

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: P836542

Luminaire Tested: **ARCH3-40-730-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-40-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4999 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43.6
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

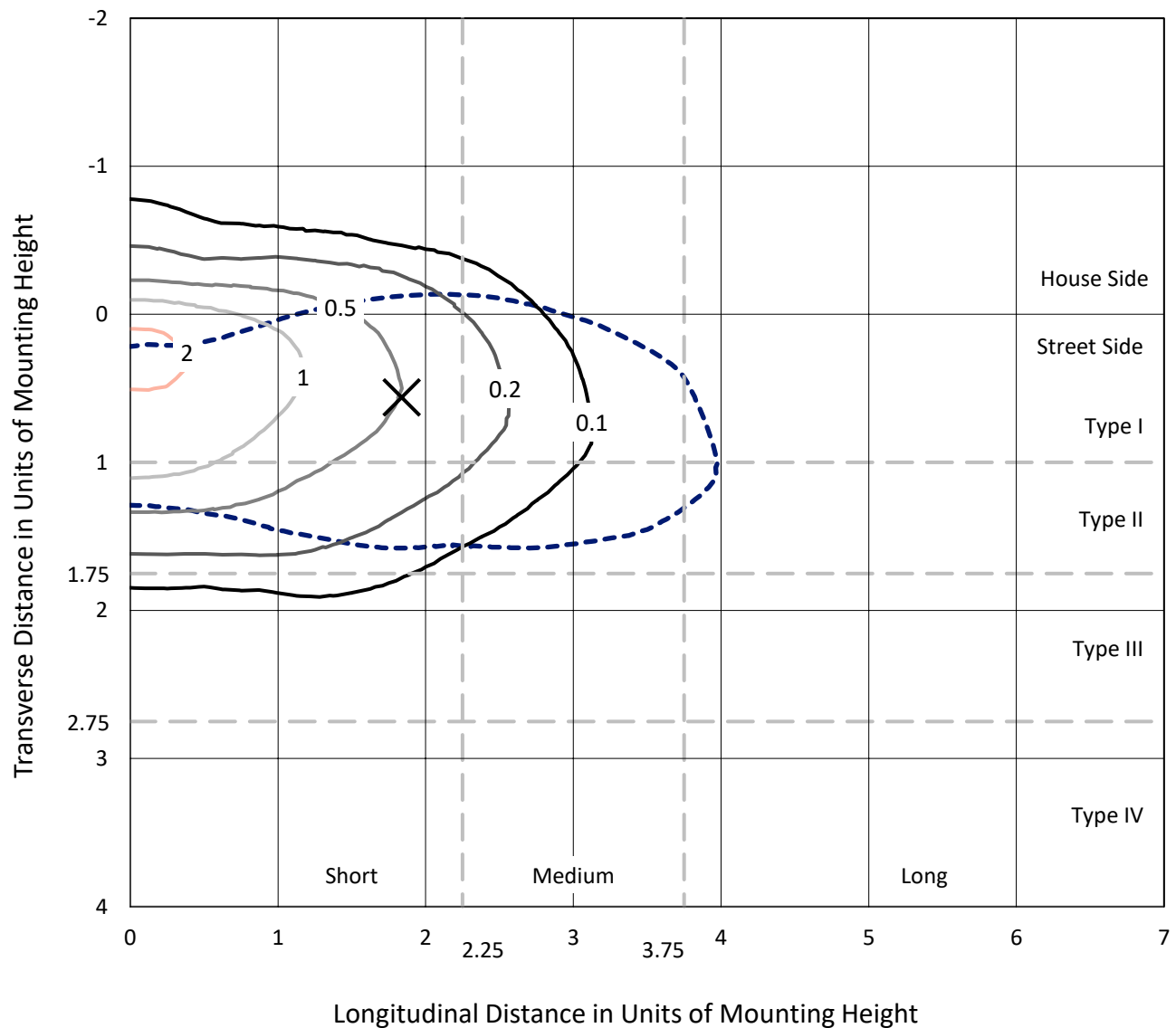


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Iso-Footcandle Lines of Horizontal Illumination

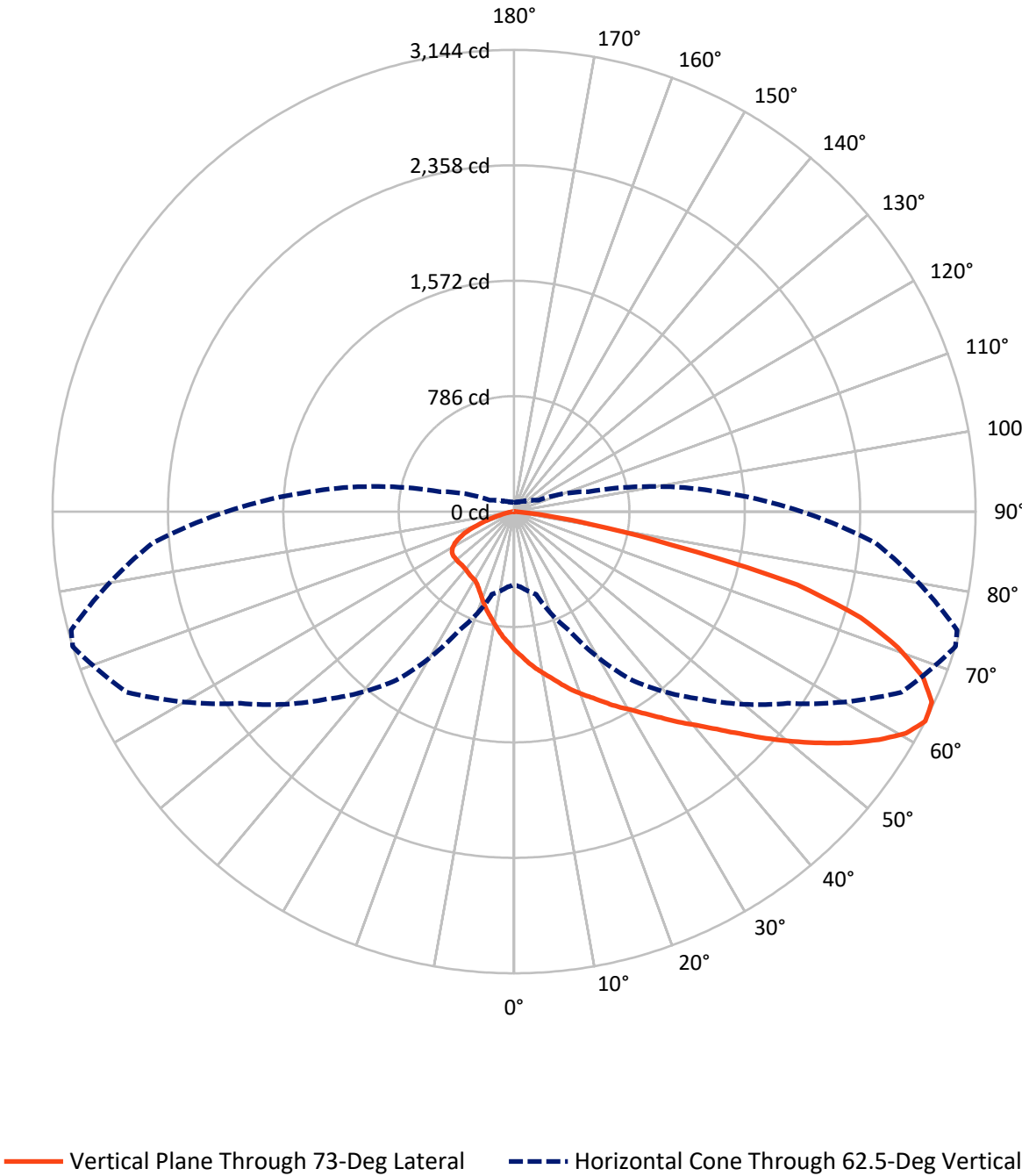
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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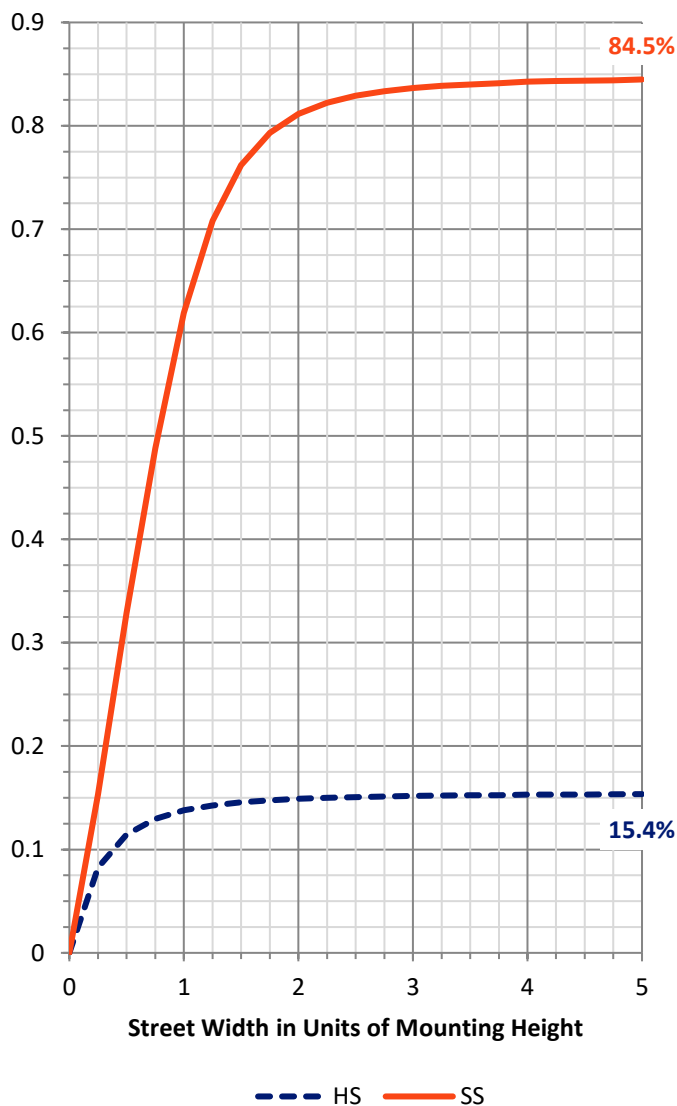
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	774.9	0.0	774.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	4224.1	0.0	4224.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	4999.0	0.0	4999.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	1.8
10°-20°	275.9	5.5
20°-30°	459.3	9.2
30°-40°	693.0	13.9
40°-50°	968.7	19.4
50°-60°	1070.0	21.4
60°-70°	932.1	18.6
70°-80°	470.8	9.4
80°-90°	37.8	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°	4999.0	100.0
0°-180°	4999.0	100.0

