

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: P842558

Luminaire Tested: **ARCH4-60-750-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842558
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: ARCH4-60-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 520mA 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: 8090 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

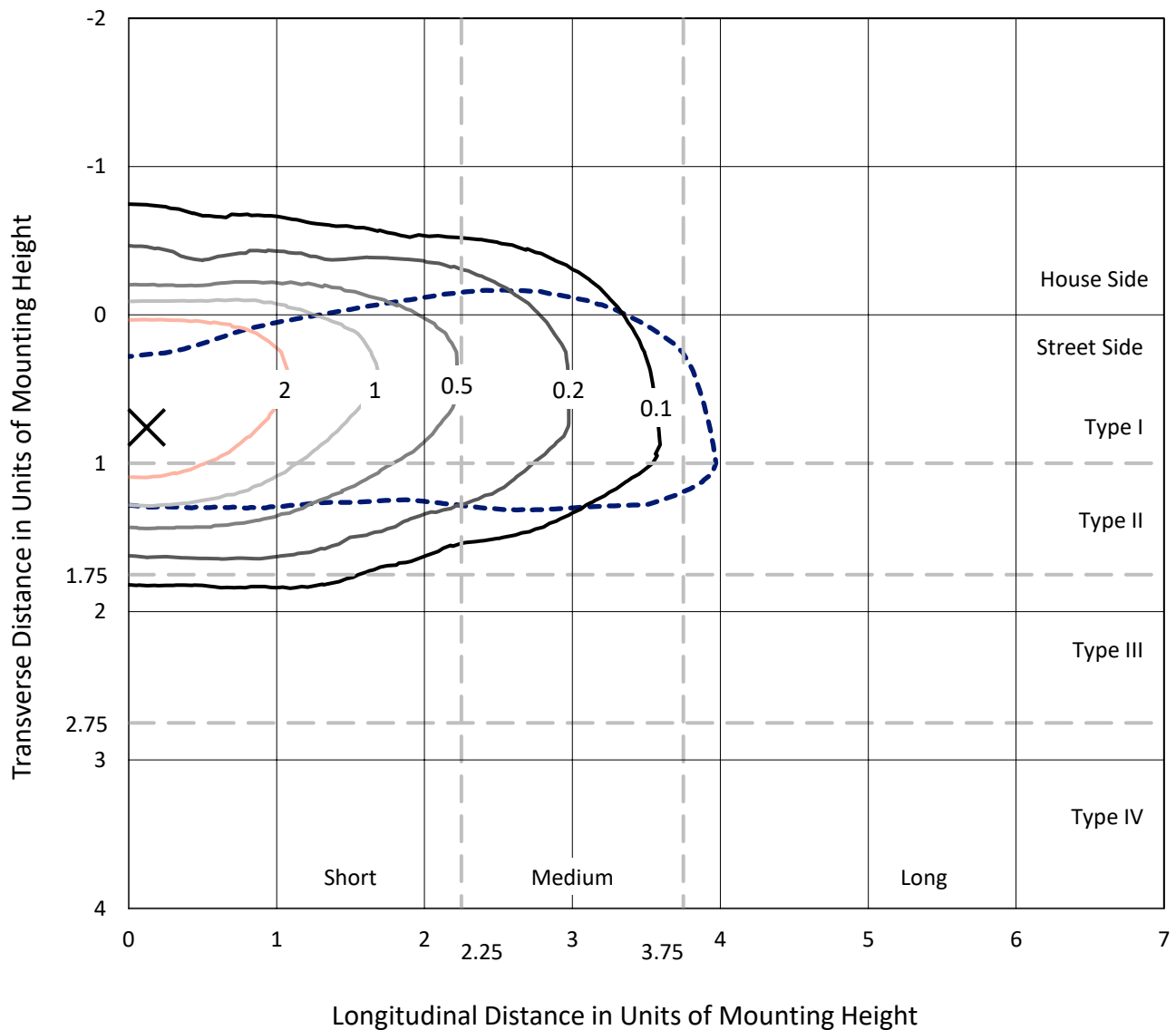
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

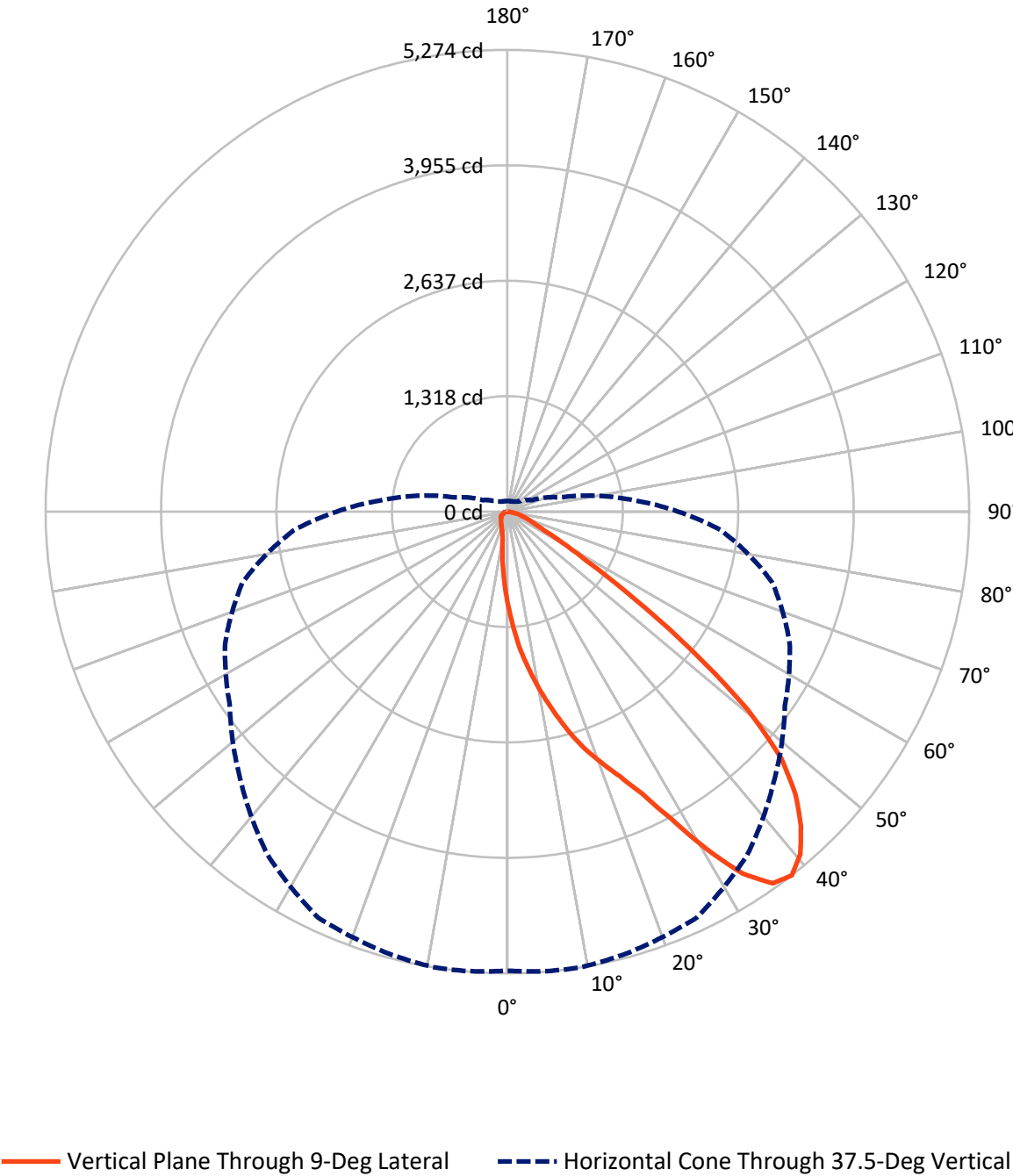
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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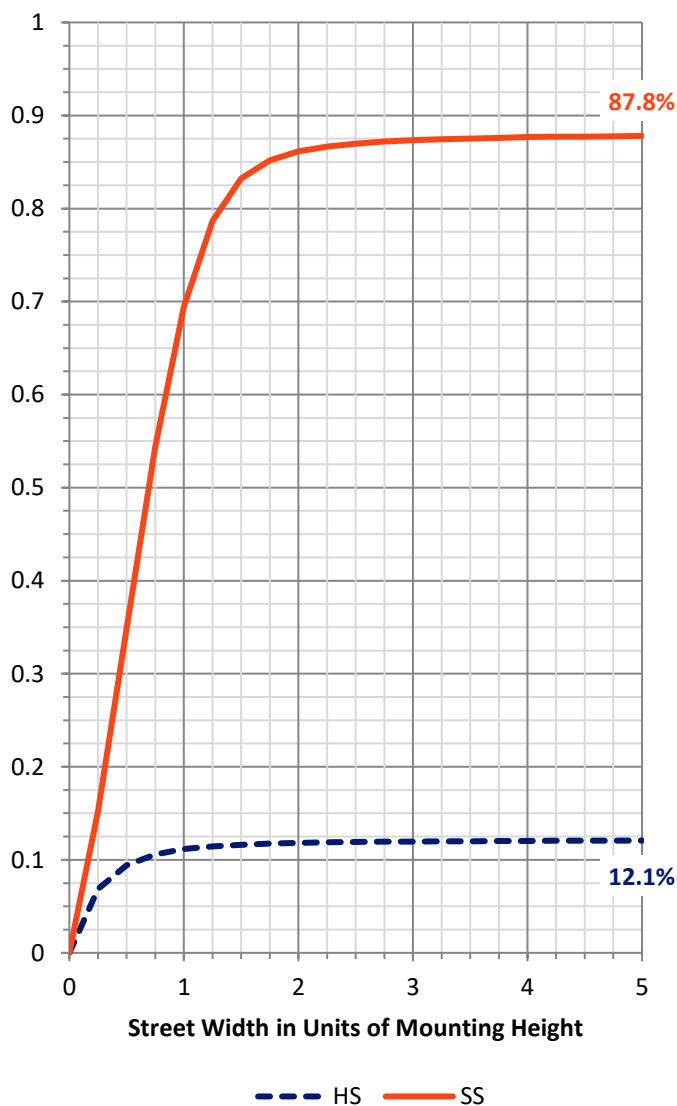
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	983.9	0.0	983.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	7106.1	0.0	7106.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	8090.0	0.0	8090.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	1.3
10°-20°	373.6	4.6
20°-30°	767.7	9.5
30°-40°	1356.9	16.8
40°-50°	1802.5	22.3
50°-60°	1709.6	21.1
60°-70°	1304.3	16.1
70°-80°	632.3	7.8
80°-90°	35.6	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°	8090.0	100.0
