

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: P841023

Luminaire Tested: **ARCH4-120-730-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841023
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: ARCH4-120-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1000mA 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: 13908 lumens
Efficiency: N/A
Efficacy: 114.0 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): 122
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



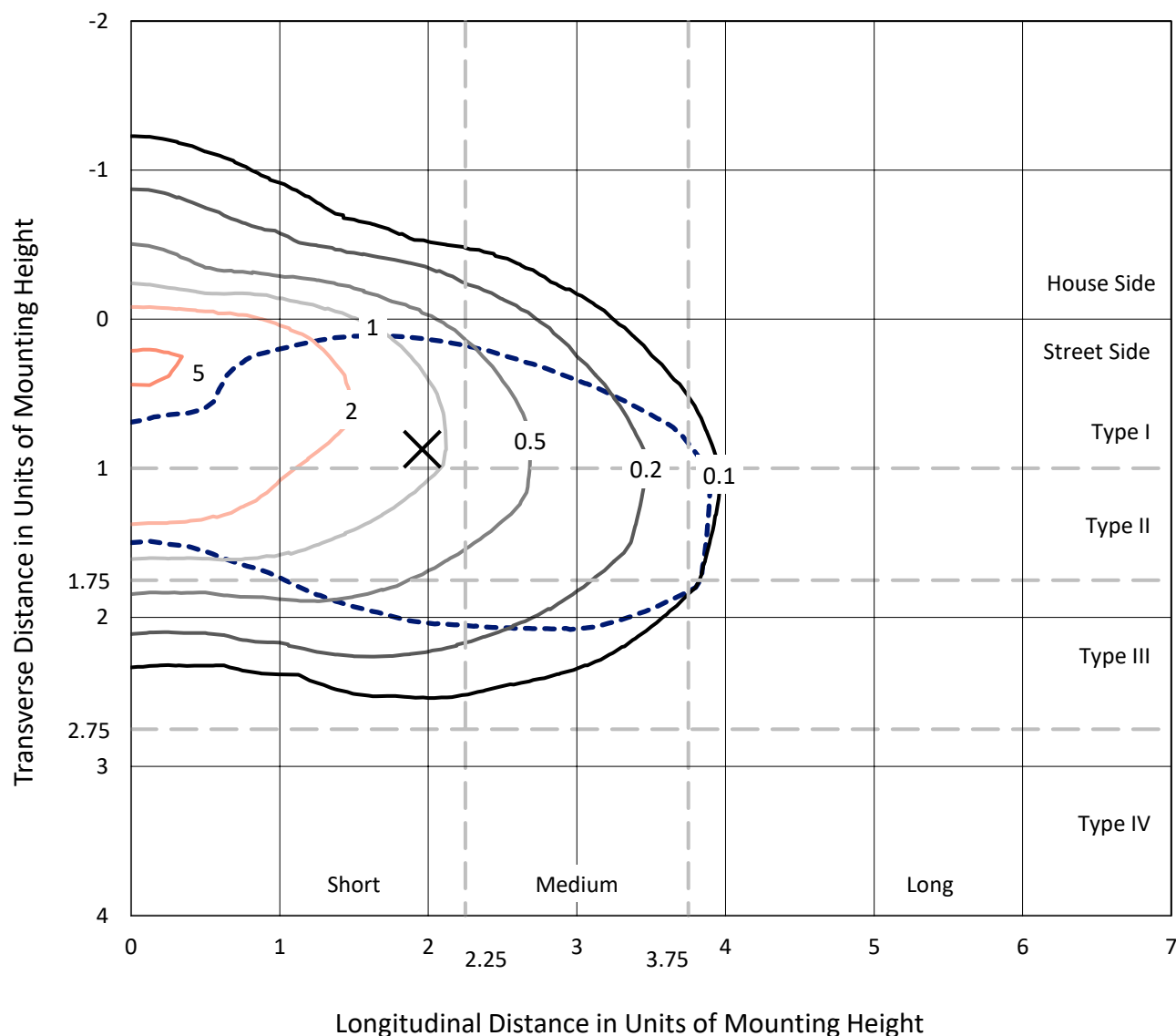
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

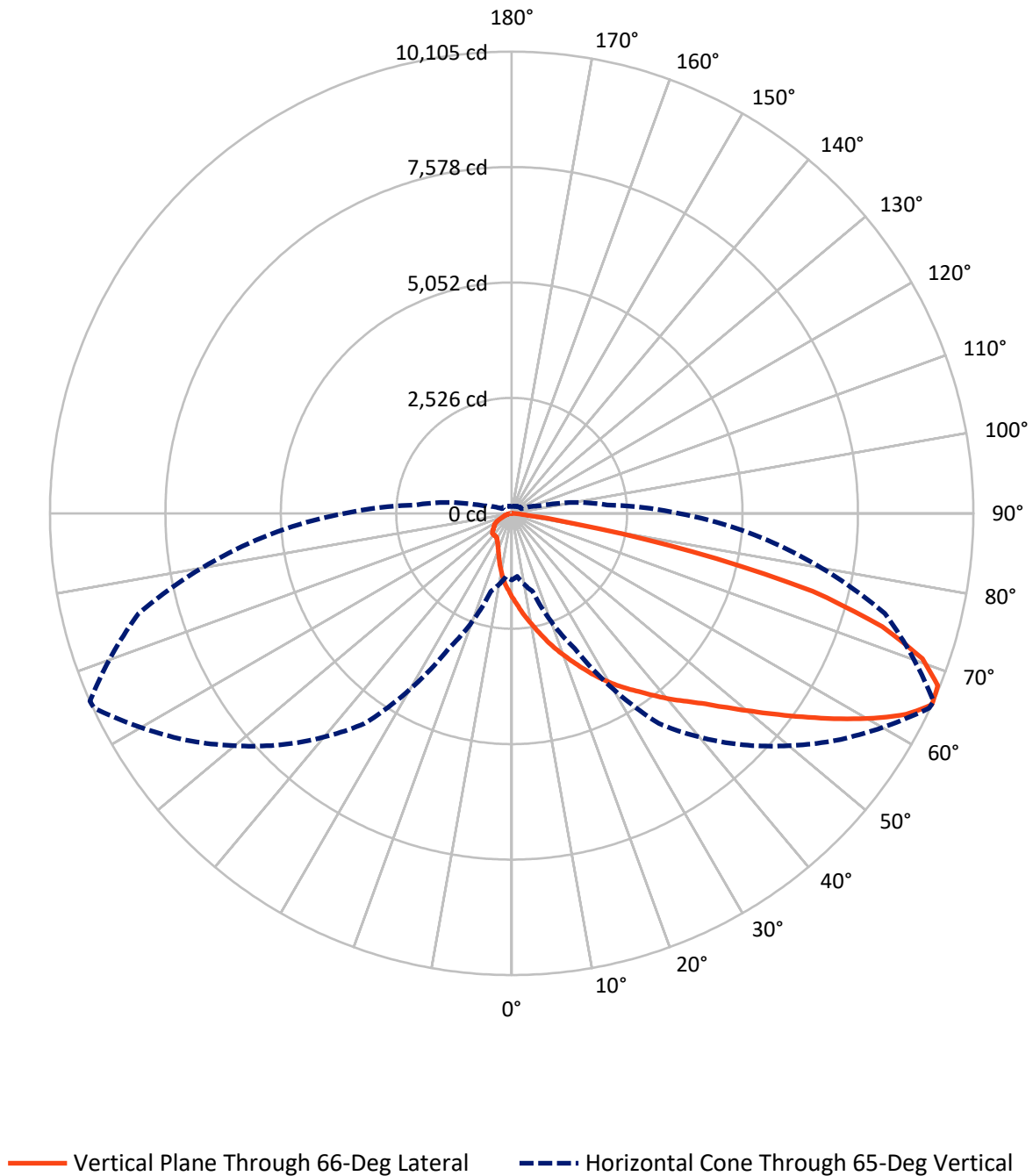


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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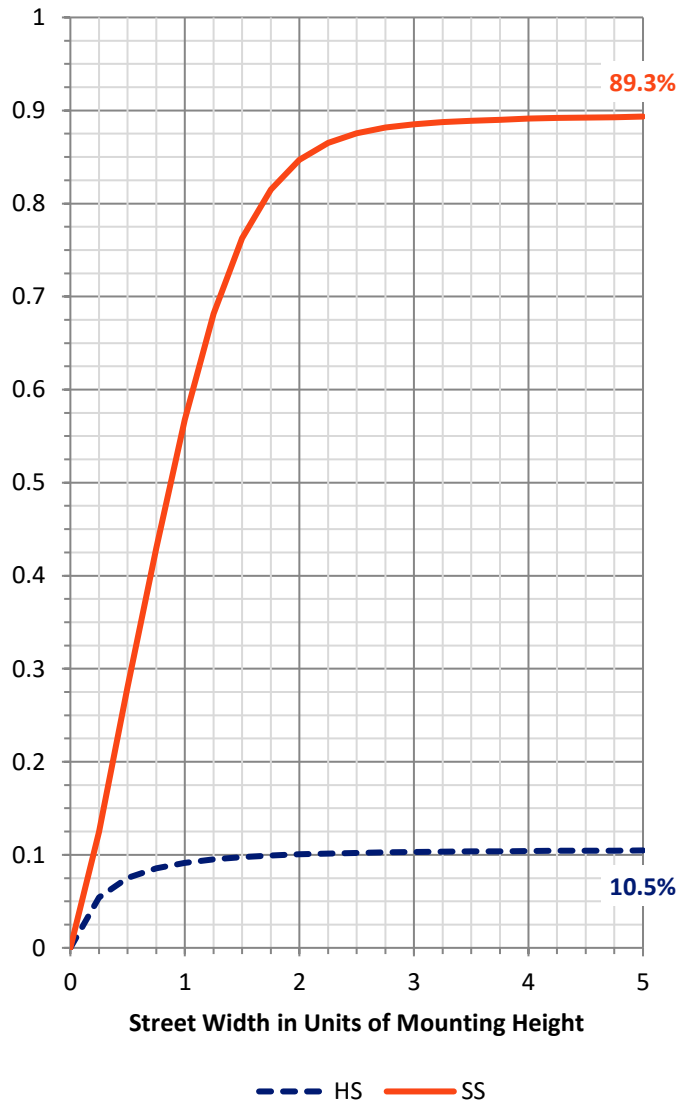
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1471.1	0.0	1471.1
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	12436.9	0.0	12436.9
	% Fixture	89.4	0.0	89.4
Total	Lumens	13908.0	0.0	13908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.7	1.3
10°-20°	592.1	4.3
20°-30°	1071.3	7.7
30°-40°	1675.3	12.0
40°-50°	2541.4	18.3
50°-60°	3228.9	23.2
60°-70°	3017.1	21.7
70°-80°	1499.5	10.8
