

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: P836711

Luminaire Tested: **ARCH3-60-750-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836711
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: ARCH3-60-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 505mA 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: 7687 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63.2
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

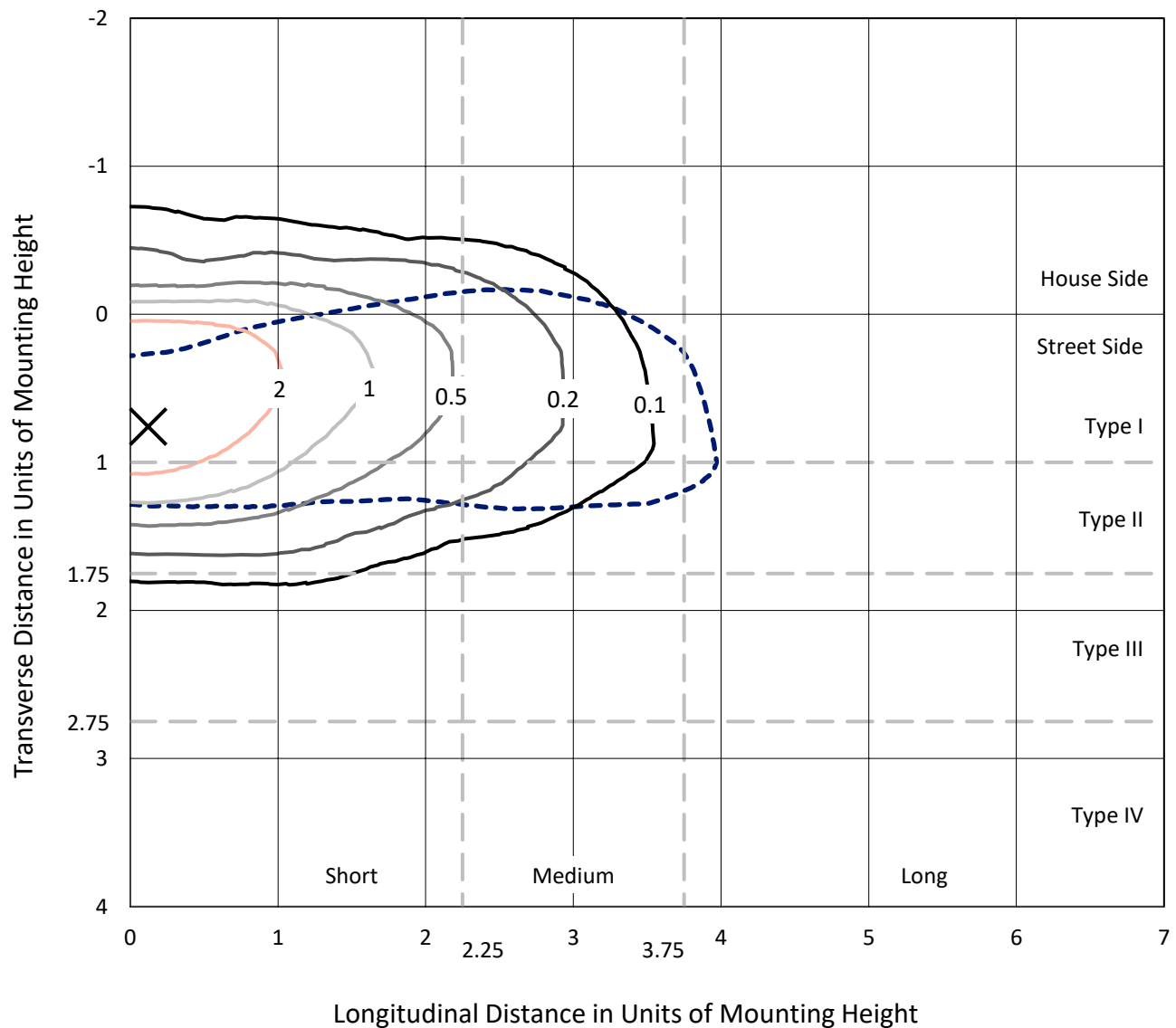


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Iso-Footcandle Lines of Horizontal Illumination

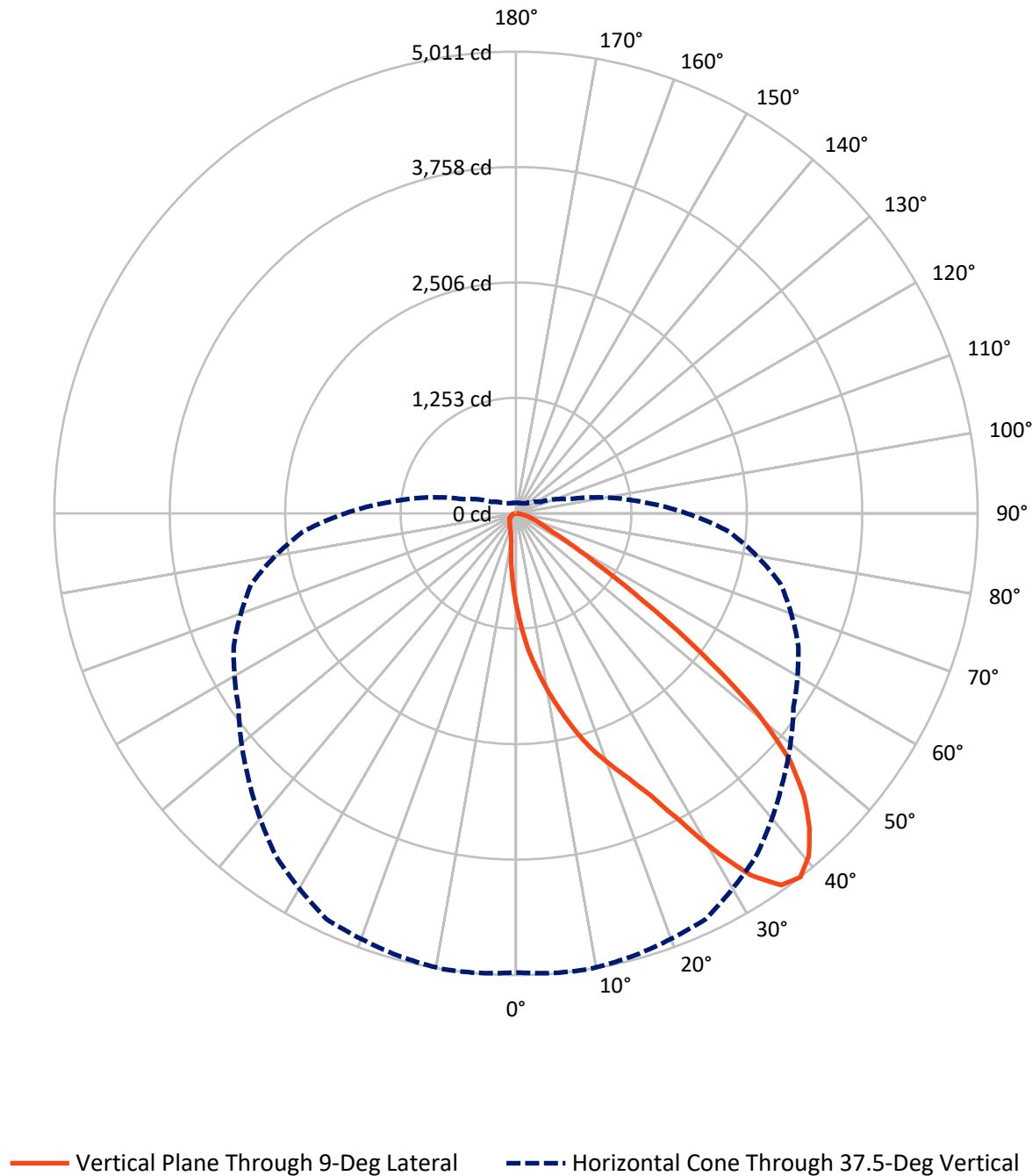
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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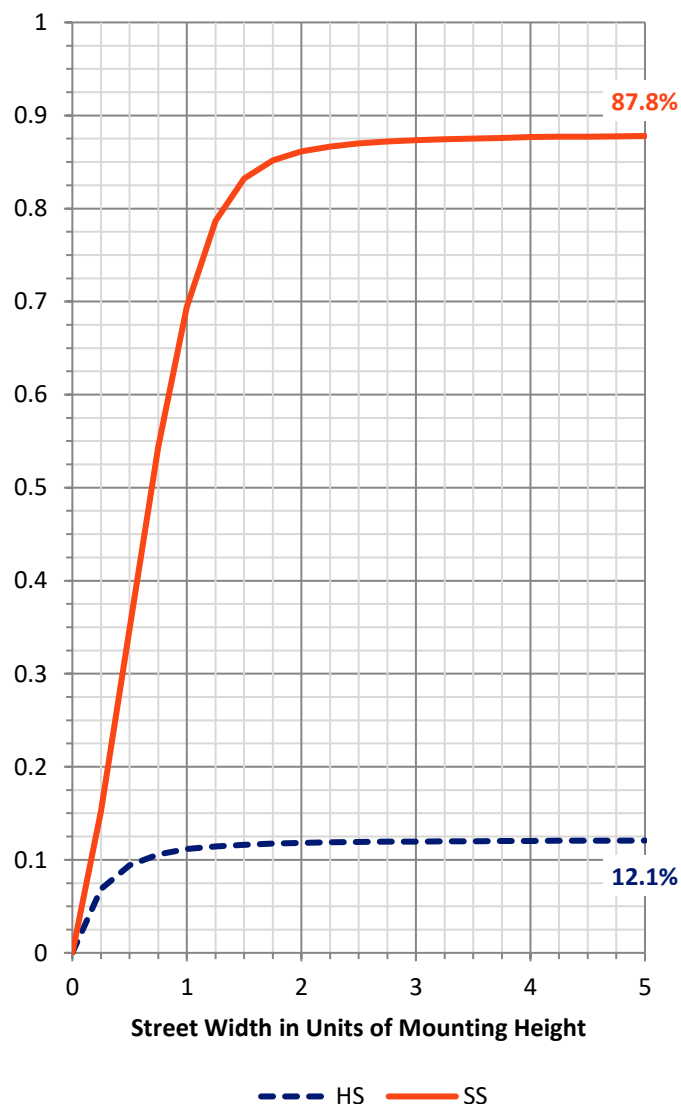
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	934.9	0.0	934.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	6752.1	0.0	6752.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	7687.0	0.0	7687.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	1.3
10°-20°	355.0	4.6
20°-30°	729.4	9.5
30°-40°	1289.3	16.8
40°-50°	1712.8	22.3
50°-60°	1624.4	21.1
60°-70°	1239.3	16.1
