

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: P799368

Luminaire Tested: **ARCH2-110-727-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-727-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

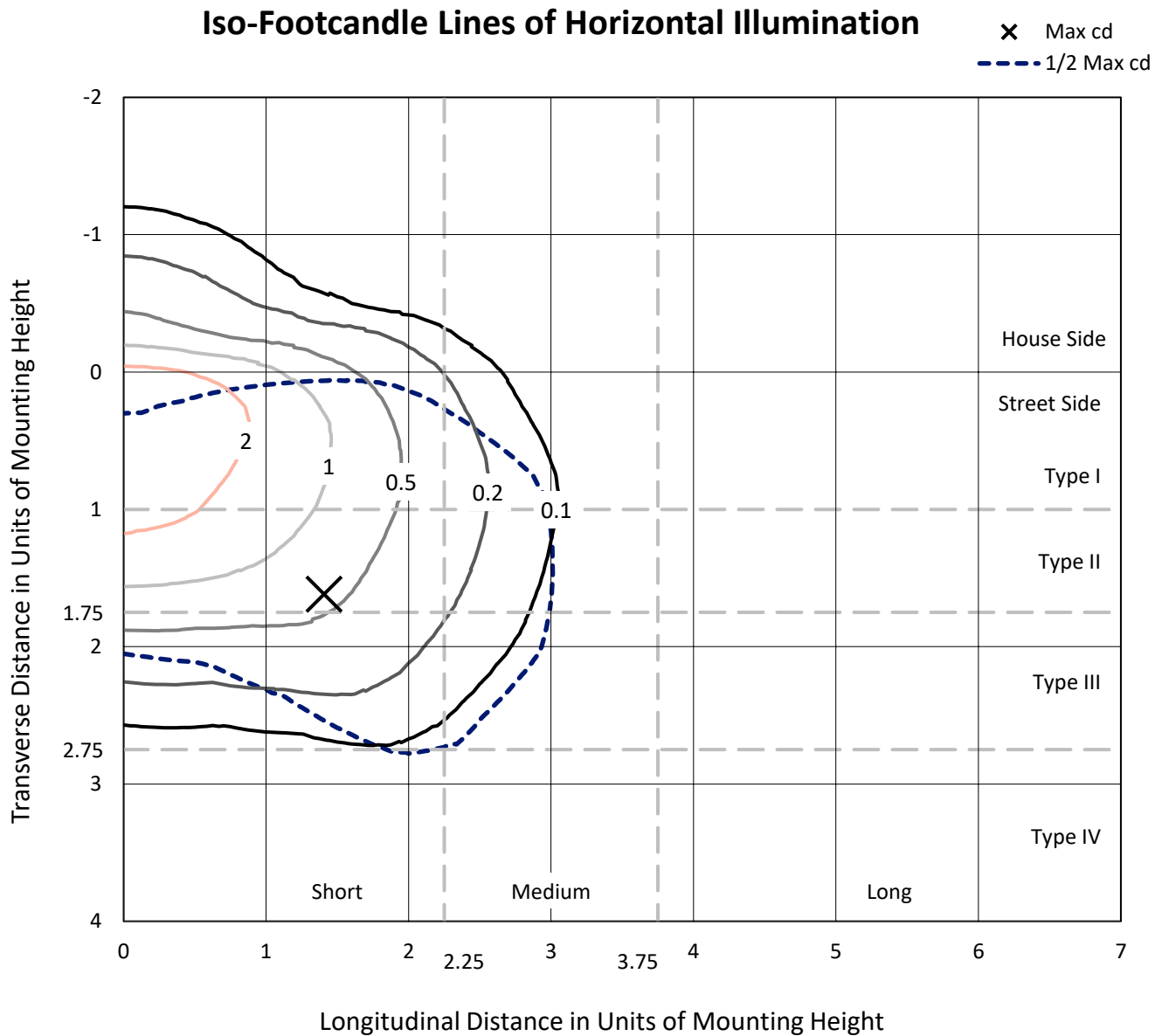
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8746 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 109.5
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



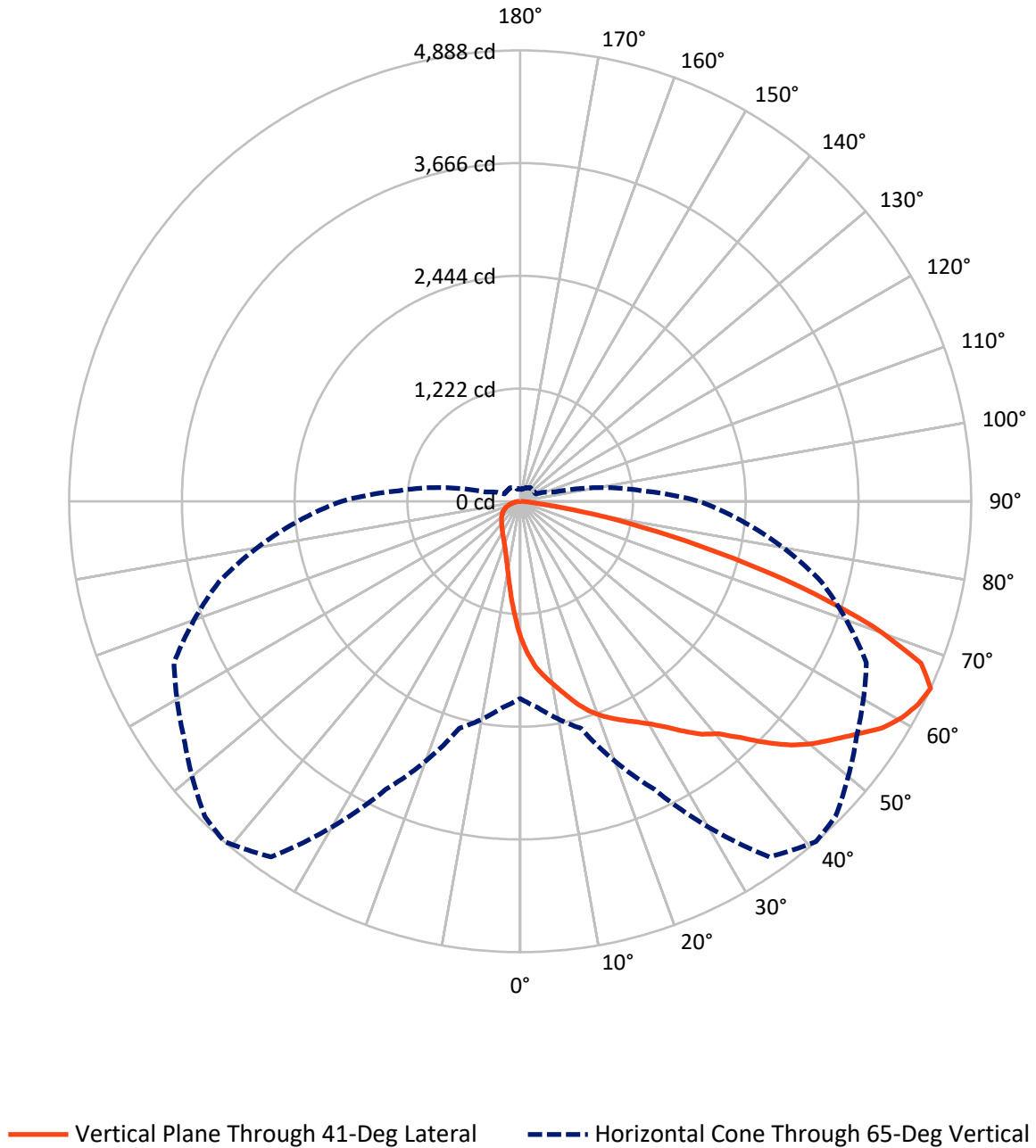
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Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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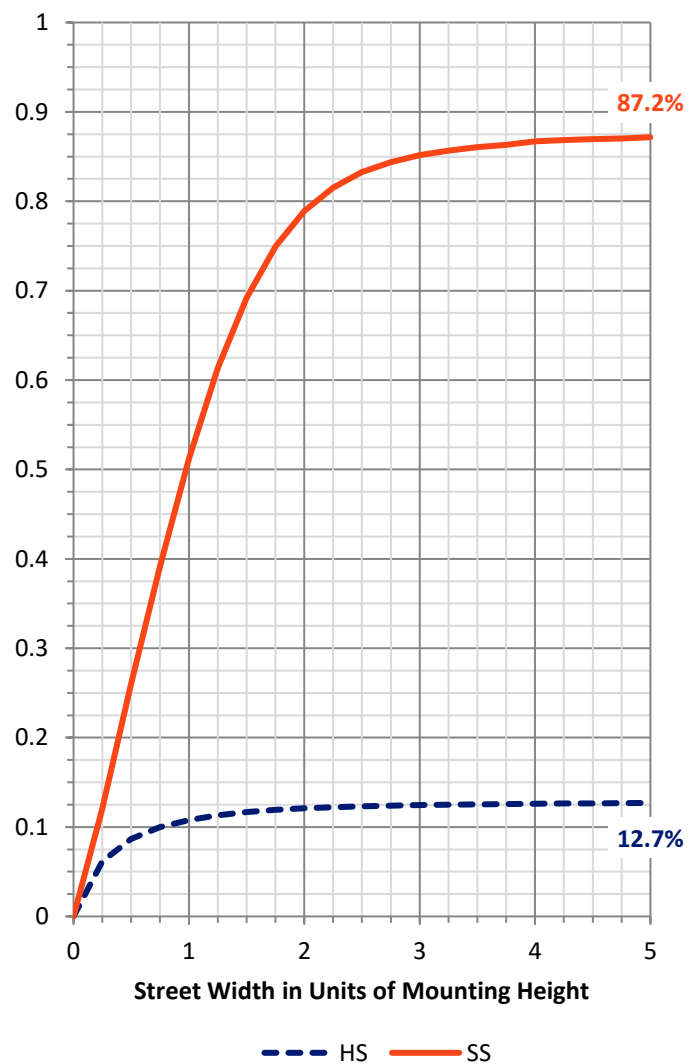
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1122.9	0.0	1122.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	7623.1	0.0	7623.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	8746.0	0.0	8746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	1.6
10°-20°	416.4	4.8
20°-30°	716.3	8.2
30°-40°	1086.4	12.4
40°-50°	1591.6	18.2
50°-60°	2009.8	23.0
60°-70°	1884.6	21.5
70°-80°	839.9	9.6
80°-90°	62.2	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°	8746.0	100.0
0°-180°	8746.0	100.0

Coefficient of Utilization



