

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: P842524

Luminaire Tested: **ARCH4-60-727-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-60-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7476 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

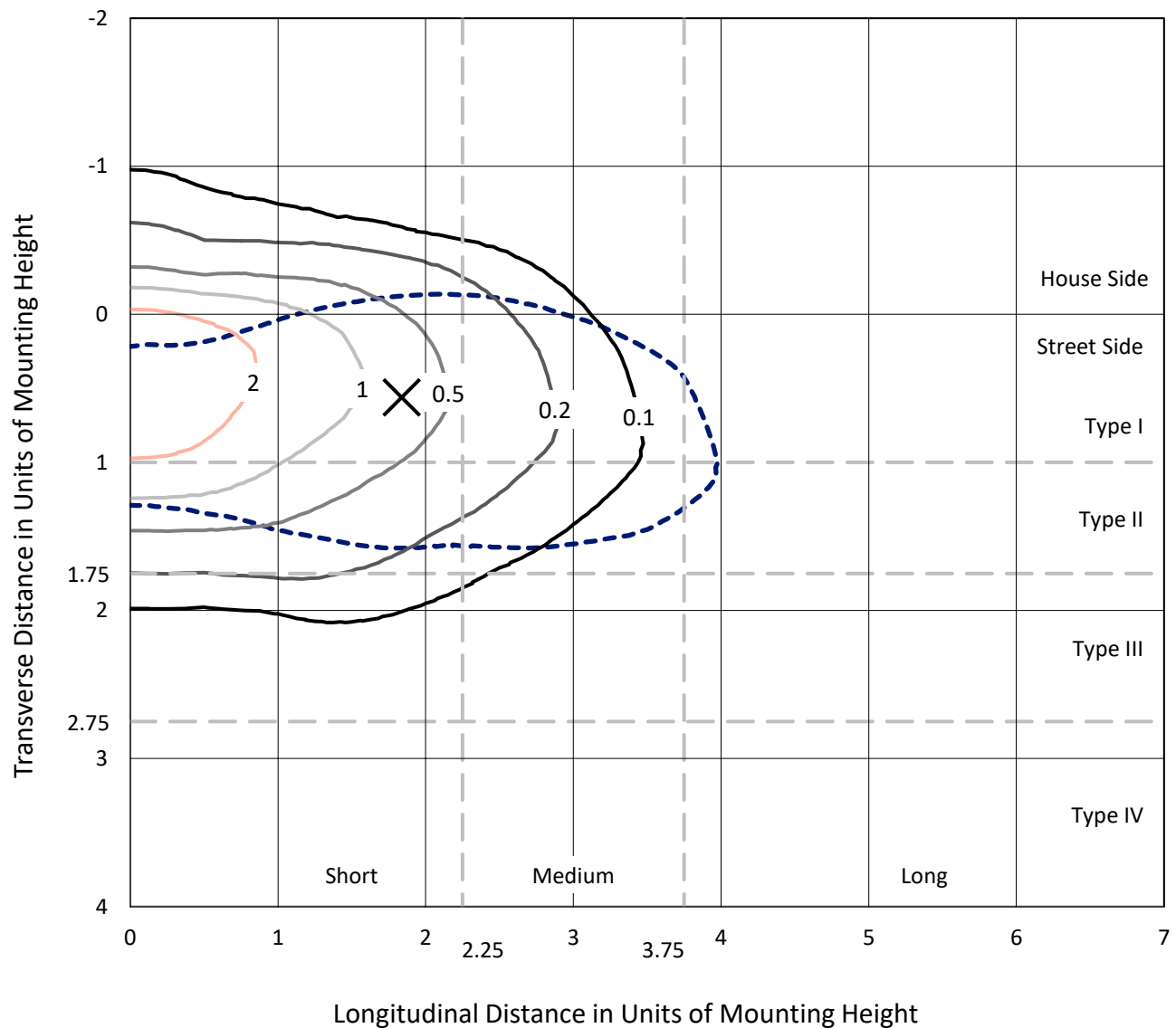


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Iso-Footcandle Lines of Horizontal Illumination

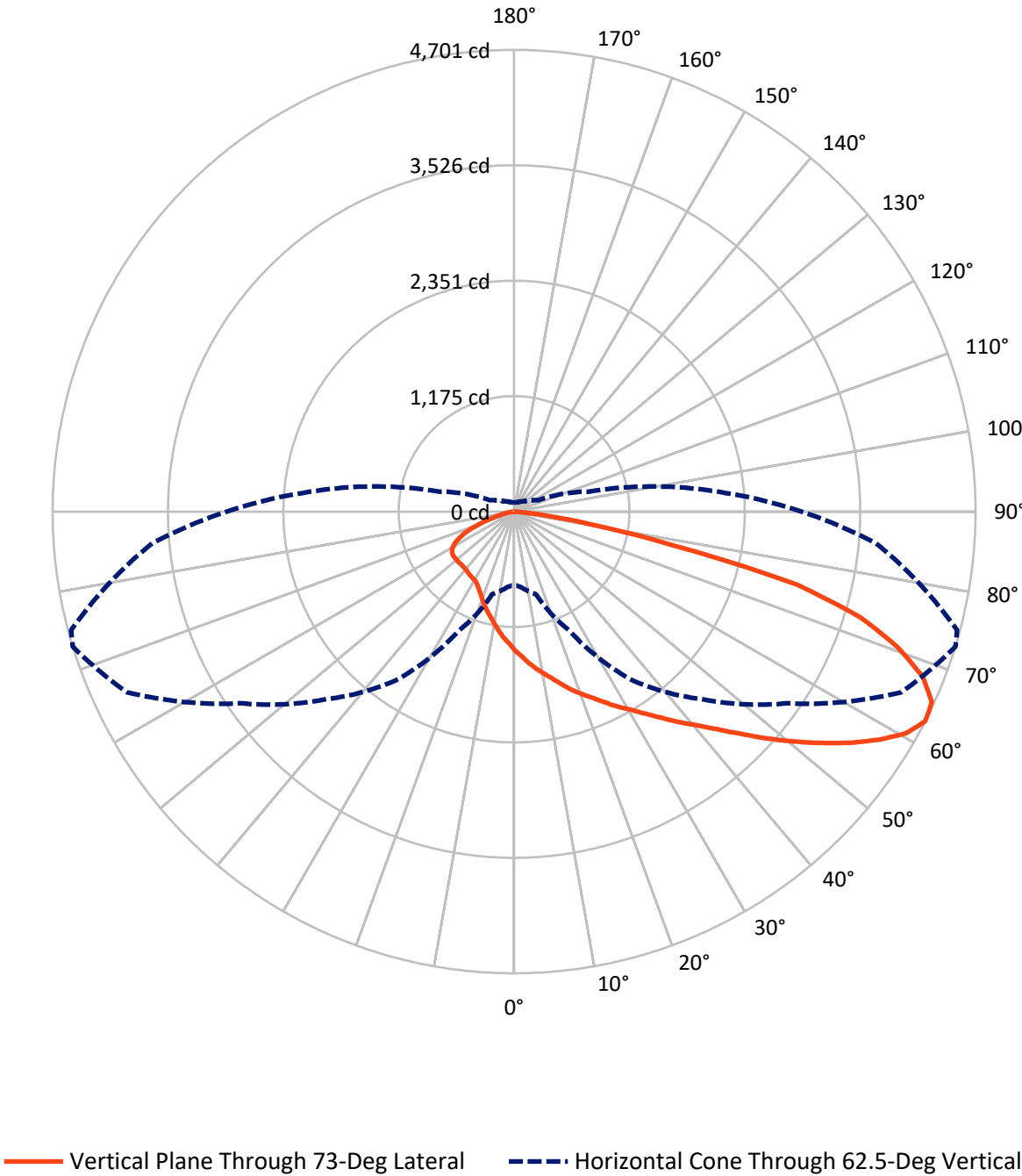
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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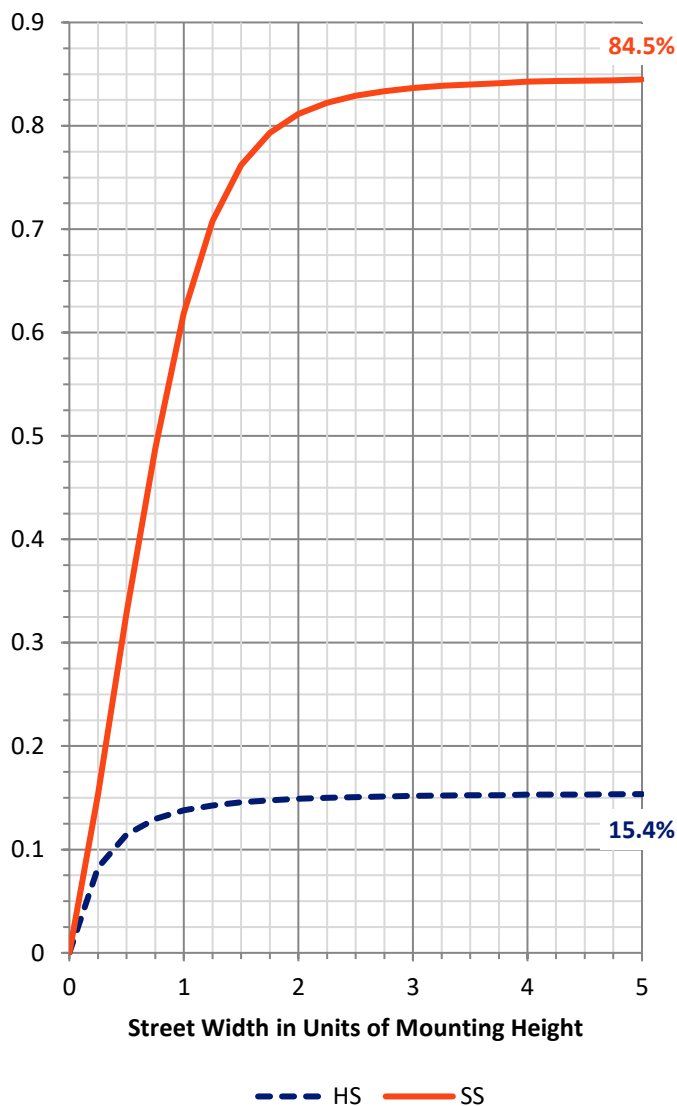
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1158.9	0.0	1158.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	6317.1	0.0	6317.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	7476.0	0.0	7476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	1.8
10°-20°	412.7	5.5
20°-30°	686.9	9.2
30°-40°	1036.4	13.9
40°-50°	1448.6	19.4
50°-60°	1600.1	21.4
60°-70°	1393.9	18.6
70°-80°	704.1	9.4
80°-90°	56.5	0.8
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°	7476.0	100.0
0°-180°	7476.0	100.0

Coefficient of Utilization



