

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: P842555

Luminaire Tested: **ARCH4-60-740-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-60-740-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8042 lumens
Efficiency: N/A
Efficacy: 127.7 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

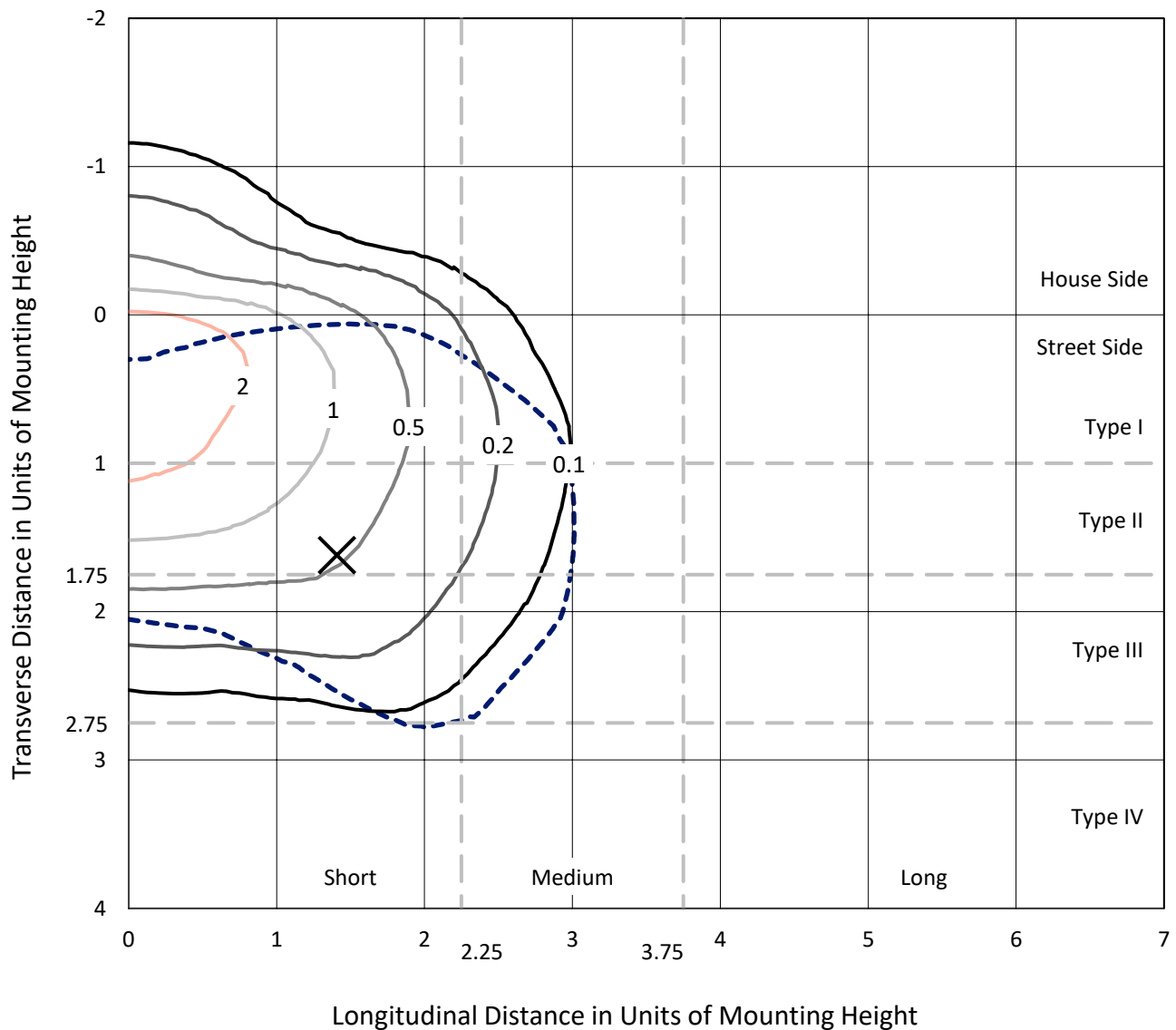


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Iso-Footcandle Lines of Horizontal Illumination

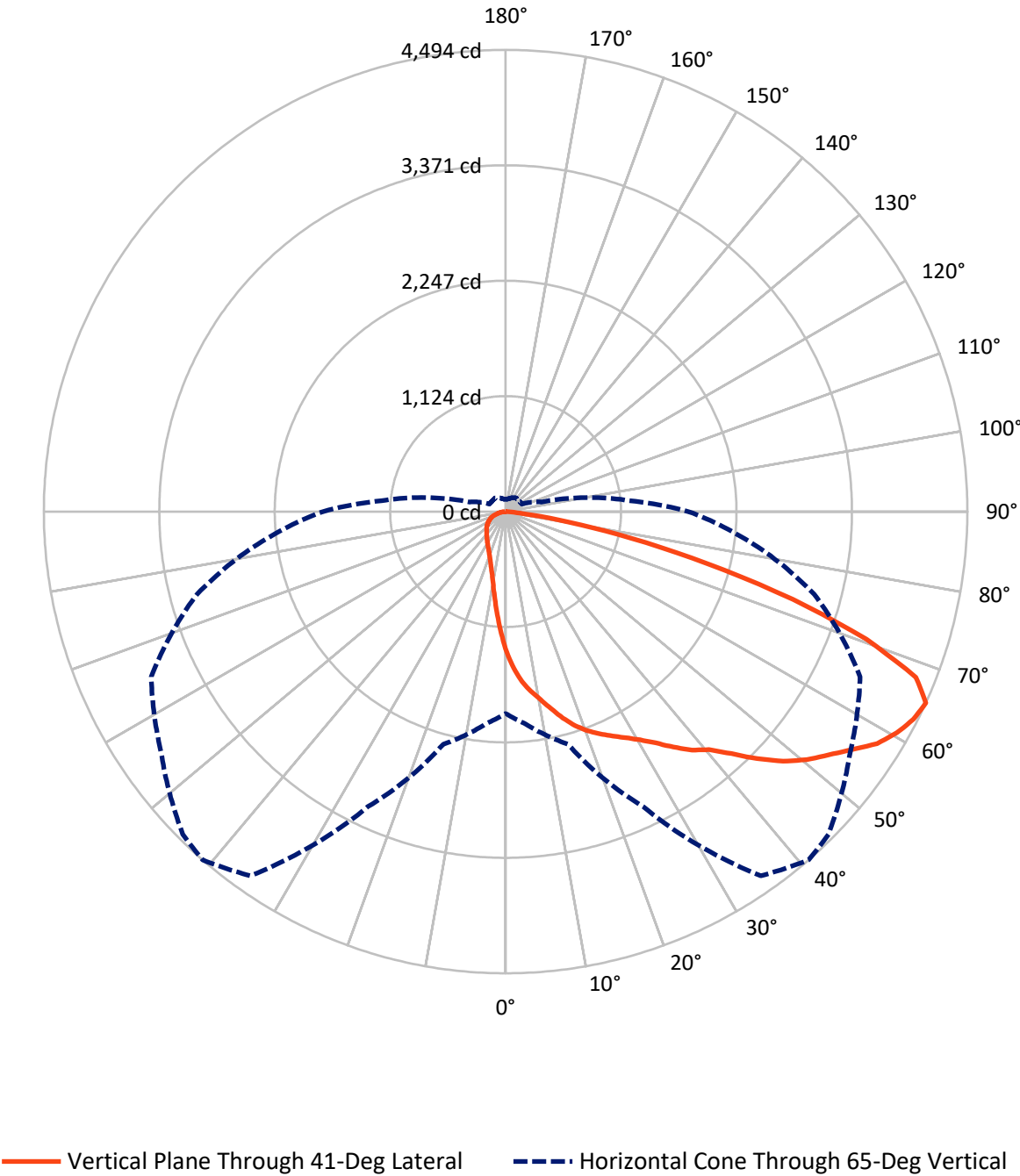
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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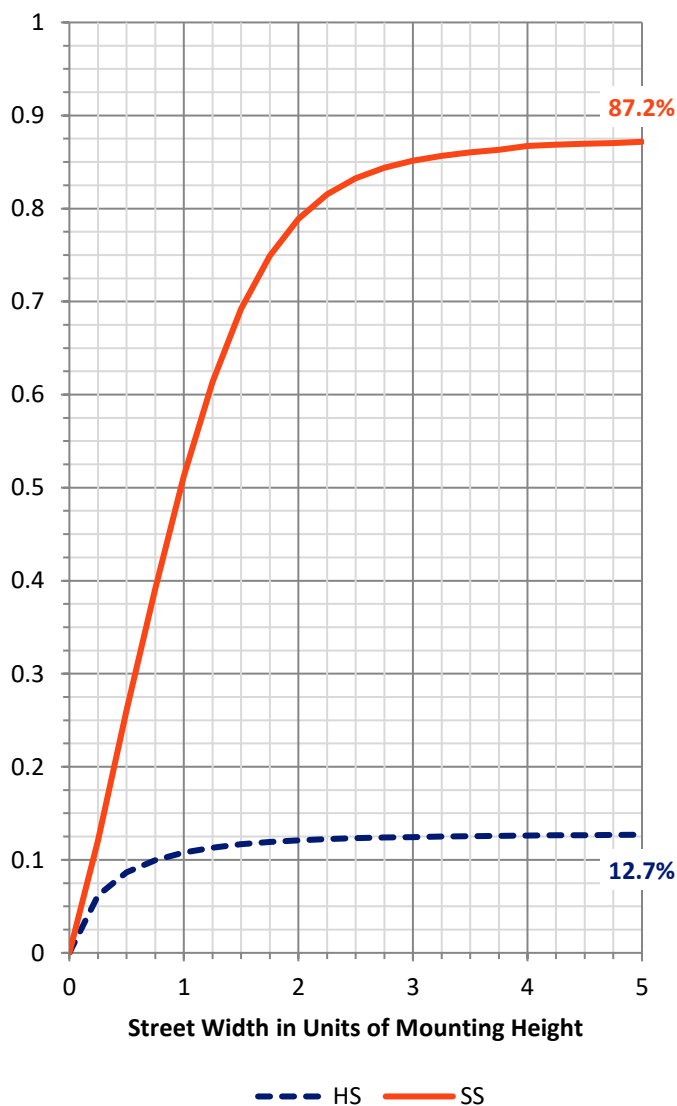
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1032.5	0.0	1032.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	7009.5	0.0	7009.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	8042.0	0.0	8042.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	1.6
10°-20°	382.8	4.8
20°-30°	658.6	8.2
30°-40°	998.9	12.4
40°-50°	1463.5	18.2
50°-60°	1848.0	23.0
60°-70°	1732.9	21.5
70°-80°	772.3	9.6
80°-90°	57.2	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°	8042.0	100.0
0°-180°	8042.0	100.0

Coefficient of Utilization



