

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: P1210922

Luminaire Tested: **ARCH4-110-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-110-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13772 lumens
Efficiency: N/A
Efficacy: 122.3 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

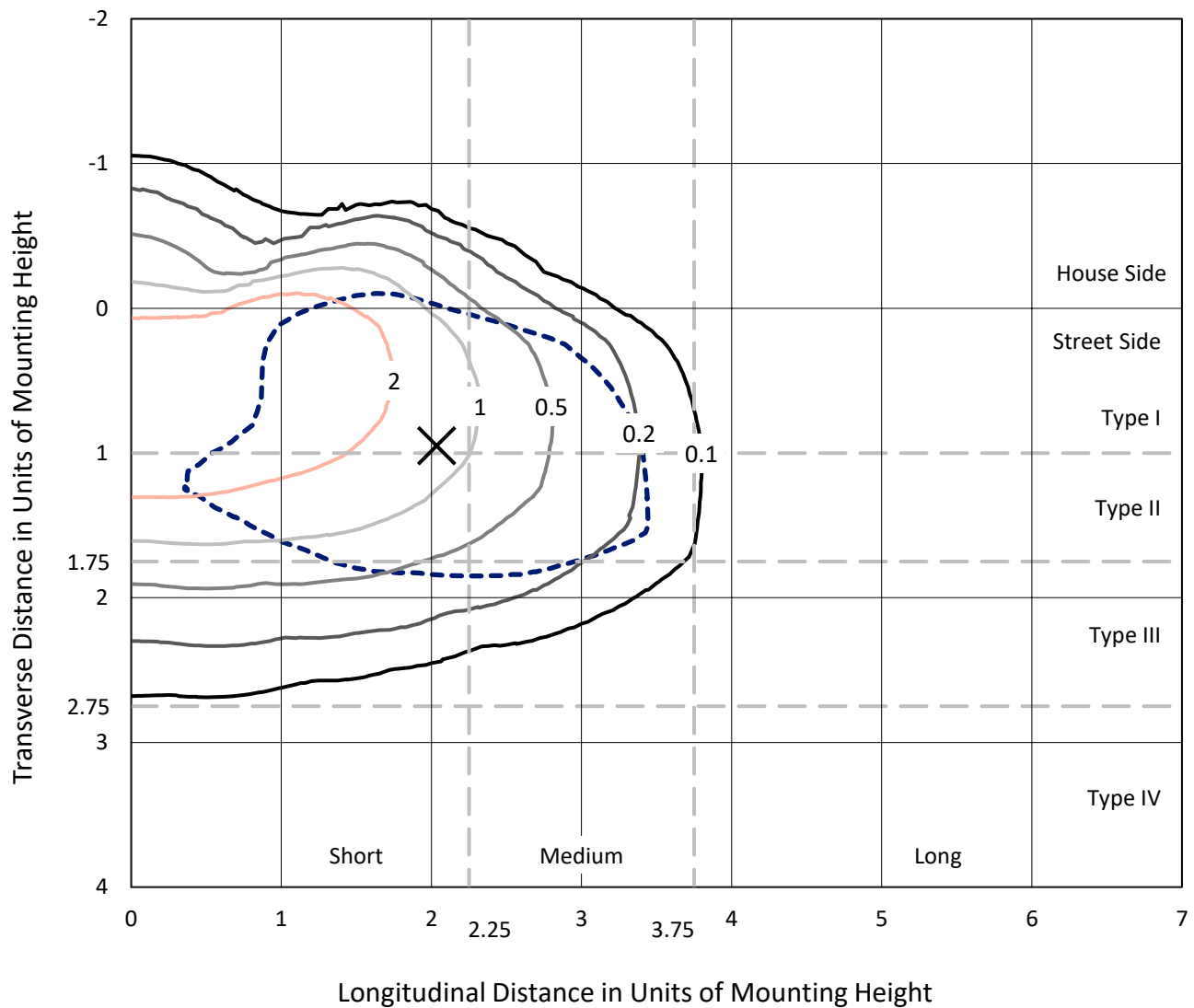
Input Watts (W): 112.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

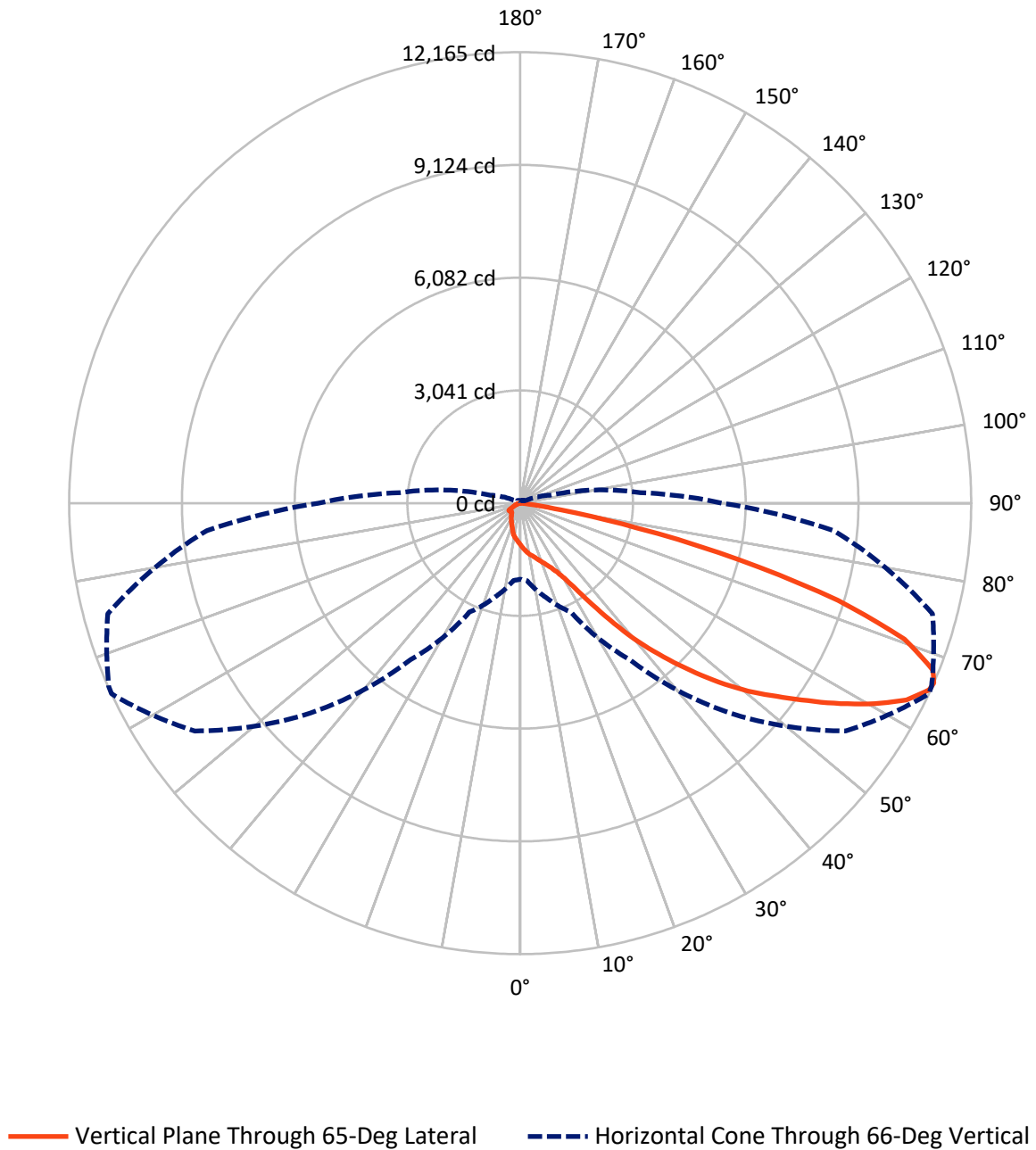
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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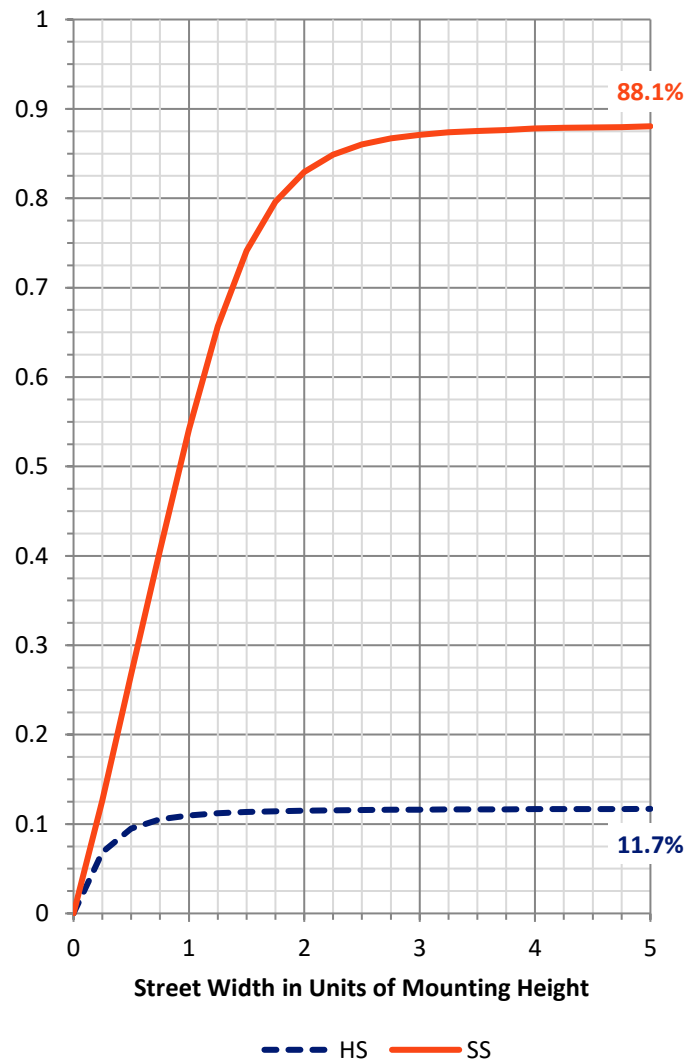
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1625.4	0.0	1625.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	12146.6	0.0	12146.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	13772.0	0.0	13772.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	0.8
10°-20°	314.9	2.3
20°-30°	576.4	4.2
30°-40°	1171.1	8.5
40°-50°	2473.1	18.0
50°-60°	3801.9	27.6
60°-70°	3826.9	27.8
70°-80°	1429.9	10.4
80°-90°	71.4	0.5
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°	13772.0	100.0
0°-180°	13772.0	100.0

Coefficient of Utilization