0°-180°	8090.0	100.0

Coefficient of Utilization



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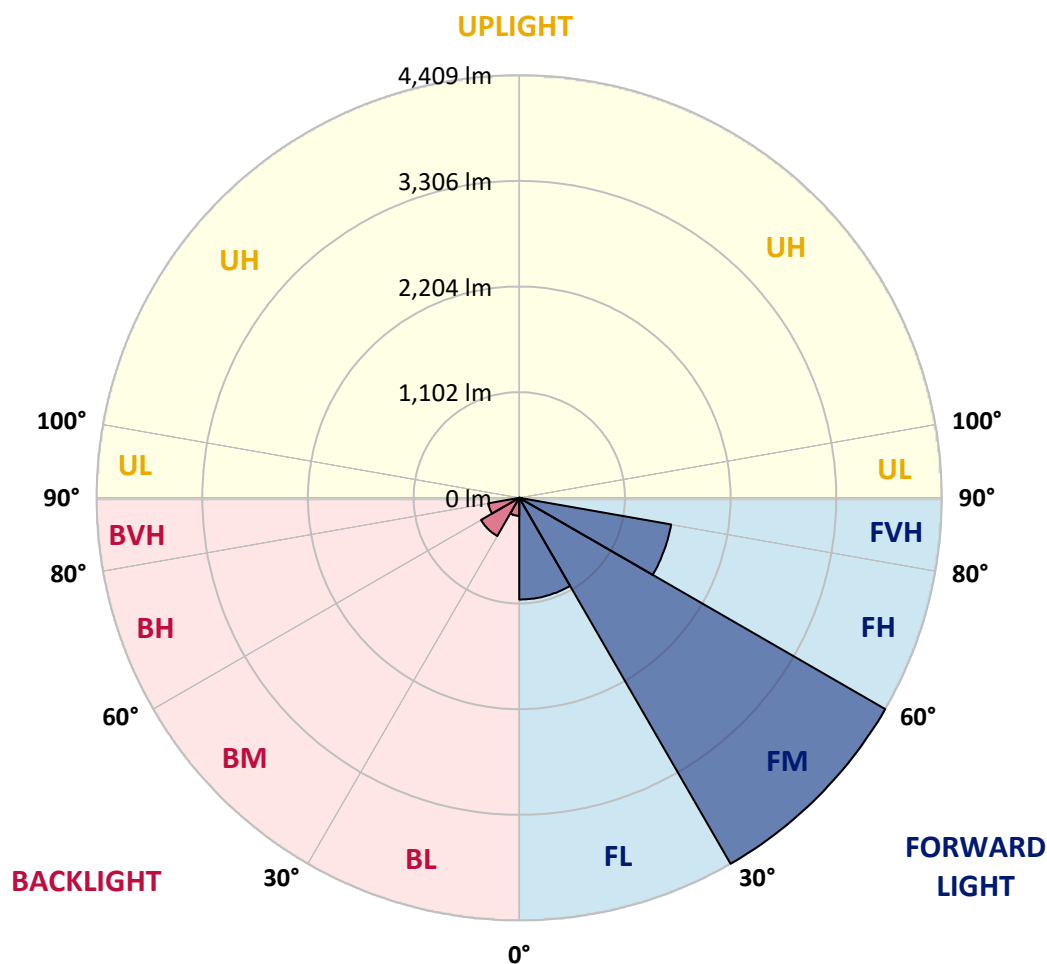
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1061.0	13.1			
FM	(30°-60°)	4408.7	54.5			
FH	(60°-80°)	1608.3	19.9			G1/1800
FVH	(80°-90°)	28.2	0.3			G1/100
BL	(0°-30°)	187.8	2.3	B1/500		
BM	(30°-60°)	460.4	5.7	B1/1000		
BH	(60°-80°)	328.3	4.1	B1/500		G1/500
BVH	(80°-90°)	7.4	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°	1069.4	1069.4	1069.4	1069.4	1069.4	1069.4	1069.4	1069.4	1069.4	1069.4	1069.4
2.5°	1325.1	1301.9	1328.4	1325.1	1301.9	1286.9	1240.4	1225.5	1170.7	1130.8	1096.0
5°	1597.5	1574.2	1597.5	1590.8	1557.6	1521.1	1444.7	1394.9	1296.9	1210.5	1132.5
7.5°	1823.3	1823.3	1833.3	1834.9	1795.1	1738.6	1644.0	1569.2	1431.4	1298.6	1174.0
10°	2067.4	2069.1	2090.6	2075.7	2022.6	1946.2	1826.6	1732.0	1565.9	1391.5	1213.9
12.5°	2328.1	2329.8	2336.4	2329.8	2266.7	2168.7	2024.2	1899.7	1708.7	1497.8	1268.7
15°	2588.8	2590.5	2598.8	2587.2	2517.4	2402.8	2238.4	2085.7	1859.8	1617.4	1335.1
17.5°	2832.9	2836.2	2842.9	2827.9	2754.9	2618.7	2451.0	2266.7	2020.9	1745.2	1409.8
20°	3052.1	3055.4	3060.4	3040.5	2967.4	2831.3	2650.3	2457.6	2185.3	1876.4	1491.2