80°-90°	100.8	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°	13908.0	100.0
0°-180°	13908.0	100.0

Coefficient of Utilization



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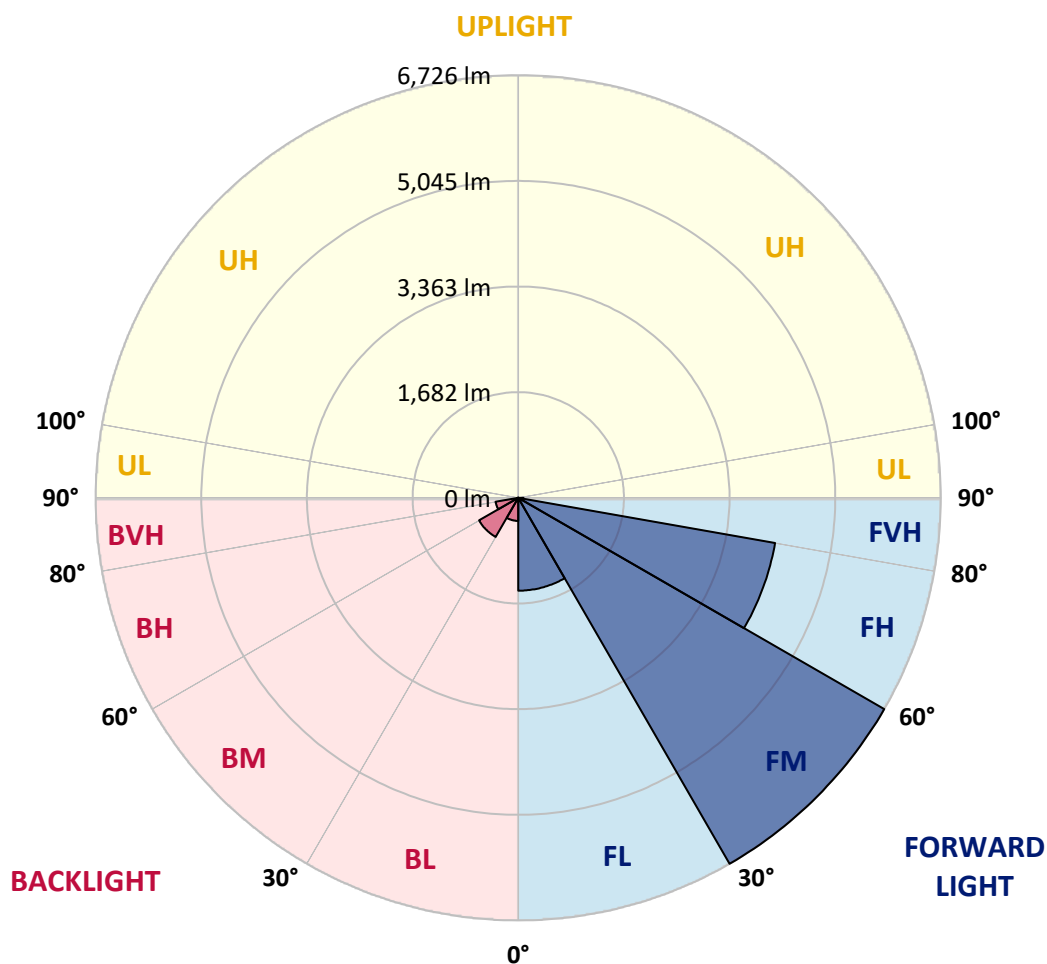
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1477.7	10.6			
FM	(30°-60°)	6726.1	48.4			
FH	(60°-80°)	4150.2	29.8			G2/5000
FVH	(80°-90°)	82.9	0.6			G1/100
BL	(0°-30°)	367.4	2.6	B1/500		
BM	(30°-60°)	719.5	5.2	B1/1000		
BH	(60°-80°)	366.3	2.6	B1/500		G1/500
BVH	(80°-90°)	17.8	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°	1840.6	1840.6	1840.6	1840.6	1840.6	1840.6	1840.6	1840.6	1840.6	1840.6	1840.6
2.5°	2149.9	2167.4	2176.1	2179.0	2111.9	2082.8	2053.6	1986.5	1971.9	1934.0	1884.4
5°	2529.1	2552.4	2546.6	2534.9	2453.2	2359.9	2284.0	2158.6	2138.2	2047.8	1936.9
7.5°	2902.4	2922.9	2917.0	2873.3	2782.8	2651.6	2526.2	2342.4	2313.2	2167.4	1989.4
10°	3214.6	3232.1	3229.2	3185.4	3077.5	2917.0	2765.3	2520.3	2485.3	2278.2	2033.2
12.5°	3471.3	3494.6	3491.7	3462.5	3366.3	3191.2	3019.1	2724.5	2680.8	2412.4	2094.4
15°	3672.5	3701.7	3701.7	3690.0	3623.0	3477.1	3281.7	2949.1	2896.6	2567.0	2170.3
17.5°	3795.1	3818.4	3838.8	3859.2	3812.6	3701.7	3523.8	3173.7	3118.3	2718.7	2249.0
