	148.2	137.7	132.4	129.7
57.5°	4751.8	3229.6	1056.3	503.0	259.4	169.4	148.2	137.7	121.8	113.8	111.2
60°	5019.2	3407.0	1082.7	452.7	225.0	153.5	140.3	124.4	108.5	103.2	100.6
62.5°	5270.7	3581.7	1096.0	362.7	190.6	140.3	132.4	113.8	97.9	92.7	90.0
65°	5432.2	3772.3	1066.8	246.2	156.2	129.7	121.8	105.9	90.0	82.1	82.1
67.5°	5442.7	3862.3	966.2	161.5	127.1	116.5	111.2	95.3	79.4	74.1	71.5
70°	5175.4	3727.3	738.6	127.1	105.9	100.6	100.6	84.7	68.8	63.5	60.9
72.5°	4561.2	3301.1	471.2	103.2	90.0	84.7	84.7	71.5	60.9	52.9	50.3
75°	3600.3	2546.7	251.5	84.7	74.1	71.5	66.2	58.2	50.3	45.0	42.4
77.5°	1654.5	1122.4	116.5	60.9	55.6	55.6	50.3	42.4	39.7	34.4	34.4
80°	653.9	381.2	58.2	39.7	37.1	37.1	37.1	29.1	29.1	23.8	21.2
82.5°	180.0	79.4	29.1	23.8	23.8	23.8	21.2	18.5	18.5	15.9	15.9
85°	18.5	13.2	13.2	13.2	13.2	10.6	10.6	7.9	5.3	5.3	5.3
87.5°	7.9	7.9	7.9	7.9	7.9	5.3	2.6	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)