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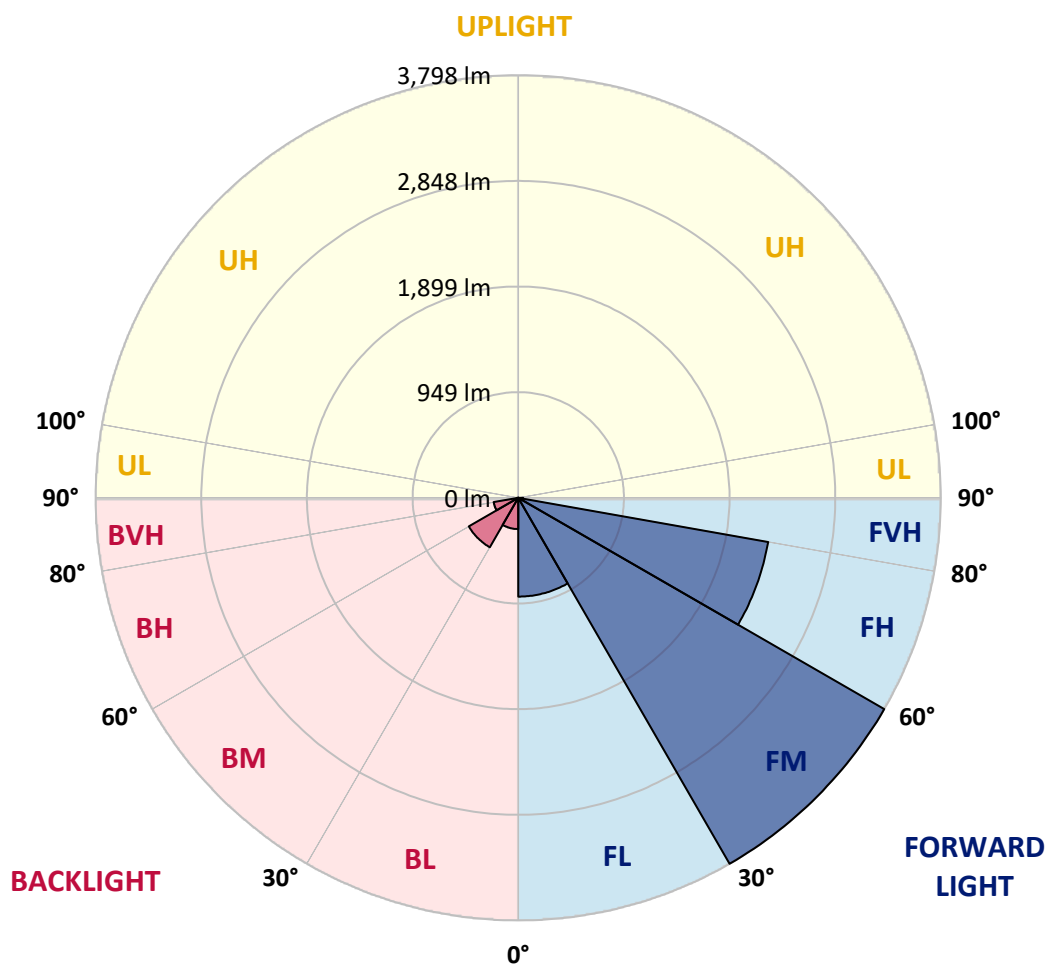
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	888.1	11.0			
FM	(30°-60°)	3797.7	47.2			
FH	(60°-80°)	2280.9	28.4			G2/5000
FVH	(80°-90°)	42.7	0.5			G1/100
BL	(0°-30°)	281.0	3.5	B1/500		
BM	(30°-60°)	512.7	6.4	B1/1000		
BH	(60°-80°)	224.3	2.8	B1/500		G1/500
BVH	(80°-90°)	14.5	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°	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3
2.5°	1580.6	1575.5	1572.1	1553.5	1553.5	1528.0	1529.7	1506.0	1477.2	1431.4	1382.2
5°	1729.9	1723.1	1714.6	1695.9	1689.2	1663.7	1660.3	1626.4	1577.2	1497.5	1409.3
7.5°	1860.4	1853.7	1841.8	1814.6	1796.0	1765.5	1757.0	1712.9	1658.6	1560.3	1436.5
10°	1979.2	1974.1	1958.8	1924.9	1899.4	1862.1	1846.9	1787.5	1719.7	1611.1	1458.5
12.5°	2099.6	2092.8	2072.4	2043.6	2013.1	1969.0	1950.3	1874.0	1787.5	1667.1	1490.7
15°	2211.5	2201.3	2186.1	2155.5	2128.4	2086.0	2065.6	1975.8	1870.6	1729.9	1533.1
17.5°	2284.4	2275.9	2262.4	2245.4	2223.4	2191.1	2170.8	2082.6	1953.7	1790.9	1577.2
20°	2328.5	2325.1	2320.0	2309.9	2299.7	2277.6	2262.4	2179.3	2043.6	1850.3	1619.6
