

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: P840861

Luminaire Tested: **ARCH4-100-722-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-100-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10416 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 103.1
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



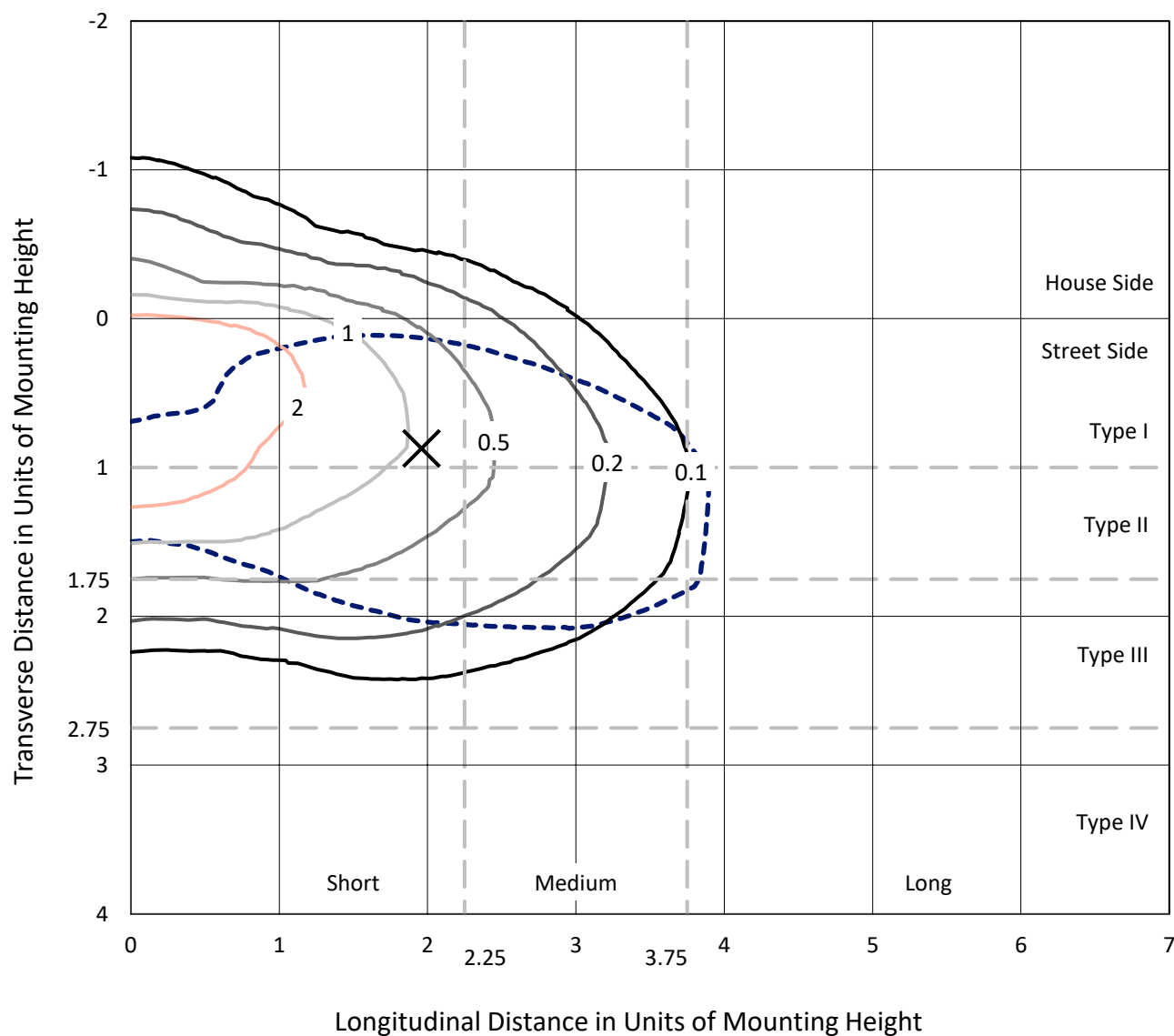
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

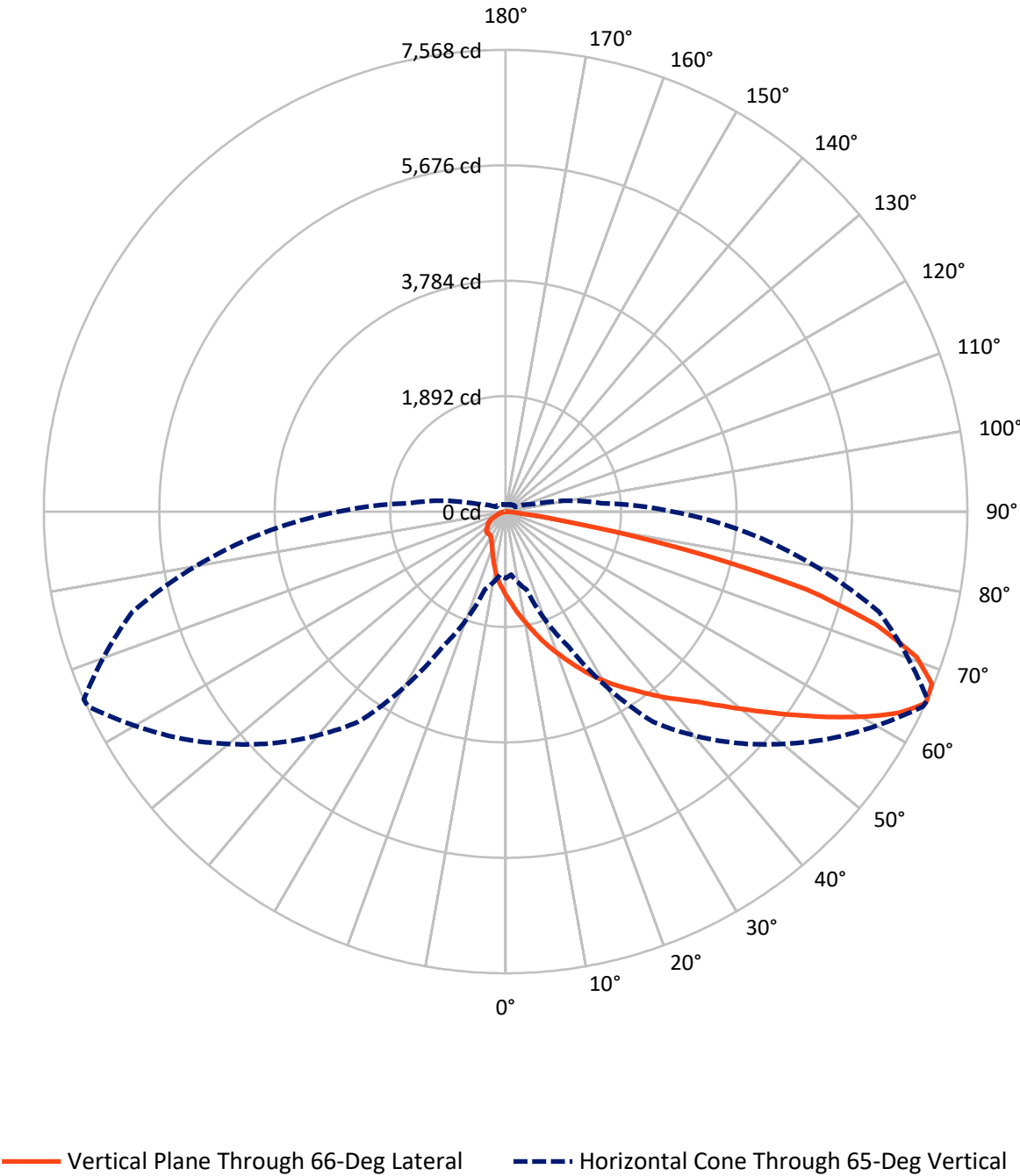


Based on 25 foot mounting height. Maximum calculated value = 4 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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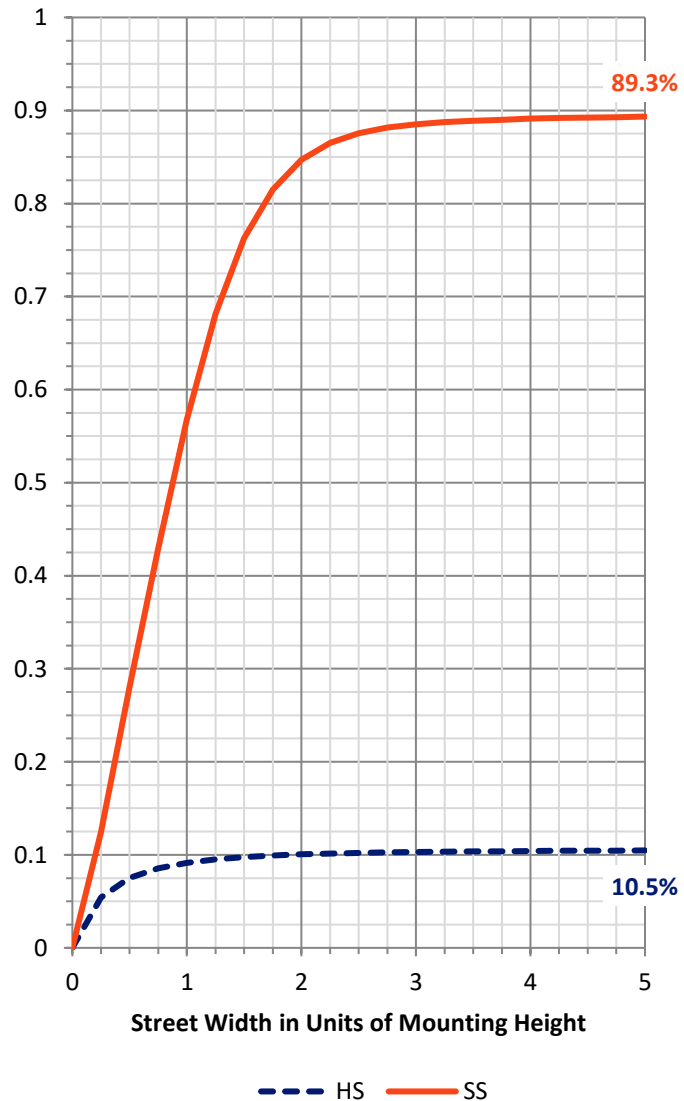
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1101.7	0.0	1101.7
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	9314.3	0.0	9314.3
	% Fixture	89.4	0.0	89.4
Total	Lumens	10416.0	0.0	10416.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.1	1.3
10°-20°	443.5	4.3
20°-30°	802.3	7.7
30°-40°	1254.6	12.0
40°-50°	1903.3	18.3
50°-60°	2418.2	23.2
60°-70°	2259.6	21.7
70°-80°	1123.0	10.8
80°-90°	75.4	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°	10416.0	100.0
0°-180°	10416.0	100.0

