

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: P841005

Luminaire Tested: **ARCH4-120-722-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841005
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: ARCH4-120-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 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: 12170 lumens
Efficiency: N/A
Efficacy: 99.8 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



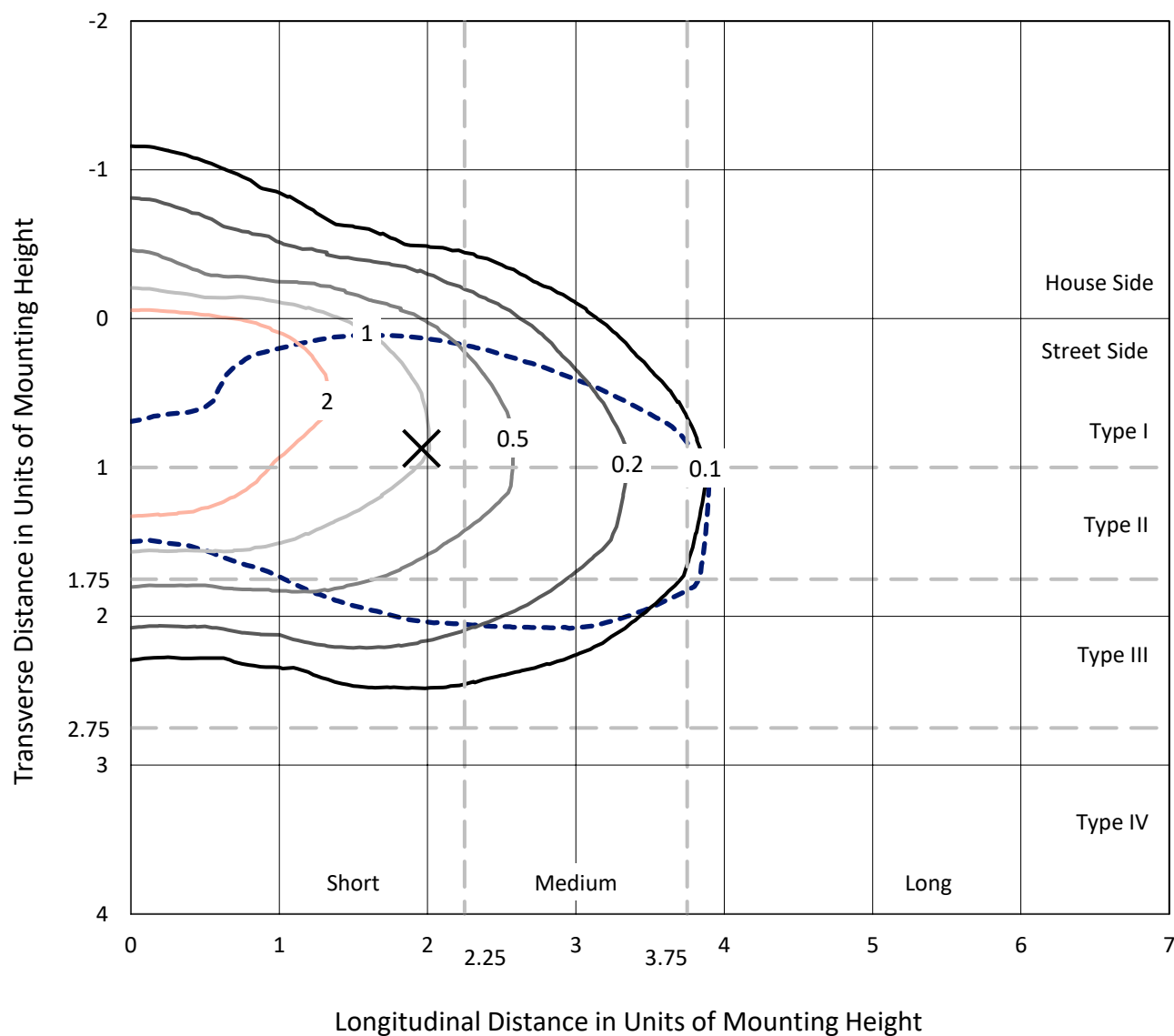
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

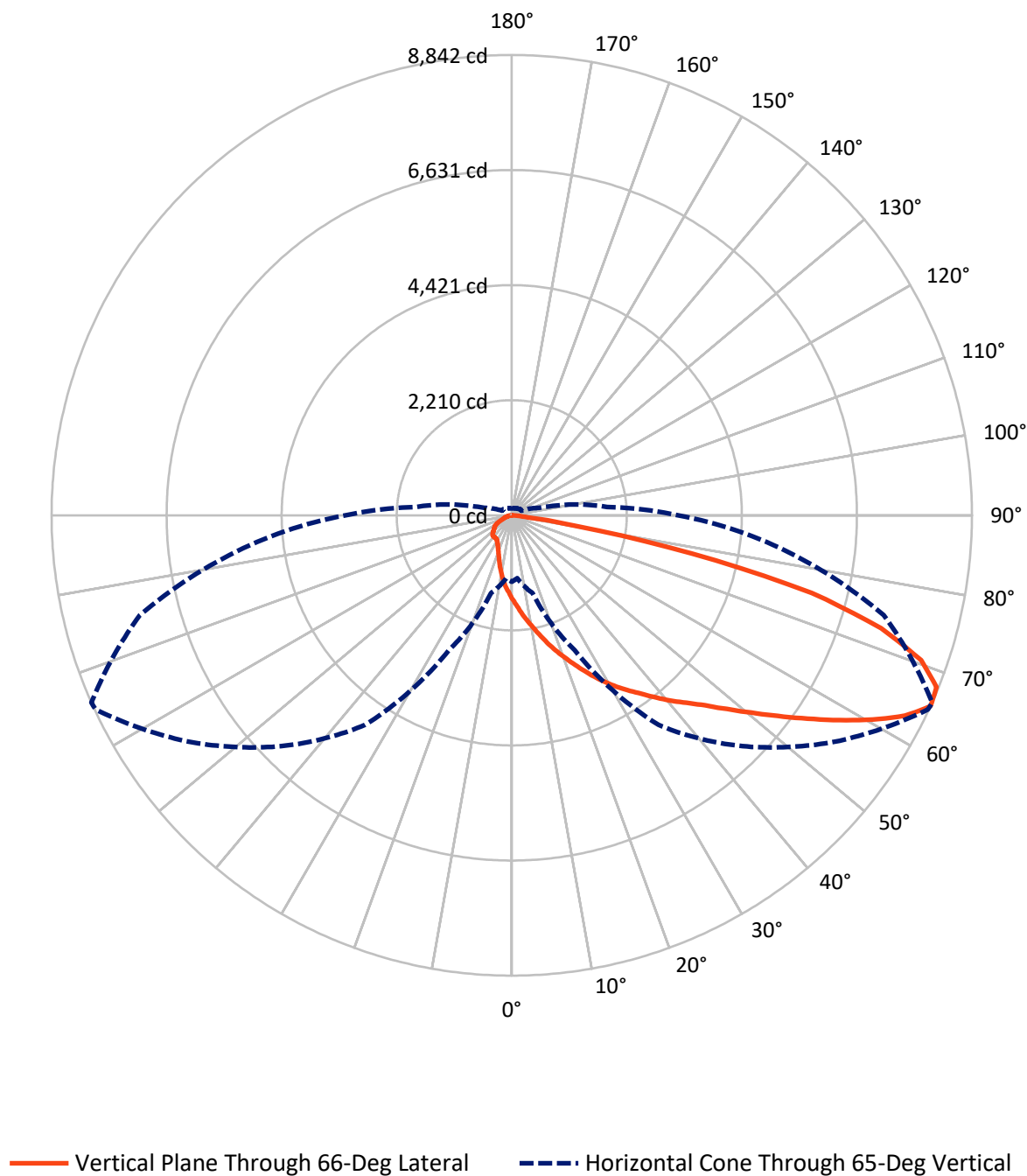


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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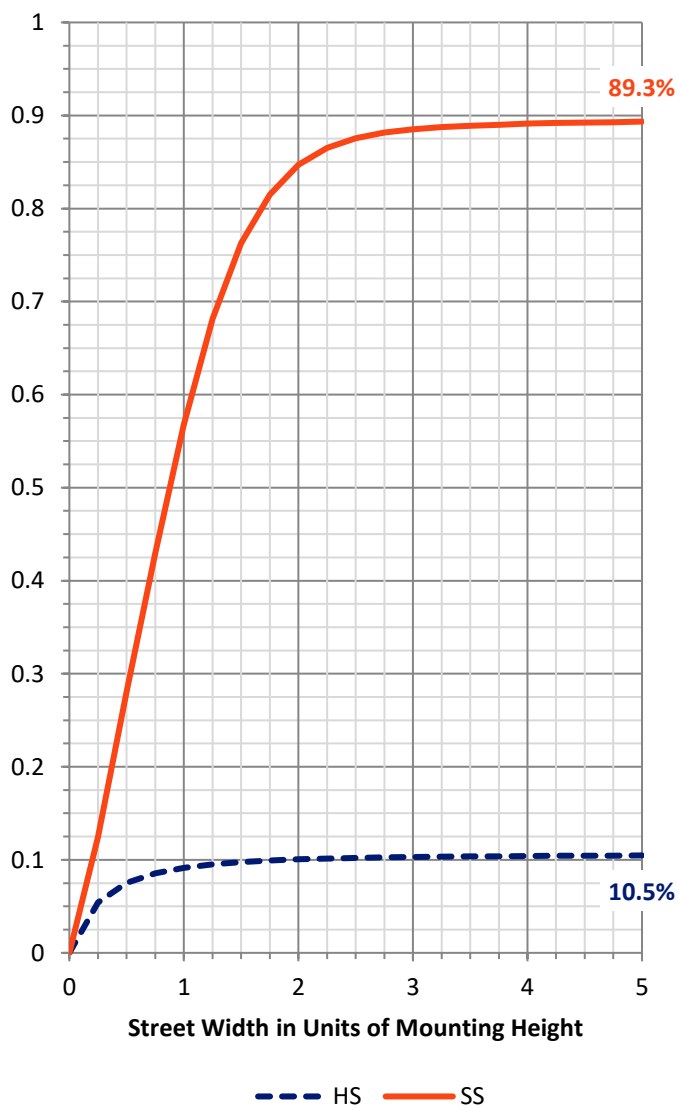
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1287.3	0.0	1287.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	10882.7	0.0	10882.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	12170.0	0.0	12170.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	1.3
10°-20°	518.1	4.3
20°-30°	937.5	7.7
30°-40°	1465.9	12.0
40°-50°	2223.8	18.3
50°-60°	2825.4	23.2
60°-70°	2640.1	21.7
70°-80°	1312.1	10.8
80°-90°	88.2	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°	12170.0	100.0