20°	3859.2	3882.6	3897.2	3940.9	3949.7	3894.2	3754.2	3395.4	3337.1	2890.8	2339.5
22.5°	3964.2	3984.7	3987.6	4025.5	4043.0	4057.6	3970.1	3614.2	3567.5	3080.4	2441.6
25°	4139.3	4162.6	4153.9	4171.4	4174.3	4191.8	4183.0	3865.1	3818.4	3296.2	2564.1
27.5°	4363.9	4393.1	4387.2	4369.7	4343.5	4328.9	4366.8	4118.8	4075.1	3512.1	2689.5
30°	4606.0	4641.0	4632.2	4597.2	4527.2	4466.0	4518.5	4358.0	4317.2	3733.8	2829.5
32.5°	4851.0	4891.9	4888.9	4830.6	4711.0	4606.0	4684.8	4582.7	4553.5	3973.0	2981.2
35°	5011.5	5064.0	5058.1	5023.1	4868.5	4778.1	4874.4	4813.1	4792.7	4264.7	3200.0
37.5°	5271.1	5326.5	5276.9	5189.4	5011.5	4964.8	5081.5	5072.7	5058.1	4573.9	3430.4
40°	5901.2	5982.8	5851.6	5492.8	5201.1	5160.2	5326.5	5361.5	5346.9	4880.2	3637.5
42.5°	6560.4	6682.9	6478.7	5982.8	5545.3	5396.5	5594.9	5644.5	5627.0	5142.7	3824.2
45°	6960.0	7012.5	6808.4	6423.3	6154.9	5682.4	5880.7	5962.4	5947.8	5457.8	4063.4
47.5°	7286.7	7266.3	7033.0	6773.3	6822.9	6084.9	6204.5	6365.0	6353.3	5804.9	4326.0
50°	7356.8	7310.1	7216.7	7053.4	7184.7	6493.3	6545.8	6822.9	6811.3	6189.9	4591.4
52.5°	6863.8	6802.5	7056.3	7193.4	7149.6	6790.9	6922.1	7324.7	7318.8	6607.1	4845.2
55°	5632.8	5583.2	6265.8	6974.6	7111.7	7000.9	7339.3	7846.8	7878.9	7050.5	5075.6