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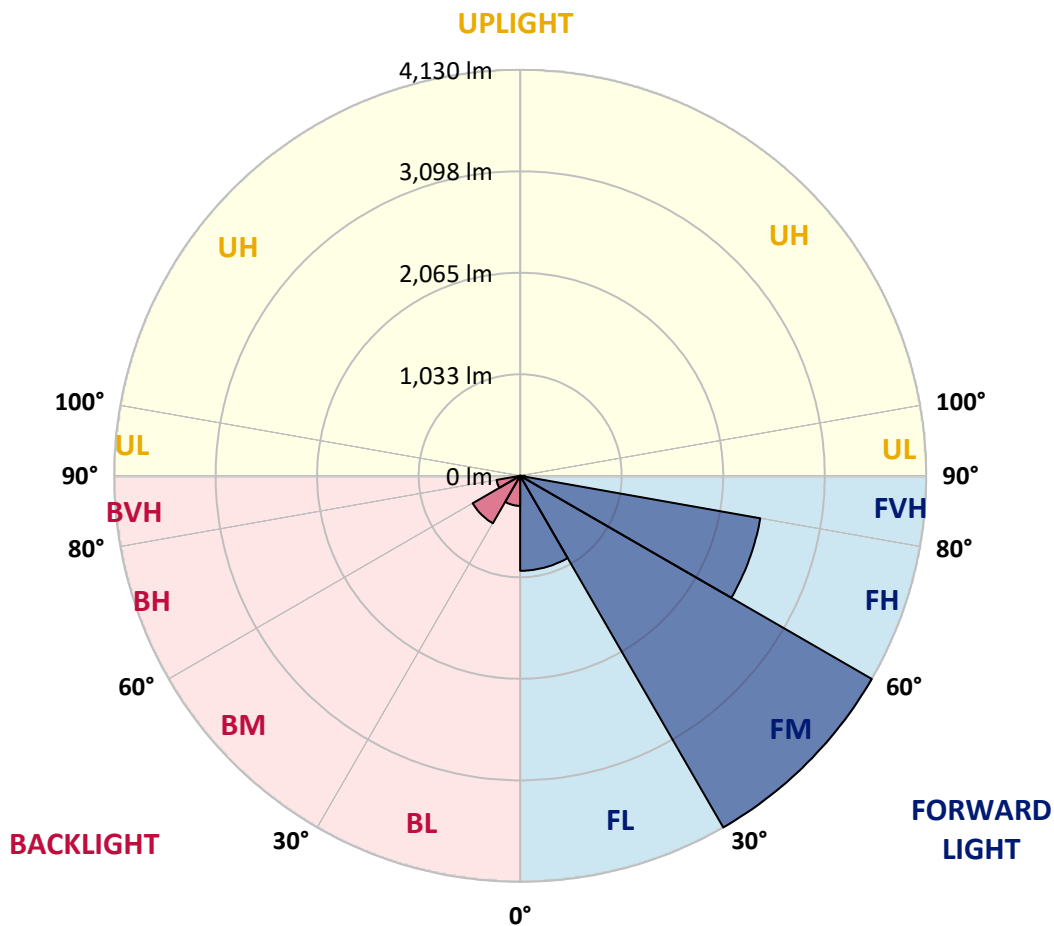
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	965.9	11.0			
FM	(30°-60°)	4130.2	47.2			
FH	(60°-80°)	2480.6	28.4			G2/5000
FVH	(80°-90°)	46.5	0.5			G1/100
BL	(0°-30°)	305.6	3.5	B1/500		
BM	(30°-60°)	557.6	6.4	B1/1000		
BH	(60°-80°)	243.9	2.8	B1/500		G1/500
BVH	(80°-90°)	15.8	0.2			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°	41°	45°	55°	65°	75°	85°
0°	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3
2.5°	1719.0	1713.4	1709.8	1689.5	1689.5	1661.8	1663.6	1637.8	1606.5	1556.7	1503.2
5°	1881.3	1873.9	1864.7	1844.4	1837.0	1809.4	1805.7	1768.8	1715.3	1628.6	1532.7
7.5°	2023.3	2015.9	2003.0	1973.5	1953.2	1920.0	1910.8	1862.8	1803.8	1696.8	1562.2
10°	2152.4	2146.9	2130.3	2093.4	2065.7	2025.1	2008.5	1944.0	1870.2	1752.2	1586.2
12.5°	2283.4	2276.0	2253.9	2222.5	2189.3	2141.3	2121.1	2038.1	1944.0	1813.0	1621.2
15°	2405.1	2394.0	2377.4	2344.2	2314.7	2268.6	2246.5	2148.7	2034.4	1881.3	1667.3
17.5°	2484.4	2475.2	2460.4	2442.0	2418.0	2383.0	2360.8	2264.9	2124.7	1947.7	1715.3
20°	2532.4	2528.7	2523.1	2512.1	2501.0	2477.0	2460.4	2370.0	2222.5	2012.2	1761.4