Coefficient of Utilization



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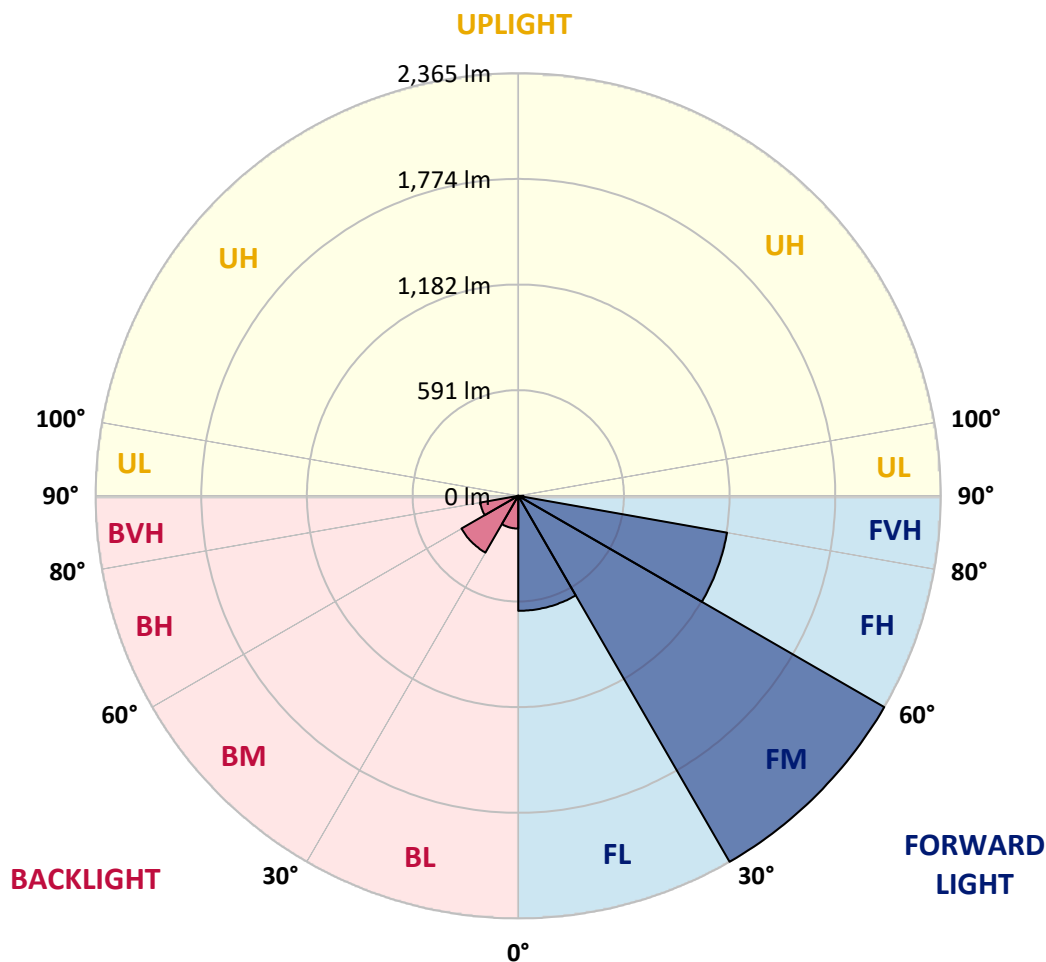
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	643.5	12.9			
FM	(30°-60°)	2364.7	47.3			
FH	(60°-80°)	1186.6	23.7			G1/1800
FVH	(80°-90°)	29.2	0.6			G1/100
BL	(0°-30°)	183.2	3.7	B1/500		
BM	(30°-60°)	366.9	7.3	B1/1000		
BH	(60°-80°)	216.3	4.3	B1/500		G1/500
BVH	(80°-90°)	8.5	0.2			G0/10
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°	946.6	946.6	946.6	946.6	946.6	946.6	946.6	946.6	946.6	946.6	946.6
2.5°	1077.3	1089.3	1082.7	1087.1	1065.3	1051.1	1034.8	1003.2	985.8	983.6	962.9
5°	1235.2	1248.3	1237.4	1234.1	1196.0	1163.3	1126.3	1070.7	1033.7	1027.2	981.4
7.5°	1393.2	1405.2	1392.1	1382.3	1331.1	1273.4	1218.9	1137.2	1079.5	1068.6	996.7
10°	1504.3	1515.2	1505.4	1495.6	1442.2	1383.4	1306.0	1199.3	1120.9	1103.4	1006.5
12.5°	1588.1	1594.7	1590.3	1581.6	1531.5	1468.3	1394.3	1269.0	1167.7	1145.9	1021.7
15°	1656.8	1667.7	1662.2	1655.7	1607.8	1544.6	1473.8	1342.0	1222.2	1194.9	1044.6
17.5°	1702.5	1710.1	1711.2	1711.2	1668.8	1606.7	1538.0	1408.4	1276.6	1241.8	1066.4
20°	1723.2	1731.9	1737.4	1746.1	1711.2	1657.9	1588.1	1465.1	1327.8	1288.6	1087.1