Coefficient of Utilization



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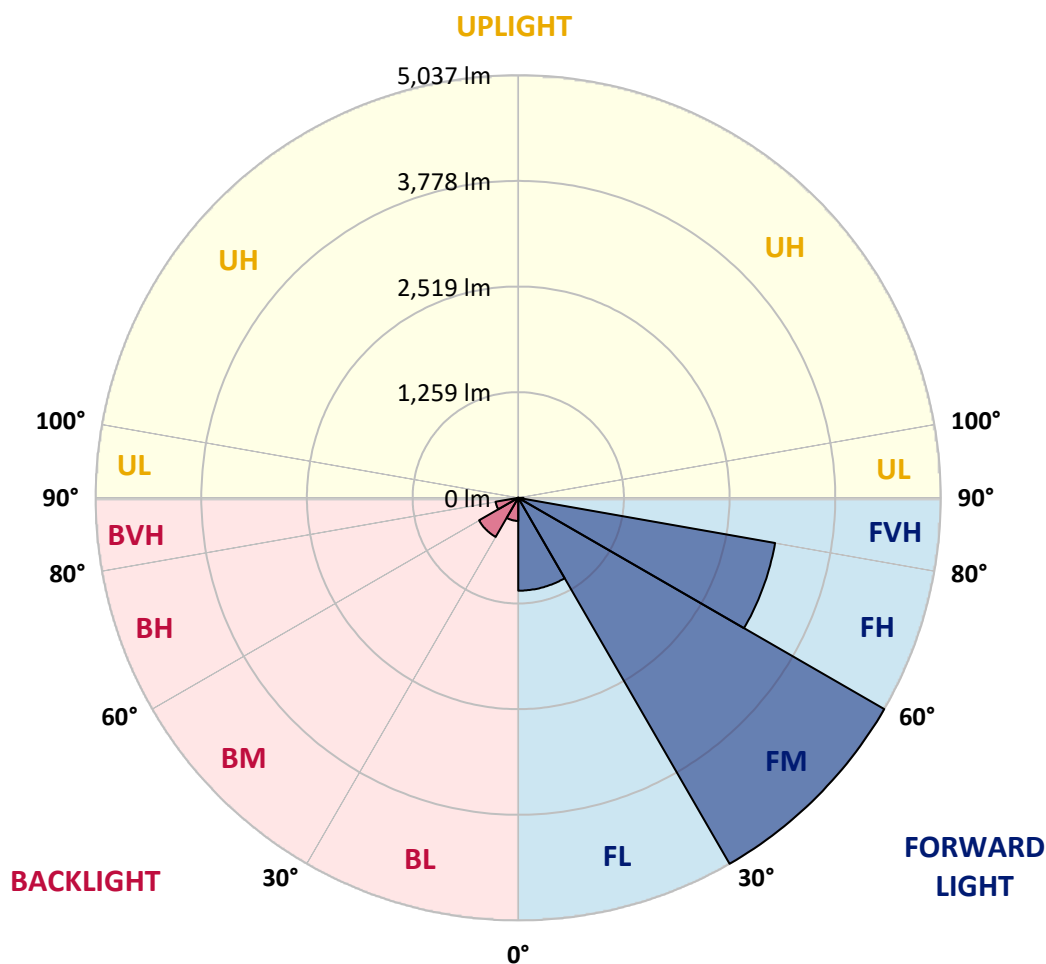
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1106.7	10.6			
FM	(30°-60°)	5037.3	48.4			
FH	(60°-80°)	3108.2	29.8			G2/5000
FVH	(80°-90°)	62.1	0.6			G1/100
BL	(0°-30°)	275.2	2.6	B1/500		
BM	(30°-60°)	538.9	5.2	B1/1000		
BH	(60°-80°)	274.4	2.6	B1/500		G1/500
BVH	(80°-90°)	13.3	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°	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5
2.5°	1610.1	1623.2	1629.7	1631.9	1581.7	1559.8	1538.0	1487.7	1476.8	1448.4	1411.3
5°	1894.1	1911.5	1907.2	1898.4	1837.3	1767.4	1710.6	1616.6	1601.3	1533.6	1450.6
7.5°	2173.7	2189.0	2184.6	2151.9	2084.1	1985.8	1891.9	1754.3	1732.4	1623.2	1489.9
10°	2407.5	2420.6	2418.4	2385.6	2304.8	2184.6	2071.0	1887.5	1861.3	1706.2	1522.7
12.5°	2599.7	2617.2	2615.0	2593.2	2521.1	2390.0	2261.1	2040.4	2007.7	1806.7	1568.6
15°	2750.4	2772.3	2772.3	2763.6	2713.3	2604.1	2457.7	2208.7	2169.3	1922.5	1625.4
17.5°	2842.2	2859.7	2875.0	2890.3	2855.3	2772.3	2639.0	2376.9	2335.4	2036.1	1684.3
20°	2890.3	2907.7	2918.7	2951.4	2958.0	2916.5	2811.6	2542.9	2499.2	2165.0	1752.1