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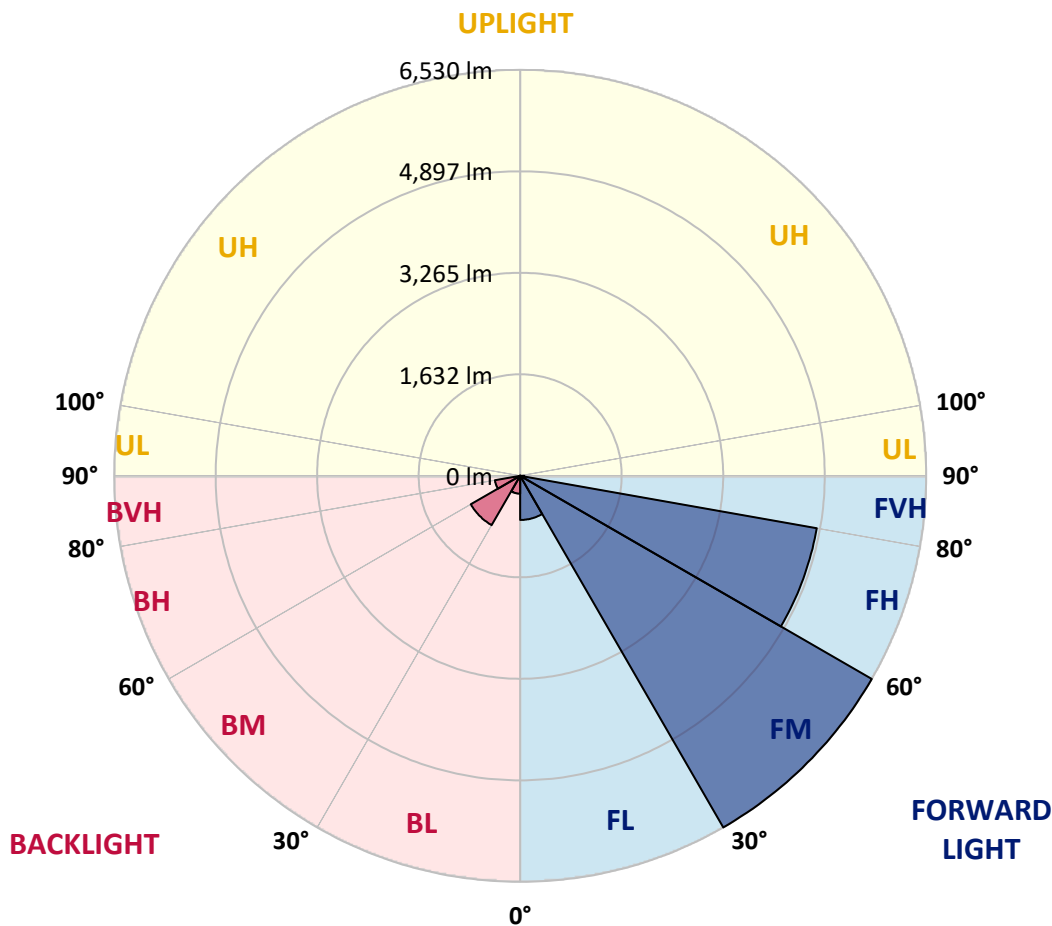
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	709.9	5.2			
FM	(30°-60°)	6529.7	47.4			
FH	(60°-80°)	4843.9	35.2			G2/5000
FVH	(80°-90°)	63.0	0.5			G1/100
BL	(0°-30°)	287.7	2.1	B1/500		
BM	(30°-60°)	916.4	6.7	B1/1000		
BH	(60°-80°)	412.9	3.0	B1/500		G1/500
BVH	(80°-90°)	8.4	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°	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0
2.5°	1279.5	1282.0	1277.0	1267.0	1257.0	1244.5	1224.5	1192.0	1187.0	1164.5	1139.5
5°	1366.9	1371.9	1364.4	1361.9	1356.9	1339.4	1312.0	1264.5	1259.5	1214.5	1157.0
7.5°	1396.9	1404.4	1399.4	1399.4	1399.4	1391.9	1379.4	1336.9	1329.4	1272.0	1184.5
10°	1419.4	1424.4	1421.9	1431.9	1439.4	1434.4	1426.9	1401.9	1394.4	1336.9	1222.0
12.5°	1454.4	1456.9	1459.4	1464.4	1476.9	1481.9	1479.4	1456.9	1451.9	1411.9	1269.5
15°	1486.9	1486.9	1489.4	1511.9	1529.4	1539.4	1541.9	1524.4	1519.4	1486.9	1329.4
17.5°	1516.9	1519.4	1526.9	1551.9	1581.8	1601.8	1614.3	1606.8	1599.3	1574.3	1399.4
20°	1561.8	1566.8	1574.3	1609.3	1639.3	1671.8	1696.8	1694.3	1691.8	1674.3	1481.9
22.5°	1639.3	1644.3	1656.8	1689.3	1719.3	1759.3	1801.7	1799.2	1791.8	1779.3	1579.3