22.5°	1733.0	1740.6	1754.8	1774.4	1746.1	1701.4	1637.2	1517.3	1379.0	1337.6	1111.1
25°	1740.6	1750.4	1771.1	1808.2	1788.6	1750.4	1694.9	1577.3	1440.0	1397.5	1145.9
27.5°	1761.3	1773.3	1792.9	1837.6	1813.6	1795.1	1755.9	1641.5	1504.3	1460.7	1188.4
30°	1833.2	1843.0	1841.9	1870.3	1840.9	1835.4	1808.2	1703.6	1566.4	1522.8	1238.5
32.5°	1963.9	1973.7	1949.8	1938.9	1874.6	1875.7	1864.8	1770.1	1640.4	1595.8	1296.2
35°	2104.5	2115.4	2083.8	2065.2	1957.4	1925.8	1931.3	1852.8	1723.2	1678.6	1368.1
37.5°	2229.7	2242.8	2215.6	2188.3	2079.4	2006.4	2005.3	1945.4	1818.0	1772.2	1447.6
40°	2298.3	2313.6	2329.9	2314.7	2200.3	2119.7	2084.9	2040.2	1911.7	1864.8	1533.7
42.5°	2331.0	2373.5	2402.9	2393.1	2299.4	2217.7	2176.4	2139.3	2026.0	1980.3	1636.1
45°	2239.5	2240.6	2302.7	2356.1	2338.7	2284.2	2276.6	2250.4	2156.7	2113.2	1751.5
47.5°	2125.2	2116.4	2160.0	2254.8	2303.8	2318.0	2362.6	2373.5	2306.0	2262.4	1869.2
50°	1850.7	1856.1	1997.7	2133.9	2229.7	2321.2	2423.6	2499.9	2459.6	2418.2	1993.4
52.5°	1505.4	1518.4	1680.7	1980.3	2131.7	2288.5	2459.6	2626.2	2616.4	2577.2	2117.5
55°	1206.9	1227.6	1399.7	1724.3	2006.4	2215.6	2474.8	2741.7	2778.7	2742.8	2239.5
