

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: P836832

Luminaire Tested: **ARCH3-80-730-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836832
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: ARCH3-80-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9026 lumens
Efficiency: N/A
Efficacy: 110.2 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): 81.9
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

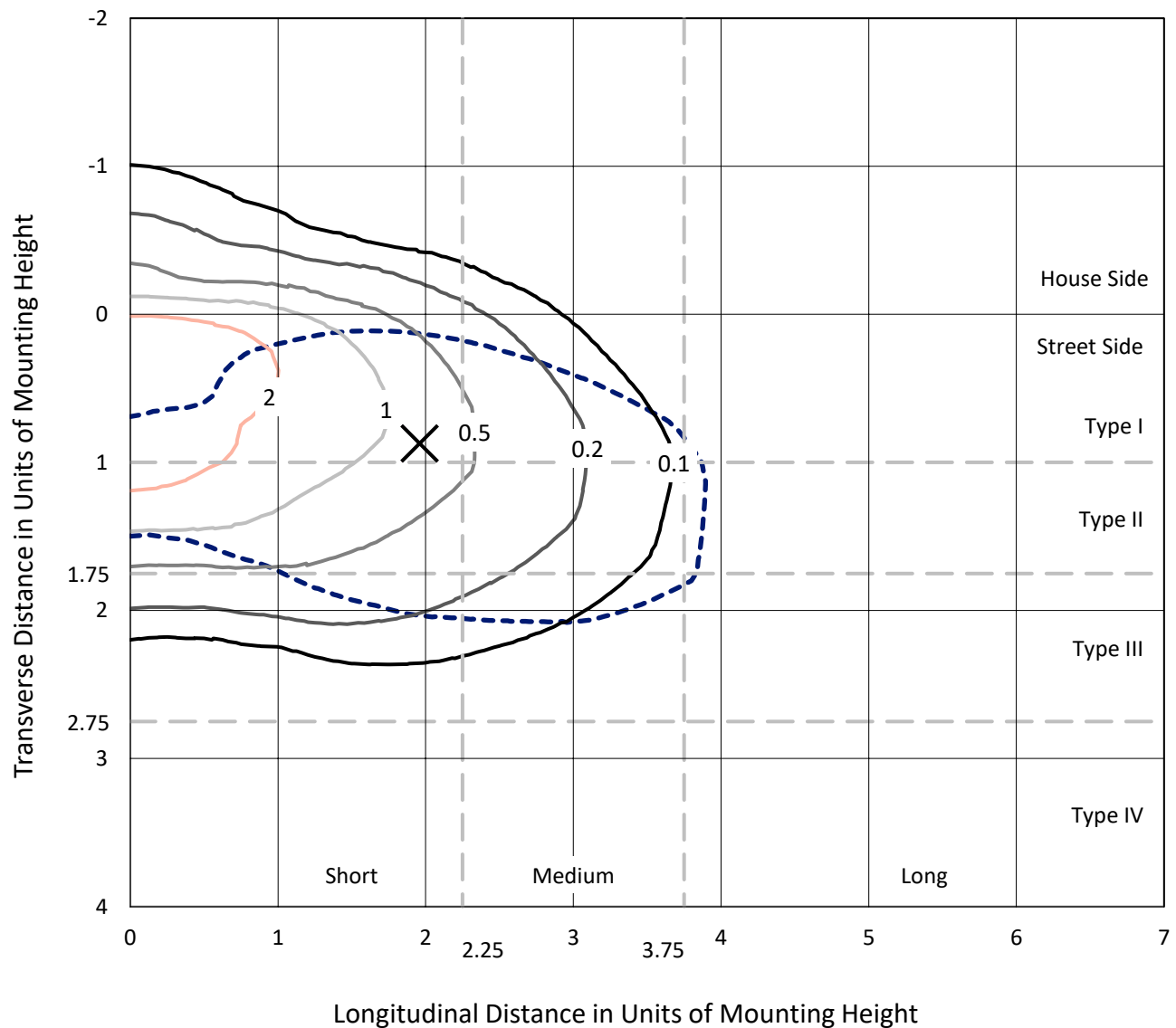


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Iso-Footcandle Lines of Horizontal Illumination

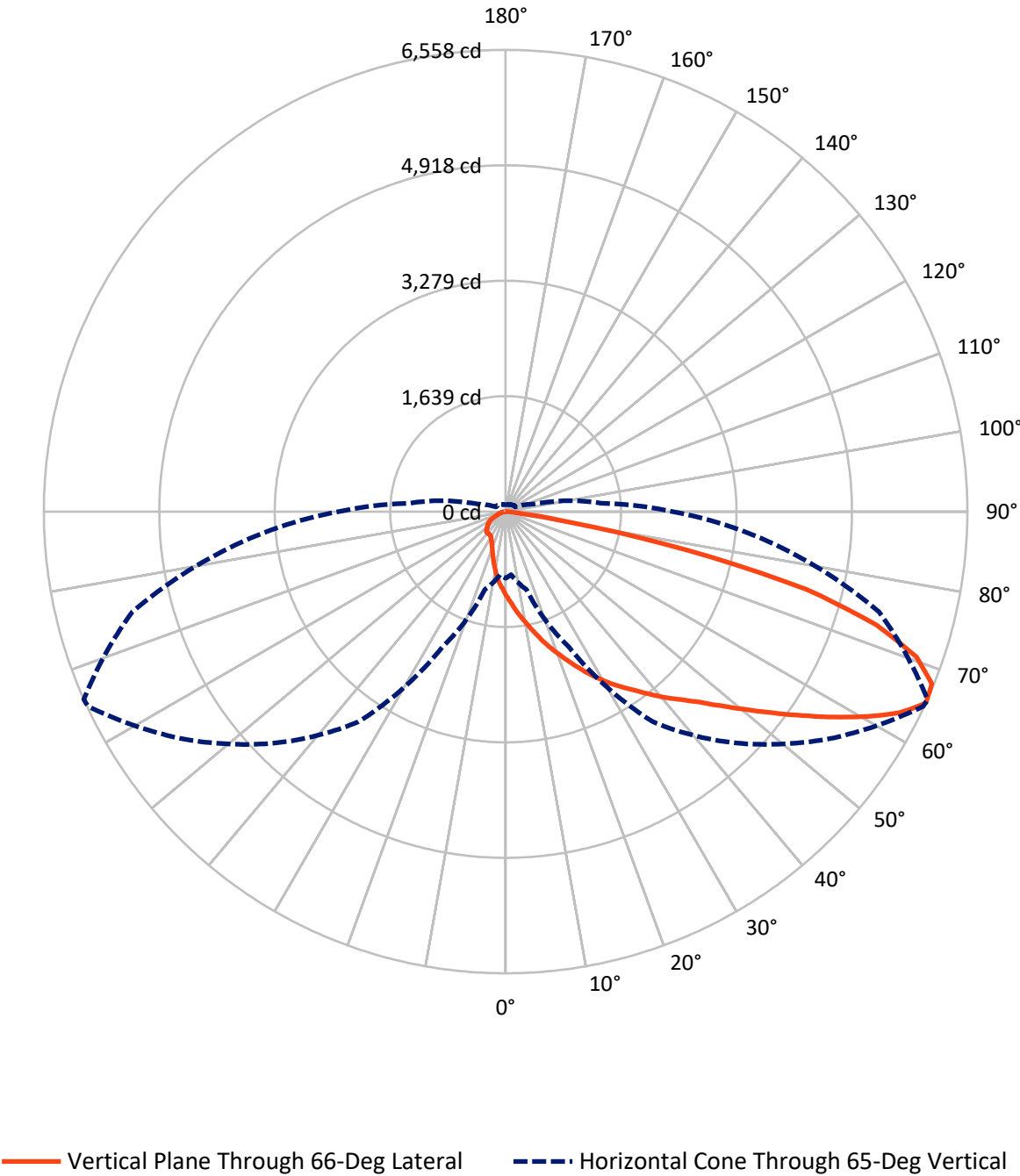
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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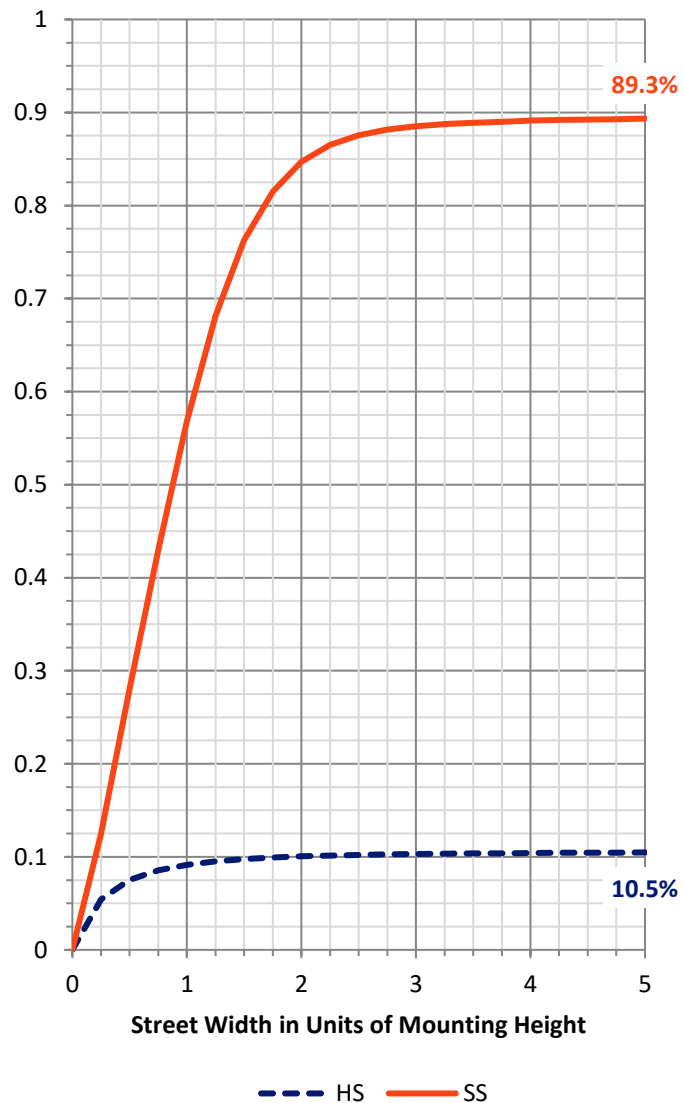
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	954.7	0.0	954.7
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	8071.3	0.0	8071.3
	% Fixture	89.4	0.0	89.4
Total	Lumens	9026.0	0.0	9026.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	1.3
10°-20°	384.3	4.3
20°-30°	695.3	7.7
30°-40°	1087.2	12.0
40°-50°	1649.3	18.3
50°-60°	2095.5	23.2
60°-70°	1958.0	21.7
70°-80°	973.1	10.8