22.5°	3273.0	3276.3	3284.6	3258.0	3176.6	3020.6	2842.9	2643.6	2359.7	2020.9	1585.8
25°	3555.3	3558.6	3565.2	3527.0	3415.8	3233.1	3045.5	2841.2	2549.0	2183.6	1702.1
27.5°	3968.7	3965.4	3965.4	3895.7	3704.7	3467.2	3249.7	3042.1	2753.2	2358.0	1829.9
30°	4480.2	4471.9	4466.9	4372.3	4099.9	3731.3	3458.9	3229.8	2949.2	2542.3	1967.8
32.5°	4938.5	4938.5	4928.5	4828.9	4540.0	4086.6	3681.5	3412.4	3138.5	2728.3	2110.6
35°	5209.2	5220.8	5215.8	5141.1	4930.2	4468.6	3982.0	3631.6	3337.7	2922.6	2281.6
37.5°	5245.7	5269.0	5273.9	5229.1	5117.8	4780.7	4315.8	3869.1	3556.9	3131.8	2447.7
40°	5097.9	5147.7	5147.7	5141.1	5101.2	4928.5	4596.4	4144.8	3782.8	3349.3	2615.4
42.5°	4870.4	4921.9	4915.3	4940.2	4930.2	4893.7	4754.2	4402.1	4008.6	3573.5	2768.2
45°	4573.2	4626.3	4613.0	4657.9	4677.8	4717.6	4737.6	4581.5	4231.1	3817.6	2939.2
47.5°	4096.6	4186.3	4206.2	4285.9	4368.9	4493.5	4588.1	4646.2	4438.7	4080.0	3125.2
50°	3392.5	3518.7	3558.6	3726.3	3953.8	4211.2	4363.9	4566.5	4584.8	4349.0	3326.1
52.5°	2429.4	2575.5	2637.0	2912.6	3380.9	3829.2	4104.9	4390.5	4641.3	4606.4	3543.6
55°	1570.9	1695.4	1755.2	2014.3	2637.0	3341.0	3799.4	4163.0	4609.7	4842.2	3792.7
