

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: P842517

Luminaire Tested: **ARCH4-60-722-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842517
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: ARCH4-60-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 520mA 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: 6570 lumens
Efficiency: N/A
Efficacy: 104.3 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): 63
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

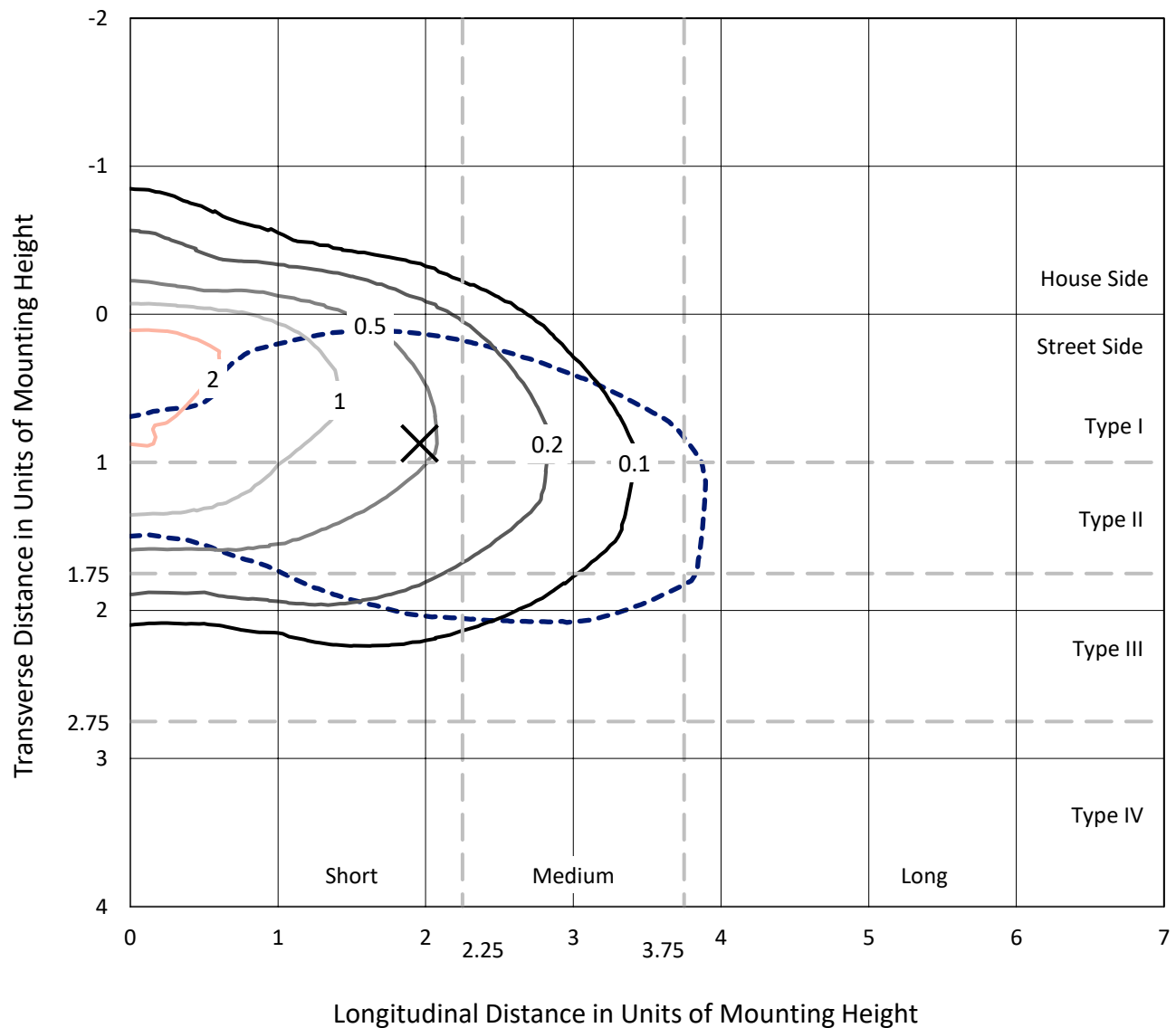


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

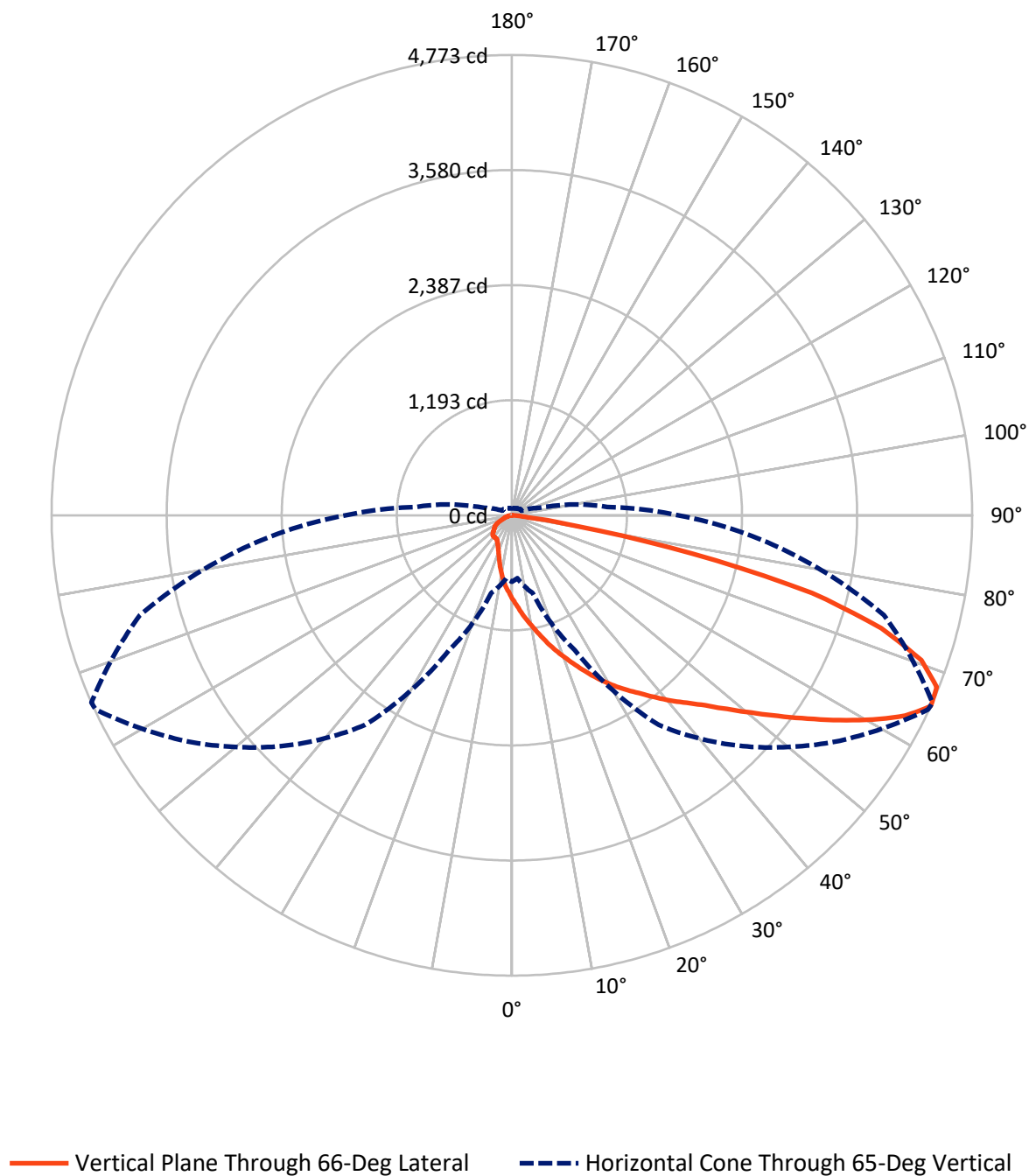


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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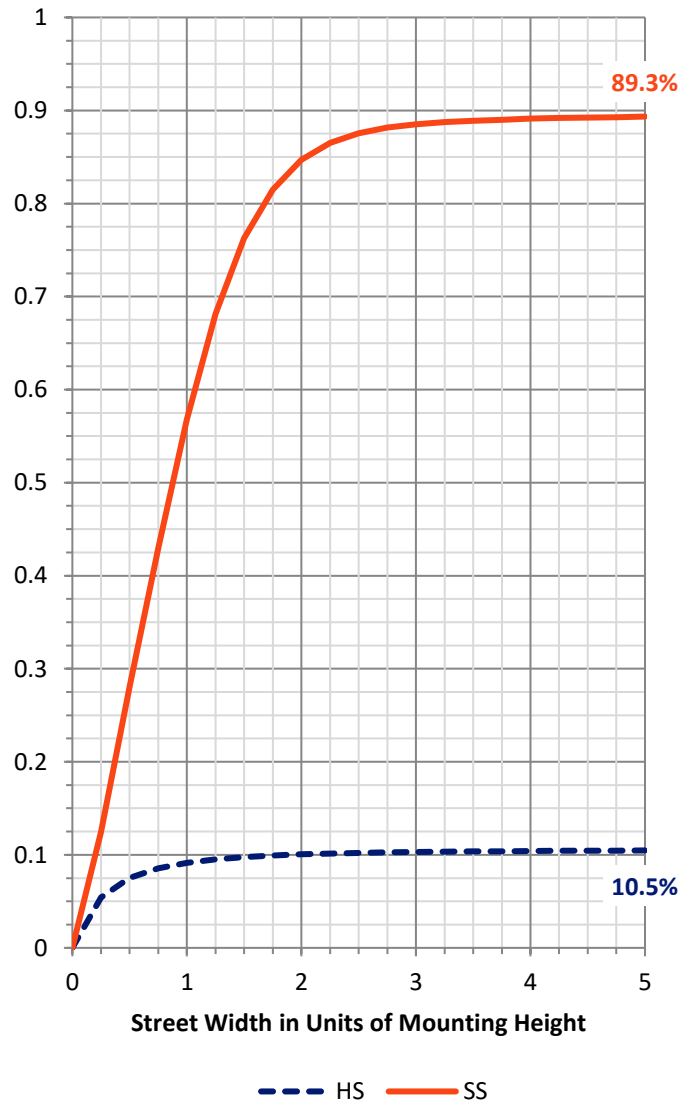
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	694.9	0.0	694.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	5875.1	0.0	5875.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	6570.0	0.0	6570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	1.3
10°-20°	279.7	4.3
20°-30°	506.1	7.7
30°-40°	791.4	12.0
40°-50°	1200.5	18.3
50°-60°	1525.3	23.2
60°-70°	1425.2	21.7
70°-80°	708.3	10.8
