

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: P799748

Luminaire Tested: **ARCH2-50-727-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-50-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

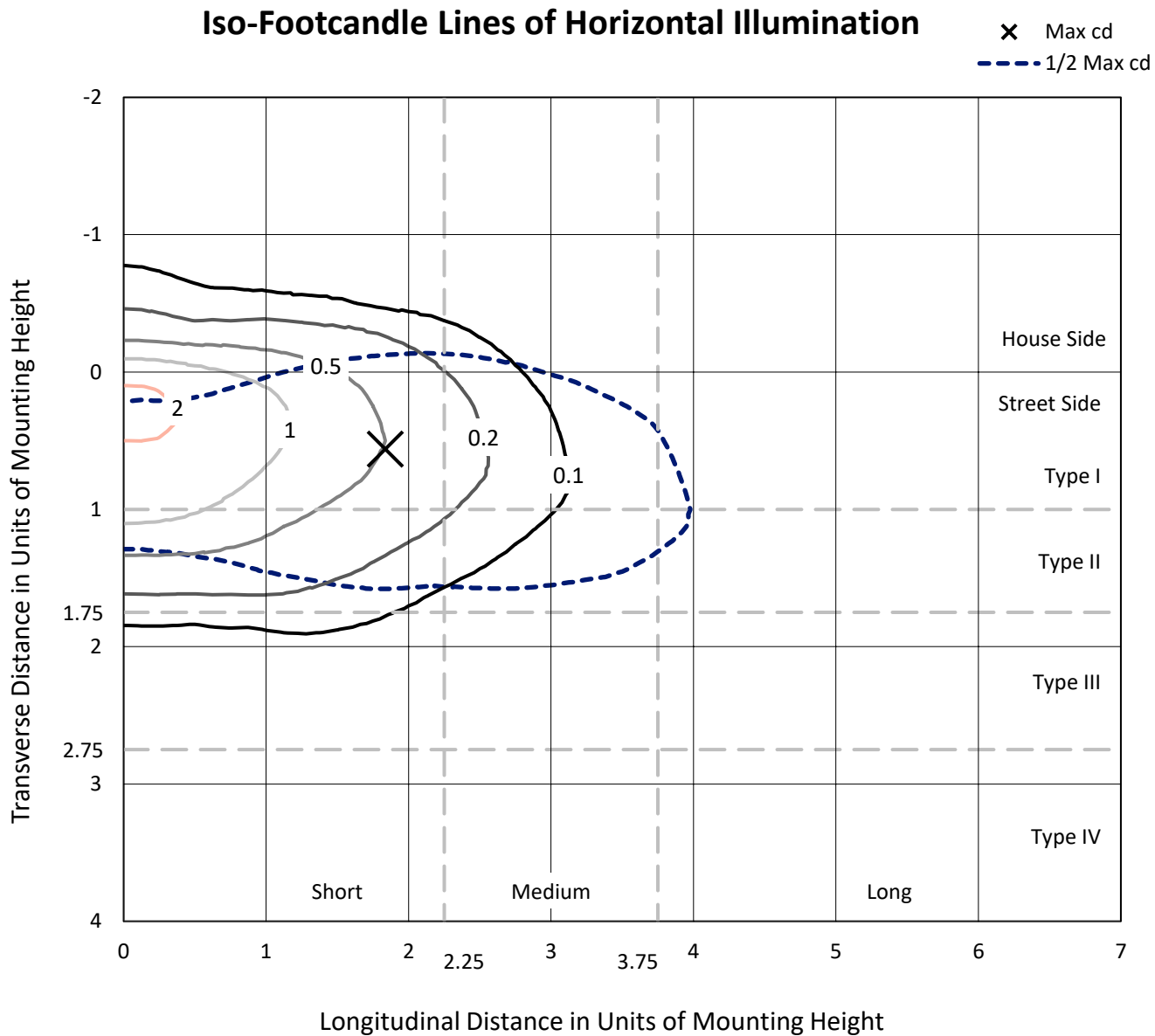
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4978 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 54
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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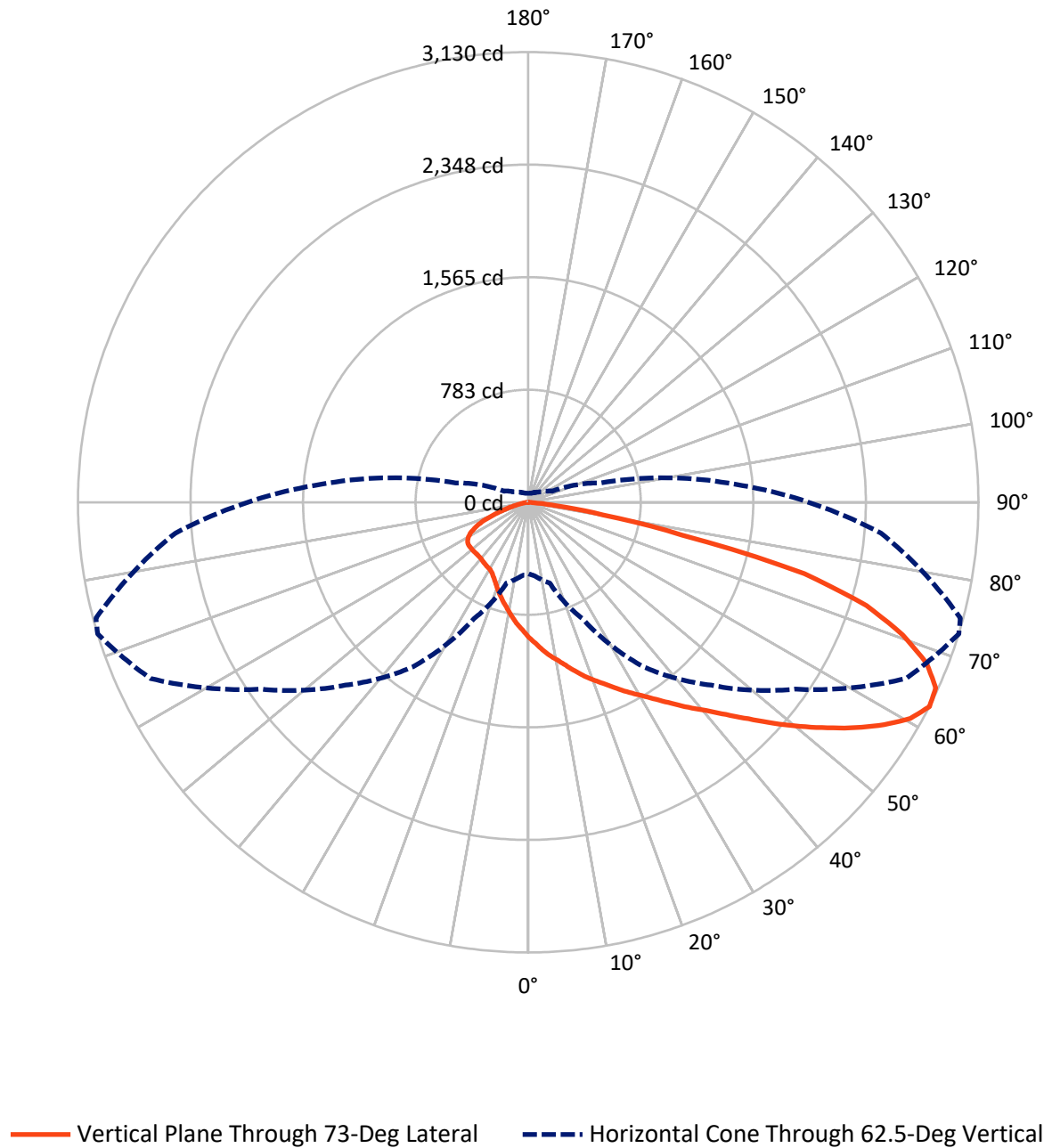


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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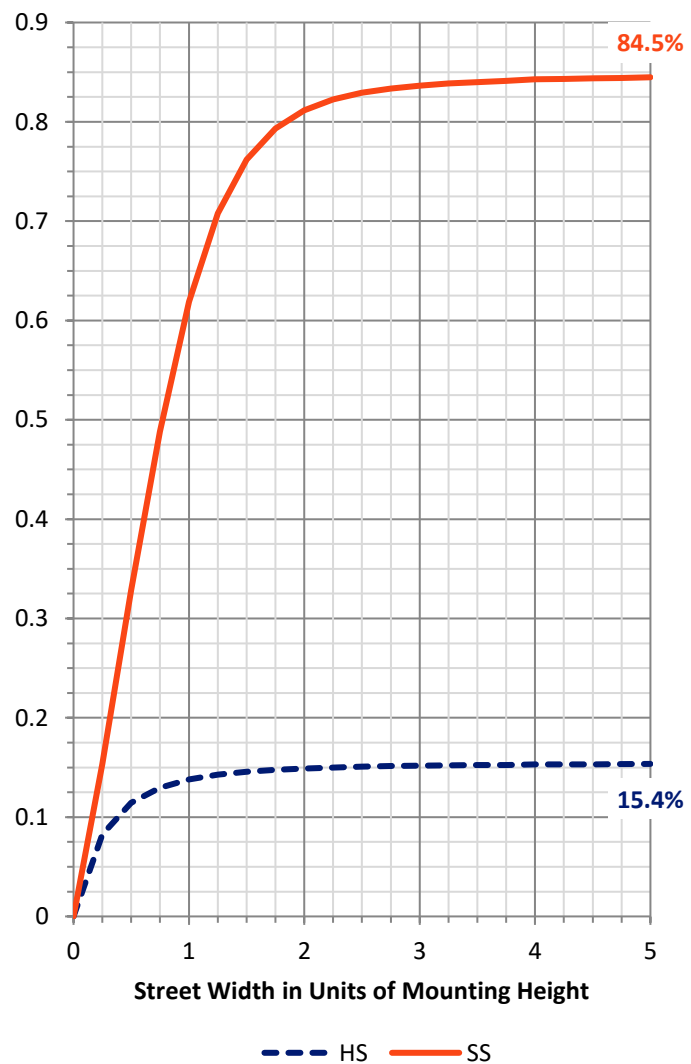
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	771.7	0.0	771.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	4206.3	0.0	4206.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	4978.0	0.0	4978.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	1.8
10°-20°	274.8	5.5
20°-30°	457.4	9.2
30°-40°	690.1	13.9
40°-50°	964.6	19.4
50°-60°	1065.5	21.4
60°-70°	928.1	18.6
70°-80°	468.8	9.4
80°-90°	37.6	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°	4978.0	100.0