80°-90°	65.4	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°	9026.0	100.0
0°-180°	9026.0	100.0

Coefficient of Utilization



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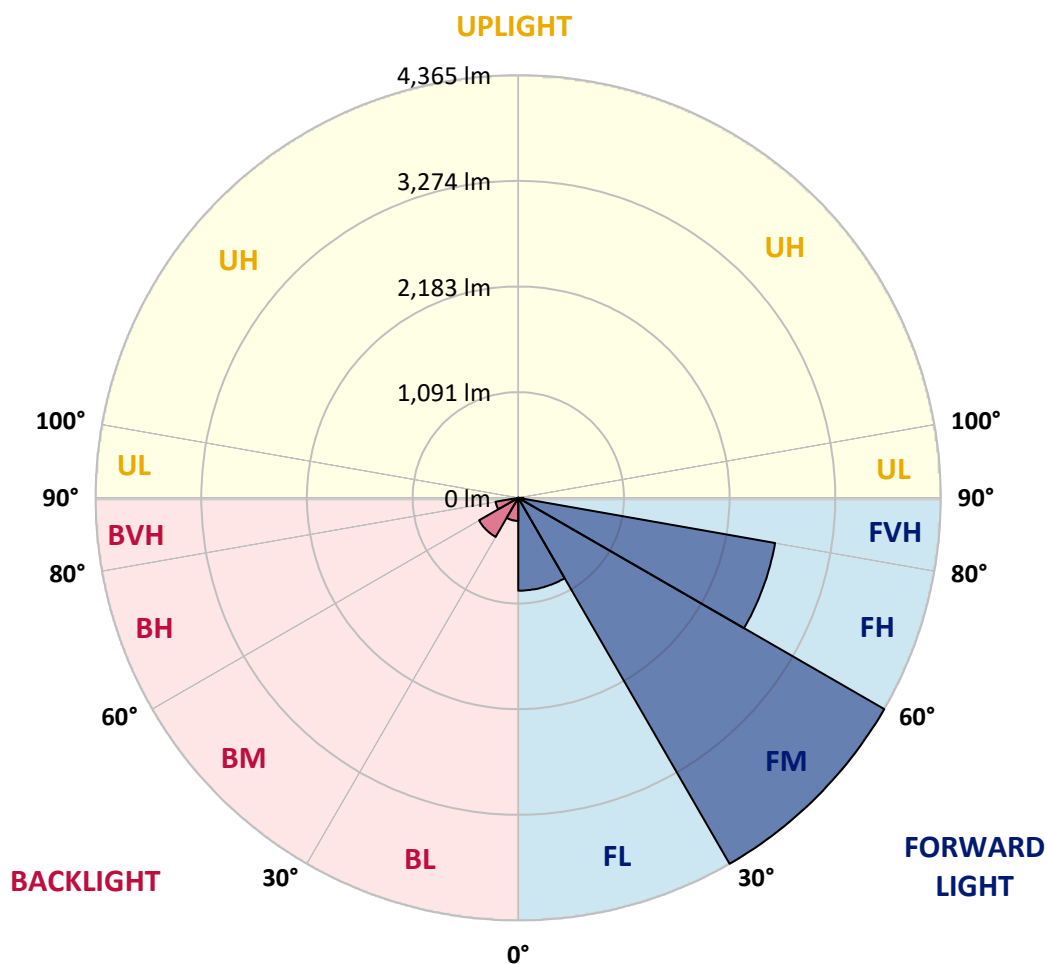
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	959.0	10.6			
FM	(30°-60°)	4365.1	48.4			
FH	(60°-80°)	2693.4	29.8			G2/5000
FVH	(80°-90°)	53.8	0.6			G1/100
BL	(0°-30°)	238.4	2.6	B1/500		
BM	(30°-60°)	466.9	5.2	B1/1000		
BH	(60°-80°)	237.8	2.6	B1/500		G1/500
BVH	(80°-90°)	11.6	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°	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5
2.5°	1395.2	1406.6	1412.2	1414.1	1370.6	1351.7	1332.7	1289.2	1279.7	1255.1	1222.9
5°	1641.3	1656.5	1652.7	1645.1	1592.1	1531.5	1482.3	1400.9	1387.6	1329.0	1257.0
7.5°	1883.6	1896.9	1893.1	1864.7	1806.0	1720.8	1639.4	1520.2	1501.2	1406.6	1291.1
10°	2086.2	2097.5	2095.7	2067.3	1997.2	1893.1	1794.7	1635.6	1612.9	1478.5	1319.5
12.5°	2252.8	2267.9	2266.0	2247.1	2184.6	2071.0	1959.4	1768.1	1739.8	1565.6	1359.2
15°	2383.4	2402.3	2402.3	2394.8	2351.2	2256.6	2129.7	1913.9	1879.8	1665.9	1408.5
17.5°	2462.9	2478.1	2491.3	2504.6	2474.3	2402.3	2286.9	2059.7	2023.7	1764.4	1459.6