0°-180°	12170.0	100.0

Coefficient of Utilization



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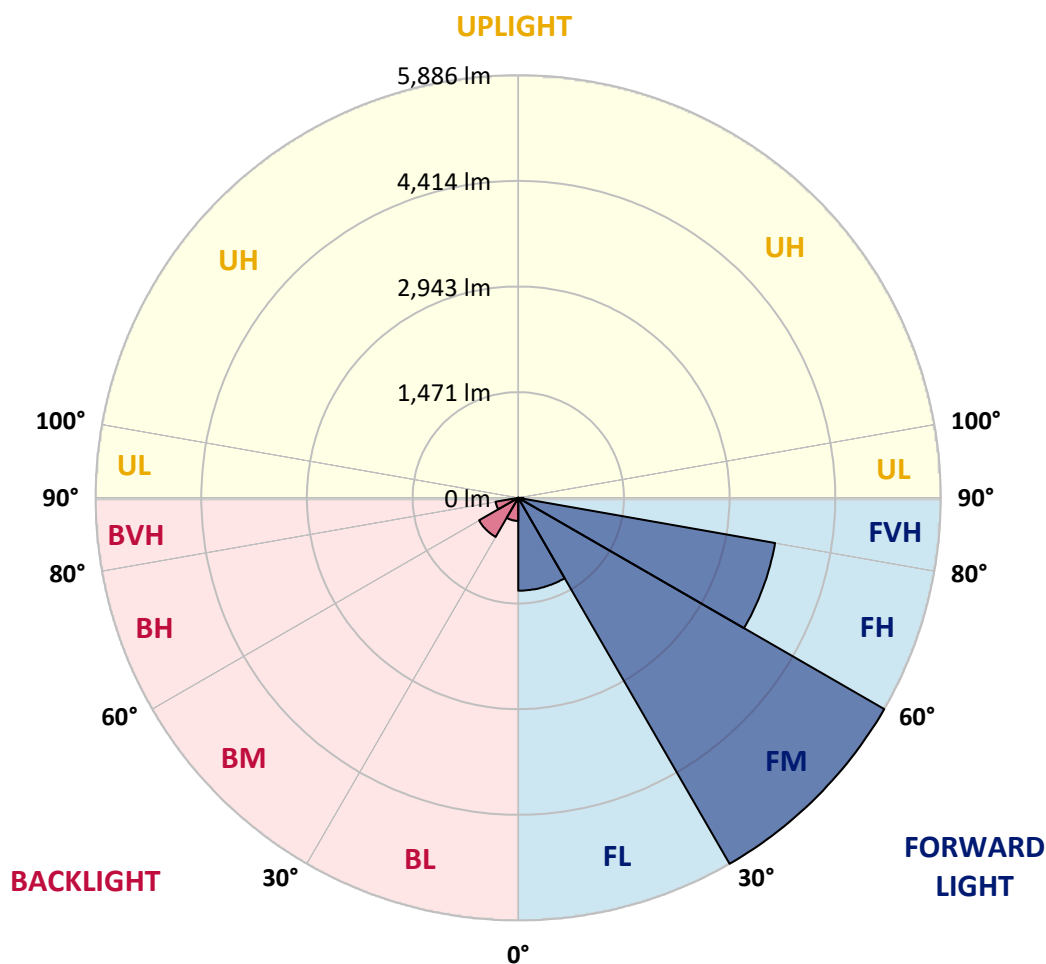
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1293.1	10.6			
FM	(30°-60°)	5885.5	48.4			
FH	(60°-80°)	3631.6	29.8			G2/5000
FVH	(80°-90°)	72.6	0.6			G1/100
BL	(0°-30°)	321.5	2.6	B1/500		
BM	(30°-60°)	629.6	5.2	B1/1000		
BH	(60°-80°)	320.6	2.6	B1/500		G1/500
BVH	(80°-90°)	15.6	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°	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6
2.5°	1881.2	1896.5	1904.2	1906.7	1848.0	1822.5	1797.0	1738.3	1725.5	1692.3	1648.9
5°	2213.0	2233.4	2228.3	2218.1	2146.7	2065.0	1998.6	1888.9	1871.0	1791.9	1694.9
7.5°	2539.7	2557.6	2552.5	2514.2	2435.1	2320.2	2210.5	2049.7	2024.1	1896.5	1740.8
10°	2812.9	2828.2	2825.6	2787.3	2692.9	2552.5	2419.8	2205.4	2174.7	1993.5	1779.1
12.5°	3037.5	3057.9	3055.4	3029.8	2945.6	2792.4	2641.8	2384.0	2345.8	2110.9	1832.7
15°	3213.6	3239.1	3239.1	3228.9	3170.2	3042.6	2871.6	2580.6	2534.6	2246.2	1899.1
17.5°	3320.8	3341.2	3359.1	3377.0	3336.1	3239.1	3083.4	2777.1	2728.6	2378.9	1968.0
20°	3377.0	3397.4	3410.2	3448.4	3456.1	3407.6	3285.1	2971.1	2920.1	2529.5	2047.1
