

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: P1210490

Luminaire Tested: **ARCH3-140-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210490
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: ARCH3-140-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1110mA 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: 13595 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

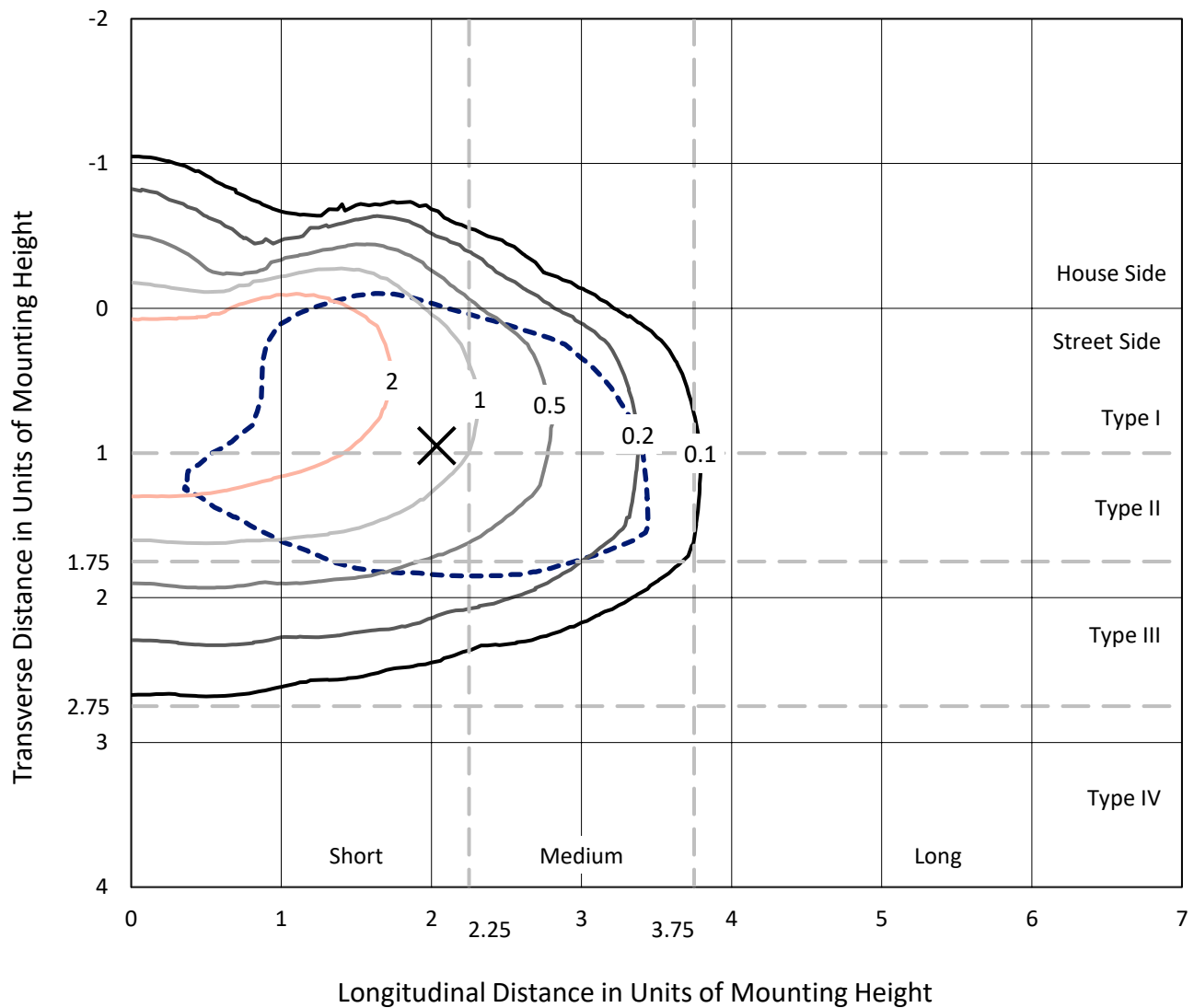
Input Watts (W): 142.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

