

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: P1210570

Luminaire Tested: **ARCH3-160-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210570
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: ARCH3-160-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16106 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 161
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

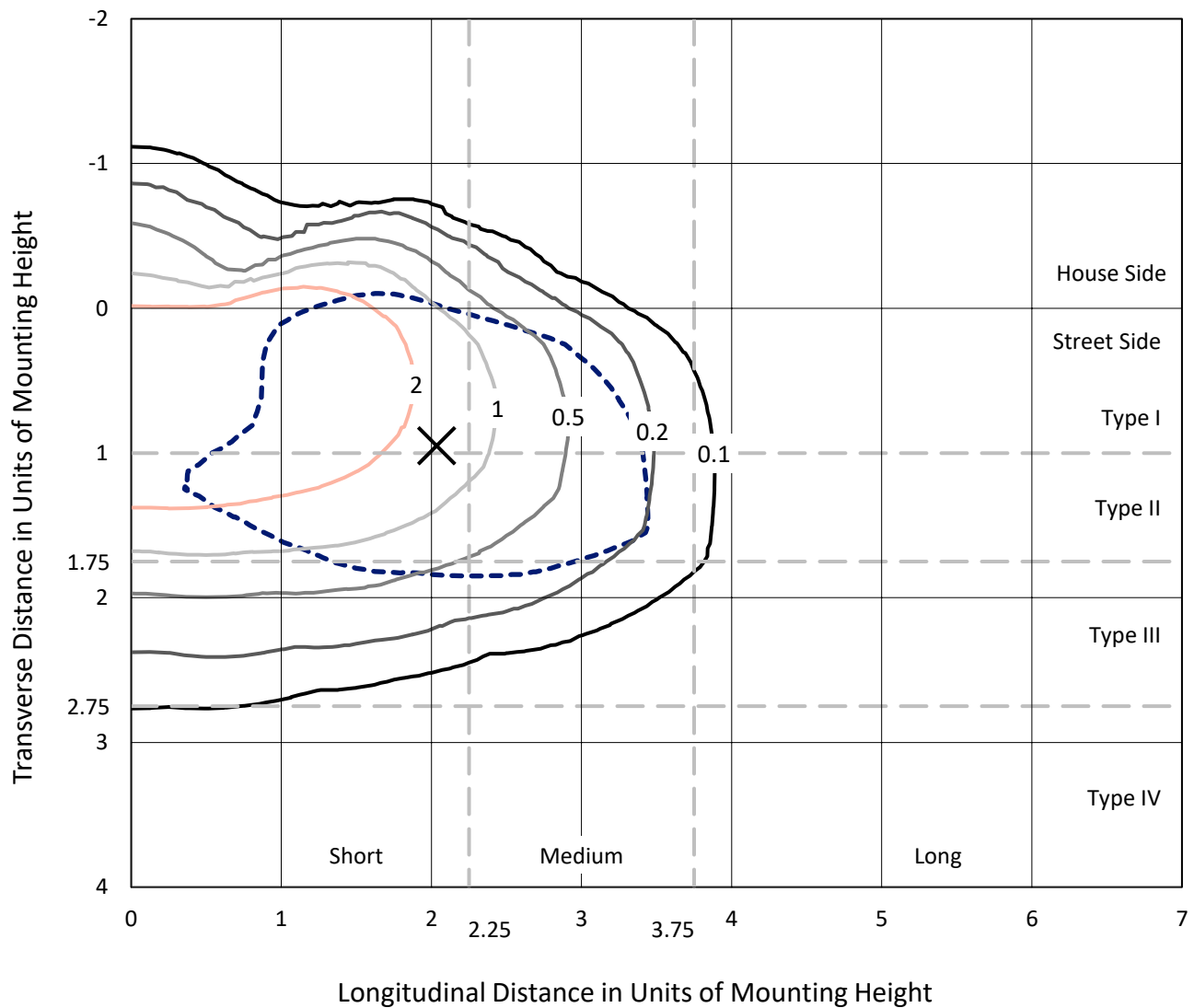


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

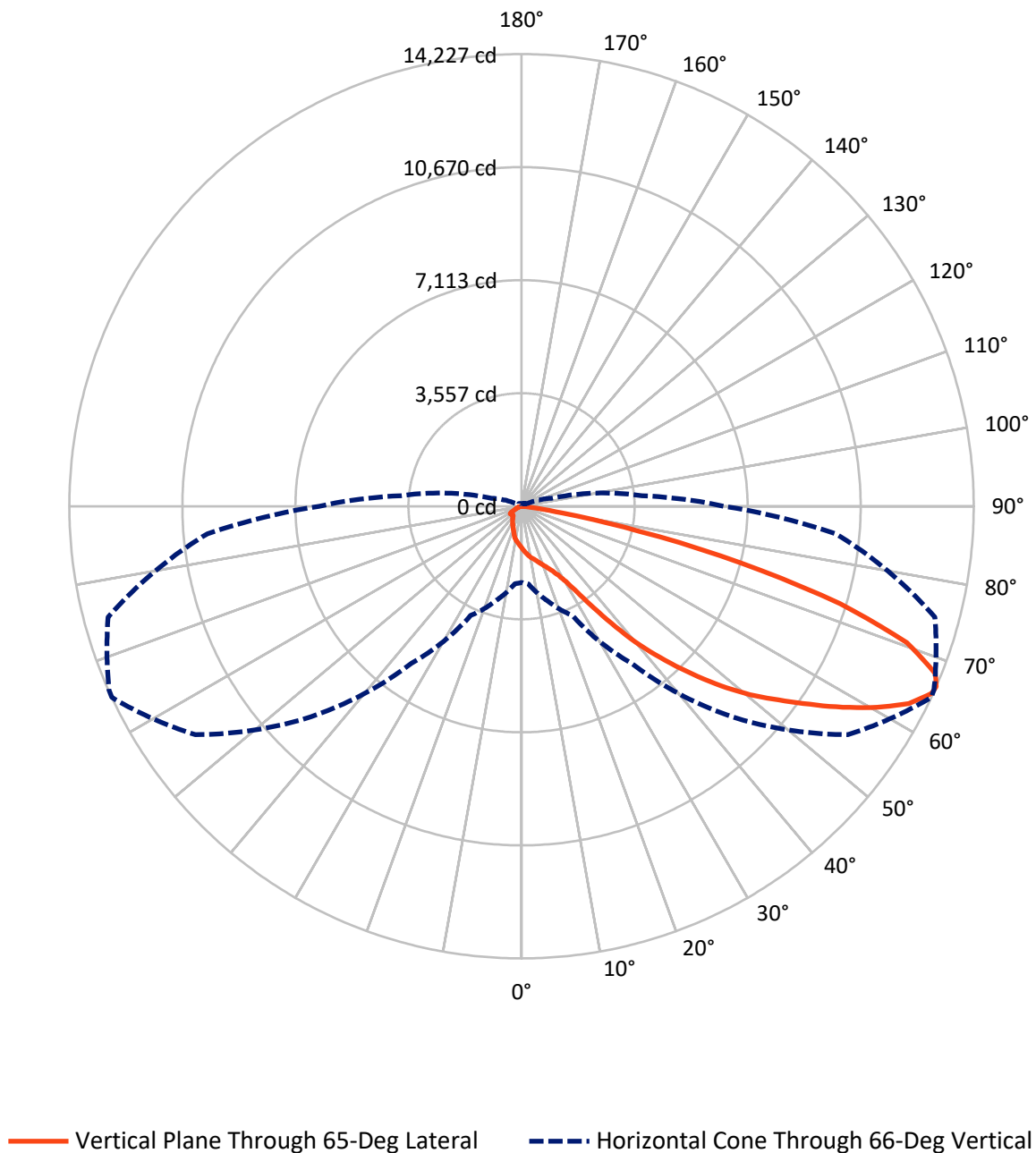


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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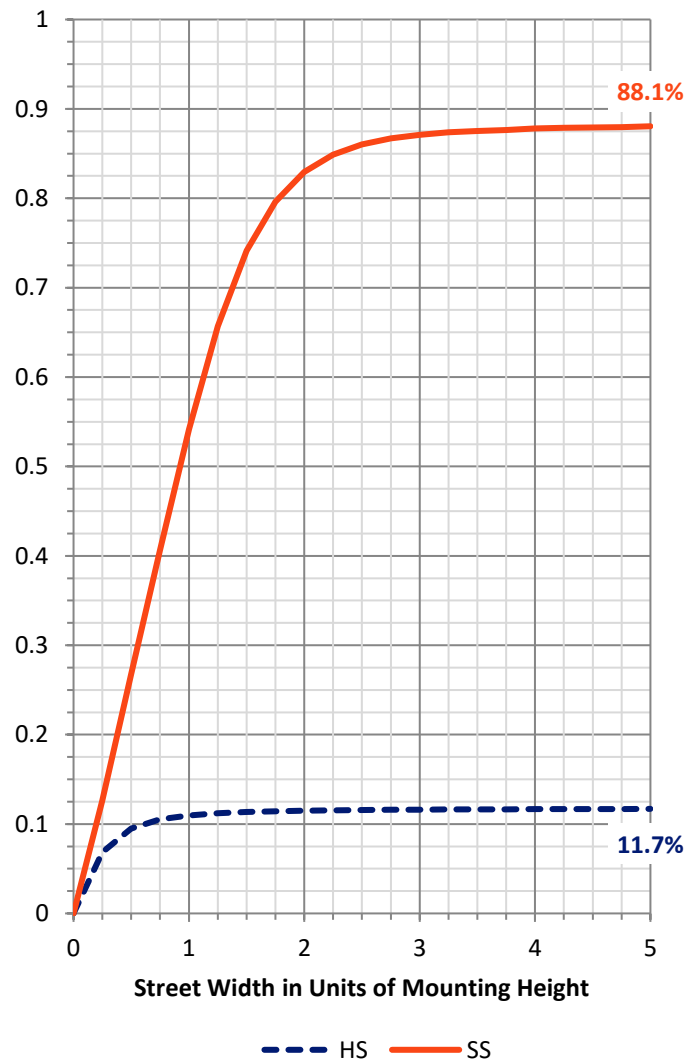
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1900.8	0.0	1900.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	14205.2	0.0	14205.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	16106.0	0.0	16106.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.4	0.8
10°-20°	368.3	2.3
20°-30°	674.0	4.2
30°-40°	1369.6	8.5
40°-50°	2892.2	18.0
50°-60°	4446.3	27.6
60°-70°	4475.5	27.8
70°-80°	1672.3	10.4
80°-90°	83.5	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°	16106.0	100.0
0°-180°	16106.0	100.0

Coefficient of Utilization



