

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: P840933

Luminaire Tested: **ARCH4-110-722-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840933
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: ARCH4-110-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 920mA 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: 11317 lumens
Efficiency: N/A
Efficacy: 100.5 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): 112.6
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



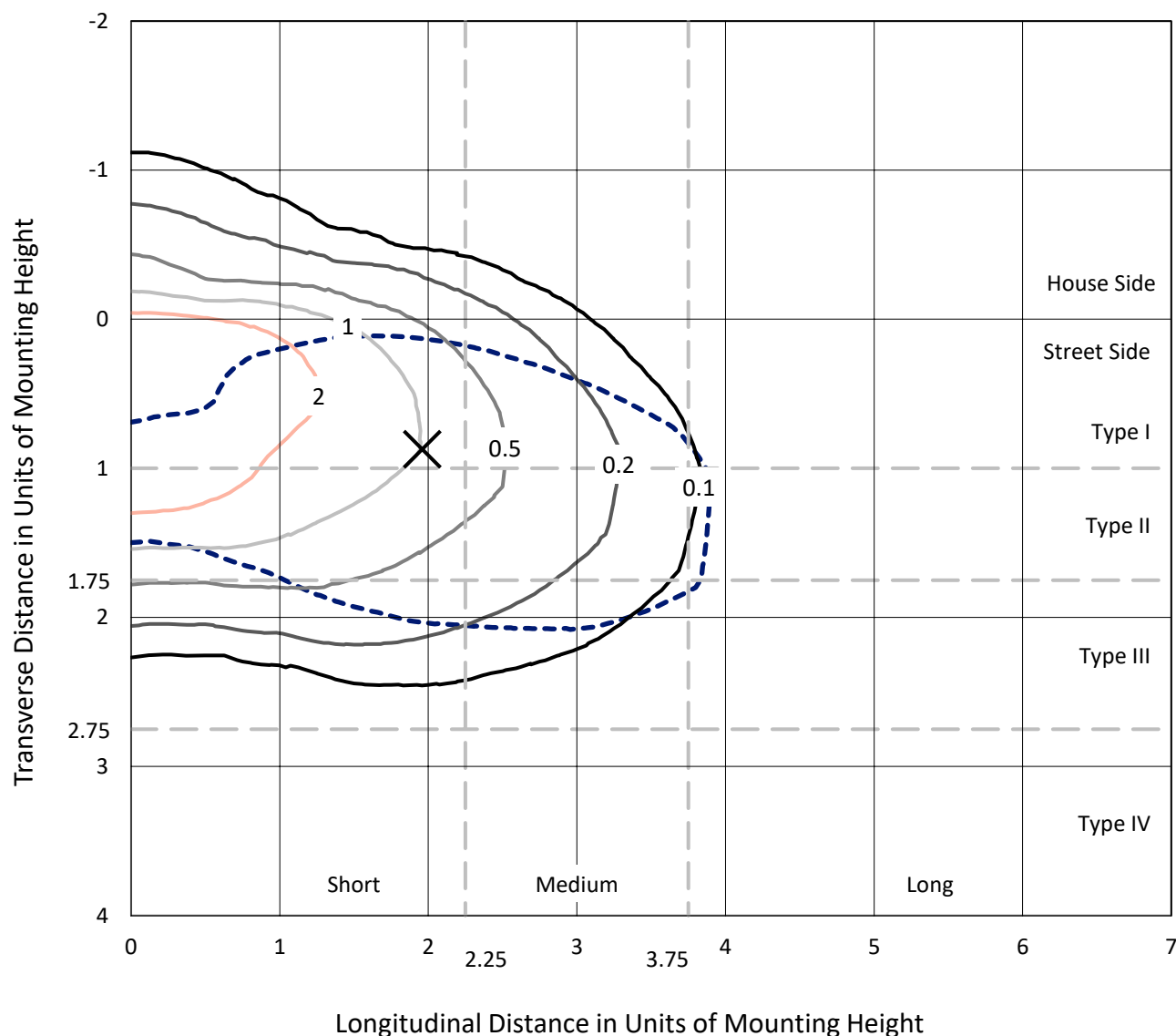
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

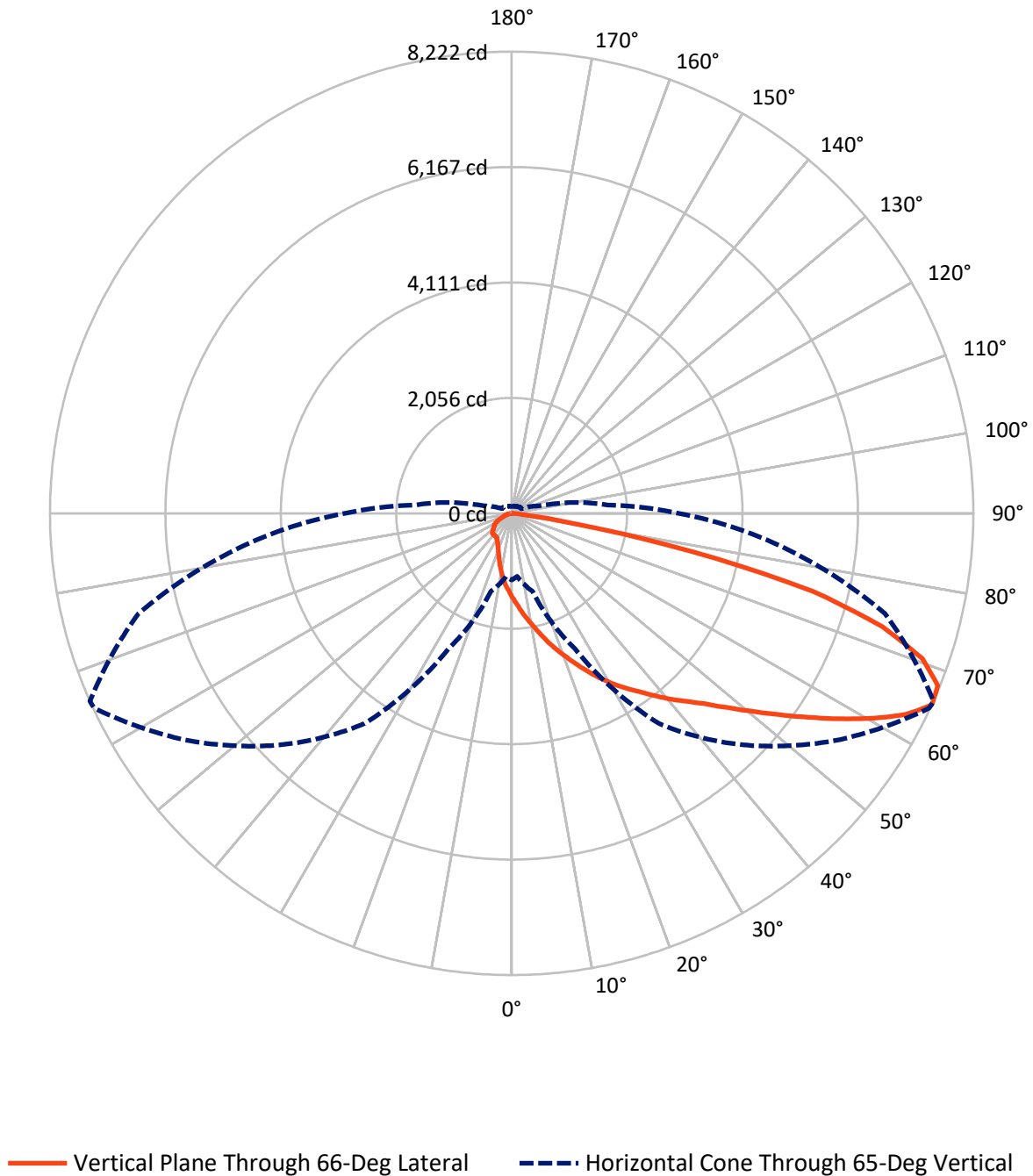


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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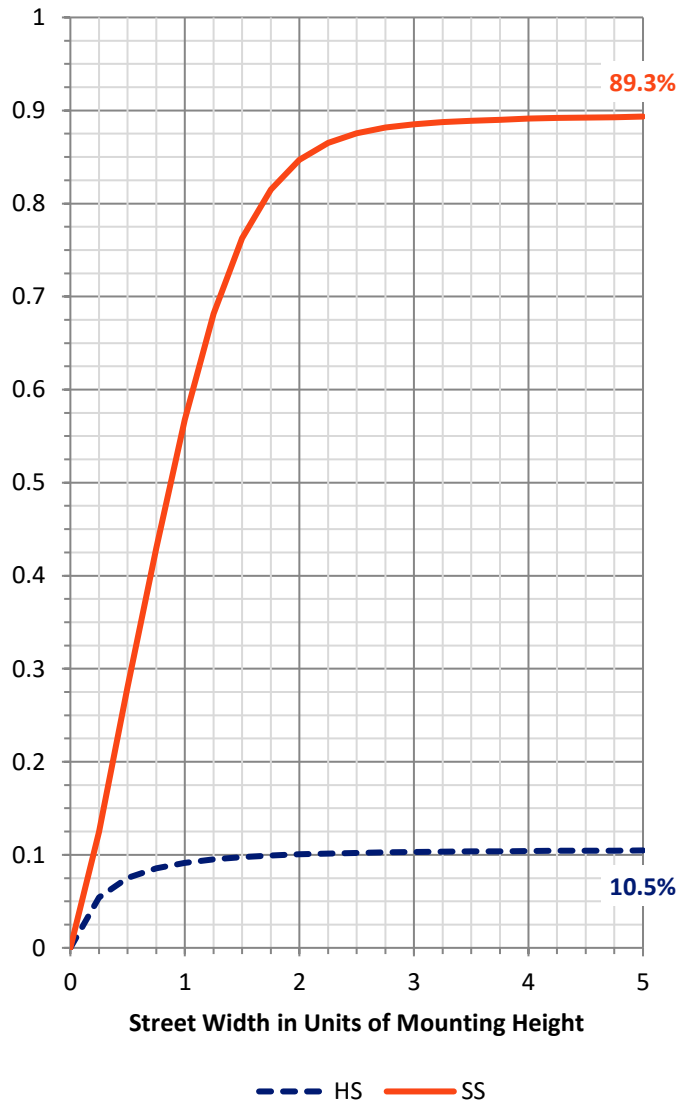
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1197.0	0.0	1197.0
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	10120.0	0.0	10120.0
	% Fixture	89.4	0.0	89.4
Total	Lumens	11317.0	0.0	11317.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	1.3
10°-20°	481.8	4.3
20°-30°	871.7	7.7
30°-40°	1363.2	12.0
40°-50°	2067.9	18.3
50°-60°	2627.4	23.2
60°-70°	2455.0	21.7
70°-80°	1220.1	10.8