70°-80°	600.8	7.8
80°-90°	33.8	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°	7687.0	100.0
0°-180°	7687.0	100.0

Coefficient of Utilization



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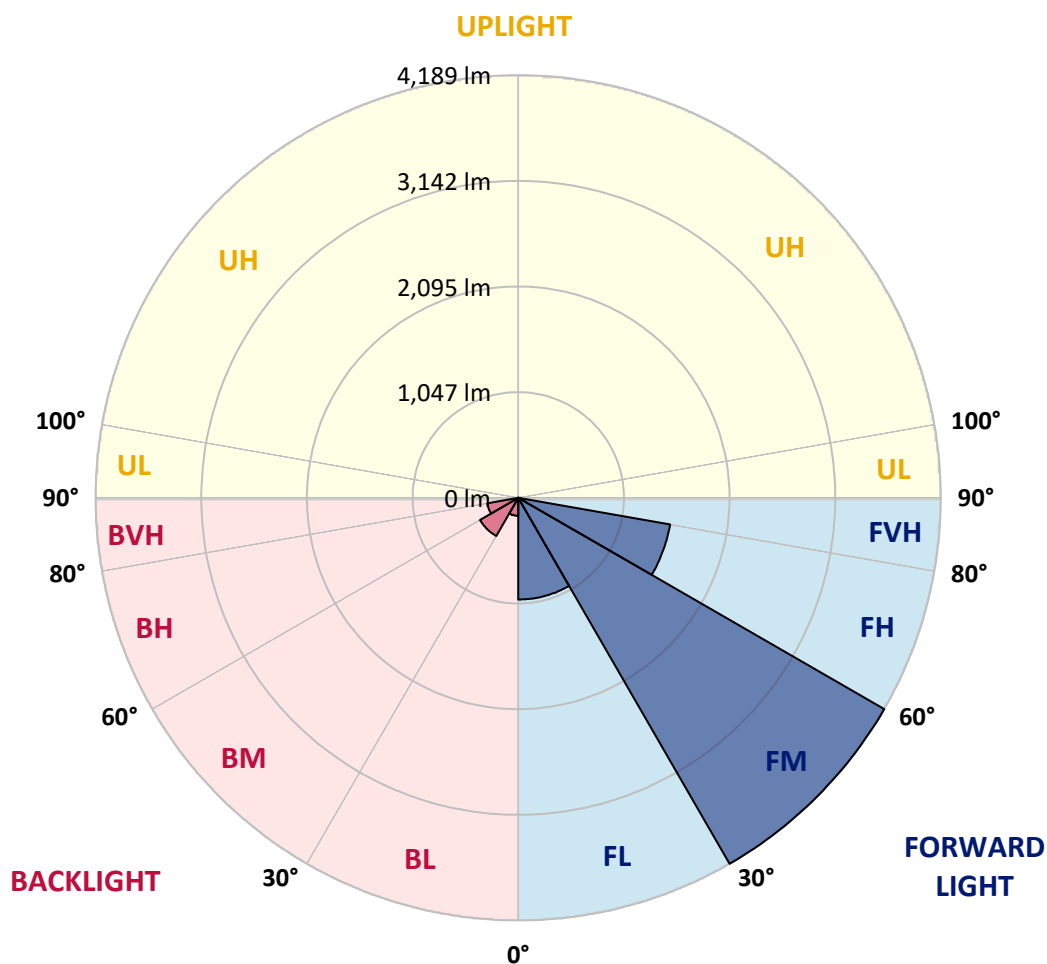
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1008.2	13.1			
FM	(30°-60°)	4189.0	54.5			
FH	(60°-80°)	1528.1	19.9			G1/1800
FVH	(80°-90°)	26.8	0.3			G1/100
BL	(0°-30°)	178.4	2.3	B1/500		
BM	(30°-60°)	437.5	5.7	B1/1000		
BH	(60°-80°)	312.0	4.1	B1/500		G1/500
BVH	(80°-90°)	7.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1
2.5°	1259.1	1237.0	1262.3	1259.1	1237.0	1222.8	1178.6	1164.4	1112.4	1074.5	1041.4
5°	1517.9	1495.8	1517.9	1511.6	1480.0	1445.3	1372.7	1325.4	1232.3	1150.2	1076.1
7.5°	1732.5	1732.5	1741.9	1743.5	1705.6	1652.0	1562.1	1491.1	1360.1	1233.9	1115.5
10°	1964.4	1966.0	1986.5	1972.3	1921.8	1849.2	1735.6	1645.7	1487.9	1322.2	1153.4
12.5°	2212.1	2213.7	2220.0	2213.7	2153.8	2060.7	1923.4	1805.0	1623.6	1423.2	1205.5
15°	2459.9	2461.4	2469.3	2458.3	2392.0	2283.1	2126.9	1981.8	1767.2	1536.8	1268.6
17.5°	2691.8	2694.9	2701.3	2687.1	2617.6	2488.3	2328.9	2153.8	1920.2	1658.3	1339.6