22.5°	2968.9	2984.2	2986.4	3014.8	3027.9	3038.8	2973.3	2706.8	2671.8	2307.0	1828.5
25°	3100.0	3117.5	3110.9	3124.0	3126.2	3139.3	3132.8	2894.6	2859.7	2468.6	1920.3
27.5°	3268.2	3290.1	3285.7	3272.6	3252.9	3242.0	3270.4	3084.7	3051.9	2630.3	2014.2
30°	3449.5	3475.7	3469.2	3443.0	3390.5	3344.7	3384.0	3263.8	3233.2	2796.3	2119.1
32.5°	3633.0	3663.6	3661.4	3617.7	3528.2	3449.5	3508.5	3432.1	3410.2	2975.5	2232.7
35°	3753.2	3792.5	3788.1	3761.9	3646.1	3578.4	3650.5	3604.6	3589.3	3193.9	2396.5
37.5°	3947.6	3989.1	3952.0	3886.5	3753.2	3718.2	3805.6	3799.1	3788.1	3425.5	2569.1
40°	4419.5	4480.7	4382.4	4113.7	3895.2	3864.6	3989.1	4015.3	4004.4	3654.9	2724.2
42.5°	4913.2	5005.0	4852.1	4480.7	4153.0	4041.6	4190.1	4227.3	4214.1	3851.5	2864.0
45°	5212.5	5251.8	5098.9	4810.6	4609.6	4255.7	4404.2	4465.4	4454.5	4087.4	3043.2
47.5°	5457.2	5441.9	5267.1	5072.7	5109.8	4557.1	4646.7	4766.9	4758.1	4347.4	3239.8
50°	5509.6	5474.7	5404.8	5282.4	5380.7	4863.0	4902.3	5109.8	5101.1	4635.8	3438.6
52.5°	5140.4	5094.6	5284.6	5387.3	5354.5	5085.8	5184.1	5485.6	5481.2	4948.2	3628.7
55°	4218.5	4181.4	4692.6	5223.4	5326.1	5243.1	5496.5	5876.7	5900.7	5280.2	3801.3
57.5°	3318.5	3279.1	3781.6	4812.7	5221.3	5387.3	5861.4	6324.5	6355.1	5640.7	3965.1