80°-90°	82.0	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°	11317.0	100.0
0°-180°	11317.0	100.0

Coefficient of Utilization



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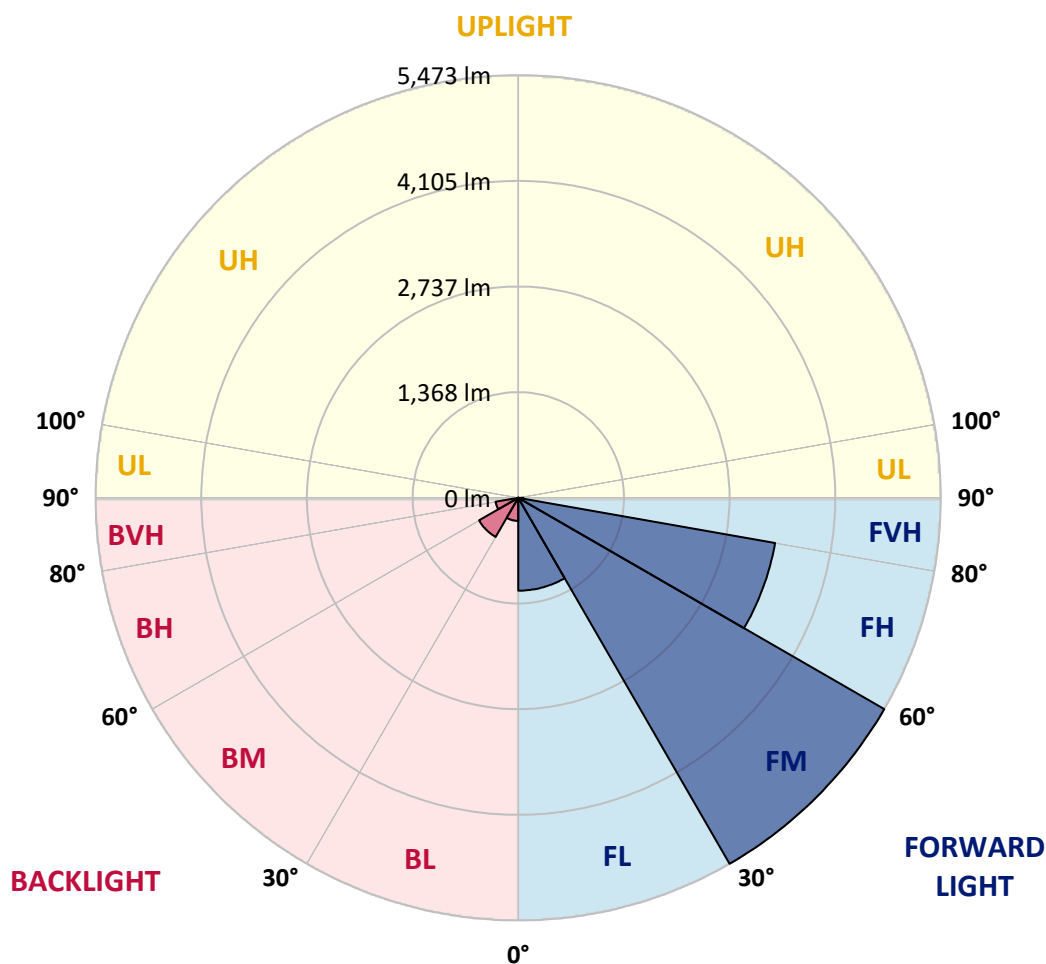
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1202.4	10.6			
FM	(30°-60°)	5473.0	48.4			
FH	(60°-80°)	3377.0	29.8			G2/5000
FVH	(80°-90°)	67.5	0.6			G1/100
BL	(0°-30°)	299.0	2.6	B1/500		
BM	(30°-60°)	585.5	5.2	B1/1000		
BH	(60°-80°)	298.1	2.6	B1/500		G1/500
BVH	(80°-90°)	14.5	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°	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7
2.5°	1749.3	1763.6	1770.7	1773.1	1718.5	1694.8	1671.0	1616.4	1604.6	1573.7	1533.3
5°	2057.9	2076.9	2072.2	2062.7	1996.2	1920.2	1858.5	1756.5	1739.9	1666.3	1576.1
7.5°	2361.7	2378.3	2373.6	2338.0	2264.4	2157.6	2055.5	1906.0	1882.3	1763.6	1618.8
10°	2615.7	2630.0	2627.6	2592.0	2504.2	2373.6	2250.2	2050.8	2022.3	1853.8	1654.4
12.5°	2824.6	2843.6	2841.2	2817.5	2739.1	2596.7	2456.7	2216.9	2181.3	1963.0	1704.2
15°	2988.4	3012.1	3012.1	3002.6	2948.0	2829.3	2670.3	2399.7	2357.0	2088.8	1766.0
17.5°	3088.1	3107.0	3123.7	3140.3	3102.3	3012.1	2867.3	2582.5	2537.4	2212.2	1830.0