20°	2900.1	2903.2	2908.0	2889.0	2819.6	2690.2	2518.2	2335.2	2076.4	1783.0	1416.9
22.5°	3109.9	3113.1	3121.0	3095.7	3018.4	2870.1	2701.3	2511.9	2242.1	1920.2	1506.8
25°	3378.2	3381.3	3387.6	3351.3	3245.6	3072.1	2893.8	2699.7	2422.0	2074.9	1617.3
27.5°	3771.0	3767.9	3767.9	3701.6	3520.2	3294.5	3087.8	2890.6	2616.1	2240.5	1738.8
30°	4257.0	4249.1	4244.4	4154.5	3895.7	3545.4	3286.6	3068.9	2802.2	2415.7	1869.7
32.5°	4692.5	4692.5	4683.0	4588.4	4313.8	3883.1	3498.1	3242.5	2982.1	2592.4	2005.4
35°	4949.7	4960.7	4956.0	4885.0	4684.6	4246.0	3783.7	3450.7	3171.5	2777.0	2168.0
37.5°	4984.4	5006.5	5011.2	4968.6	4862.9	4542.6	4100.8	3676.4	3379.7	2975.8	2325.7
40°	4844.0	4891.3	4891.3	4885.0	4847.1	4683.0	4367.5	3938.3	3594.3	3182.5	2485.1
42.5°	4627.8	4676.7	4670.4	4694.1	4684.6	4649.9	4517.4	4182.9	3808.9	3395.5	2630.3
45°	4345.4	4395.9	4383.2	4425.8	4444.8	4482.6	4501.6	4353.3	4020.3	3627.5	2792.8
47.5°	3892.5	3977.7	3996.7	4072.4	4151.3	4269.6	4359.6	4414.8	4217.6	3876.8	2969.5
50°	3223.5	3343.4	3381.3	3540.7	3756.8	4001.4	4146.6	4339.1	4356.4	4132.4	3160.4
52.5°	2308.4	2447.2	2505.6	2767.5	3212.5	3638.5	3900.4	4171.8	4410.1	4376.9	3367.1
55°	1492.6	1611.0	1667.8	1913.9	2505.6	3174.6	3610.1	3955.6	4380.1	4601.0	3603.8