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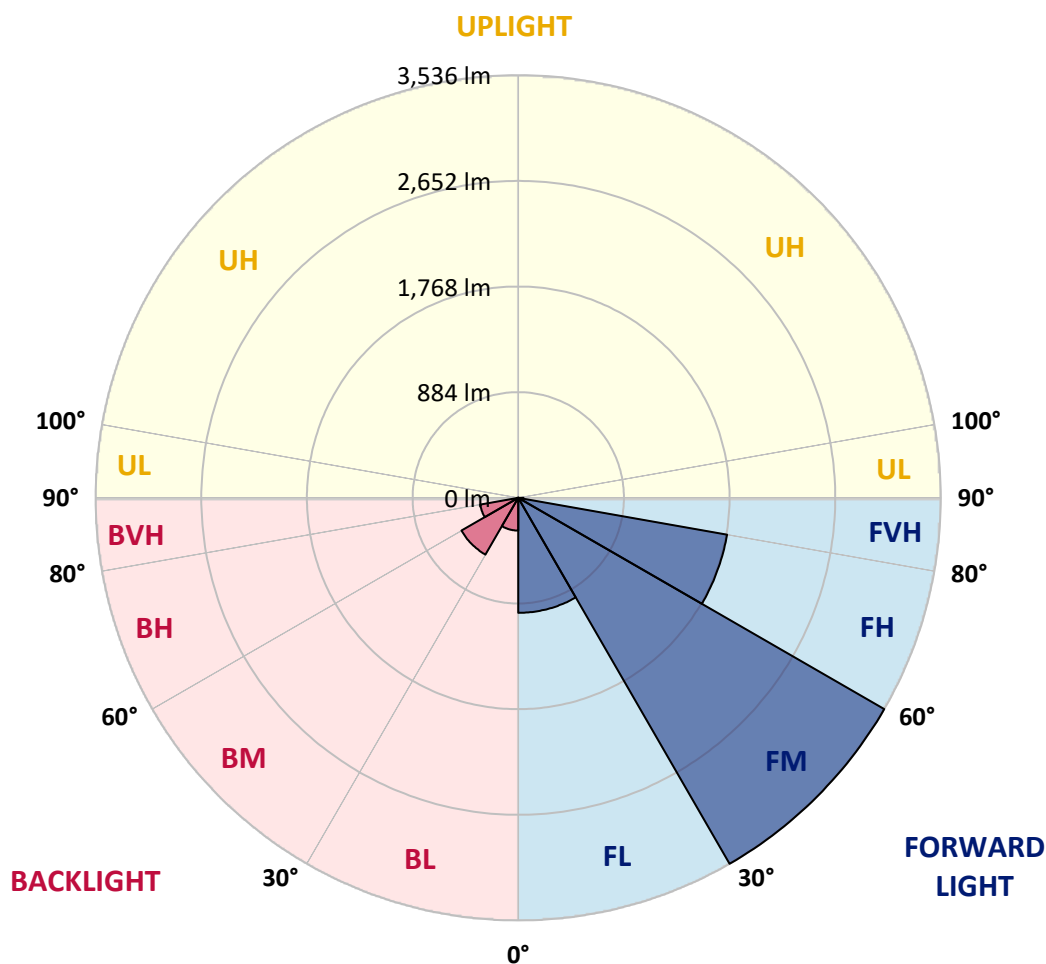
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	962.4	12.9			
FM	(30°-60°)	3536.4	47.3			
FH	(60°-80°)	1774.6	23.7			G1/1800
FVH	(80°-90°)	43.7	0.6			G1/100
BL	(0°-30°)	273.9	3.7	B1/500		
BM	(30°-60°)	548.7	7.3	B1/1000		
BH	(60°-80°)	323.5	4.3	B1/500		G1/500
BVH	(80°-90°)	12.8	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1415.6	1415.6	1415.6	1415.6	1415.6	1415.6	1415.6	1415.6	1415.6	1415.6	1415.6
2.5°	1611.1	1629.0	1619.2	1625.7	1593.2	1572.0	1547.5	1500.3	1474.2	1471.0	1440.0
5°	1847.3	1866.8	1850.5	1845.7	1788.6	1739.8	1684.4	1601.3	1545.9	1536.1	1467.7
7.5°	2083.5	2101.4	2081.9	2067.2	1990.6	1904.3	1822.8	1700.7	1614.3	1598.0	1490.5
10°	2249.6	2265.9	2251.3	2236.6	2156.8	2068.8	1953.2	1793.5	1676.2	1650.2	1505.2
12.5°	2375.1	2384.8	2378.3	2365.3	2290.4	2195.9	2085.1	1897.8	1746.3	1713.7	1528.0
15°	2477.7	2494.0	2485.8	2476.1	2404.4	2309.9	2204.0	2006.9	1827.7	1787.0	1562.2
17.5°	2546.1	2557.5	2559.2	2559.2	2495.6	2402.8	2300.1	2106.3	1909.2	1857.1	1594.8
20°	2577.1	2590.1	2598.2	2611.3	2559.2	2479.3	2375.1	2191.0	1985.7	1927.1	1625.7
22.5°	2591.7	2603.1	2624.3	2653.6	2611.3	2544.5	2448.4	2269.2	2062.3	2000.4	1661.6