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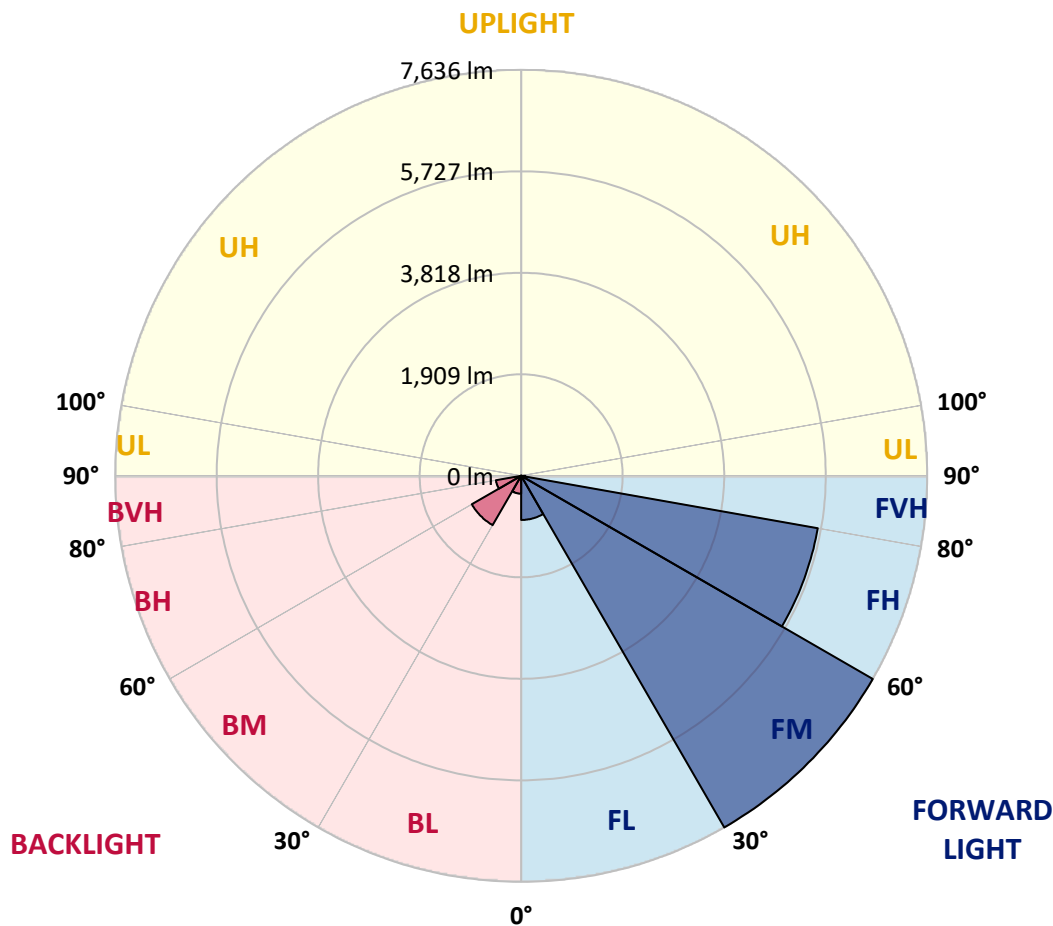
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	830.2	5.2			
FM	(30°-60°)	7636.3	47.4			
FH	(60°-80°)	5664.9	35.2			G3/7500
FVH	(80°-90°)	73.7	0.5			G1/100
BL	(0°-30°)	336.4	2.1	B1/500		
BM	(30°-60°)	1071.7	6.7	B2/2500		
BH	(60°-80°)	482.9	3.0	B1/500		G1/500
BVH	(80°-90°)	9.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2
2.5°	1496.3	1499.2	1493.4	1481.7	1470.0	1455.4	1432.0	1394.0	1388.2	1361.9	1332.6
5°	1598.6	1604.4	1595.7	1592.7	1586.9	1566.4	1534.3	1478.8	1472.9	1420.3	1353.1
7.5°	1633.7	1642.4	1636.6	1636.6	1636.6	1627.8	1613.2	1563.5	1554.8	1487.5	1385.2
10°	1660.0	1665.8	1662.9	1674.6	1683.3	1677.5	1668.7	1639.5	1630.7	1563.5	1429.1
12.5°	1700.9	1703.8	1706.7	1712.6	1727.2	1733.0	1730.1	1703.8	1698.0	1651.2	1484.6
15°	1738.9	1738.9	1741.8	1768.1	1788.5	1800.2	1803.2	1782.7	1776.9	1738.9	1554.8
17.5°	1773.9	1776.9	1785.6	1814.8	1849.9	1873.3	1887.9	1879.1	1870.4	1841.2	1636.6
20°	1826.5	1832.4	1841.2	1882.1	1917.1	1955.1	1984.4	1981.4	1978.5	1958.1	1733.0
22.5°	1917.1	1923.0	1937.6	1975.6	2010.7	2057.4	2107.1	2104.2	2095.4	2080.8	1847.0
25°	2054.5	2054.5	2063.3	2095.4	2139.2	2194.8	2241.5	2250.3	2241.5	2232.8	1990.2