57.5°	4431.0	4378.5	5049.4	6426.2	6971.7	7193.4	7826.4	8444.8	8485.6	7531.8	5294.4
60°	3532.5	3453.8	3967.2	5562.8	6709.2	7342.2	8296.0	9101.1	9107.0	7972.2	5428.6
62.5°	2400.7	2313.2	2882.0	4468.9	6268.7	7365.5	8657.8	9667.0	9690.4	8301.9	5451.9
65°	1458.5	1385.6	1770.6	3264.2	5618.2	7167.1	8663.6	10084.2	10104.6	8453.6	5311.9
67.5°	845.9	816.8	1012.2	2033.2	4538.9	6633.3	8299.0	10020.0	10057.9	8389.4	4994.0
70°	493.0	490.1	563.0	1006.4	3202.9	5574.4	7485.1	9480.4	9535.8	8053.9	4506.8
72.5°	361.7	367.5	396.7	539.7	1855.2	4013.8	6338.7	8395.2	8479.8	7397.6	3812.6
75°	285.9	288.8	315.0	367.5	974.3	2269.5	4748.9	6738.3	6805.4	6227.9	2978.3
77.5°	212.9	218.8	239.2	259.6	452.1	1041.4	2672.0	4150.9	4040.1	3418.8	1438.1
80°	154.6	169.2	177.9	186.7	239.2	402.6	802.2	1446.8	1435.2	1493.5	679.7
82.5°	99.2	110.8	119.6	125.4	142.9	192.5	239.2	323.8	350.0	580.5	271.3
85°	43.8	49.6	55.4	67.1	61.3	67.1	99.2	64.2	55.4	87.5	49.6
87.5°	0.0	0.0	8.8	14.6	11.7	5.8	17.5	11.7	8.8	8.8	8.8
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°	1840.6	1840.6	1840.6	1840.6	1840.6	1840.6	1840.6	1840.6	1840.6	1840.6	1840.6
2.5°	1858.1	1826.1	1759.0	1694.8	1656.9	1607.3	1563.5	1522.7	1519.8	1508.1	1487.7
5°	1881.5	1820.2	1694.8	1575.2	1484.8	1388.5	1306.8	1242.7	1219.3	1201.8	1178.5