20°	2504.6	2519.7	2529.2	2557.6	2563.2	2527.3	2436.4	2203.6	2165.7	1876.1	1518.3
22.5°	2572.7	2586.0	2587.9	2612.5	2623.8	2633.3	2576.5	2345.5	2315.3	1999.1	1584.5
25°	2686.3	2701.4	2695.8	2707.1	2709.0	2720.4	2714.7	2508.3	2478.1	2139.2	1664.0
27.5°	2832.1	2851.0	2847.2	2835.9	2818.8	2809.3	2834.0	2673.0	2644.7	2279.3	1745.4
30°	2989.2	3011.9	3006.2	2983.5	2938.1	2898.3	2932.4	2828.3	2801.8	2423.2	1836.3
32.5°	3148.2	3174.7	3172.8	3135.0	3057.3	2989.2	3040.3	2974.0	2955.1	2578.4	1934.7
35°	3252.3	3286.4	3282.6	3259.9	3159.6	3100.9	3163.4	3123.6	3110.4	2767.7	2076.7
37.5°	3420.8	3456.8	3424.6	3367.8	3252.3	3222.0	3297.8	3292.1	3282.6	2968.4	2226.3
40°	3829.7	3882.7	3797.5	3564.7	3375.4	3348.9	3456.8	3479.5	3470.0	3167.1	2360.7
42.5°	4257.6	4337.1	4204.6	3882.7	3598.8	3502.2	3631.0	3663.1	3651.8	3337.5	2481.8
45°	4516.9	4551.0	4418.5	4168.6	3994.4	3687.7	3816.5	3869.5	3860.0	3542.0	2637.1
47.5°	4728.9	4715.7	4564.2	4395.8	4427.9	3949.0	4026.6	4130.7	4123.2	3767.3	2807.5
50°	4774.4	4744.1	4683.5	4577.5	4662.7	4214.0	4248.1	4427.9	4420.4	4017.1	2979.7
52.5°	4454.4	4414.7	4579.4	4668.4	4640.0	4407.1	4492.3	4753.6	4749.8	4287.9	3144.4
55°	3655.6	3623.4	4066.4	4526.4	4615.4	4543.4	4763.0	5092.4	5113.2	4575.6	3294.0