57.5°	968.1	1039.5	1079.4	1301.9	1874.8	2715.0	3399.2	3953.8	4513.4	5046.4	4051.8
60°	652.6	694.1	714.0	818.7	1273.6	2029.2	2849.5	3734.6	4387.2	5184.3	4287.6
62.5°	433.4	446.7	466.6	531.4	840.2	1424.8	2188.6	3342.7	4292.5	5192.6	4461.9
65°	335.4	342.1	350.4	378.6	518.1	996.3	1539.3	2708.4	4151.4	5016.5	4516.7
67.5°	264.0	270.7	280.6	295.6	375.3	675.8	1047.8	1984.4	3862.5	4740.9	4427.1
70°	207.6	212.6	219.2	232.5	292.3	489.9	692.5	1318.5	3279.6	4478.5	4144.8
72.5°	164.4	169.4	176.0	189.3	237.5	358.7	474.9	822.0	2529.0	4158.0	3601.8
75°	129.5	132.8	137.8	151.1	191.0	279.0	322.1	491.5	1718.7	3571.9	2806.3
77.5°	64.8	79.7	91.3	104.6	139.5	192.6	214.2	272.3	725.7	1833.3	1338.4
80°	38.2	46.5	49.8	58.1	91.3	116.2	116.2	109.6	229.2	704.1	546.3
82.5°	21.6	29.9	31.6	33.2	54.8	66.4	53.1	39.9	46.5	235.8	159.4
85°	6.6	10.0	11.6	13.3	18.3	19.9	18.3	16.6	13.3	23.2	14.9
87.5°	0.0	0.0	0.0	0.0	1.7	3.3	3.3	3.3	5.0	5.0	5.0
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°	1069.4	1069.4	1069.4	1069.4	1069.4	1069.4	1069.4	1069.4	1069.4	1069.4	1069.4
2.5°	1076.0	1054.5	1012.9	974.7	938.2	911.6	886.7	863.5	846.9	833.6	831.9