25°	1756.8	1756.8	1764.3	1791.8	1829.2	1876.7	1916.7	1924.2	1916.7	1909.2	1701.8
27.5°	1904.2	1906.7	1906.7	1936.7	1971.7	2031.6	2081.6	2089.1	2089.1	2081.6	1866.7
30°	2109.1	2101.6	2096.6	2121.6	2159.1	2246.6	2334.0	2349.0	2341.5	2354.0	2099.1
32.5°	2461.5	2449.0	2406.5	2411.5	2434.0	2553.9	2701.4	2753.8	2751.3	2773.8	2474.0
35°	2948.8	2923.8	2861.3	2808.8	2806.3	2936.3	3161.2	3358.6	3356.1	3433.6	3043.7
37.5°	3498.5	3531.0	3413.6	3323.6	3296.1	3398.6	3688.5	4115.8	4138.3	4273.2	3790.9
40°	4233.2	4253.2	4103.3	3975.8	3845.9	3883.4	4265.7	4930.4	4970.4	5120.4	4538.1
42.5°	4873.0	4893.0	4805.5	4650.6	4485.6	4415.7	4848.0	5670.1	5702.6	5910.0	5307.8
45°	5307.8	5322.8	5352.8	5367.8	5180.3	5035.4	5560.2	6429.8	6469.8	6709.7	6060.0
47.5°	5647.6	5660.1	5720.1	5870.0	5832.6	5717.6	6284.9	7219.5	7229.5	7496.9	6792.2
50°	5805.1	5835.1	5982.5	6212.4	6377.3	6409.8	7072.0	7966.7	7994.2	8249.0	7484.4
52.5°	5630.1	5640.1	6012.5	6444.8	6777.2	7107.0	7861.7	8658.9	8738.8	8928.8	8106.6
55°	5040.4	5112.9	5677.6	6437.3	7092.0	7769.2	8706.4	9406.1	9478.5	9598.5	8653.9
57.5°	4355.7	4435.6	5122.9	6114.9	7227.0	8381.5	9488.5	10200.7	10250.7	10283.2	9156.2
60°	3763.4	3838.4	4545.6	5497.7	7092.0	8813.8	10215.7	10990.4	11032.9	10945.4	9408.6