57.5°	2875.6	2841.5	3276.9	4170.5	4524.5	4668.4	5079.2	5480.5	5507.0	4888.0	3436.0
60°	2292.5	2241.4	2574.6	3610.1	4354.1	4764.9	5384.0	5906.4	5910.2	5173.8	3523.0
62.5°	1558.0	1501.2	1870.4	2900.2	4068.3	4780.1	5618.7	6273.7	6288.9	5387.7	3538.2
65°	946.5	899.2	1149.1	2118.4	3646.1	4651.3	5622.5	6544.4	6557.7	5486.2	3447.3
67.5°	549.0	530.1	656.9	1319.5	2945.7	4304.9	5385.8	6502.8	6527.4	5444.5	3241.0
70°	319.9	318.0	365.4	653.1	2078.6	3617.7	4857.7	6152.6	6188.5	5226.8	2924.8
72.5°	234.7	238.5	257.5	350.2	1204.0	2604.9	4113.7	5448.3	5503.2	4800.9	2474.3
75°	185.5	187.4	204.5	238.5	632.3	1472.8	3082.0	4373.0	4416.6	4041.8	1932.8
77.5°	138.2	142.0	155.2	168.5	293.4	675.8	1734.1	2693.9	2621.9	2218.7	933.3
80°	100.3	109.8	115.5	121.2	155.2	261.2	520.6	939.0	931.4	969.3	441.1
82.5°	64.4	71.9	77.6	81.4	92.8	124.9	155.2	210.1	227.2	376.7	176.1
85°	28.4	32.2	36.0	43.5	39.8	43.5	64.4	41.6	36.0	56.8	32.2
87.5°	0.0	0.0	5.7	9.5	7.6	3.8	11.4	7.6	5.7	5.7	5.7
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°	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5
2.5°	1205.9	1185.1	1141.5	1099.9	1075.3	1043.1	1014.7	988.2	986.3	978.7	965.5
5°	1221.0	1181.3	1099.9	1022.3	963.6	901.1	848.1	806.5	791.3	780.0	764.8