57.5°	922.6	944.4	1089.3	1422.6	1846.3	2096.8	2463.9	2843.0	2930.1	2907.2	2351.7
60°	695.0	716.7	809.3	1153.5	1645.9	1963.9	2409.5	2909.4	3066.3	3042.3	2433.4
62.5°	497.8	515.2	583.8	897.6	1401.9	1806.0	2275.5	2910.5	3143.6	3124.0	2472.6
65°	358.4	358.4	413.9	640.5	1173.1	1616.5	2072.9	2776.5	3127.3	3121.8	2445.4
67.5°	258.2	260.3	305.0	447.7	935.7	1386.6	1810.4	2538.0	3000.9	3028.2	2347.4
70°	183.0	188.4	209.1	312.6	706.9	1094.7	1529.3	2225.4	2773.3	2821.2	2157.8
72.5°	141.6	144.9	159.0	217.9	516.3	813.7	1218.9	1876.8	2469.4	2523.8	1899.7
75°	108.9	112.2	123.1	160.1	370.4	570.8	866.0	1456.3	1991.2	2088.1	1526.1
77.5°	79.5	83.9	91.5	116.6	215.7	362.7	525.0	819.1	1099.1	1144.8	799.5
80°	37.0	42.5	53.4	75.2	116.6	171.0	186.3	315.9	528.3	552.3	433.5
82.5°	20.7	26.1	30.5	45.7	58.8	61.0	63.2	79.5	199.3	220.0	181.9
85°	9.8	13.1	14.2	19.6	19.6	17.4	20.7	15.2	32.7	39.2	38.1
87.5°	0.0	1.1	2.2	5.4	4.4	3.3	3.3	3.3	3.3	4.4	3.3
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°	946.6	946.6	946.6	946.6	946.6	946.6	946.6	946.6	946.6	946.6	946.6
2.5°	953.1	938.9	906.3	877.9	859.4	843.1	821.3	811.5	794.1	797.3	787.5
5°	958.6	932.4	874.7	821.3	782.1	747.2	709.1	687.3	663.4	661.2	653.6