27.5°	2226.9	2229.8	2229.8	2264.9	2305.8	2376.0	2434.4	2443.2	2443.2	2434.4	2183.1
30°	2466.6	2457.8	2451.9	2481.2	2525.0	2627.3	2729.6	2747.1	2738.3	2753.0	2454.9
32.5°	2878.6	2864.0	2814.3	2820.2	2846.5	2986.8	3159.2	3220.6	3217.6	3243.9	2893.2
35°	3448.5	3419.3	3346.2	3284.8	3281.9	3433.9	3696.9	3927.8	3924.9	4015.5	3559.6
37.5°	4091.4	4129.4	3992.1	3886.9	3854.7	3974.5	4313.6	4813.3	4839.6	4997.4	4433.4
40°	4950.7	4974.0	4798.7	4649.6	4497.7	4541.5	4988.6	5766.0	5812.8	5988.1	5307.2
42.5°	5698.8	5722.2	5619.9	5438.7	5245.8	5164.0	5669.6	6631.1	6669.1	6911.6	6207.3
45°	6207.3	6224.8	6259.9	6277.5	6058.3	5888.8	6502.5	7519.5	7566.3	7846.8	7087.0
47.5°	6604.8	6619.4	6689.5	6864.9	6821.0	6686.6	7350.0	8443.0	8454.7	8767.4	7943.3
50°	6788.9	6824.0	6996.4	7265.2	7458.1	7496.1	8270.6	9316.8	9349.0	9647.1	8752.8
52.5°	6584.3	6596.0	7031.4	7537.0	7925.7	8311.5	9194.1	10126.3	10219.9	10442.0	9480.5
55°	5894.6	5979.4	6639.8	7528.3	8293.9	9085.9	10181.9	11000.2	11084.9	11225.2	10120.5
57.5°	5093.9	5187.4	5991.0	7151.3	8451.8	9801.9	11096.6	11929.5	11987.9	12025.9	10707.9
60°	4401.2	4488.9	5316.0	6429.4	8293.9	10307.5	11947.0	12853.0	12902.7	12800.4	11003.1