7.5°	1904.8	1808.6	1621.9	1446.8	1303.9	1169.7	1073.5	986.0	959.7	936.4	921.8
10°	1913.6	1788.1	1537.3	1303.9	1117.2	974.3	872.2	808.0	784.7	773.0	764.3
12.5°	1939.8	1776.5	1458.5	1169.7	953.9	822.6	749.7	711.8	703.0	694.3	685.5
15°	1974.8	1776.5	1379.8	1038.5	825.5	720.5	676.8	650.5	644.7	641.7	635.9
17.5°	2012.8	1776.5	1303.9	927.6	732.2	653.4	621.3	606.7	603.8	600.9	598.0
20°	2065.3	1779.4	1222.2	831.4	665.1	603.8	577.6	560.1	557.2	554.2	554.2
22.5°	2117.8	1785.2	1143.5	758.4	621.3	565.9	533.8	516.3	510.5	510.5	510.5
25°	2184.9	1802.7	1070.6	697.2	583.4	530.9	490.1	475.5	472.6	472.6	469.6
27.5°	2263.6	1823.1	1006.4	650.5	545.5	490.1	449.2	434.6	428.8	428.8	425.9
30°	2348.2	1843.6	953.9	615.5	507.6	449.2	411.3	393.8	388.0	390.9	388.0
32.5°	2441.6	1872.7	913.0	592.2	472.6	414.2	379.2	358.8	355.9	355.9	353.0
35°	2599.1	1954.4	907.2	580.5	443.4	388.0	353.0	332.5	329.6	329.6	326.7
37.5°	2768.3	2047.8	933.5	574.7	420.1	364.6	332.5	312.1	309.2	309.2	309.2
40°	2911.2	2117.8	962.6	574.7	405.5	344.2	315.0	297.5	297.5	297.5	297.5
42.5°	3007.5	2123.6	956.8	574.7	393.8	329.6	303.4	285.9	285.9	288.8	285.9
45°	3150.4	2152.8	933.5	565.9	385.0	318.0	291.7	277.1	274.2	277.1	277.1