60°	2645.6	2586.6	2971.1	4166.1	5024.6	5498.7	6213.1	6816.0	6820.4	5970.6	4065.6
62.5°	1797.9	1732.4	2158.4	3346.9	4694.8	5516.2	6484.0	7239.9	7257.3	6217.5	4083.1
65°	1092.3	1037.7	1326.1	2444.6	4207.6	5367.6	6488.3	7552.3	7567.6	6331.1	3978.2
67.5°	633.5	611.7	758.1	1522.7	3399.3	4967.8	6215.3	7504.2	7532.6	6283.0	3740.1
70°	369.2	367.0	421.6	753.7	2398.7	4174.8	5605.8	7100.0	7141.5	6031.8	3375.3
72.5°	270.9	275.3	297.1	404.2	1389.4	3006.0	4747.2	6287.4	6350.7	5540.2	2855.3
75°	214.1	216.3	235.9	275.3	729.7	1699.6	3556.6	5046.5	5096.7	4664.2	2230.5
77.5°	159.5	163.8	179.1	194.4	338.6	779.9	2001.1	3108.7	3025.7	2560.4	1077.0
80°	115.8	126.7	133.3	139.8	179.1	301.5	600.8	1083.6	1074.8	1118.5	509.0
82.5°	74.3	83.0	89.6	93.9	107.0	144.2	179.1	242.5	262.2	434.7	203.2
85°	32.8	37.1	41.5	50.2	45.9	50.2	74.3	48.1	41.5	65.5	37.1
87.5°	0.0	0.0	6.6	10.9	8.7	4.4	13.1	8.7	6.6	6.6	6.6
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°	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5
2.5°	1391.6	1367.6	1317.3	1269.3	1240.9	1203.7	1171.0	1140.4	1138.2	1129.5	1114.2
5°	1409.1	1363.2	1269.3	1179.7	1112.0	1039.9	978.7	930.7	913.2	900.1	882.6