62.5°	3550.8	3638.5	4471.4	5473.8	7674.4	10409.8	12578.3	13674.2	13694.7	13417.0	10821.9
65°	2677.0	2735.4	3431.0	4290.2	6590.2	9866.2	12721.5	14185.6	14165.2	13595.3	10278.3
66°	2399.3	2449.0	3062.7	3793.4	6026.1	9369.4	12528.6	14226.5	14206.1	13463.8	9921.8
67.5°	2069.1	2083.7	2589.3	3103.7	5041.2	8314.4	11941.2	14039.5	14057.0	13101.4	9270.1
70°	1616.1	1613.2	1905.4	2159.7	3442.7	5915.1	9959.8	12861.8	12946.5	11733.7	7905.3
72.5°	1034.6	999.5	1169.0	1321.0	2004.8	3433.9	7262.3	10482.9	10626.1	9217.4	5888.8
75°	616.6	581.6	622.5	660.5	961.5	1651.2	4269.7	7133.7	7271.1	5909.2	3504.0
77.5°	461.7	447.1	450.1	417.9	426.7	619.6	1949.3	3770.0	3869.3	2419.8	1329.7
80°	353.6	315.6	295.2	309.8	280.6	245.5	724.8	1297.6	1358.9	572.8	277.6
82.5°	236.7	204.6	190.0	207.5	178.3	137.4	175.3	251.3	245.5	154.9	108.1
85°	122.7	105.2	105.2	105.2	90.6	67.2	76.0	102.3	102.3	81.8	64.3
87.5°	35.1	32.1	38.0	35.1	26.3	26.3	29.2	35.1	35.1	32.1	29.2
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°	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2
2.5°	1309.3	1297.6	1265.4	1242.0	1218.7	1198.2	1174.8	1169.0	1157.3	1160.2	1154.4
5°	1318.0	1285.9	1230.4	1177.8	1136.8	1101.8	1057.9	1040.4	1017.0	1008.2	1002.4