22.5°	3468.9	3486.7	3489.3	3522.5	3537.8	3550.5	3474.0	3162.6	3121.7	2695.4	2136.4
25°	3622.0	3642.4	3634.8	3650.1	3652.6	3668.0	3660.3	3382.1	3341.2	2884.3	2243.7
27.5°	3818.6	3844.1	3839.0	3823.7	3800.7	3787.9	3821.1	3604.1	3565.9	3073.2	2353.4
30°	4030.4	4061.0	4053.4	4022.8	3961.5	3907.9	3953.8	3813.4	3777.7	3267.2	2475.9
32.5°	4244.8	4280.6	4278.0	4227.0	4122.3	4030.4	4099.3	4010.0	3984.5	3476.5	2608.7
35°	4385.2	4431.2	4426.0	4395.4	4260.1	4181.0	4265.2	4211.6	4193.8	3731.8	2800.1
37.5°	4612.4	4660.9	4617.5	4540.9	4385.2	4344.4	4446.5	4438.8	4426.0	4002.3	3001.7
40°	5163.7	5235.2	5120.3	4806.4	4551.1	4515.4	4660.9	4691.5	4678.7	4270.3	3183.0
42.5°	5740.6	5847.8	5669.1	5235.2	4852.3	4722.1	4895.7	4939.1	4923.8	4500.1	3346.3
45°	6090.3	6136.2	5957.6	5620.6	5385.8	4972.3	5145.9	5217.3	5204.6	4775.7	3555.6
47.5°	6376.2	6358.3	6154.1	5926.9	5970.3	5324.5	5429.2	5569.6	5559.4	5079.5	3785.4
50°	6437.4	6396.6	6314.9	6172.0	6286.8	5681.9	5727.8	5970.3	5960.1	5416.4	4017.6
52.5°	6006.1	5952.4	6174.5	6294.5	6256.2	5942.2	6057.1	6409.3	6404.2	5781.4	4239.7
55°	4928.9	4885.5	5482.8	6103.0	6223.0	6126.0	6422.1	6866.2	6894.3	6169.4	4441.4