0°-180°	4978.0	100.0

Coefficient of Utilization

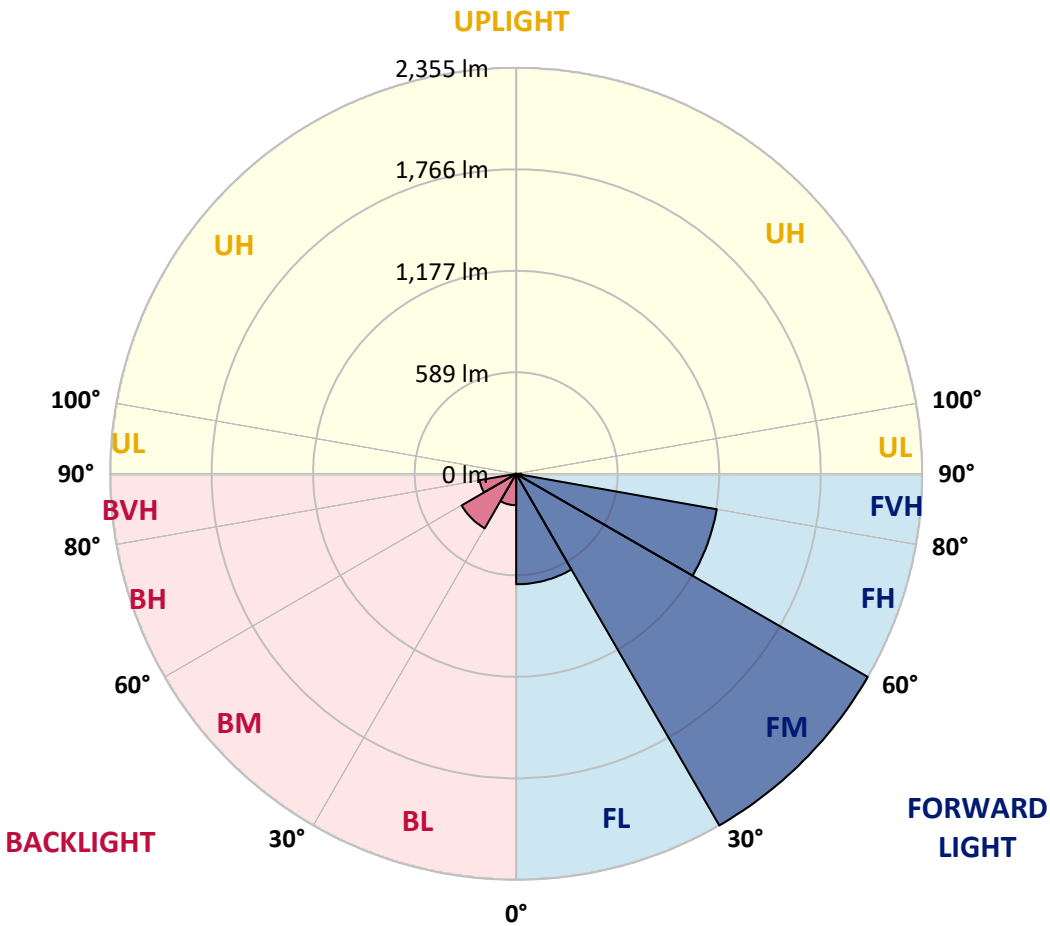


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	640.8	12.9			
FM	(30°-60°)	2354.8	47.3			
FH	(60°-80°)	1181.6	23.7			G1/1800
FVH	(80°-90°)	29.1	0.6			G1/100
BL	(0°-30°)	182.4	3.7	B1/500		
BM	(30°-60°)	365.4	7.3	B1/1000		
BH	(60°-80°)	215.4	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°	942.6	942.6	942.6	942.6	942.6	942.6	942.6	942.6	942.6	942.6	942.6
2.5°	1072.8	1084.7	1078.2	1082.5	1060.8	1046.7	1030.5	999.0	981.6	979.5	958.9
5°	1230.0	1243.1	1232.2	1229.0	1191.0	1158.4	1121.6	1066.2	1029.4	1022.9	977.3
7.5°	1387.3	1399.2	1386.2	1376.5	1325.5	1268.0	1213.8	1132.4	1074.9	1064.1	992.5
10°	1498.0	1508.8	1499.0	1489.3	1436.1	1377.6	1300.5	1194.2	1116.1	1098.8	1002.3
12.5°	1581.5	1588.0	1583.6	1575.0	1525.1	1462.2	1388.4	1263.7	1162.8	1141.1	1017.4
15°	1649.8	1660.7	1655.2	1648.7	1601.0	1538.1	1467.6	1336.3	1217.0	1189.9	1040.2
17.5°	1695.4	1703.0	1704.0	1704.0	1661.7	1599.9	1531.6	1402.5	1271.3	1236.5	1061.9
20°	1716.0	1724.7	1730.1	1738.8	1704.0	1650.9	1581.5	1458.9	1322.2	1283.2	1082.5
22.5°	1725.7	1733.3	1747.4	1767.0	1738.8	1694.3	1630.3	1511.0	1373.2	1332.0	1106.4