25°	2603.1	2617.8	2648.7	2704.1	2674.8	2617.8	2534.7	2358.8	2153.5	2090.0	1713.7
27.5°	2634.1	2652.0	2681.3	2748.1	2712.3	2684.6	2625.9	2454.9	2249.6	2184.5	1777.2
30°	2741.6	2756.3	2754.6	2797.0	2753.0	2744.9	2704.1	2547.7	2342.5	2277.3	1852.2
32.5°	2937.1	2951.7	2915.9	2899.6	2803.5	2805.1	2788.8	2647.1	2453.3	2386.5	1938.5
35°	3147.2	3163.5	3116.3	3088.6	2927.3	2880.1	2888.2	2770.9	2577.1	2510.3	2046.0
37.5°	3334.6	3354.1	3313.4	3272.7	3109.8	3000.6	2999.0	2909.4	2718.8	2650.4	2164.9
40°	3437.2	3460.0	3484.4	3461.6	3290.6	3170.0	3117.9	3051.1	2858.9	2788.8	2293.6
42.5°	3486.0	3549.6	3593.6	3578.9	3438.8	3316.6	3254.7	3199.3	3029.9	2961.5	2446.8
45°	3349.2	3350.8	3443.7	3523.5	3497.5	3416.0	3404.6	3365.5	3225.4	3160.2	2619.4
47.5°	3178.2	3165.1	3230.3	3372.0	3445.3	3466.5	3533.3	3549.6	3448.6	3383.4	2795.4
50°	2767.7	2775.8	2987.6	3191.2	3334.6	3471.4	3624.5	3738.5	3678.3	3616.4	2981.1
52.5°	2251.3	2270.8	2513.5	2961.5	3187.9	3422.5	3678.3	3927.5	3912.8	3854.2	3166.8
55°	1804.9	1835.9	2093.3	2578.7	3000.6	3313.4	3701.1	4100.2	4155.6	4101.8	3349.2
57.5°	1379.8	1412.3	1629.0	2127.5	2761.1	3135.8	3684.8	4251.7	4382.0	4347.8	3517.0
