

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: P1210906

Luminaire Tested: **ARCH4-110-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210906
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: ARCH4-110-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 12657 lumens
Efficiency: N/A
Efficacy: 112.4 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



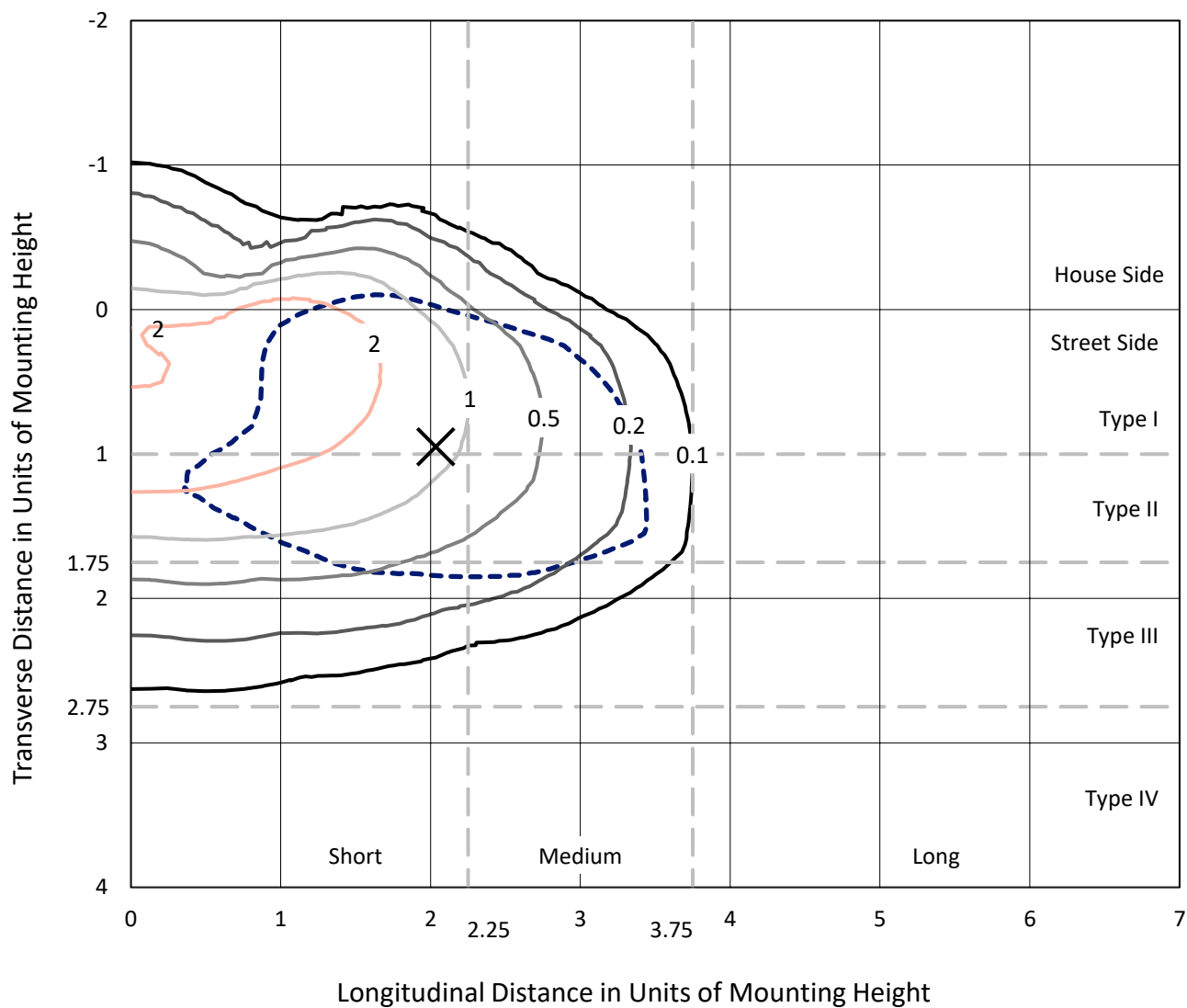
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

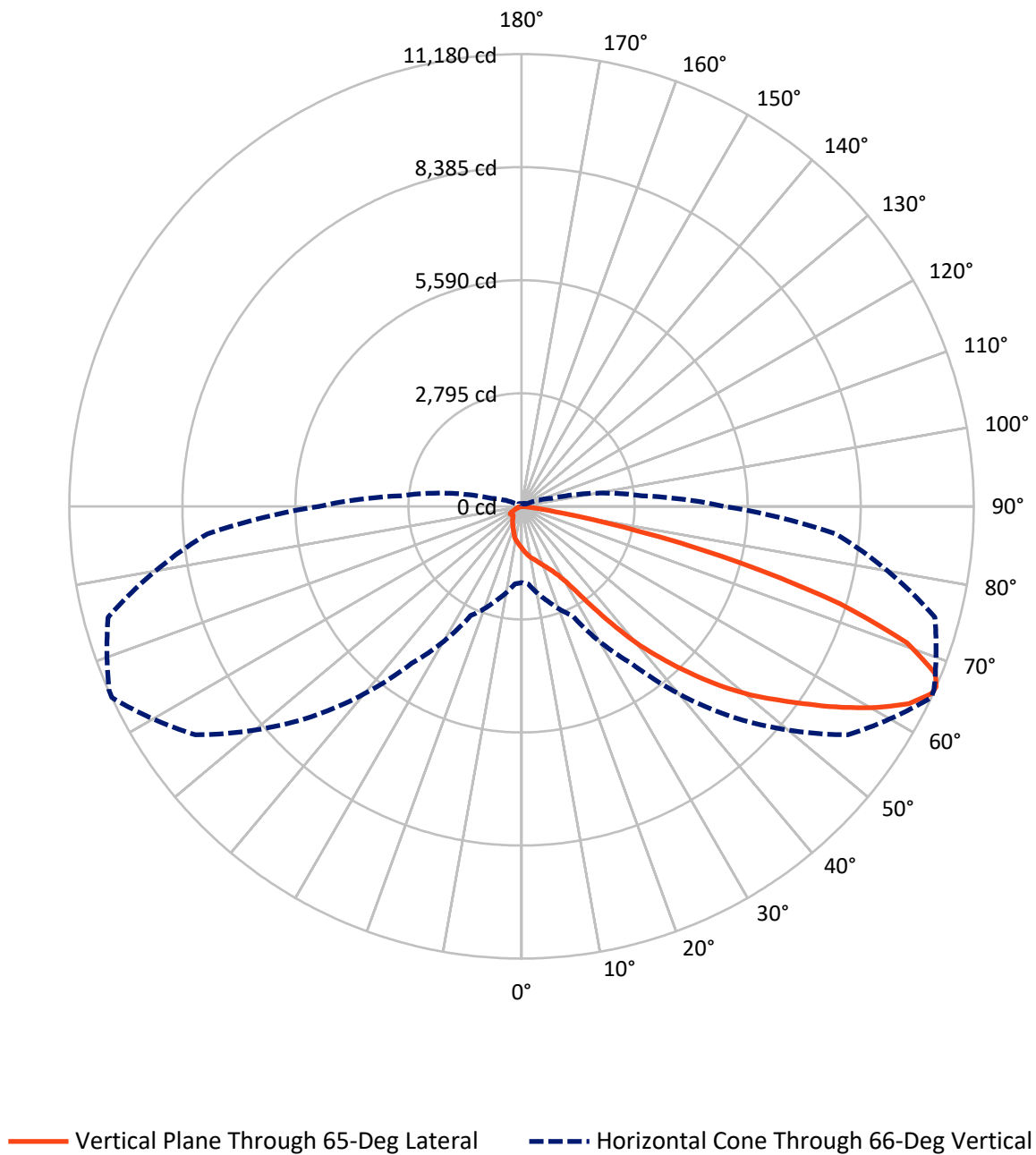
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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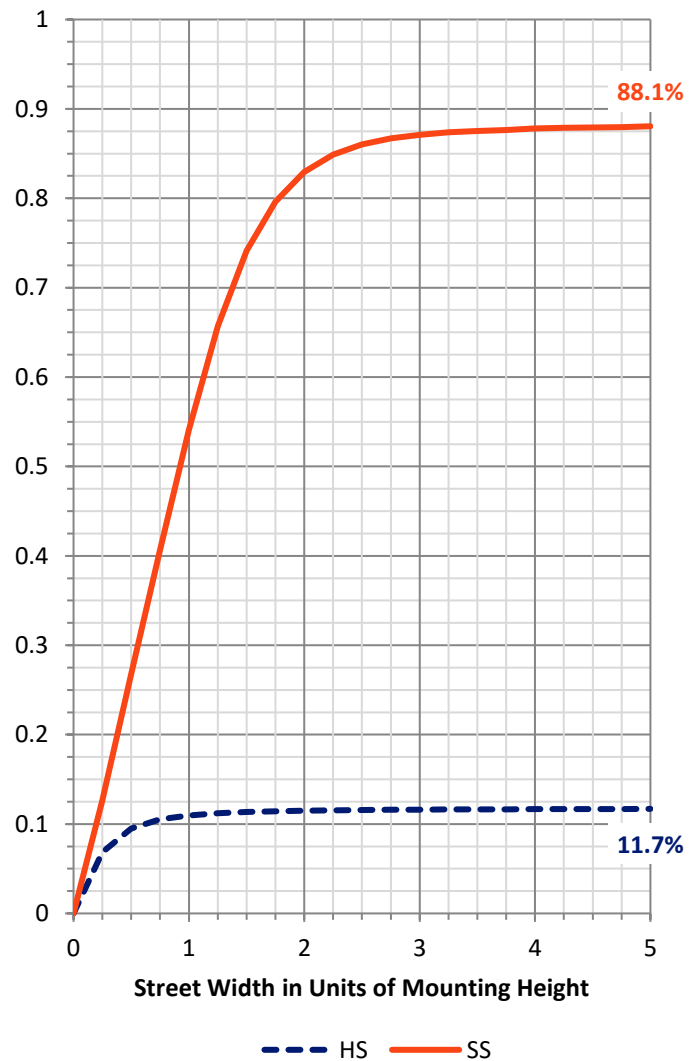
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1493.8	0.0	1493.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	11163.2	0.0	11163.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	12657.0	0.0	12657.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.8	0.8
10°-20°	289.4	2.3
20°-30°	529.7	4.2
30°-40°	1076.3	8.5
40°-50°	2272.9	18.0
50°-60°	3494.1	27.6
60°-70°	3517.1	27.8
70°-80°	1314.2	10.4
80°-90°	65.7	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°	12657.0	100.0
0°-180°	12657.0	100.0

Coefficient of Utilization