25°	1733.3	1743.1	1763.7	1800.6	1781.1	1743.1	1687.8	1570.6	1434.0	1391.7	1141.1
27.5°	1753.9	1765.9	1785.4	1829.9	1806.0	1787.6	1748.5	1634.6	1498.0	1454.6	1183.4
30°	1825.5	1835.3	1834.2	1862.4	1833.1	1827.7	1800.6	1696.5	1559.8	1516.4	1233.3
32.5°	1955.7	1965.5	1941.6	1930.7	1866.7	1867.8	1857.0	1762.6	1633.5	1589.1	1290.8
35°	2095.6	2106.5	2075.0	2056.6	1949.2	1917.7	1923.2	1845.1	1716.0	1671.5	1362.4
37.5°	2220.4	2233.4	2206.3	2179.1	2070.7	1998.0	1996.9	1937.3	1810.3	1764.8	1441.6
40°	2288.7	2303.9	2320.2	2305.0	2191.1	2110.8	2076.1	2031.6	1903.6	1857.0	1527.2
42.5°	2321.2	2363.5	2392.8	2383.1	2289.8	2208.4	2167.2	2130.3	2017.5	1972.0	1629.2
45°	2230.1	2231.2	2293.0	2346.2	2328.8	2274.6	2267.0	2241.0	2147.7	2104.3	1744.2
47.5°	2116.2	2107.6	2150.9	2245.3	2294.1	2308.2	2352.7	2363.5	2296.3	2252.9	1861.3
50°	1842.9	1848.3	1989.3	2124.9	2220.4	2311.5	2413.4	2489.4	2449.2	2408.0	1985.0
52.5°	1499.0	1512.1	1673.7	1972.0	2122.7	2278.9	2449.2	2615.2	2605.4	2566.4	2108.6
55°	1201.8	1222.4	1393.8	1717.1	1998.0	2206.3	2464.4	2730.2	2767.0	2731.2	2230.1
57.5°	918.7	940.4	1084.7	1416.6	1838.5	2088.0	2453.6	2831.0	2917.8	2895.0	2341.8