22.5°	2362.4	2359.0	2357.3	2357.3	2359.0	2350.6	2340.4	2269.2	2130.1	1913.0	1658.6
25°	2415.0	2413.3	2409.9	2406.5	2418.4	2420.1	2416.7	2367.5	2238.6	1996.1	1707.8
27.5°	2487.9	2482.8	2476.1	2472.7	2484.5	2493.0	2499.8	2465.9	2354.0	2080.9	1763.8
30°	2599.9	2584.6	2567.6	2555.8	2564.3	2577.8	2593.1	2572.7	2472.7	2186.1	1821.4
32.5°	2732.1	2713.5	2674.5	2652.4	2674.5	2684.7	2696.5	2686.4	2596.5	2299.7	1879.1
35°	2893.3	2871.2	2830.5	2798.3	2837.3	2815.3	2810.2	2800.0	2713.5	2411.6	1943.5
37.5°	3161.2	3129.0	3064.6	2993.3	2993.3	2945.8	2927.2	2896.7	2818.6	2511.7	2006.3
40°	3471.6	3429.2	3346.1	3240.9	3144.3	3045.9	3034.0	3012.0	2942.4	2627.0	2077.5
42.5°	3812.5	3731.1	3615.7	3488.5	3332.5	3220.6	3193.4	3130.7	3062.9	2744.0	2148.7
45°	4190.7	4021.1	3853.2	3788.7	3530.9	3429.2	3378.3	3264.7	3188.4	2866.1	2223.4
47.5°	4251.7	4119.4	4007.5	3997.3	3715.8	3631.0	3573.3	3410.5	3324.0	2996.7	2301.4
50°	4217.8	4138.1	4150.0	4109.2	3851.5	3795.5	3751.4	3566.5	3458.0	3122.2	2372.6
52.5°	4075.3	4119.4	4187.3	4112.6	3980.4	3934.6	3912.5	3734.4	3583.5	3237.5	2437.1
55°	3905.7	3936.3	4082.1	4173.7	4129.6	4088.9	4068.5	3929.5	3707.3	3334.2	2496.4
57.5°	3658.1	3644.6	3805.7	4163.5	4285.6	4261.9	4239.8	4121.1	3822.6	3403.7	2533.7