57.5°	3877.3	3831.3	4418.4	5623.2	6100.5	6294.5	6848.4	7389.5	7425.2	6590.6	4632.8
60°	3091.1	3022.2	3471.4	4867.6	5870.8	6424.7	7259.3	7963.8	7968.9	6976.0	4750.2
62.5°	2100.7	2024.1	2521.9	3910.4	5485.3	6445.1	7575.8	8459.0	8479.4	7264.4	4770.6
65°	1276.3	1212.4	1549.4	2856.3	4916.1	6271.5	7580.9	8824.0	8841.9	7397.2	4648.1
67.5°	740.2	714.7	885.7	1779.1	3971.7	5804.4	7261.9	8767.9	8801.0	7341.0	4369.9
70°	431.4	428.8	492.6	880.6	2802.7	4877.8	6549.7	8295.7	8344.1	7047.5	3943.6
72.5°	316.5	321.6	347.1	472.2	1623.4	3512.3	5546.6	7346.1	7420.1	6473.2	3336.1
75°	250.1	252.7	275.7	321.6	852.5	1985.9	4155.5	5896.3	5955.0	5449.6	2606.1
77.5°	186.3	191.4	209.3	227.2	395.6	911.2	2338.1	3632.2	3535.2	2991.5	1258.4
80°	135.3	148.0	155.7	163.4	209.3	352.2	701.9	1266.0	1255.8	1306.9	594.7
82.5°	86.8	97.0	104.7	109.8	125.1	168.5	209.3	283.3	306.3	507.9	237.4
85°	38.3	43.4	48.5	58.7	53.6	58.7	86.8	56.2	48.5	76.6	43.4
87.5°	0.0	0.0	7.7	12.8	10.2	5.1	15.3	10.2	7.7	7.7	7.7
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°	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6
2.5°	1625.9	1597.9	1539.2	1483.0	1449.8	1406.4	1368.1	1332.4	1329.9	1319.6	1301.8
5°	1646.4	1592.8	1483.0	1378.4	1299.2	1215.0	1143.5	1087.4	1066.9	1051.6	1031.2