22.5°	2569.2	2565.6	2563.7	2563.7	2565.6	2556.3	2545.3	2467.8	2316.6	2080.5	1803.8
25°	2626.4	2624.6	2620.9	2617.2	2630.1	2632.0	2628.3	2574.8	2434.6	2170.9	1857.3
27.5°	2705.7	2700.2	2692.8	2689.1	2702.0	2711.3	2718.6	2681.8	2560.0	2263.1	1918.2
30°	2827.5	2810.9	2792.4	2779.5	2788.7	2803.5	2820.1	2798.0	2689.1	2377.4	1980.9
32.5°	2971.3	2951.0	2908.6	2884.6	2908.6	2919.7	2932.6	2921.5	2823.8	2501.0	2043.6
35°	3146.5	3122.6	3078.3	3043.3	3085.7	3061.7	3056.2	3045.1	2951.0	2622.7	2113.7
37.5°	3438.0	3402.9	3332.8	3255.4	3255.4	3203.7	3183.4	3150.2	3065.4	2731.6	2181.9
40°	3775.5	3729.4	3639.0	3524.6	3419.5	3312.5	3299.6	3275.6	3200.0	2857.0	2259.4
42.5°	4146.2	4057.7	3932.3	3793.9	3624.2	3502.5	3473.0	3404.8	3331.0	2984.2	2336.9
45°	4557.5	4373.1	4190.5	4120.4	3840.0	3729.4	3674.0	3550.5	3467.5	3117.0	2418.0
47.5°	4623.9	4480.0	4358.3	4347.2	4041.1	3948.9	3886.1	3709.1	3615.0	3259.0	2502.8
50°	4587.0	4500.3	4513.2	4469.0	4188.6	4127.8	4079.8	3878.8	3760.7	3395.5	2580.3
52.5°	4432.1	4480.0	4553.8	4472.7	4328.8	4279.0	4255.0	4061.4	3897.2	3521.0	2650.4
55°	4247.6	4280.8	4439.5	4539.1	4491.1	4446.8	4424.7	4273.5	4031.9	3626.1	2715.0
57.5°	3978.4	3963.6	4138.8	4528.0	4660.8	4635.0	4611.0	4481.9	4157.3	3701.7	2755.5