60°	3286.7	3257.9	3461.4	3960.0	4336.5	4373.8	4363.6	4248.3	3910.8	3402.0	2518.5
62.5°	2644.0	2715.2	2996.7	3627.6	4358.6	4453.5	4434.9	4258.5	3939.7	3303.7	2421.8
65°	1965.6	2067.3	2343.8	3169.7	4328.0	4494.2	4443.3	4092.3	3805.7	3108.6	2209.8
67.5°	1416.1	1506.0	1707.8	2608.3	4034.6	4307.7	4248.3	3820.9	3497.0	2832.2	1916.4
70°	968.4	1032.8	1170.2	1899.4	3444.4	3724.3	3687.0	3415.6	3010.3	2503.2	1556.9
72.5°	683.5	710.6	798.8	1253.3	2616.8	2922.1	2878.0	2810.2	2418.4	2080.9	1210.9
75°	512.2	529.1	576.6	810.7	1765.5	2024.9	1984.2	2023.2	1806.2	1575.5	881.9
77.5°	193.3	210.3	327.3	517.3	1044.7	1243.1	1202.4	1226.2	1004.0	795.4	439.2
80°	52.6	56.0	108.5	245.9	474.9	619.0	563.1	483.3	373.1	366.3	232.3
82.5°	22.0	25.4	49.2	132.3	169.6	169.6	142.5	176.4	142.5	171.3	111.9
85°	8.5	10.2	11.9	33.9	22.0	23.7	25.4	33.9	28.8	35.6	25.4
87.5°	0.0	0.0	0.0	1.7	1.7	3.4	1.7	3.4	5.1	5.1	5.1
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°	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3
2.5°	1361.8	1343.2	1316.0	1272.0	1226.2	1200.7	1168.5	1163.4	1129.5	1126.1	1112.5
5°	1370.3	1331.3	1261.8	1177.0	1093.9	1029.4	981.9	956.5	907.3	907.3	893.8