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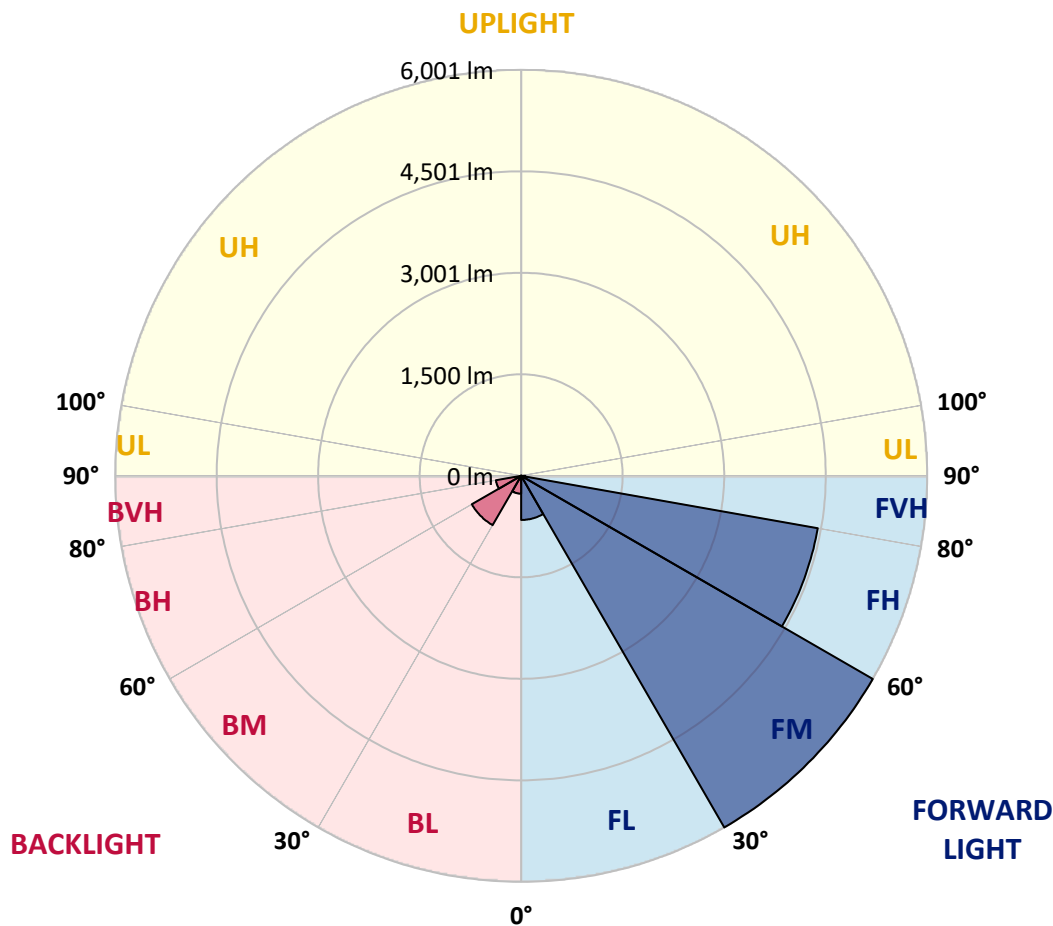
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	652.4	5.2			
FM	(30°-60°)	6001.1	47.4			
FH	(60°-80°)	4451.8	35.2			G2/5000
FVH	(80°-90°)	57.9	0.5			G1/100
BL	(0°-30°)	264.4	2.1	B1/500		
BM	(30°-60°)	842.2	6.7	B1/1000		
BH	(60°-80°)	379.5	3.0	B1/500		G1/500
BVH	(80°-90°)	7.7	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°	1031.2	1031.2	1031.2	1031.2	1031.2	1031.2	1031.2	1031.2	1031.2	1031.2	1031.2
2.5°	1175.9	1178.2	1173.6	1164.4	1155.2	1143.7	1125.4	1095.5	1090.9	1070.2	1047.3
5°	1256.3	1260.9	1254.0	1251.7	1247.1	1231.0	1205.7	1162.1	1157.5	1116.2	1063.3
7.5°	1283.8	1290.7	1286.1	1286.1	1286.1	1279.2	1267.7	1228.7	1221.8	1169.0	1088.6
10°	1304.5	1309.1	1306.8	1316.0	1322.9	1318.3	1311.4	1288.4	1281.5	1228.7	1123.1
12.5°	1336.6	1338.9	1341.2	1345.8	1357.3	1361.9	1359.6	1338.9	1334.3	1297.6	1166.7
15°	1366.5	1366.5	1368.8	1389.5	1405.5	1414.7	1417.0	1400.9	1396.4	1366.5	1221.8
17.5°	1394.1	1396.4	1403.2	1426.2	1453.8	1472.1	1483.6	1476.7	1469.8	1446.9	1286.1
20°	1435.4	1440.0	1446.9	1479.0	1506.6	1536.4	1559.4	1557.1	1554.8	1538.7	1361.9
22.5°	1506.6	1511.2	1522.7	1552.5	1580.1	1616.8	1655.9	1653.6	1646.7	1635.2	1451.5