47.5°	3319.6	2205.3	910.1	530.9	382.1	306.3	283.0	265.4	262.5	265.4	262.5
50°	3480.0	2251.9	898.4	484.2	376.3	294.6	271.3	253.8	250.9	253.8	250.9
52.5°	3614.2	2272.4	878.0	452.1	361.7	283.0	259.6	242.1	236.3	239.2	239.2
55°	3722.1	2266.5	848.9	425.9	335.5	271.3	245.0	230.4	221.7	221.7	218.8
57.5°	3821.3	2269.5	822.6	399.6	306.3	253.8	233.4	215.9	204.2	201.3	198.4
60°	3859.2	2254.9	775.9	364.6	277.1	239.2	218.8	198.4	186.7	183.8	180.9
62.5°	3806.7	2202.4	714.7	303.4	250.9	221.7	204.2	183.8	172.1	169.2	166.3
65°	3658.0	2103.2	621.3	239.2	227.5	201.3	186.7	172.1	157.5	151.7	148.8
67.5°	3404.2	1960.2	504.6	192.5	201.3	183.8	175.0	157.5	140.0	134.2	131.3
70°	3042.5	1770.6	379.2	163.4	177.9	163.4	157.5	140.0	125.4	119.6	116.7
72.5°	2534.9	1464.4	265.4	140.0	154.6	142.9	137.1	125.4	110.8	102.1	102.1
75°	1916.5	1050.1	175.0	119.6	128.3	122.5	113.8	105.0	96.3	90.4	87.5
77.5°	825.5	408.4	107.9	90.4	105.0	102.1	90.4	84.6	81.7	75.8	75.8
80°	355.9	166.3	67.1	67.1	75.8	72.9	70.0	64.2	64.2	61.3	58.3
82.5°	131.3	67.1	40.8	49.6	55.4	49.6	49.6	49.6	49.6	46.7	46.7
85°	32.1	20.4	20.4	29.2	32.1	29.2	32.1	29.2	29.2	29.2	26.3
87.5°	8.8	8.8	11.7	11.7	11.7	11.7	11.7	8.8	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)