60°	1039.3	1071.9	1210.3	1725.1	2461.4	2937.1	3603.3	4351.0	4585.6	4549.8	3639.2
62.5°	744.5	770.5	873.1	1342.3	2096.5	2700.9	3403.0	4352.7	4701.3	4672.0	3697.8
65°	535.9	535.9	619.0	957.8	1754.4	2417.4	3100.0	4152.3	4676.8	4668.7	3657.1
67.5°	386.1	389.3	456.1	669.5	1399.3	2073.7	2707.4	3795.6	4487.9	4528.6	3510.5
70°	273.7	281.8	312.8	467.5	1057.2	1637.1	2287.1	3328.0	4147.4	4219.1	3227.0
72.5°	211.8	216.7	237.8	325.8	772.1	1216.9	1822.8	2806.8	3692.9	3774.4	2841.0
75°	162.9	167.8	184.1	239.5	553.9	853.6	1295.1	2178.0	2977.8	3122.8	2282.2
77.5°	118.9	125.4	136.8	174.3	322.5	542.5	785.2	1225.0	1643.7	1712.1	1195.7
80°	55.4	63.5	79.8	112.4	174.3	255.8	278.6	472.4	790.1	825.9	648.3
82.5°	31.0	39.1	45.6	68.4	88.0	91.2	94.5	118.9	298.1	329.1	272.0
85°	14.7	19.5	21.2	29.3	29.3	26.1	31.0	22.8	48.9	58.6	57.0
87.5°	0.0	1.6	3.3	8.1	6.5	4.9	4.9	4.9	4.9	6.5	4.9
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°	1415.6	1415.6	1415.6	1415.6	1415.6	1415.6	1415.6	1415.6	1415.6	1415.6	1415.6
2.5°	1425.4	1404.2	1355.3	1313.0	1285.3	1260.8	1228.3	1213.6	1187.5	1192.4	1177.8
5°	1433.5	1394.4	1308.1	1228.3	1169.6	1117.5	1060.5	1027.9	992.1	988.8	977.4