25°	1614.5	1614.5	1621.4	1646.7	1681.1	1724.8	1761.5	1768.4	1761.5	1754.6	1564.0
27.5°	1750.0	1752.3	1752.3	1779.9	1812.0	1867.2	1913.1	1920.0	1920.0	1913.1	1715.6
30°	1938.4	1931.5	1926.9	1949.8	1984.3	2064.7	2145.1	2158.8	2151.9	2163.4	1929.2
32.5°	2262.2	2250.7	2211.7	2216.3	2236.9	2347.2	2482.7	2530.9	2528.6	2549.3	2273.7
35°	2710.0	2687.1	2629.6	2581.4	2579.1	2698.5	2905.2	3086.7	3084.4	3155.6	2797.3
37.5°	3215.3	3245.1	3137.2	3054.5	3029.3	3123.4	3389.8	3782.6	3803.2	3927.2	3484.0
40°	3890.5	3908.9	3771.1	3653.9	3534.5	3569.0	3920.4	4531.3	4568.0	4705.8	4170.7
42.5°	4478.4	4496.8	4416.4	4274.0	4122.5	4058.2	4455.5	5211.1	5240.9	5431.5	4878.1
45°	4878.1	4891.8	4919.4	4933.2	4760.9	4627.7	5110.0	5909.2	5946.0	6166.5	5569.3
47.5°	5190.4	5201.9	5257.0	5394.8	5360.3	5254.7	5776.0	6635.0	6644.2	6889.9	6242.3
50°	5335.1	5362.6	5498.1	5709.4	5861.0	5890.9	6499.5	7321.7	7346.9	7581.2	6878.4
52.5°	5174.3	5183.5	5525.7	5923.0	6228.5	6531.6	7225.2	7957.8	8031.3	8205.9	7450.3
55°	4632.3	4698.9	5218.0	5916.1	6517.9	7140.2	8001.5	8644.5	8711.1	8821.4	7953.2
57.5°	4003.0	4076.5	4708.1	5619.9	6641.9	7702.9	8720.3	9374.9	9420.8	9450.7	8414.9
60°	3458.7	3527.6	4177.6	5052.6	6517.9	8100.2	9388.6	10100.6	10139.6	10059.3	8646.8