80°-90°	47.6	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°	6570.0	100.0
0°-180°	6570.0	100.0

Coefficient of Utilization



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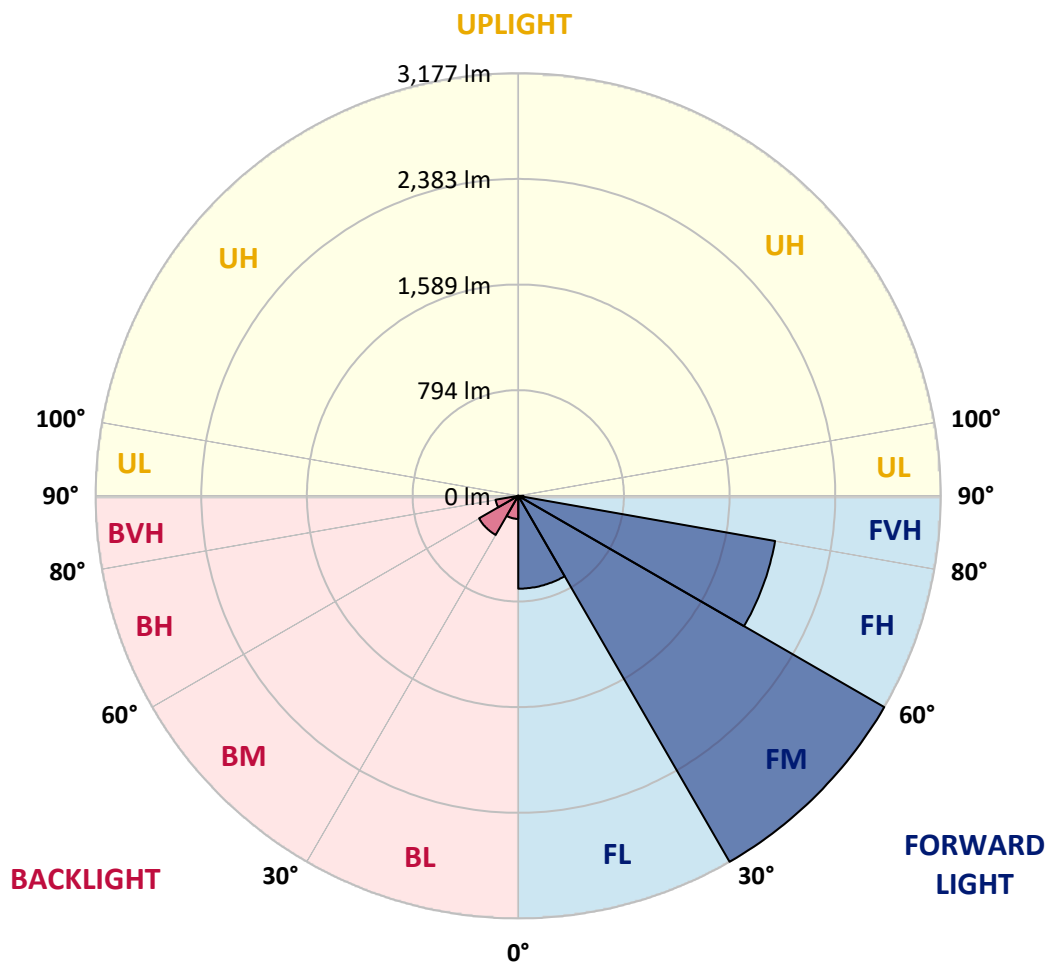
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	698.1	10.6			
FM	(30°-60°)	3177.3	48.4			
FH	(60°-80°)	1960.5	29.8			G2/5000
FVH	(80°-90°)	39.2	0.6			G1/100
BL	(0°-30°)	173.6	2.6	B1/500		
BM	(30°-60°)	339.9	5.2	B1/1000		
BH	(60°-80°)	173.1	2.6	B1/500		G1/500
BVH	(80°-90°)	8.4	0.1			G0/10
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°	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5
2.5°	1015.6	1023.8	1028.0	1029.3	997.7	983.9	970.1	938.4	931.5	913.6	890.2
5°	1194.7	1205.7	1203.0	1197.5	1158.9	1114.8	1079.0	1019.7	1010.1	967.3	915.0
7.5°	1371.1	1380.7	1378.0	1357.3	1314.6	1252.6	1193.3	1106.5	1092.7	1023.8	939.8
10°	1518.5	1526.8	1525.4	1504.8	1453.8	1378.0	1306.3	1190.6	1174.0	1076.2	960.4
12.5°	1639.8	1650.8	1649.4	1635.7	1590.2	1507.5	1426.2	1287.0	1266.4	1139.6	989.4
15°	1734.9	1748.7	1748.7	1743.1	1711.4	1642.5	1550.2	1393.1	1368.3	1212.6	1025.2
17.5°	1792.7	1803.8	1813.4	1823.1	1801.0	1748.7	1664.6	1499.2	1473.1	1284.3	1062.4