60°	3574.4	3543.1	3764.4	4306.7	4716.1	4756.7	4745.6	4620.2	4253.2	3699.9	2738.9
62.5°	2875.4	2952.9	3259.0	3945.2	4740.1	4843.4	4823.1	4631.3	4284.5	3592.9	2633.8
65°	2137.7	2248.3	2549.0	3447.2	4706.9	4887.7	4832.3	4450.5	4138.8	3380.8	2403.2
67.5°	1540.1	1637.8	1857.3	2836.7	4387.8	4684.8	4620.2	4155.4	3803.1	3080.1	2084.2
70°	1053.2	1123.2	1272.6	2065.7	3746.0	4050.3	4009.7	3714.6	3273.8	2722.3	1693.2
72.5°	743.3	772.8	868.7	1363.0	2845.9	3177.9	3129.9	3056.2	2630.1	2263.1	1316.9
75°	557.0	575.5	627.1	881.6	1920.0	2202.2	2157.9	2200.4	1964.3	1713.4	959.1
77.5°	210.3	228.7	356.0	562.5	1136.1	1351.9	1307.7	1333.5	1091.9	865.0	477.7
80°	57.2	60.9	118.0	267.4	516.4	673.2	612.3	525.7	405.8	398.4	252.7
82.5°	24.0	27.7	53.5	143.9	184.4	184.4	154.9	191.8	154.9	186.3	121.7
85°	9.2	11.1	12.9	36.9	24.0	25.8	27.7	36.9	31.4	38.7	27.7
87.5°	0.0	0.0	0.0	1.8	1.8	3.7	1.8	3.7	5.5	5.5	5.5
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°	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3
2.5°	1481.1	1460.8	1431.3	1383.3	1333.5	1305.8	1270.8	1265.3	1228.4	1224.7	1209.9
5°	1490.3	1447.9	1372.2	1280.0	1189.6	1119.5	1067.9	1040.2	986.8	986.8	972.0