57.5°	919.9	987.7	1025.6	1237.0	1781.4	2579.8	3229.8	3756.8	4288.6	4795.1	3849.9
60°	620.1	659.5	678.5	777.9	1210.2	1928.1	2707.6	3548.6	4168.7	4926.0	4074.0
62.5°	411.8	424.4	443.4	504.9	798.4	1353.8	2079.6	3176.2	4078.7	4933.9	4239.7
65°	318.7	325.0	332.9	359.7	492.3	946.7	1462.7	2573.5	3944.6	4766.7	4291.7
67.5°	250.9	257.2	266.7	280.9	356.6	642.2	995.6	1885.5	3670.1	4504.7	4206.5
70°	197.2	202.0	208.3	220.9	277.7	465.5	658.0	1252.8	3116.2	4255.4	3938.3
72.5°	156.2	160.9	167.3	179.9	225.6	340.8	451.3	781.0	2403.0	3950.9	3422.3
75°	123.1	126.2	131.0	143.6	181.5	265.1	306.1	467.0	1633.1	3393.9	2666.5
77.5°	61.5	75.7	86.8	99.4	132.5	183.0	203.5	258.8	689.5	1741.9	1271.7
80°	36.3	44.2	47.3	55.2	86.8	110.4	110.4	104.1	217.7	669.0	519.1
82.5°	20.5	28.4	30.0	31.6	52.1	63.1	50.5	37.9	44.2	224.1	151.5
85°	6.3	9.5	11.0	12.6	17.4	18.9	17.4	15.8	12.6	22.1	14.2
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	3.2	3.2	4.7	4.7	4.7
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°	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1
2.5°	1022.4	1001.9	962.5	926.2	891.5	866.2	842.6	820.5	804.7	792.1	790.5