20°	1823.1	1834.1	1841.0	1861.6	1865.8	1839.6	1773.5	1604.0	1576.4	1365.6	1105.1
22.5°	1872.7	1882.3	1883.7	1901.6	1909.9	1916.8	1875.4	1707.3	1685.3	1455.1	1153.4
25°	1955.3	1966.4	1962.2	1970.5	1971.9	1980.2	1976.0	1825.8	1803.8	1557.1	1211.2
27.5°	2061.5	2075.2	2072.5	2064.2	2051.8	2044.9	2062.8	1945.7	1925.0	1659.1	1270.5
30°	2175.8	2192.4	2188.2	2171.7	2138.6	2109.7	2134.5	2058.7	2039.4	1763.8	1336.6
32.5°	2291.6	2310.9	2309.5	2281.9	2225.4	2175.8	2213.0	2164.8	2151.0	1876.8	1408.3
35°	2367.4	2392.2	2389.4	2372.9	2299.8	2257.1	2302.6	2273.7	2264.0	2014.6	1511.6
37.5°	2490.0	2516.2	2492.8	2451.4	2367.4	2345.3	2400.4	2396.3	2389.4	2160.7	1620.5
40°	2787.6	2826.2	2764.2	2594.7	2456.9	2437.6	2516.2	2532.7	2525.8	2305.4	1718.3
42.5°	3099.1	3156.9	3060.5	2826.2	2619.5	2549.3	2643.0	2666.4	2658.1	2429.4	1806.5
45°	3287.9	3312.7	3216.2	3034.3	2907.5	2684.3	2778.0	2816.6	2809.7	2578.2	1919.5
47.5°	3442.2	3432.5	3322.3	3199.7	3223.1	2874.5	2931.0	3006.7	3001.2	2742.2	2043.5
50°	3475.3	3453.2	3409.1	3331.9	3394.0	3067.4	3092.2	3223.1	3217.6	2924.1	2168.9
52.5°	3242.4	3213.4	3333.3	3398.1	3377.4	3207.9	3269.9	3460.1	3457.3	3121.1	2288.8