7.5°	1497.7	1431.3	1309.5	1173.0	1049.5	955.4	885.3	855.8	807.8	804.2	793.1
10°	1499.5	1411.0	1241.3	1064.2	913.0	817.1	748.8	715.6	673.2	669.5	662.1
12.5°	1514.2	1399.9	1180.4	970.2	815.2	711.9	645.5	617.9	584.7	581.0	573.6
15°	1538.2	1399.9	1128.8	890.8	728.5	632.6	575.5	549.6	525.7	522.0	518.3
17.5°	1562.2	1396.2	1077.1	817.1	656.6	569.9	520.1	499.8	481.4	479.5	475.9
20°	1584.3	1394.4	1025.5	754.4	601.3	518.3	479.5	461.1	446.3	446.3	444.5
22.5°	1606.5	1390.7	975.7	695.3	553.3	479.5	446.3	426.1	415.0	415.0	413.1
25°	1639.7	1390.7	929.6	645.5	514.6	450.0	416.8	402.1	392.9	391.0	391.0
27.5°	1678.4	1401.7	889.0	601.3	481.4	420.5	394.7	379.9	368.9	365.2	367.0
30°	1720.8	1411.0	852.1	562.5	450.0	398.4	370.7	356.0	344.9	341.2	343.1
32.5°	1763.2	1422.0	818.9	527.5	418.7	378.1	350.4	333.8	322.8	320.9	320.9
35°	1809.4	1433.1	785.7	498.0	392.9	357.8	332.0	313.5	306.2	302.5	304.3
37.5°	1855.5	1451.5	754.4	470.3	374.4	339.4	315.4	296.9	291.4	289.6	289.6
40°	1910.8	1479.2	741.4	451.9	357.8	322.8	302.5	284.0	278.5	278.5	278.5
42.5°	1956.9	1501.3	730.4	431.6	344.9	308.0	289.6	274.8	271.1	269.3	271.1
45°	2003.0	1521.6	715.6	413.1	328.3	293.3	278.5	263.7	260.1	260.1	260.1