7.5°	1236.2	1173.7	1052.6	939.0	846.2	759.1	696.7	639.9	622.8	607.7	598.2
10°	1241.9	1160.5	997.7	846.2	725.1	632.3	566.0	524.4	509.2	501.7	496.0
12.5°	1258.9	1152.9	946.5	759.1	619.0	533.9	486.5	461.9	456.2	450.6	444.9
15°	1281.6	1152.9	895.4	673.9	535.7	467.6	439.2	422.2	418.4	416.5	412.7
17.5°	1306.2	1152.9	846.2	602.0	475.2	424.1	403.2	393.8	391.9	390.0	388.1
20°	1340.3	1154.8	793.2	539.5	431.6	391.9	374.8	363.5	361.6	359.7	359.7
22.5°	1374.4	1158.6	742.1	492.2	403.2	367.3	346.4	335.1	331.3	331.3	331.3
25°	1417.9	1169.9	694.8	452.4	378.6	344.5	318.0	308.6	306.7	306.7	304.8
27.5°	1469.0	1183.2	653.1	422.2	354.0	318.0	291.5	282.1	278.3	278.3	276.4
30°	1523.9	1196.4	619.0	399.4	329.4	291.5	266.9	255.6	251.8	253.7	251.8
32.5°	1584.5	1215.4	592.5	384.3	306.7	268.8	246.1	232.9	231.0	231.0	229.1
35°	1686.7	1268.4	588.8	376.7	287.8	251.8	229.1	215.8	213.9	213.9	212.0
37.5°	1796.5	1329.0	605.8	372.9	272.6	236.6	215.8	202.6	200.7	200.7	200.7
40°	1889.3	1374.4	624.7	372.9	263.1	223.4	204.5	193.1	193.1	193.1	193.1
42.5°	1951.8	1378.2	620.9	372.9	255.6	213.9	196.9	185.5	185.5	187.4	185.5
45°	2044.5	1397.1	605.8	367.3	249.9	206.3	189.3	179.8	178.0	179.8	179.8