62.5°	3036.2	3111.2	3823.4	4680.5	6562.3	8901.3	10755.5	11692.6	11710.1	11472.7	9253.6
65°	2289.0	2339.0	2933.8	3668.5	5635.1	8436.5	10877.9	12129.9	12112.4	11625.1	8788.8
66°	2051.6	2094.1	2618.9	3243.6	5152.8	8011.6	10713.0	12164.9	12147.4	11512.7	8484.0
67.5°	1769.3	1781.8	2214.1	2653.9	4310.7	7109.5	10210.7	12005.0	12020.0	11202.8	7926.7
70°	1381.9	1379.4	1629.3	1846.7	2943.8	5057.9	8516.4	10997.9	11070.4	10033.3	6759.7
72.5°	884.6	854.6	999.6	1129.5	1714.3	2936.3	6209.9	8963.7	9086.2	7881.7	5035.4
75°	527.3	497.3	532.3	564.8	822.2	1411.9	3651.0	6099.9	6217.4	5052.9	2996.2
77.5°	394.8	382.3	384.8	357.4	364.8	529.8	1666.8	3223.7	3308.6	2069.1	1137.0
80°	302.4	269.9	252.4	264.9	239.9	209.9	619.7	1109.5	1162.0	489.8	237.4
82.5°	202.4	174.9	162.4	177.4	152.4	117.5	149.9	214.9	209.9	132.4	92.5
85°	105.0	90.0	90.0	90.0	77.5	57.5	65.0	87.5	87.5	70.0	55.0
87.5°	30.0	27.5	32.5	30.0	22.5	22.5	25.0	30.0	30.0	27.5	25.0
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°	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0
2.5°	1119.5	1109.5	1082.0	1062.1	1042.1	1024.6	1004.6	999.6	989.6	992.1	987.1
5°	1127.0	1099.5	1052.1	1007.1	972.1	942.1	904.6	889.6	869.6	862.1	857.1