7.5°	1666.8	1582.6	1419.2	1266.0	1141.0	1023.6	939.3	862.7	839.8	819.4	806.6
10°	1674.4	1564.7	1345.2	1141.0	977.6	852.5	763.2	707.0	686.6	676.4	668.8
12.5°	1697.4	1554.5	1276.3	1023.6	834.7	719.8	656.0	622.8	615.2	607.5	599.8
15°	1728.0	1554.5	1207.3	908.7	722.4	630.5	592.2	569.2	564.1	561.6	556.4
17.5°	1761.2	1554.5	1141.0	811.7	640.7	571.8	543.7	530.9	528.4	525.8	523.3
20°	1807.2	1557.0	1069.5	727.5	582.0	528.4	505.4	490.1	487.5	485.0	485.0
22.5°	1853.1	1562.1	1000.6	663.7	543.7	495.2	467.1	451.8	446.7	446.7	446.7
25°	1911.8	1577.5	936.8	610.0	510.5	464.6	428.8	416.1	413.5	413.5	411.0
27.5°	1980.7	1595.3	880.6	569.2	477.3	428.8	393.1	380.3	375.2	375.2	372.7
30°	2054.8	1613.2	834.7	538.6	444.1	393.1	359.9	344.6	339.5	342.0	339.5
32.5°	2136.4	1638.7	798.9	518.2	413.5	362.5	331.8	314.0	311.4	311.4	308.9
35°	2274.3	1710.2	793.8	507.9	388.0	339.5	308.9	291.0	288.4	288.4	285.9
37.5°	2422.3	1791.9	816.8	502.8	367.6	319.1	291.0	273.1	270.6	270.6	270.6
40°	2547.4	1853.1	842.3	502.8	354.8	301.2	275.7	260.4	260.4	260.4	260.4
42.5°	2631.6	1858.2	837.2	502.8	344.6	288.4	265.5	250.1	250.1	252.7	250.1
45°	2756.7	1883.8	816.8	495.2	336.9	278.2	255.3	242.5	239.9	242.5	242.5