7.5°	961.8	921.5	838.7	763.6	703.7	650.3	599.1	570.8	541.4	534.8	528.3
10°	958.6	905.2	801.7	703.7	624.1	557.7	500.0	464.0	433.5	425.9	419.4
12.5°	961.8	896.5	766.8	648.1	553.3	478.2	412.8	375.8	347.5	339.9	335.5
15°	969.4	891.0	737.4	598.0	490.2	406.3	342.0	310.4	287.6	279.9	277.8
17.5°	976.0	885.6	705.8	549.0	427.0	343.1	287.6	261.4	241.8	234.2	232.0
20°	984.7	877.9	674.3	502.2	371.4	293.0	244.0	221.1	205.9	200.4	199.3
22.5°	992.3	872.5	644.8	455.3	320.2	252.7	211.3	192.8	181.9	176.5	176.5
25°	1011.9	874.7	619.8	411.7	282.1	221.1	186.3	172.1	163.4	160.1	160.1
27.5°	1034.8	883.4	600.2	374.7	249.4	197.2	168.8	156.9	152.5	148.1	149.2
30°	1067.5	900.8	587.1	344.2	225.5	178.6	154.7	146.0	141.6	140.5	140.5
32.5°	1108.9	929.1	586.0	324.6	208.0	164.5	144.9	137.2	135.1	134.0	134.0
35°	1157.9	954.2	579.5	315.9	197.2	154.7	137.2	131.8	130.7	130.7	130.7
37.5°	1216.7	995.6	575.1	303.9	191.7	149.2	131.8	127.4	127.4	127.4	127.4
40°	1277.7	1029.4	568.6	293.0	189.5	146.0	128.5	123.1	123.1	123.1	123.1
42.5°	1350.7	1078.4	566.4	287.6	186.3	143.8	124.2	117.6	118.7	118.7	119.8
45°	1438.9	1133.9	565.3	282.1	185.2	141.6	119.8	112.2	113.3	112.2	112.2