7.5°	1137.0	1097.0	1027.1	964.6	904.6	844.6	784.7	749.7	727.2	717.2	709.7
10°	1159.5	1107.0	1014.6	917.1	814.7	729.7	669.7	644.7	629.7	627.2	624.7
12.5°	1189.5	1122.0	1002.1	857.1	722.2	642.2	604.7	597.3	594.8	594.8	592.3
15°	1234.5	1147.0	982.1	787.2	649.7	594.8	577.3	564.8	559.8	559.8	559.8
17.5°	1279.5	1177.0	952.1	714.7	599.7	564.8	547.3	539.8	534.8	537.3	534.8
20°	1336.9	1212.0	912.1	652.2	567.3	539.8	522.3	514.8	512.3	512.3	512.3
22.5°	1401.9	1252.0	862.1	604.7	539.8	514.8	497.3	489.8	484.8	487.3	487.3
25°	1489.4	1302.0	809.7	557.3	512.3	489.8	469.8	459.8	459.8	462.3	464.8
27.5°	1601.8	1361.9	757.2	527.3	487.3	464.8	442.3	432.3	434.8	439.8	439.8
30°	1766.8	1444.4	704.7	494.8	459.8	434.8	414.8	404.8	409.8	419.8	419.8
32.5°	2001.7	1579.3	659.7	457.3	419.8	392.3	372.3	364.8	377.3	397.3	397.3
35°	2421.5	1826.7	632.2	419.8	377.3	344.9	319.9	312.4	329.9	354.9	354.9
37.5°	2983.8	2224.1	642.2	387.3	342.4	304.9	277.4	267.4	279.9	302.4	309.9
40°	3611.0	2703.9	729.7	359.8	309.9	272.4	244.9	234.9	242.4	252.4	254.9
42.5°	4238.2	3213.7	894.6	339.9	284.9	244.9	219.9	212.4	217.4	219.9	222.4
45°	4863.0	3718.4	1102.0	327.4	262.4	222.4	197.4	197.4	199.9	199.9	199.9
47.5°	5455.2	4210.7	1319.4	324.9	242.4	199.9	179.9	182.4	182.4	184.9	184.9
