

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: P836715

Luminaire Tested: **ARCH3-60-750-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-750-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7528 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.2
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

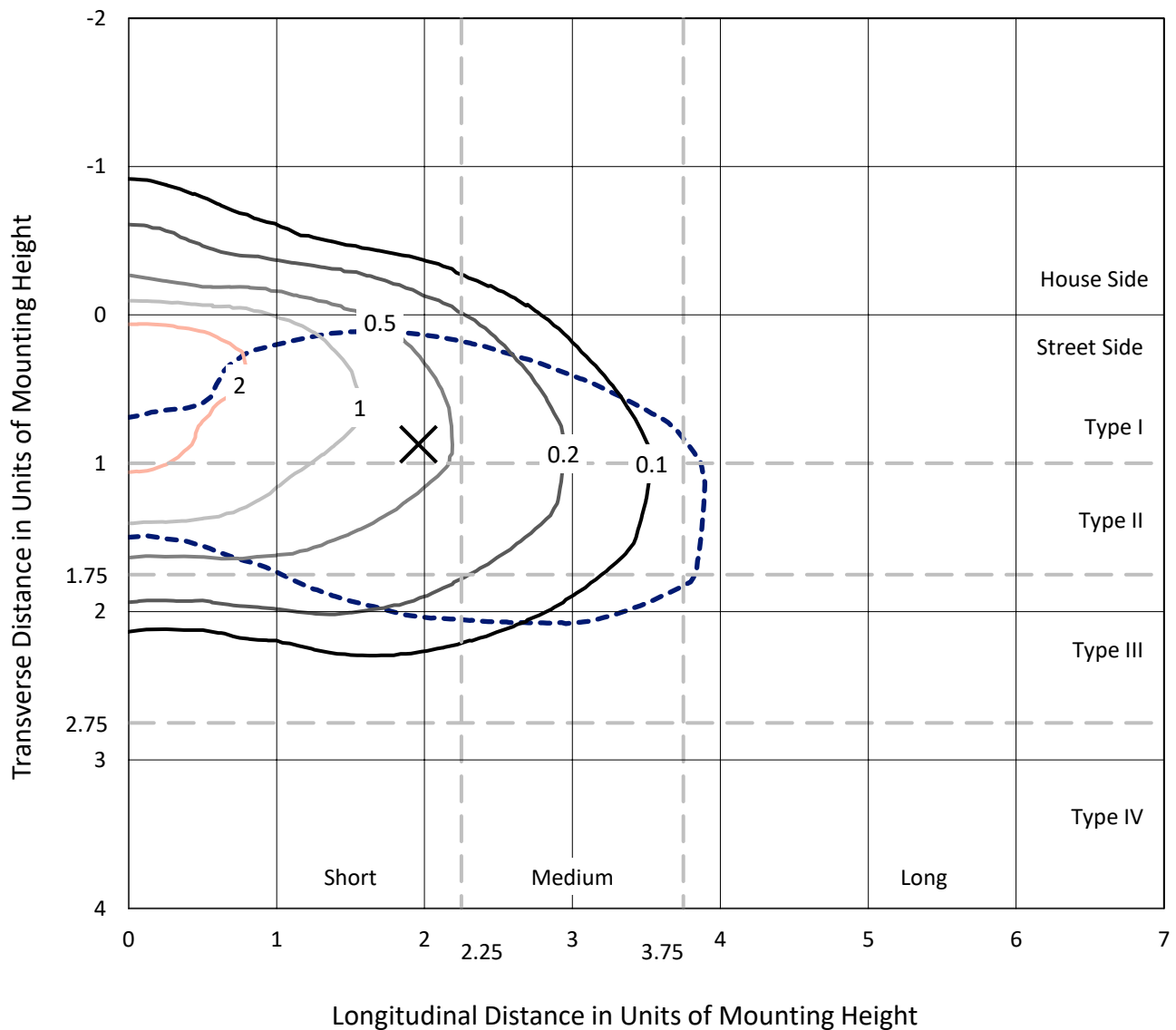


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

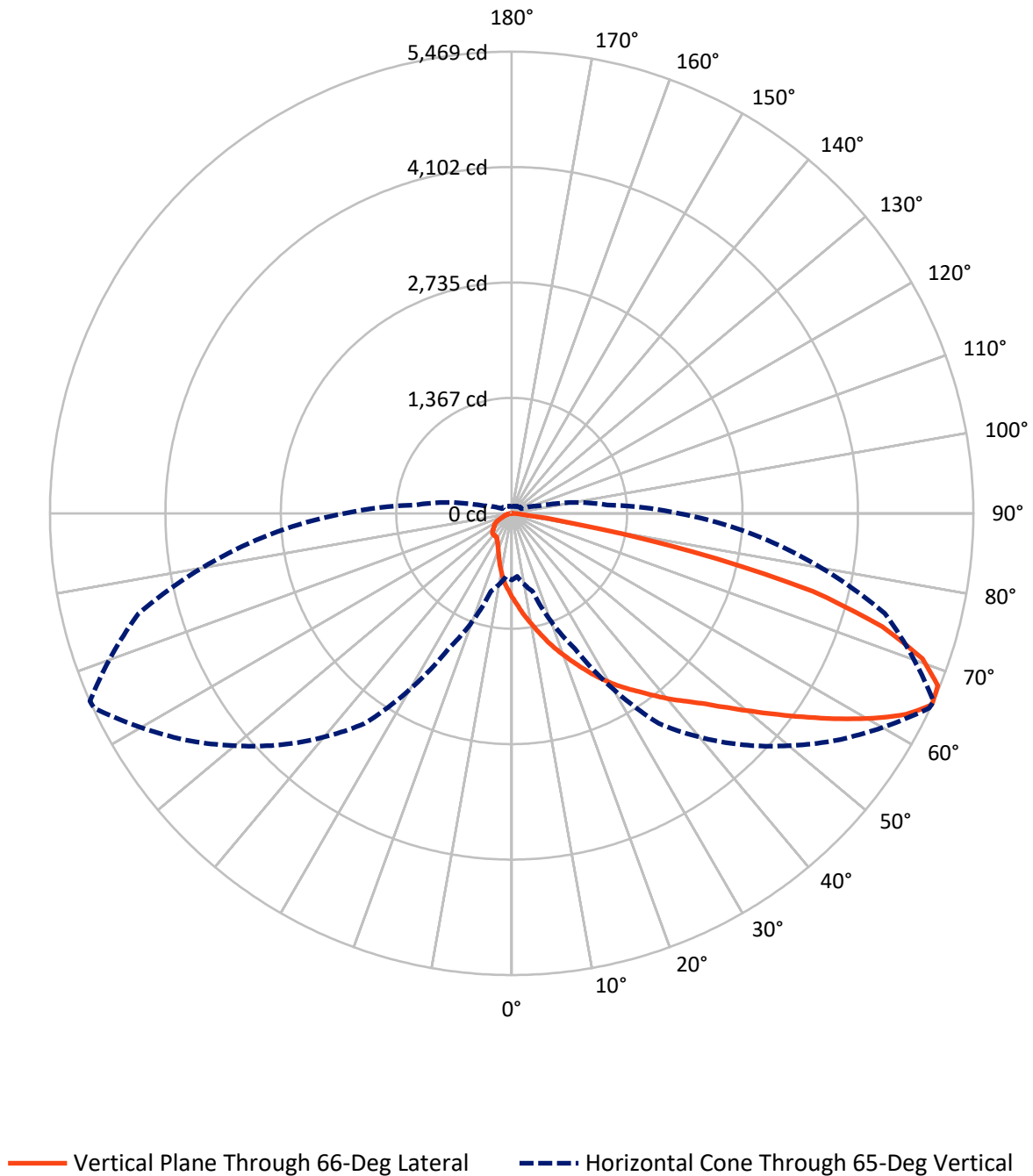


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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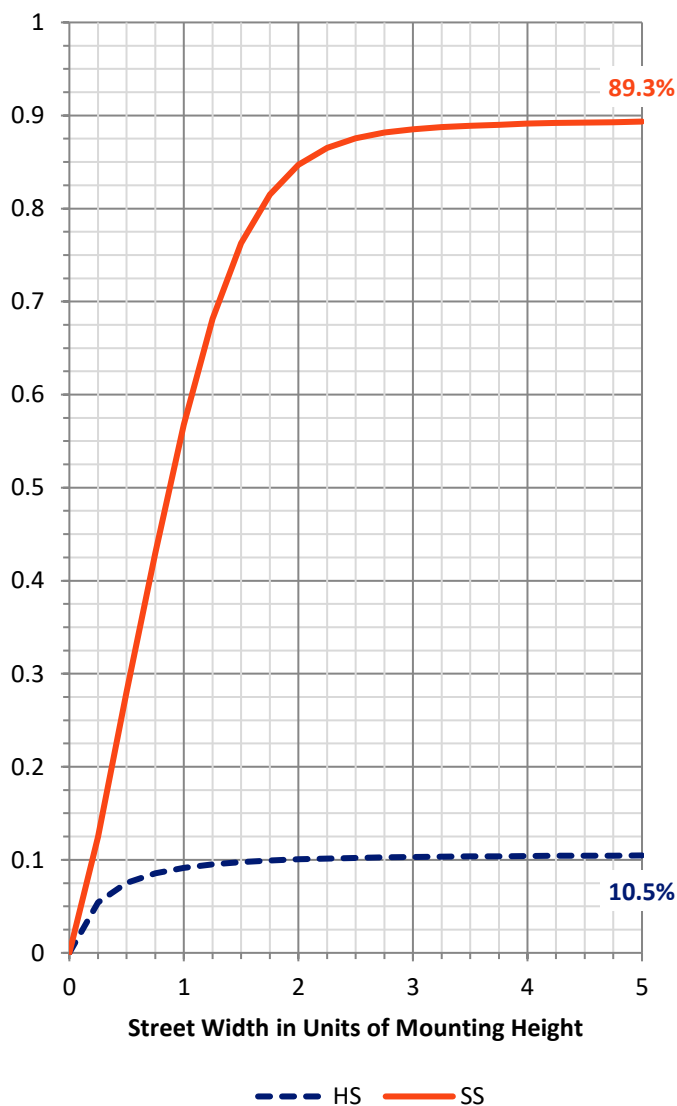
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	796.3	0.0	796.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	6731.7	0.0	6731.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	7528.0	0.0	7528.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	1.3
10°-20°	320.5	4.3
20°-30°	579.9	7.7
30°-40°	906.8	12.0
40°-50°	1375.6	18.3
50°-60°	1747.7	23.2
60°-70°	1633.1	21.7
70°-80°	811.6	10.8
80°-90°	54.5	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°	7528.0	100.0
0°-180°	7528.0	100.0

Coefficient of Utilization