47.5°	2154.3	1431.2	590.6	344.5	248.0	198.8	183.6	172.3	170.4	172.3	170.4
50°	2258.5	1461.5	583.1	314.3	244.2	191.2	176.1	164.7	162.8	164.7	162.8
52.5°	2345.5	1474.7	569.8	293.4	234.7	183.6	168.5	157.1	153.3	155.2	155.2
55°	2415.6	1470.9	550.9	276.4	217.7	176.1	159.0	149.6	143.9	143.9	142.0
57.5°	2480.0	1472.8	533.9	259.4	198.8	164.7	151.4	140.1	132.5	130.6	128.7
60°	2504.6	1463.4	503.6	236.6	179.8	155.2	142.0	128.7	121.2	119.3	117.4
62.5°	2470.5	1429.3	463.8	196.9	162.8	143.9	132.5	119.3	111.7	109.8	107.9
65°	2373.9	1364.9	403.2	155.2	147.7	130.6	121.2	111.7	102.2	98.4	96.5
67.5°	2209.2	1272.2	327.5	124.9	130.6	119.3	113.6	102.2	90.9	87.1	85.2
70°	1974.5	1149.1	246.1	106.0	115.5	106.0	102.2	90.9	81.4	77.6	75.7
72.5°	1645.1	950.3	172.3	90.9	100.3	92.8	89.0	81.4	71.9	66.3	66.3
75°	1243.8	681.5	113.6	77.6	83.3	79.5	73.8	68.2	62.5	58.7	56.8
77.5°	535.7	265.0	70.0	58.7	68.2	66.3	58.7	54.9	53.0	49.2	49.2
80°	231.0	107.9	43.5	43.5	49.2	47.3	45.4	41.6	41.6	39.8	37.9
82.5°	85.2	43.5	26.5	32.2	36.0	32.2	32.2	32.2	32.2	30.3	30.3
85°	20.8	13.3	13.3	18.9	20.8	18.9	20.8	18.9	18.9	18.9	17.0
87.5°	5.7	5.7	7.6	7.6	7.6	7.6	7.6	5.7	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)