47.5°	2904.8	1929.7	796.4	464.6	334.4	268.0	247.6	232.3	229.7	232.3	229.7
50°	3045.1	1970.5	786.2	423.7	329.3	257.8	237.4	222.1	219.5	222.1	219.5
52.5°	3162.6	1988.4	768.3	395.6	316.5	247.6	227.2	211.9	206.8	209.3	209.3
55°	3257.0	1983.3	742.8	372.7	293.5	237.4	214.4	201.6	194.0	194.0	191.4
57.5°	3343.8	1985.9	719.8	349.7	268.0	222.1	204.2	188.9	178.7	176.1	173.6
60°	3377.0	1973.1	679.0	319.1	242.5	209.3	191.4	173.6	163.4	160.8	158.3
62.5°	3331.0	1927.1	625.4	265.5	219.5	194.0	178.7	160.8	150.6	148.0	145.5
65°	3200.8	1840.4	543.7	209.3	199.1	176.1	163.4	150.6	137.8	132.7	130.2
67.5°	2978.8	1715.3	441.6	168.5	176.1	160.8	153.2	137.8	122.5	117.4	114.9
70°	2662.3	1549.4	331.8	142.9	155.7	142.9	137.8	122.5	109.8	104.7	102.1
72.5°	2218.1	1281.4	232.3	122.5	135.3	125.1	120.0	109.8	97.0	89.3	89.3
75°	1677.0	918.9	153.2	104.7	112.3	107.2	99.5	91.9	84.2	79.1	76.6
77.5°	722.4	357.4	94.4	79.1	91.9	89.3	79.1	74.0	71.5	66.4	66.4
80°	311.4	145.5	58.7	58.7	66.4	63.8	61.3	56.2	56.2	53.6	51.1
82.5°	114.9	58.7	35.7	43.4	48.5	43.4	43.4	43.4	43.4	40.8	40.8
85°	28.1	17.9	17.9	25.5	28.1	25.5	28.1	25.5	25.5	25.5	23.0
87.5°	7.7	7.7	10.2	10.2	10.2	10.2	10.2	7.7	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)