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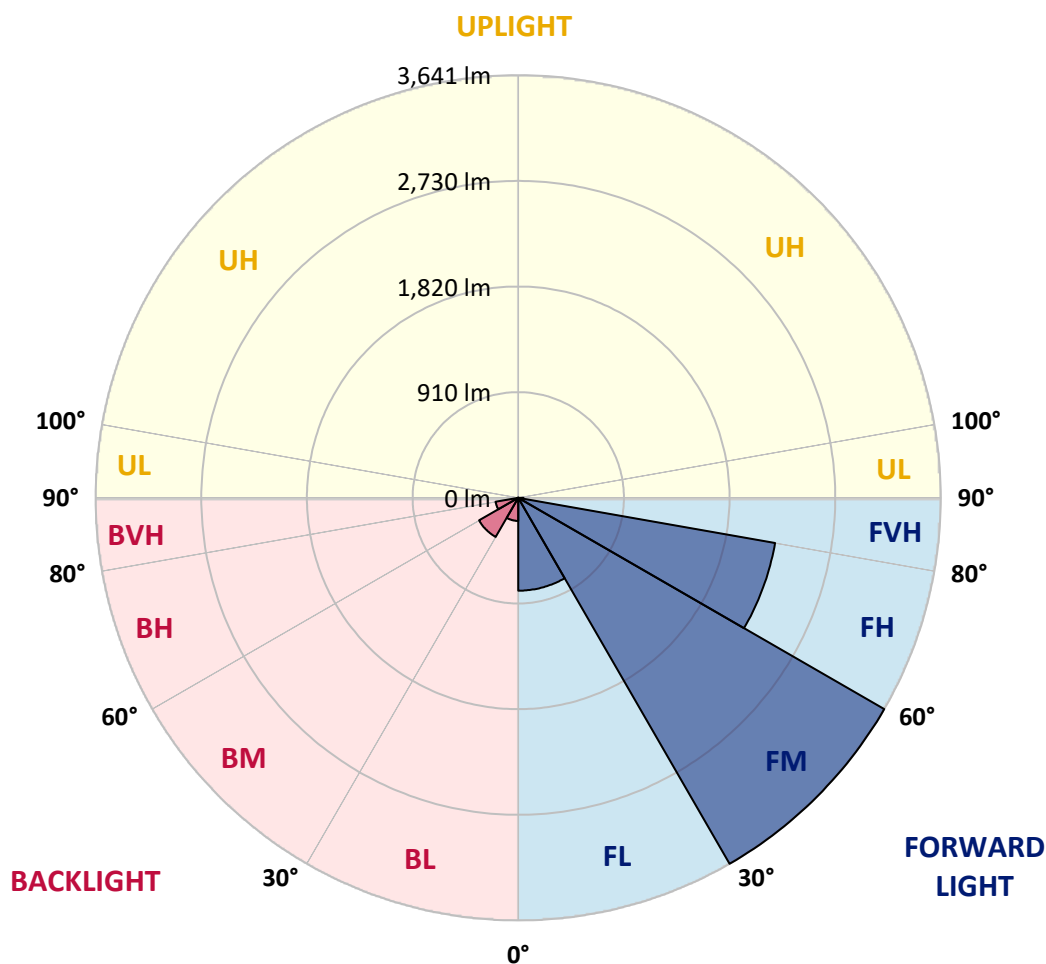
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	799.9	10.6			
FM	(30°-60°)	3640.6	48.4			
FH	(60°-80°)	2246.4	29.8			G2/5000
FVH	(80°-90°)	44.9	0.6			G1/100
BL	(0°-30°)	198.9	2.6	B1/500		
BM	(30°-60°)	389.4	5.2	B1/1000		
BH	(60°-80°)	198.3	2.6	B1/500		G1/500
BVH	(80°-90°)	9.7	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°	996.3	996.3	996.3	996.3	996.3	996.3	996.3	996.3	996.3	996.3	996.3
2.5°	1163.7	1173.1	1177.9	1179.4	1143.1	1127.3	1111.5	1075.2	1067.3	1046.8	1020.0
5°	1368.9	1381.5	1378.4	1372.1	1327.9	1277.3	1236.3	1168.4	1157.3	1108.4	1048.4
7.5°	1571.0	1582.1	1578.9	1555.2	1506.3	1435.2	1367.3	1267.9	1252.1	1173.1	1076.8
10°	1740.0	1749.4	1747.8	1724.2	1665.7	1578.9	1496.8	1364.2	1345.2	1233.1	1100.5
12.5°	1878.9	1891.5	1890.0	1874.2	1822.1	1727.3	1634.2	1474.7	1451.0	1305.8	1133.7
15°	1987.8	2003.6	2003.6	1997.3	1961.0	1882.1	1776.3	1596.3	1567.9	1389.4	1174.7
17.5°	2054.2	2066.8	2077.8	2088.9	2063.6	2003.6	1907.3	1717.8	1687.9	1471.5	1217.3
20°	2088.9	2101.5	2109.4	2133.1	2137.8	2107.8	2032.1	1837.8	1806.3	1564.7	1266.3