20°	3140.3	3159.3	3171.1	3206.7	3213.9	3168.8	3054.8	2762.9	2715.4	2352.2	1903.6
22.5°	3225.7	3242.3	3244.7	3275.6	3289.8	3301.7	3230.5	2940.9	2902.9	2506.5	1986.7
25°	3368.1	3387.1	3380.0	3394.3	3396.6	3410.9	3403.7	3145.0	3107.0	2682.2	2086.4
27.5°	3550.9	3574.6	3569.9	3555.7	3534.3	3522.4	3553.3	3351.5	3315.9	2857.8	2188.5
30°	3747.9	3776.4	3769.3	3740.8	3683.8	3634.0	3676.7	3546.2	3512.9	3038.2	2302.4
32.5°	3947.3	3980.5	3978.2	3930.7	3833.4	3747.9	3812.0	3728.9	3705.2	3232.8	2425.8
35°	4077.8	4120.6	4115.8	4087.3	3961.5	3888.0	3966.3	3916.4	3899.8	3470.2	2603.8
37.5°	4289.1	4334.2	4293.8	4222.6	4077.8	4039.9	4134.8	4127.7	4115.8	3721.8	2791.4
40°	4801.8	4868.3	4761.4	4469.5	4232.1	4198.9	4334.2	4362.7	4350.8	3971.0	2959.9
42.5°	5338.2	5437.9	5271.8	4868.3	4512.2	4391.2	4552.6	4592.9	4578.7	4184.7	3111.8
45°	5663.4	5706.1	5540.0	5226.7	5008.3	4623.8	4785.2	4851.6	4839.8	4441.0	3306.4
47.5°	5929.3	5912.6	5722.8	5511.5	5551.9	4951.3	5048.7	5179.2	5169.7	4723.5	3520.1
50°	5986.2	5948.2	5872.3	5739.4	5846.2	5283.6	5326.4	5551.9	5542.4	5036.8	3736.0
52.5°	5585.1	5535.2	5741.7	5853.3	5817.7	5525.7	5632.6	5960.1	5955.4	5376.2	3942.6
55°	4583.4	4543.1	5098.5	5675.3	5786.8	5696.6	5972.0	6385.0	6411.1	5737.0	4130.1