47.5°	2049.1	1532.7	695.3	394.7	313.5	280.3	267.4	254.5	250.8	250.8	250.8
50°	2086.0	1541.9	665.8	374.4	296.9	269.3	256.4	243.5	239.8	239.8	239.8
52.5°	2122.9	1543.8	634.5	350.4	280.3	256.4	245.3	232.4	228.7	226.9	226.9
55°	2156.1	1541.9	597.6	322.8	261.9	241.6	232.4	221.3	214.0	206.6	210.3
57.5°	2180.1	1540.1	555.2	295.1	243.5	226.9	223.2	208.4	193.7	175.2	178.9
60°	2170.9	1519.8	509.1	260.1	223.2	212.1	212.1	191.8	166.0	156.8	158.6
62.5°	2111.8	1462.6	461.1	223.2	202.9	197.4	195.5	173.4	153.1	143.9	145.7
65°	1934.8	1318.7	391.0	190.0	182.6	180.8	180.8	160.5	142.0	131.0	132.8
67.5°	1665.5	1106.6	319.1	160.5	162.3	166.0	166.0	147.6	129.1	118.0	119.9
70°	1335.3	865.0	254.5	138.3	140.2	145.7	149.4	132.8	116.2	105.1	105.1
72.5°	1005.2	656.6	204.7	116.2	125.4	125.4	131.0	118.0	101.4	90.4	92.2
75°	728.5	470.3	162.3	97.8	108.8	107.0	107.0	99.6	86.7	79.3	79.3
77.5°	344.9	247.1	129.1	70.1	84.8	83.0	84.8	79.3	73.8	66.4	68.2
80°	169.7	121.7	83.0	49.8	59.0	60.9	66.4	62.7	60.9	55.3	55.3
82.5°	81.2	48.0	38.7	35.0	40.6	42.4	46.1	46.1	48.0	44.3	44.3
85°	22.1	12.9	16.6	22.1	25.8	27.7	31.4	33.2	33.2	31.4	33.2
87.5°	5.5	5.5	7.4	11.1	12.9	14.8	16.6	16.6	7.4	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)