55°	2660.9	2637.4	2959.9	3294.7	3359.5	3307.1	3467.0	3706.8	3721.9	3330.6	2397.7
57.5°	2093.1	2068.3	2385.3	3035.7	3293.4	3398.1	3697.1	3989.2	4008.5	3557.9	2501.0
60°	1668.7	1631.5	1874.0	2627.8	3169.3	3468.4	3919.0	4299.3	4302.0	3766.0	2564.4
62.5°	1134.1	1092.7	1361.4	2111.1	2961.3	3479.4	4089.8	4566.6	4577.6	3921.7	2575.4
65°	689.0	654.5	836.4	1542.0	2654.0	3385.7	4092.6	4763.7	4773.3	3993.4	2509.3
67.5°	399.6	385.8	478.2	960.4	2144.1	3133.5	3920.3	4733.4	4751.3	3963.1	2359.1
70°	232.9	231.5	265.9	475.4	1513.0	2633.3	3535.9	4478.4	4504.6	3804.6	2129.0
72.5°	170.9	173.6	187.4	254.9	876.4	1896.1	2994.3	3965.8	4005.8	3494.5	1801.0
75°	135.0	136.4	148.8	173.6	460.2	1072.1	2243.3	3183.1	3214.8	2942.0	1406.9
77.5°	100.6	103.3	113.0	122.6	213.6	491.9	1262.2	1960.9	1908.5	1615.0	679.3
80°	73.0	79.9	84.1	88.2	113.0	190.2	378.9	683.5	678.0	705.5	321.1
82.5°	46.9	52.4	56.5	59.3	67.5	90.9	113.0	153.0	165.4	274.2	128.2
85°	20.7	23.4	26.2	31.7	28.9	31.7	46.9	30.3	26.2	41.3	23.4
87.5°	0.0	0.0	4.1	6.9	5.5	2.8	8.3	5.5	4.1	4.1	4.1
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°	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5
2.5°	877.8	862.6	830.9	800.6	782.7	759.3	738.6	719.3	717.9	712.4	702.8