57.5°	3605.5	3562.8	4108.7	5229.0	5672.9	5853.3	6368.4	6871.6	6904.8	6128.6	4308.1
60°	2874.4	2810.3	3228.1	4526.5	5459.3	5974.4	6750.5	7405.6	7410.4	6487.1	4417.3
62.5°	1953.5	1882.3	2345.1	3636.4	5100.9	5993.3	7044.9	7866.1	7885.1	6755.3	4436.3
65°	1186.8	1127.5	1440.8	2656.1	4571.6	5831.9	7049.6	8205.5	8222.2	6878.7	4322.3
67.5°	688.3	664.6	823.6	1654.4	3693.3	5397.6	6752.9	8153.3	8184.2	6826.5	4063.6
70°	401.1	398.8	458.1	818.9	2606.2	4536.0	6090.7	7714.2	7759.3	6553.5	3667.2
72.5°	294.3	299.1	322.8	439.1	1509.6	3266.1	5157.8	6831.2	6900.1	6019.5	3102.3
75°	232.6	235.0	256.3	299.1	792.8	1846.7	3864.2	5483.0	5537.6	5067.6	2423.4
77.5°	173.3	178.0	194.6	211.3	367.9	847.4	2174.2	3377.6	3287.4	2781.9	1170.2
80°	125.8	137.7	144.8	151.9	194.6	327.6	652.7	1177.3	1167.8	1215.3	553.0
82.5°	80.7	90.2	97.3	102.1	116.3	156.7	194.6	263.5	284.8	472.3	220.7
85°	35.6	40.4	45.1	54.6	49.8	54.6	80.7	52.2	45.1	71.2	40.4
87.5°	0.0	0.0	7.1	11.9	9.5	4.7	14.2	9.5	7.1	7.1	7.1
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°	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7	1497.7
2.5°	1512.0	1485.9	1431.3	1379.1	1348.2	1307.9	1272.3	1239.0	1236.6	1227.2	1210.5
5°	1531.0	1481.1	1379.1	1281.7	1208.2	1129.8	1063.4	1011.2	992.2	977.9	958.9