7.5°	1438.4	1378.1	1254.3	1141.9	1052.3	972.5	895.9	853.6	809.6	799.8	790.1
10°	1433.5	1353.7	1198.9	1052.3	933.4	834.0	747.7	694.0	648.3	636.9	627.2
12.5°	1438.4	1340.7	1146.8	969.3	827.5	715.1	617.4	562.0	519.6	508.2	501.7
15°	1449.8	1332.5	1102.8	894.3	733.0	607.6	511.5	464.3	430.1	418.7	415.4
17.5°	1459.6	1324.4	1055.6	821.0	638.6	513.1	430.1	391.0	361.6	350.2	347.0
20°	1472.6	1313.0	1008.3	751.0	555.5	438.2	364.9	330.7	307.9	299.7	298.1
22.5°	1484.0	1304.8	964.4	680.9	478.9	377.9	316.0	288.3	272.0	263.9	263.9
25°	1513.3	1308.1	926.9	615.8	421.9	330.7	278.6	257.4	244.3	239.5	239.5
27.5°	1547.5	1321.1	897.6	560.4	373.0	294.8	252.5	234.6	228.1	221.5	223.2
30°	1596.4	1347.2	878.0	514.8	337.2	267.2	231.3	218.3	211.8	210.1	210.1
32.5°	1658.3	1389.5	876.4	485.4	311.1	246.0	216.7	205.3	202.0	200.4	200.4
35°	1731.6	1427.0	866.6	472.4	294.8	231.3	205.3	197.1	195.5	195.5	195.5
37.5°	1819.6	1488.9	860.1	454.5	286.7	223.2	197.1	190.6	190.6	190.6	190.6
40°	1910.8	1539.4	850.3	438.2	283.4	218.3	192.2	184.1	184.1	184.1	184.1
42.5°	2020.0	1612.7	847.1	430.1	278.6	215.0	185.7	175.9	177.6	177.6	179.2
45°	2151.9	1695.8	845.4	421.9	276.9	211.8	179.2	167.8	169.4	167.8	167.8