7.5°	1329.7	1283.0	1201.1	1128.1	1057.9	987.8	917.7	876.7	850.4	838.7	830.0
10°	1356.0	1294.7	1186.5	1072.5	952.7	853.4	783.2	754.0	736.5	733.5	730.6
12.5°	1391.1	1312.2	1171.9	1002.4	844.6	751.1	707.2	698.5	695.5	695.5	692.6
15°	1443.7	1341.4	1148.5	920.6	759.8	695.5	675.1	660.5	654.6	654.6	654.6
17.5°	1496.3	1376.5	1113.5	835.8	701.4	660.5	640.0	631.3	625.4	628.3	625.4
20°	1563.5	1417.4	1066.7	762.8	663.4	631.3	610.8	602.0	599.1	599.1	599.1
22.5°	1639.5	1464.2	1008.2	707.2	631.3	602.0	581.6	572.8	567.0	569.9	569.9
25°	1741.8	1522.6	946.9	651.7	599.1	572.8	549.4	537.7	537.7	540.7	543.6
27.5°	1873.3	1592.7	885.5	616.6	569.9	543.6	517.3	505.6	508.5	514.4	514.4
30°	2066.2	1689.2	824.1	578.6	537.7	508.5	485.1	473.4	479.3	491.0	491.0
32.5°	2340.9	1847.0	771.5	534.8	491.0	458.8	435.4	426.7	441.3	464.7	464.7
35°	2831.9	2136.3	739.4	491.0	441.3	403.3	374.1	365.3	385.8	415.0	415.0
37.5°	3489.4	2601.0	751.1	453.0	400.4	356.5	324.4	312.7	327.3	353.6	362.4
40°	4223.0	3162.1	853.4	420.8	362.4	318.5	286.4	274.7	283.5	295.2	298.1
42.5°	4956.5	3758.3	1046.2	397.5	333.2	286.4	257.2	248.4	254.3	257.2	260.1
45°	5687.1	4348.6	1288.8	382.8	306.9	260.1	230.9	230.9	233.8	233.8	233.8
47.5°	6379.7	4924.4	1543.1	379.9	283.5	233.8	210.4	213.3	213.3	216.3	216.3