22.5°	2145.7	2156.8	2158.4	2178.9	2188.4	2196.3	2148.9	1956.3	1931.0	1667.3	1321.5
25°	2240.5	2253.1	2248.4	2257.8	2259.4	2268.9	2264.2	2092.1	2066.8	1784.2	1387.9
27.5°	2362.0	2377.8	2374.7	2365.2	2351.0	2343.1	2363.6	2229.4	2205.7	1901.0	1455.8
30°	2493.1	2512.0	2507.3	2488.4	2450.5	2417.3	2445.7	2358.9	2336.8	2021.0	1531.5
32.5°	2625.7	2647.8	2646.2	2614.7	2549.9	2493.1	2535.7	2480.5	2464.7	2150.5	1613.6
35°	2712.6	2741.0	2737.8	2718.9	2635.2	2586.2	2638.4	2605.2	2594.1	2308.4	1732.1
37.5°	2853.1	2883.1	2856.2	2808.9	2712.6	2687.3	2750.5	2745.7	2737.8	2475.7	1856.8
40°	3194.1	3238.3	3167.3	2973.1	2815.2	2793.1	2883.1	2902.0	2894.1	2641.5	1968.9
42.5°	3551.0	3617.3	3506.7	3238.3	3001.5	2921.0	3028.3	3055.2	3045.7	2783.6	2069.9
45°	3767.3	3795.7	3685.2	3476.8	3331.5	3075.7	3183.1	3227.3	3219.4	2954.1	2199.4
47.5°	3944.1	3933.1	3806.7	3666.2	3693.1	3293.6	3358.3	3445.2	3438.9	3142.0	2341.5
50°	3982.0	3956.7	3906.2	3817.8	3888.8	3514.6	3543.1	3693.1	3686.7	3350.4	2485.2
52.5°	3715.2	3682.0	3819.4	3893.6	3869.9	3675.7	3746.7	3964.6	3961.5	3576.2	2622.6
55°	3048.9	3022.0	3391.5	3775.2	3849.4	3789.4	3972.5	4247.3	4264.6	3816.2	2747.3
57.5°	2398.4	2369.9	2733.1	3478.3	3773.6	3893.6	4236.2	4570.9	4593.0	4076.7	2865.7