5°	888.8	859.9	800.6	744.1	701.4	655.9	617.3	587.0	576.0	567.7	556.7
7.5°	899.8	854.3	766.2	683.5	616.0	552.6	507.1	465.8	453.4	442.3	435.4
10°	904.0	844.7	726.2	616.0	527.8	460.2	412.0	381.7	370.7	365.2	361.0
12.5°	916.4	839.2	689.0	552.6	450.6	388.6	354.1	336.2	332.1	328.0	323.8
15°	932.9	839.2	651.8	490.6	390.0	340.4	319.7	307.3	304.5	303.2	300.4
17.5°	950.8	839.2	616.0	438.2	345.9	308.7	293.5	286.6	285.2	283.9	282.5
20°	975.6	840.6	577.4	392.7	314.2	285.2	272.8	264.6	263.2	261.8	261.8
22.5°	1000.4	843.3	540.2	358.3	293.5	267.3	252.2	243.9	241.1	241.1	241.1
25°	1032.1	851.6	505.7	329.3	275.6	250.8	231.5	224.6	223.2	223.2	221.9
27.5°	1069.3	861.2	475.4	307.3	257.7	231.5	212.2	205.3	202.6	202.6	201.2
30°	1109.3	870.9	450.6	290.8	239.8	212.2	194.3	186.0	183.3	184.6	183.3
32.5°	1153.4	884.7	431.3	279.7	223.2	195.7	179.1	169.5	168.1	168.1	166.7
35°	1227.8	923.2	428.6	274.2	209.5	183.3	166.7	157.1	155.7	155.7	154.3
37.5°	1307.7	967.3	441.0	271.5	198.4	172.2	157.1	147.4	146.1	146.1	146.1
40°	1375.2	1000.4	454.7	271.5	191.5	162.6	148.8	140.6	140.6	140.6	140.6
42.5°	1420.7	1003.2	452.0	271.5	186.0	155.7	143.3	135.0	135.0	136.4	135.0
45°	1488.2	1016.9	441.0	267.3	181.9	150.2	137.8	130.9	129.5	130.9	130.9