47.5°	1528.2	1198.2	568.6	278.9	184.1	139.4	116.6	106.7	106.7	105.7	105.7
50°	1621.9	1257.0	570.8	275.6	181.9	135.1	111.1	102.4	100.2	98.0	99.1
52.5°	1710.1	1311.5	571.9	270.1	175.4	128.5	106.7	96.9	93.7	90.4	91.5
55°	1798.4	1363.8	574.0	263.6	166.7	122.0	101.3	91.5	87.1	82.8	82.8
57.5°	1877.9	1409.5	568.6	247.3	156.9	115.5	95.9	85.0	78.4	74.1	74.1
60°	1932.4	1442.2	552.3	223.3	143.8	107.8	90.4	78.4	70.8	67.5	67.5
62.5°	1958.5	1447.6	522.8	184.1	127.4	100.2	83.9	71.9	65.4	63.2	63.2
65°	1933.4	1423.7	477.1	138.3	110.0	91.5	77.3	66.4	59.9	54.5	54.5
67.5°	1846.3	1356.1	413.9	104.6	93.7	82.8	70.8	61.0	53.4	49.0	49.0
70°	1670.9	1215.6	320.2	83.9	79.5	71.9	64.3	54.5	47.9	42.5	42.5
72.5°	1441.1	1030.4	225.5	67.5	67.5	61.0	54.5	47.9	41.4	37.0	37.0
75°	1105.6	762.5	151.4	54.5	55.6	51.2	44.7	39.2	34.9	31.6	31.6
77.5°	603.5	376.9	92.6	40.3	41.4	39.2	34.9	31.6	29.4	26.1	26.1
80°	293.0	165.6	53.4	28.3	29.4	28.3	26.1	22.9	22.9	20.7	20.7
82.5°	123.1	62.1	28.3	19.6	19.6	17.4	16.3	16.3	16.3	15.2	15.2
85°	30.5	12.0	12.0	10.9	10.9	10.9	9.8	9.8	9.8	7.6	8.7
87.5°	4.4	4.4	4.4	4.4	4.4	4.4	3.3	1.1	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)