62.5°	2790.4	2859.3	3513.9	4301.6	6031.0	8180.6	9884.7	10746.0	10762.0	10543.9	8504.4
65°	2103.7	2149.7	2696.3	3371.5	5178.9	7753.4	9997.3	11147.9	11131.8	10683.9	8077.3
66°	1885.5	1924.6	2406.9	2981.0	4735.7	7363.0	9845.7	11180.0	11163.9	10580.6	7797.1
67.5°	1626.0	1637.5	2034.8	2439.0	3961.7	6533.9	9384.1	11033.0	11046.8	10295.8	7284.9
70°	1270.0	1267.7	1497.4	1697.2	2705.4	4648.4	7826.9	10107.5	10174.1	9221.0	6212.4
72.5°	813.0	785.4	918.7	1038.1	1575.5	2698.5	5707.1	8238.0	8350.6	7243.6	4627.7
75°	484.6	457.0	489.2	519.0	755.6	1297.6	3355.4	5606.1	5714.0	4643.8	2753.7
77.5°	362.9	351.4	353.7	328.4	335.3	486.9	1531.9	2962.7	3040.7	1901.6	1045.0
80°	277.9	248.0	232.0	243.4	220.5	192.9	569.6	1019.7	1067.9	450.1	218.2
82.5°	186.0	160.8	149.3	163.1	140.1	107.9	137.8	197.5	192.9	121.7	85.0
85°	96.5	82.7	82.7	82.7	71.2	52.8	59.7	80.4	80.4	64.3	50.5
87.5°	27.6	25.3	29.9	27.6	20.7	20.7	23.0	27.6	27.6	25.3	23.0
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°	1031.2	1031.2	1031.2	1031.2	1031.2	1031.2	1031.2	1031.2	1031.2	1031.2	1031.2
2.5°	1028.9	1019.7	994.4	976.1	957.7	941.6	923.2	918.7	909.5	911.8	907.2
5°	1035.8	1010.5	966.9	925.5	893.4	865.8	831.4	817.6	799.2	792.3	787.7