60°	692.0	713.7	805.9	1148.7	1639.0	1955.7	2399.3	2897.2	3053.4	3029.5	2423.2
62.5°	495.7	513.1	581.4	893.8	1396.0	1798.4	2265.9	2898.3	3130.4	3110.9	2462.2
65°	356.9	356.9	412.2	637.8	1168.2	1609.7	2064.2	2764.9	3114.1	3108.7	2435.1
67.5°	257.1	259.2	303.7	445.8	931.7	1380.8	1802.8	2527.3	2988.3	3015.4	2337.5
70°	182.2	187.7	208.3	311.3	704.0	1090.1	1522.9	2216.0	2761.6	2809.3	2148.8
72.5°	141.0	144.3	158.4	216.9	514.1	810.3	1213.8	1868.9	2459.0	2513.2	1891.7
75°	108.5	111.7	122.6	159.4	368.8	568.4	862.3	1450.2	1982.8	2079.3	1519.6
77.5°	79.2	83.5	91.1	116.1	214.8	361.2	522.8	815.7	1094.5	1140.0	796.2
80°	36.9	42.3	53.1	74.8	116.1	170.3	185.5	314.6	526.1	549.9	431.7
82.5°	20.6	26.0	30.4	45.6	58.6	60.7	62.9	79.2	198.5	219.1	181.1
85°	9.8	13.0	14.1	19.5	19.5	17.4	20.6	15.2	32.5	39.0	38.0
87.5°	0.0	1.1	2.2	5.4	4.3	3.3	3.3	3.3	3.3	4.3	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°	942.6	942.6	942.6	942.6	942.6	942.6	942.6	942.6	942.6	942.6	942.6
2.5°	949.1	935.0	902.5	874.3	855.8	839.5	817.9	808.1	790.7	794.0	784.2
5°	954.5	928.5	871.0	817.9	778.8	744.1	706.1	684.4	660.6	658.4	650.8