5°	1091.0	1047.8	968.1	893.4	825.3	768.8	720.7	682.5	654.3	634.3	632.7
7.5°	1110.9	1044.5	923.3	812.0	710.7	629.4	559.6	508.1	471.6	456.7	445.0
10°	1127.5	1041.2	878.4	730.6	597.8	494.8	411.8	360.3	333.8	323.8	318.8
12.5°	1155.7	1044.5	840.2	655.9	499.8	378.6	315.5	287.3	275.7	267.4	265.7
15°	1197.3	1059.4	803.7	582.9	400.2	305.5	269.0	250.7	239.1	237.5	235.8
17.5°	1238.8	1072.7	770.5	508.1	332.1	265.7	240.8	225.8	217.5	215.9	215.9
20°	1286.9	1089.3	734.0	436.7	284.0	239.1	219.2	207.6	197.6	195.9	195.9
22.5°	1343.4	1112.6	699.1	373.6	252.4	219.2	202.6	189.3	181.0	179.3	179.3
25°	1419.8	1147.4	670.9	327.1	230.8	202.6	187.6	176.0	169.4	166.1	166.1
27.5°	1504.5	1195.6	650.9	298.9	215.9	189.3	174.4	164.4	157.8	154.4	154.4
30°	1599.1	1248.7	637.7	287.3	207.6	177.7	164.4	154.4	146.1	144.5	144.5
32.5°	1703.7	1310.2	629.4	288.9	205.9	169.4	154.4	144.5	137.8	134.5	134.5
35°	1820.0	1378.3	624.4	298.9	209.2	162.7	146.1	136.2	129.5	126.2	126.2
37.5°	1949.5	1458.0	624.4	308.9	217.5	161.1	137.8	127.9	122.9	119.6	119.6
40°	2070.7	1542.7	631.0	320.5	225.8	161.1	131.2	122.9	116.2	112.9	112.9
42.5°	2165.4	1590.8	636.0	332.1	230.8	159.4	124.5	116.2	111.3	107.9	107.9