47.5°	2285.5	1791.9	850.3	417.0	275.3	208.5	174.3	159.6	159.6	158.0	158.0
50°	2425.6	1879.9	853.6	412.1	272.0	202.0	166.2	153.1	149.9	146.6	148.2
52.5°	2557.5	1961.3	855.2	404.0	262.3	192.2	159.6	145.0	140.1	135.2	136.8
55°	2689.5	2039.5	858.5	394.2	249.2	182.4	151.5	136.8	130.3	123.8	123.8
57.5°	2808.4	2107.9	850.3	369.8	234.6	172.7	143.4	127.1	117.3	110.8	110.8
60°	2889.8	2156.8	825.9	333.9	215.0	161.3	135.2	117.3	105.9	101.0	101.0
62.5°	2928.9	2164.9	781.9	275.3	190.6	149.9	125.4	107.5	97.7	94.5	94.5
65°	2891.5	2129.1	713.5	206.9	164.5	136.8	115.7	99.4	89.6	81.4	81.4
67.5°	2761.1	2028.1	619.0	156.4	140.1	123.8	105.9	91.2	79.8	73.3	73.3
70°	2498.9	1818.0	478.9	125.4	118.9	107.5	96.1	81.4	71.7	63.5	63.5
72.5°	2155.2	1541.0	337.2	101.0	101.0	91.2	81.4	71.7	61.9	55.4	55.4
75°	1653.4	1140.3	226.4	81.4	83.1	76.6	66.8	58.6	52.1	47.2	47.2
77.5°	902.5	563.6	138.5	60.3	61.9	58.6	52.1	47.2	44.0	39.1	39.1
80°	438.2	247.6	79.8	42.4	44.0	42.4	39.1	34.2	34.2	31.0	31.0
82.5°	184.1	92.9	42.4	29.3	29.3	26.1	24.4	24.4	24.4	22.8	22.8
85°	45.6	17.9	17.9	16.3	16.3	16.3	14.7	14.7	14.7	11.4	13.0
87.5°	6.5	6.5	6.5	6.5	6.5	6.5	4.9	1.6	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)