47.5°	1568.1	1041.8	429.9	250.8	180.5	144.7	133.7	125.4	124.0	125.4	124.0
50°	1643.9	1063.8	424.4	228.7	177.8	139.2	128.2	119.9	118.5	119.9	118.5
52.5°	1707.3	1073.4	414.8	213.6	170.9	133.7	122.6	114.4	111.6	113.0	113.0
55°	1758.3	1070.7	401.0	201.2	158.5	128.2	115.8	108.9	104.7	104.7	103.3
57.5°	1805.1	1072.1	388.6	188.8	144.7	119.9	110.2	102.0	96.5	95.1	93.7
60°	1823.1	1065.2	366.5	172.2	130.9	113.0	103.3	93.7	88.2	86.8	85.4
62.5°	1798.3	1040.4	337.6	143.3	118.5	104.7	96.5	86.8	81.3	79.9	78.5
65°	1728.0	993.5	293.5	113.0	107.5	95.1	88.2	81.3	74.4	71.7	70.3
67.5°	1608.1	926.0	238.4	90.9	95.1	86.8	82.7	74.4	66.1	63.4	62.0
70°	1437.2	836.4	179.1	77.2	84.1	77.2	74.4	66.1	59.3	56.5	55.1
72.5°	1197.5	691.7	125.4	66.1	73.0	67.5	64.8	59.3	52.4	48.2	48.2
75°	905.3	496.1	82.7	56.5	60.6	57.9	53.7	49.6	45.5	42.7	41.3
77.5°	390.0	192.9	51.0	42.7	49.6	48.2	42.7	40.0	38.6	35.8	35.8
80°	168.1	78.5	31.7	31.7	35.8	34.4	33.1	30.3	30.3	28.9	27.6
82.5°	62.0	31.7	19.3	23.4	26.2	23.4	23.4	23.4	23.4	22.0	22.0
85°	15.2	9.6	9.6	13.8	15.2	13.8	15.2	13.8	13.8	13.8	12.4
87.5°	4.1	4.1	5.5	5.5	5.5	5.5	5.5	4.1	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)