7.5°	1426.6	1354.5	1214.7	1083.6	976.5	876.0	803.9	738.4	718.7	701.3	690.3
10°	1433.1	1339.2	1151.3	976.5	836.7	729.7	653.2	605.1	587.7	578.9	572.4
12.5°	1452.8	1330.4	1092.3	876.0	714.4	616.1	561.4	533.0	526.5	519.9	513.4
15°	1479.0	1330.4	1033.3	777.7	618.2	539.6	506.8	487.2	482.8	480.6	476.2
17.5°	1507.4	1330.4	976.5	694.7	548.3	489.4	465.3	454.4	452.2	450.0	447.8
20°	1546.7	1332.6	915.4	622.6	498.1	452.2	432.6	419.4	417.3	415.1	415.1
22.5°	1586.0	1337.0	856.4	568.0	465.3	423.8	399.8	386.7	382.3	382.3	382.3
25°	1636.3	1350.1	801.8	522.1	436.9	397.6	367.0	356.1	353.9	353.9	351.7
27.5°	1695.3	1365.4	753.7	487.2	408.5	367.0	336.4	325.5	321.1	321.1	319.0
30°	1758.6	1380.7	714.4	461.0	380.1	336.4	308.0	294.9	290.6	292.7	290.6
32.5°	1828.5	1402.5	683.8	443.5	353.9	310.2	284.0	268.7	266.5	266.5	264.3
35°	1946.5	1463.7	679.4	434.7	332.1	290.6	264.3	249.0	246.9	246.9	244.7
37.5°	2073.2	1533.6	699.1	430.4	314.6	273.1	249.0	233.8	231.6	231.6	231.6
40°	2180.3	1586.0	720.9	430.4	303.7	257.8	235.9	222.8	222.8	222.8	222.8
42.5°	2252.4	1590.4	716.6	430.4	294.9	246.9	227.2	214.1	214.1	216.3	214.1
45°	2359.4	1612.3	699.1	423.8	288.4	238.1	218.5	207.5	205.4	207.5	207.5