7.5°	957.8	917.6	835.2	760.4	700.7	647.6	596.6	568.4	539.1	532.6	526.1
10°	954.5	901.4	798.3	700.7	621.5	555.4	497.9	462.1	431.7	424.1	417.6
12.5°	957.8	892.7	763.6	645.4	551.0	476.2	411.1	374.2	346.0	338.4	334.1
15°	965.4	887.3	734.3	595.5	488.1	404.6	340.6	309.1	286.4	278.8	276.6
17.5°	971.9	881.9	702.9	546.7	425.2	341.7	286.4	260.3	240.8	233.2	231.0
20°	980.6	874.3	671.4	500.0	369.9	291.8	243.0	220.2	205.0	199.6	198.5
22.5°	988.2	868.8	642.1	453.4	318.9	251.6	210.4	192.0	181.1	175.7	175.7
25°	1007.7	871.0	617.2	410.0	280.9	220.2	185.5	171.4	162.7	159.4	159.4
27.5°	1030.5	879.7	597.7	373.1	248.4	196.3	168.1	156.2	151.9	147.5	148.6
30°	1063.0	897.0	584.6	342.8	224.5	177.9	154.0	145.3	141.0	139.9	139.9
32.5°	1104.2	925.2	583.6	323.2	207.2	163.8	144.3	136.7	134.5	133.4	133.4
35°	1153.0	950.2	577.1	314.6	196.3	154.0	136.7	131.2	130.2	130.2	130.2
37.5°	1211.6	991.4	572.7	302.6	190.9	148.6	131.2	126.9	126.9	126.9	126.9
40°	1272.3	1025.0	566.2	291.8	188.7	145.3	128.0	122.6	122.6	122.6	122.6
42.5°	1345.0	1073.8	564.0	286.4	185.5	143.2	123.7	117.1	118.2	118.2	119.3
45°	1432.9	1129.2	563.0	280.9	184.4	141.0	119.3	111.7	112.8	111.7	111.7