45°	2273.3	1642.3	626.0	337.1	230.8	156.1	119.6	111.3	106.3	103.0	103.0
47.5°	2392.9	1705.4	624.4	340.4	225.8	149.5	114.6	106.3	103.0	99.6	99.6
50°	2514.1	1775.1	627.7	338.8	219.2	139.5	107.9	103.0	98.0	94.7	94.7
52.5°	2651.9	1848.2	634.3	335.4	204.2	127.9	103.0	98.0	93.0	89.7	88.0
55°	2804.7	1927.9	647.6	328.8	184.3	116.2	98.0	93.0	86.3	83.0	81.4
57.5°	2980.7	2025.9	662.6	315.5	162.7	106.3	93.0	86.3	76.4	71.4	69.7
60°	3148.4	2137.1	679.2	284.0	141.1	96.3	88.0	78.0	68.1	64.8	63.1
62.5°	3306.2	2246.7	687.5	227.5	119.6	88.0	83.0	71.4	61.4	58.1	56.5
65°	3407.5	2366.3	669.2	154.4	98.0	81.4	76.4	66.4	56.5	51.5	51.5
67.5°	3414.1	2422.8	606.1	101.3	79.7	73.1	69.7	59.8	49.8	46.5	44.8
70°	3246.4	2338.1	463.3	79.7	66.4	63.1	63.1	53.1	43.2	39.9	38.2
72.5°	2861.1	2070.7	295.6	64.8	56.5	53.1	53.1	44.8	38.2	33.2	31.6
75°	2258.4	1597.5	157.8	53.1	46.5	44.8	41.5	36.5	31.6	28.2	26.6
77.5°	1037.8	704.1	73.1	38.2	34.9	34.9	31.6	26.6	24.9	21.6	21.6
80°	410.2	239.1	36.5	24.9	23.2	23.2	23.2	18.3	18.3	14.9	13.3
82.5°	112.9	49.8	18.3	14.9	14.9	14.9	13.3	11.6	11.6	10.0	10.0
85°	11.6	8.3	8.3	8.3	8.3	6.6	6.6	5.0	3.3	3.3	3.3
87.5°	5.0	5.0	5.0	5.0	5.0	3.3	1.7	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)