47.5°	2486.1	1651.6	681.6	397.6	286.2	229.4	211.9	198.8	196.6	198.8	196.6
50°	2606.3	1686.5	672.9	362.6	281.8	220.6	203.2	190.1	187.9	190.1	187.9
52.5°	2706.8	1701.8	657.6	338.6	270.9	211.9	194.4	181.3	177.0	179.1	179.1
55°	2787.6	1697.5	635.7	319.0	251.2	203.2	183.5	172.6	166.0	166.0	163.8
57.5°	2861.9	1699.6	616.1	299.3	229.4	190.1	174.8	161.7	152.9	150.7	148.6
60°	2890.3	1688.7	581.1	273.1	207.5	179.1	163.8	148.6	139.8	137.6	135.4
62.5°	2850.9	1649.4	535.2	227.2	187.9	166.0	152.9	137.6	128.9	126.7	124.5
65°	2739.5	1575.1	465.3	179.1	170.4	150.7	139.8	128.9	118.0	113.6	111.4
67.5°	2549.5	1468.1	377.9	144.2	150.7	137.6	131.1	118.0	104.9	100.5	98.3
70°	2278.6	1326.1	284.0	122.3	133.3	122.3	118.0	104.9	93.9	89.6	87.4
72.5°	1898.4	1096.7	198.8	104.9	115.8	107.0	102.7	93.9	83.0	76.5	76.5
75°	1435.3	786.5	131.1	89.6	96.1	91.8	85.2	78.6	72.1	67.7	65.5
77.5°	618.2	305.8	80.8	67.7	78.6	76.5	67.7	63.4	61.2	56.8	56.8
80°	266.5	124.5	50.2	50.2	56.8	54.6	52.4	48.1	48.1	45.9	43.7
82.5°	98.3	50.2	30.6	37.1	41.5	37.1	37.1	37.1	37.1	35.0	35.0
85°	24.0	15.3	15.3	21.8	24.0	21.8	24.0	21.8	21.8	21.8	19.7
87.5°	6.6	6.6	8.7	8.7	8.7	8.7	8.7	6.6	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)