7.5°	1377.1	1316.0	1204.1	1078.6	965.0	878.5	814.0	786.9	742.8	739.4	729.3
10°	1378.8	1297.4	1141.4	978.6	839.5	751.3	688.5	658.0	619.0	615.6	608.8
12.5°	1392.4	1287.2	1085.4	892.1	749.6	654.6	593.6	568.1	537.6	534.2	527.4
15°	1414.4	1287.2	1037.9	819.1	669.9	581.7	529.1	505.4	483.3	479.9	476.6
17.5°	1436.5	1283.8	990.4	751.3	603.8	524.0	478.3	459.6	442.6	440.9	437.6
20°	1456.8	1282.1	942.9	693.6	552.9	476.6	440.9	424.0	410.4	410.4	408.7
22.5°	1477.2	1278.7	897.1	639.4	508.8	440.9	410.4	391.8	381.6	381.6	379.9
25°	1507.7	1278.7	854.8	593.6	473.2	413.8	383.3	369.7	361.2	359.5	359.5
27.5°	1543.3	1288.9	817.4	552.9	442.6	386.7	362.9	349.4	339.2	335.8	337.5
30°	1582.3	1297.4	783.5	517.3	413.8	366.3	340.9	327.3	317.1	313.7	315.4
32.5°	1621.3	1307.6	753.0	485.0	385.0	347.7	322.2	307.0	296.8	295.1	295.1
35°	1663.7	1317.7	722.5	457.9	361.2	329.0	305.3	288.3	281.5	278.1	279.8
37.5°	1706.1	1334.7	693.6	432.5	344.3	312.1	290.0	273.0	268.0	266.3	266.3
40°	1757.0	1360.1	681.8	415.5	329.0	296.8	278.1	261.2	256.1	256.1	256.1
42.5°	1799.4	1380.5	671.6	396.8	317.1	283.2	266.3	252.7	249.3	247.6	249.3
45°	1841.8	1399.1	658.0	379.9	301.9	269.7	256.1	242.5	239.1	239.1	239.1