60°	1912.1	1869.4	2147.3	3011.0	3631.5	3974.1	4490.4	4926.2	4929.3	4315.1	2938.3
62.5°	1299.4	1252.1	1560.0	2418.9	3393.1	3986.7	4686.2	5232.5	5245.1	4493.6	2951.0
65°	789.5	750.0	958.4	1766.8	3041.0	3879.4	4689.3	5458.3	5469.3	4575.7	2875.2
67.5°	457.9	442.1	547.9	1100.5	2456.8	3590.4	4492.0	5423.5	5444.1	4540.9	2703.1
70°	266.8	265.3	304.7	544.7	1733.6	3017.3	4051.5	5131.4	5161.4	4359.4	2439.4
72.5°	195.8	198.9	214.7	292.1	1004.2	2172.6	3431.0	4544.1	4589.9	4004.1	2063.6
75°	154.7	156.3	170.5	198.9	527.4	1228.4	2570.5	3647.3	3683.6	3371.0	1612.1
77.5°	115.3	118.4	129.5	140.5	244.7	563.7	1446.3	2246.8	2186.8	1850.5	778.4
80°	83.7	91.6	96.3	101.0	129.5	217.9	434.2	783.1	776.8	808.4	367.9
82.5°	53.7	60.0	64.7	67.9	77.4	104.2	129.5	175.3	189.5	314.2	146.8
85°	23.7	26.8	30.0	36.3	33.2	36.3	53.7	34.7	30.0	47.4	26.8
87.5°	0.0	0.0	4.7	7.9	6.3	3.2	9.5	6.3	4.7	4.7	4.7
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°	996.3	996.3	996.3	996.3	996.3	996.3	996.3	996.3	996.3	996.3	996.3
2.5°	1005.8	988.4	952.1	917.3	896.8	870.0	846.3	824.2	822.6	816.3	805.2
5°	1018.4	985.2	917.3	852.6	803.7	751.6	707.3	672.6	660.0	650.5	637.9