50°	7034.4	5438.7	1800.2	388.7	263.0	210.4	192.9	192.9	192.9	195.8	192.9
52.5°	7580.9	5888.8	2069.1	403.3	242.6	192.9	175.3	175.3	175.3	178.3	175.3
55°	8098.1	6297.9	2343.8	423.8	225.0	178.3	160.7	154.9	154.9	157.8	154.9
57.5°	8519.0	6569.7	2603.9	426.7	210.4	163.7	149.0	140.3	140.3	140.3	140.3
60°	8536.5	6411.9	2679.9	374.1	192.9	149.0	134.4	122.7	125.7	125.7	125.7
62.5°	7978.3	5581.9	2153.9	280.6	172.4	134.4	122.7	111.1	111.1	111.1	111.1
65°	6882.4	4342.8	1262.5	222.1	149.0	119.8	108.1	99.4	99.4	99.4	96.4
66°	6368.0	3808.0	967.3	201.6	140.3	116.9	105.2	96.4	93.5	90.6	90.6
67.5°	5529.3	3010.1	604.9	178.3	128.6	108.1	96.4	87.7	84.8	81.8	81.8
70°	4164.5	1911.3	295.2	137.4	111.1	93.5	84.8	76.0	73.1	70.1	67.2
72.5°	2922.5	1119.3	154.9	105.2	90.6	81.8	73.1	64.3	61.4	58.4	58.4
75°	1651.2	540.7	102.3	76.0	73.1	67.2	61.4	52.6	49.7	49.7	49.7
77.5°	625.4	187.0	70.1	55.5	58.4	52.6	43.8	43.8	40.9	43.8	40.9
80°	163.7	81.8	43.8	40.9	43.8	38.0	32.1	35.1	35.1	35.1	35.1
82.5°	87.7	46.8	26.3	29.2	26.3	26.3	20.5	23.4	26.3	23.4	26.3
85°	61.4	23.4	14.6	14.6	11.7	11.7	8.8	11.7	14.6	11.7	11.7
87.5°	32.1	8.8	8.8	8.8	8.8	5.8	2.9	0.0	2.9	2.9	2.9
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)