50°	6015.0	4650.6	1539.4	332.4	224.9	179.9	164.9	164.9	164.9	167.4	164.9
52.5°	6482.3	5035.4	1769.3	344.9	207.4	164.9	149.9	149.9	149.9	152.4	149.9
55°	6924.6	5385.2	2004.2	362.3	192.4	152.4	137.4	132.4	132.4	134.9	132.4
57.5°	7284.5	5617.6	2226.6	364.8	179.9	139.9	127.4	119.9	119.9	119.9	119.9
60°	7299.4	5482.7	2291.5	319.9	164.9	127.4	115.0	105.0	107.5	107.5	107.5
62.5°	6822.1	4773.0	1841.7	239.9	147.4	115.0	105.0	95.0	95.0	95.0	95.0
65°	5885.0	3713.4	1079.5	189.9	127.4	102.5	92.5	85.0	85.0	85.0	82.5
66°	5445.2	3256.1	827.2	172.4	119.9	100.0	90.0	82.5	80.0	77.5	77.5
67.5°	4728.0	2573.9	517.3	152.4	110.0	92.5	82.5	75.0	72.5	70.0	70.0
70°	3561.0	1634.3	252.4	117.5	95.0	80.0	72.5	65.0	62.5	60.0	57.5
72.5°	2499.0	957.1	132.4	90.0	77.5	70.0	62.5	55.0	52.5	50.0	50.0
75°	1411.9	462.3	87.5	65.0	62.5	57.5	52.5	45.0	42.5	42.5	42.5
77.5°	534.8	159.9	60.0	47.5	50.0	45.0	37.5	37.5	35.0	37.5	35.0
80°	139.9	70.0	37.5	35.0	37.5	32.5	27.5	30.0	30.0	30.0	30.0
82.5°	75.0	40.0	22.5	25.0	22.5	22.5	17.5	20.0	22.5	20.0	22.5
85°	52.5	20.0	12.5	12.5	10.0	10.0	7.5	10.0	12.5	10.0	10.0
87.5°	27.5	7.5	7.5	7.5	7.5	5.0	2.5	0.0	2.5	2.5	2.5
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)