7.5°	1045.0	1008.2	943.9	886.5	831.4	776.3	721.1	689.0	668.3	659.1	652.2
10°	1065.6	1017.4	932.4	842.9	748.7	670.6	615.5	592.5	578.8	576.5	574.2
12.5°	1093.2	1031.2	921.0	787.7	663.7	590.2	555.8	548.9	546.6	546.6	544.3
15°	1134.5	1054.2	902.6	723.4	597.1	546.6	530.5	519.0	514.4	514.4	514.4
17.5°	1175.9	1081.7	875.0	656.8	551.2	519.0	503.0	496.1	491.5	493.8	491.5
20°	1228.7	1113.9	838.3	599.4	521.3	496.1	480.0	473.1	470.8	470.8	470.8
22.5°	1288.4	1150.6	792.3	555.8	496.1	473.1	457.0	450.1	445.5	447.8	447.8
25°	1368.8	1196.5	744.1	512.1	470.8	450.1	431.8	422.6	422.6	424.9	427.2
27.5°	1472.1	1251.7	695.9	484.6	447.8	427.2	406.5	397.3	399.6	404.2	404.2
30°	1623.7	1327.5	647.7	454.7	422.6	399.6	381.2	372.1	376.6	385.8	385.8
32.5°	1839.6	1451.5	606.3	420.3	385.8	360.6	342.2	335.3	346.8	365.2	365.2
35°	2225.4	1678.8	581.0	385.8	346.8	316.9	294.0	287.1	303.2	326.1	326.1
37.5°	2742.2	2044.0	590.2	356.0	314.6	280.2	254.9	245.7	257.2	277.9	284.8
40°	3318.6	2485.0	670.6	330.7	284.8	250.3	225.1	215.9	222.8	232.0	234.3
42.5°	3895.1	2953.5	822.2	312.3	261.8	225.1	202.1	195.2	199.8	202.1	204.4
45°	4469.3	3417.4	1012.8	300.9	241.1	204.4	181.4	181.4	183.7	183.7	183.7