47.5°	1884.2	1409.3	639.4	362.9	288.3	257.8	245.9	234.0	230.6	230.6	230.6
50°	1918.1	1417.8	612.2	344.3	273.0	247.6	235.7	223.9	220.5	220.5	220.5
52.5°	1952.0	1419.5	583.4	322.2	257.8	235.7	225.6	213.7	210.3	208.6	208.6
55°	1982.5	1417.8	549.5	296.8	240.8	222.2	213.7	203.5	196.7	189.9	193.3
57.5°	2004.6	1416.1	510.5	271.3	223.9	208.6	205.2	191.6	178.1	161.1	164.5
60°	1996.1	1397.4	468.1	239.1	205.2	195.0	195.0	176.4	152.6	144.2	145.9
62.5°	1941.8	1344.9	424.0	205.2	186.6	181.5	179.8	159.4	140.8	132.3	134.0
65°	1779.0	1212.6	359.5	174.7	167.9	166.2	166.2	147.5	130.6	120.4	122.1
67.5°	1531.4	1017.6	293.4	147.5	149.2	152.6	152.6	135.7	118.7	108.5	110.2
70°	1227.9	795.4	234.0	127.2	128.9	134.0	137.4	122.1	106.8	96.7	96.7
72.5°	924.3	603.8	188.2	106.8	115.3	115.3	120.4	108.5	93.3	83.1	84.8
75°	669.9	432.5	149.2	89.9	100.1	98.4	98.4	91.6	79.7	72.9	72.9
77.5°	317.1	227.3	118.7	64.4	78.0	76.3	78.0	72.9	67.8	61.1	62.7
80°	156.0	111.9	76.3	45.8	54.3	56.0	61.1	57.7	56.0	50.9	50.9
82.5°	74.6	44.1	35.6	32.2	37.3	39.0	42.4	42.4	44.1	40.7	40.7
85°	20.4	11.9	15.3	20.4	23.7	25.4	28.8	30.5	30.5	28.8	30.5
87.5°	5.1	5.1	6.8	10.2	11.9	13.6	15.3	15.3	6.8	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)