5°	1036.6	995.6	919.9	848.9	784.2	730.5	684.8	648.5	621.7	602.7	601.2
7.5°	1055.6	992.5	877.3	771.6	675.3	598.0	531.7	482.8	448.1	433.9	422.9
10°	1071.4	989.3	834.7	694.2	568.0	470.2	391.3	342.4	317.1	307.7	302.9
12.5°	1098.2	992.5	798.4	623.2	474.9	359.7	299.8	273.0	261.9	254.0	252.5
15°	1137.6	1006.7	763.7	553.8	380.3	290.3	255.6	238.3	227.2	225.6	224.1
17.5°	1177.1	1019.3	732.1	482.8	315.6	252.5	228.8	214.6	206.7	205.1	205.1
20°	1222.8	1035.1	697.4	415.0	269.8	227.2	208.3	197.2	187.8	186.2	186.2
22.5°	1276.5	1057.2	664.3	355.0	239.8	208.3	192.5	179.9	172.0	170.4	170.4
25°	1349.1	1090.3	637.4	310.8	219.3	192.5	178.3	167.3	160.9	157.8	157.8
27.5°	1429.5	1136.0	618.5	284.0	205.1	179.9	165.7	156.2	149.9	146.7	146.7
30°	1519.5	1186.5	605.9	273.0	197.2	168.8	156.2	146.7	138.8	137.3	137.3
32.5°	1618.9	1244.9	598.0	274.5	195.7	160.9	146.7	137.3	131.0	127.8	127.8
35°	1729.3	1309.6	593.3	284.0	198.8	154.6	138.8	129.4	123.1	119.9	119.9
37.5°	1852.4	1385.3	593.3	293.5	206.7	153.1	131.0	121.5	116.8	113.6	113.6
40°	1967.6	1465.8	599.6	304.5	214.6	153.1	124.6	116.8	110.4	107.3	107.3
42.5°	2057.5	1511.6	604.3	315.6	219.3	151.5	118.3	110.4	105.7	102.6	102.6