7.5°	1031.0	978.9	877.9	783.1	705.8	633.1	581.0	533.7	519.5	506.8	498.9
10°	1035.8	967.9	832.1	705.8	604.7	527.4	472.1	437.4	424.7	418.4	413.7
12.5°	1050.0	961.6	789.5	633.1	516.3	445.3	405.8	385.3	380.5	375.8	371.0
15°	1068.9	961.6	746.8	562.1	446.8	390.0	366.3	352.1	348.9	347.4	344.2
17.5°	1089.4	961.6	705.8	502.1	396.3	353.7	336.3	328.4	326.8	325.3	323.7
20°	1117.9	963.1	661.6	450.0	360.0	326.8	312.6	303.1	301.6	300.0	300.0
22.5°	1146.3	966.3	618.9	410.5	336.3	306.3	288.9	279.5	276.3	276.3	276.3
25°	1182.6	975.8	579.5	377.4	315.8	287.4	265.3	257.4	255.8	255.8	254.2
27.5°	1225.2	986.8	544.7	352.1	295.3	265.3	243.2	235.3	232.1	232.1	230.5
30°	1271.0	997.9	516.3	333.1	274.7	243.2	222.6	213.2	210.0	211.6	210.0
32.5°	1321.5	1013.7	494.2	320.5	255.8	224.2	205.3	194.2	192.6	192.6	191.0
35°	1406.8	1057.9	491.0	314.2	240.0	210.0	191.0	180.0	178.4	178.4	176.8
37.5°	1498.4	1108.4	505.2	311.0	227.4	197.4	180.0	168.9	167.4	167.4	167.4
40°	1575.7	1146.3	521.0	311.0	219.5	186.3	170.5	161.0	161.0	161.0	161.0
42.5°	1627.9	1149.4	517.9	311.0	213.2	178.4	164.2	154.7	154.7	156.3	154.7
45°	1705.2	1165.2	505.2	306.3	208.4	172.1	157.9	150.0	148.4	150.0	150.0