47.5°	1521.8	1193.2	566.2	277.7	183.3	138.8	116.1	106.3	106.3	105.2	105.2
50°	1615.1	1251.7	568.4	274.4	181.1	134.5	110.6	102.0	99.8	97.6	98.7
52.5°	1703.0	1306.0	569.5	269.0	174.6	128.0	106.3	96.5	93.3	90.0	91.1
55°	1790.8	1358.0	571.6	262.5	166.0	121.5	100.9	91.1	86.8	82.4	82.4
57.5°	1870.0	1403.6	566.2	246.2	156.2	115.0	95.5	84.6	78.1	73.8	73.8
60°	1924.2	1436.1	549.9	222.4	143.2	107.4	90.0	78.1	70.5	67.3	67.3
62.5°	1950.3	1441.6	520.7	183.3	126.9	99.8	83.5	71.6	65.1	62.9	62.9
65°	1925.3	1417.7	475.1	137.8	109.6	91.1	77.0	66.2	59.7	54.2	54.2
67.5°	1838.5	1350.4	412.2	104.1	93.3	82.4	70.5	60.7	53.1	48.8	48.8
70°	1663.9	1210.5	318.9	83.5	79.2	71.6	64.0	54.2	47.7	42.3	42.3
72.5°	1435.0	1026.1	224.5	67.3	67.3	60.7	54.2	47.7	41.2	36.9	36.9
75°	1101.0	759.3	150.8	54.2	55.3	51.0	44.5	39.0	34.7	31.5	31.5
77.5°	600.9	375.3	92.2	40.1	41.2	39.0	34.7	31.5	29.3	26.0	26.0
80°	291.8	164.9	53.1	28.2	29.3	28.2	26.0	22.8	22.8	20.6	20.6
82.5°	122.6	61.8	28.2	19.5	19.5	17.4	16.3	16.3	16.3	15.2	15.2
85°	30.4	11.9	11.9	10.8	10.8	10.8	9.8	9.8	9.8	7.6	8.7
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	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)