45°	2160.1	1560.5	594.8	320.3	219.3	148.3	113.6	105.7	101.0	97.8	97.8
47.5°	2273.7	1620.4	593.3	323.5	214.6	142.0	108.9	101.0	97.8	94.7	94.7
50°	2388.8	1686.7	596.4	321.9	208.3	132.5	102.6	97.8	93.1	89.9	89.9
52.5°	2519.8	1756.1	602.7	318.7	194.1	121.5	97.8	93.1	88.4	85.2	83.6
55°	2665.0	1831.9	615.4	312.4	175.1	110.4	93.1	88.4	82.0	78.9	77.3
57.5°	2832.2	1925.0	629.6	299.8	154.6	101.0	88.4	82.0	72.6	67.8	66.3
60°	2991.6	2030.7	645.3	269.8	134.1	91.5	83.6	74.2	64.7	61.5	60.0
62.5°	3141.5	2134.8	653.2	216.2	113.6	83.6	78.9	67.8	58.4	55.2	53.6
65°	3237.7	2248.4	635.9	146.7	93.1	77.3	72.6	63.1	53.6	48.9	48.9
67.5°	3244.0	2302.1	575.9	96.2	75.7	69.4	66.3	56.8	47.3	44.2	42.6
70°	3084.7	2221.6	440.2	75.7	63.1	60.0	60.0	50.5	41.0	37.9	36.3
72.5°	2718.6	1967.6	280.9	61.5	53.6	50.5	50.5	42.6	36.3	31.6	30.0
75°	2145.9	1517.9	149.9	50.5	44.2	42.6	39.4	34.7	30.0	26.8	25.2
77.5°	986.1	669.0	69.4	36.3	33.1	33.1	30.0	25.2	23.7	20.5	20.5
80°	389.7	227.2	34.7	23.7	22.1	22.1	22.1	17.4	17.4	14.2	12.6
82.5°	107.3	47.3	17.4	14.2	14.2	14.2	12.6	11.0	11.0	9.5	9.5
85°	11.0	7.9	7.9	7.9	7.9	6.3	6.3	4.7	3.2	3.2	3.2
87.5°	4.7	4.7	4.7	4.7	4.7	3.2	1.6	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)