7.5°	1550.0	1471.6	1319.7	1177.3	1061.0	951.8	873.5	802.3	780.9	761.9	750.1
10°	1557.1	1455.0	1250.9	1061.0	909.1	792.8	709.7	657.5	638.5	629.0	621.9
12.5°	1578.4	1445.5	1186.8	951.8	776.2	669.4	610.0	579.2	572.0	564.9	557.8
15°	1606.9	1445.5	1122.7	845.0	671.7	586.3	550.7	529.3	524.6	522.2	517.4
17.5°	1637.8	1445.5	1061.0	754.8	595.8	531.7	505.6	493.7	491.3	489.0	486.6
20°	1680.5	1447.9	994.5	676.5	541.2	491.3	470.0	455.7	453.4	451.0	451.0
22.5°	1723.2	1452.6	930.5	617.1	505.6	460.5	434.4	420.1	415.4	415.4	415.4
25°	1777.8	1466.9	871.1	567.3	474.7	432.0	398.8	386.9	384.5	384.5	382.1
27.5°	1841.9	1483.5	818.9	529.3	443.9	398.8	365.5	353.7	348.9	348.9	346.5
30°	1910.7	1500.1	776.2	500.8	413.0	365.5	334.7	320.4	315.7	318.1	315.7
32.5°	1986.7	1523.9	742.9	481.8	384.5	337.1	308.6	292.0	289.6	289.6	287.2
35°	2114.9	1590.3	738.2	472.3	360.8	315.7	287.2	270.6	268.2	268.2	265.8
37.5°	2252.5	1666.3	759.6	467.6	341.8	296.7	270.6	254.0	251.6	251.6	251.6
40°	2368.9	1723.2	783.3	467.6	329.9	280.1	256.3	242.1	242.1	242.1	242.1
42.5°	2447.2	1728.0	778.5	467.6	320.4	268.2	246.9	232.6	232.6	235.0	232.6
45°	2563.5	1751.7	759.6	460.5	313.3	258.7	237.4	225.5	223.1	225.5	225.5