47.5°	1796.8	1193.7	492.6	287.4	206.8	165.8	153.2	143.7	142.1	143.7	142.1
50°	1883.6	1218.9	486.3	262.1	203.7	159.5	146.8	137.4	135.8	137.4	135.8
52.5°	1956.3	1230.0	475.3	244.7	195.8	153.2	140.5	131.0	127.9	129.5	129.5
55°	2014.7	1226.8	459.5	230.5	181.6	146.8	132.6	124.7	120.0	120.0	118.4
57.5°	2068.4	1228.4	445.3	216.3	165.8	137.4	126.3	116.8	110.5	108.9	107.4
60°	2088.9	1220.5	420.0	197.4	150.0	129.5	118.4	107.4	101.0	99.5	97.9
62.5°	2060.5	1192.1	386.8	164.2	135.8	120.0	110.5	99.5	93.2	91.6	90.0
65°	1979.9	1138.4	336.3	129.5	123.2	108.9	101.0	93.2	85.3	82.1	80.5
67.5°	1842.6	1061.0	273.2	104.2	108.9	99.5	94.7	85.3	75.8	72.6	71.1
70°	1646.8	958.4	205.3	88.4	96.3	88.4	85.3	75.8	67.9	64.7	63.2
72.5°	1372.1	792.6	143.7	75.8	83.7	77.4	74.2	67.9	60.0	55.3	55.3
75°	1037.3	568.4	94.7	64.7	69.5	66.3	61.6	56.8	52.1	48.9	47.4
77.5°	446.8	221.0	58.4	48.9	56.8	55.3	48.9	45.8	44.2	41.1	41.1
80°	192.6	90.0	36.3	36.3	41.1	39.5	37.9	34.7	34.7	33.2	31.6
82.5°	71.1	36.3	22.1	26.8	30.0	26.8	26.8	26.8	26.8	25.3	25.3
85°	17.4	11.1	11.1	15.8	17.4	15.8	17.4	15.8	15.8	15.8	14.2
87.5°	4.7	4.7	6.3	6.3	6.3	6.3	6.3	4.7	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)