47.5°	5013.6	3869.8	1212.6	298.6	222.8	183.7	165.4	167.7	167.7	170.0	170.0
50°	5528.0	4274.0	1414.7	305.5	206.7	165.4	151.6	151.6	151.6	153.9	151.6
52.5°	5957.5	4627.7	1626.0	316.9	190.6	151.6	137.8	137.8	137.8	140.1	137.8
55°	6364.0	4949.2	1841.9	333.0	176.8	140.1	126.3	121.7	121.7	124.0	121.7
57.5°	6694.7	5162.8	2046.3	335.3	165.4	128.6	117.1	110.2	110.2	110.2	110.2
60°	6708.5	5038.8	2106.0	294.0	151.6	117.1	105.6	96.5	98.8	98.8	98.8
62.5°	6269.8	4386.6	1692.6	220.5	135.5	105.6	96.5	87.3	87.3	87.3	87.3
65°	5408.6	3412.8	992.1	174.5	117.1	94.2	85.0	78.1	78.1	78.1	75.8
66°	5004.4	2992.5	760.2	158.5	110.2	91.9	82.7	75.8	73.5	71.2	71.2
67.5°	4345.2	2365.5	475.4	140.1	101.1	85.0	75.8	68.9	66.6	64.3	64.3
70°	3272.7	1502.0	232.0	107.9	87.3	73.5	66.6	59.7	57.4	55.1	52.8
72.5°	2296.6	879.6	121.7	82.7	71.2	64.3	57.4	50.5	48.2	45.9	45.9
75°	1297.6	424.9	80.4	59.7	57.4	52.8	48.2	41.3	39.0	39.0	39.0
77.5°	491.5	147.0	55.1	43.6	45.9	41.3	34.4	34.4	32.2	34.4	32.2
80°	128.6	64.3	34.4	32.2	34.4	29.9	25.3	27.6	27.6	27.6	27.6
82.5°	68.9	36.7	20.7	23.0	20.7	20.7	16.1	18.4	20.7	18.4	20.7
85°	48.2	18.4	11.5	11.5	9.2	9.2	6.9	9.2	11.5	9.2	9.2
87.5°	25.3	6.9	6.9	6.9	6.9	4.6	2.3	0.0	2.3	2.3	2.3
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)