47.5°	2701.2	1794.4	740.6	432.0	310.9	249.2	230.2	216.0	213.6	216.0	213.6
50°	2831.7	1832.4	731.1	394.0	306.2	239.7	220.7	206.5	204.1	206.5	204.1
52.5°	2940.9	1849.0	714.5	367.9	294.3	230.2	211.3	197.0	192.3	194.6	194.6
55°	3028.7	1844.3	690.7	346.5	273.0	220.7	199.4	187.5	180.4	180.4	178.0
57.5°	3109.4	1846.7	669.4	325.2	249.2	206.5	189.9	175.6	166.2	163.8	161.4
60°	3140.3	1834.8	631.4	296.7	225.5	194.6	178.0	161.4	151.9	149.5	147.2
62.5°	3097.6	1792.1	581.5	246.9	204.1	180.4	166.2	149.5	140.0	137.7	135.3
65°	2976.5	1711.4	505.6	194.6	185.1	163.8	151.9	140.0	128.2	123.4	121.1
67.5°	2770.0	1595.1	410.6	156.7	163.8	149.5	142.4	128.2	113.9	109.2	106.8
70°	2475.7	1440.8	308.6	132.9	144.8	132.9	128.2	113.9	102.1	97.3	94.9
72.5°	2062.7	1191.5	216.0	113.9	125.8	116.3	111.6	102.1	90.2	83.1	83.1
75°	1559.5	854.5	142.4	97.3	104.4	99.7	92.6	85.4	78.3	73.6	71.2
77.5°	671.7	332.3	87.8	73.6	85.4	83.1	73.6	68.8	66.5	61.7	61.7
80°	289.6	135.3	54.6	54.6	61.7	59.3	57.0	52.2	52.2	49.8	47.5
82.5°	106.8	54.6	33.2	40.4	45.1	40.4	40.4	40.4	40.4	38.0	38.0
85°	26.1	16.6	16.6	23.7	26.1	23.7	26.1	23.7	23.7	23.7	21.4
87.5°	7.1	7.1	9.5	9.5	9.5	9.5	9.5	7.1	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)