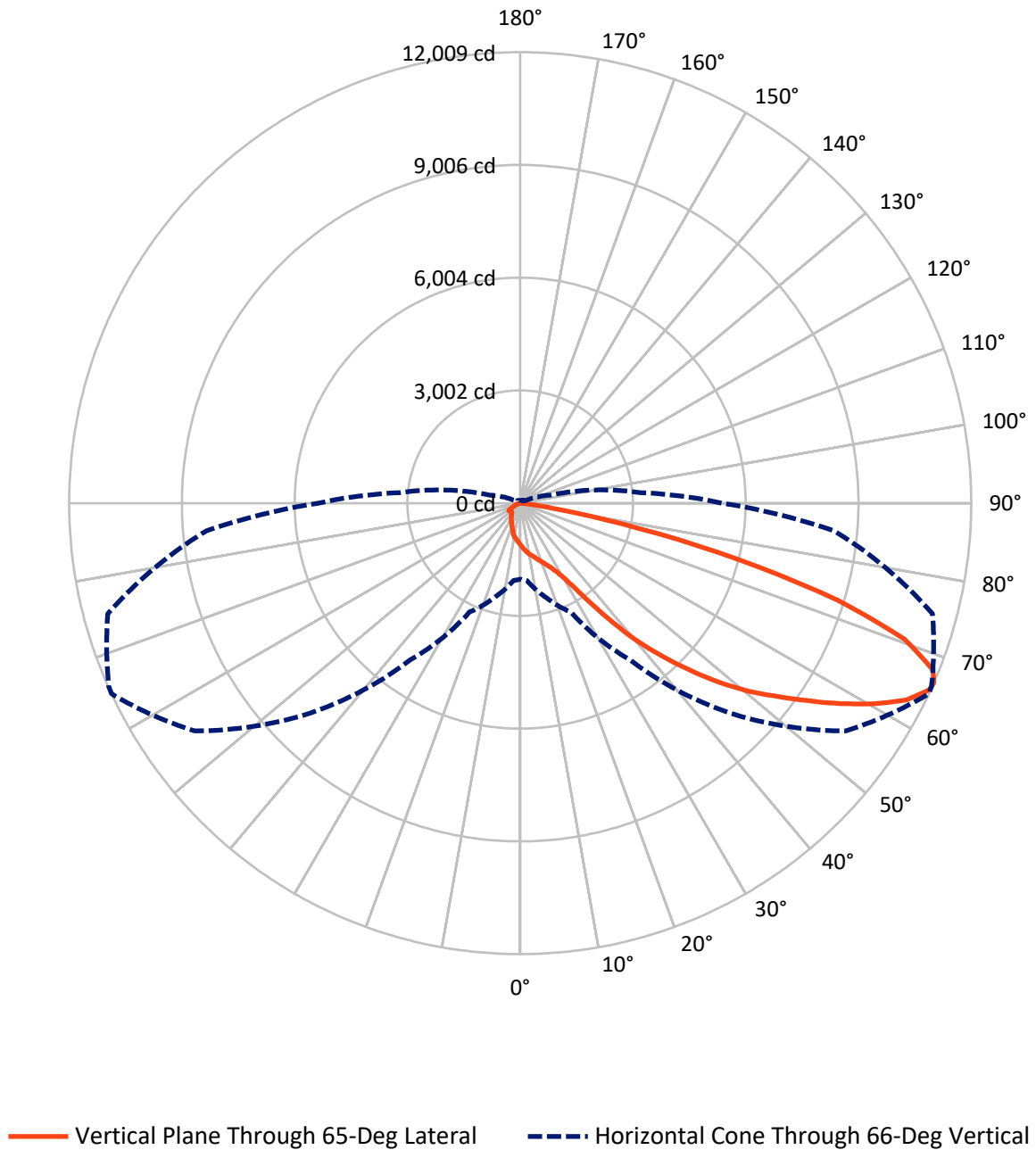
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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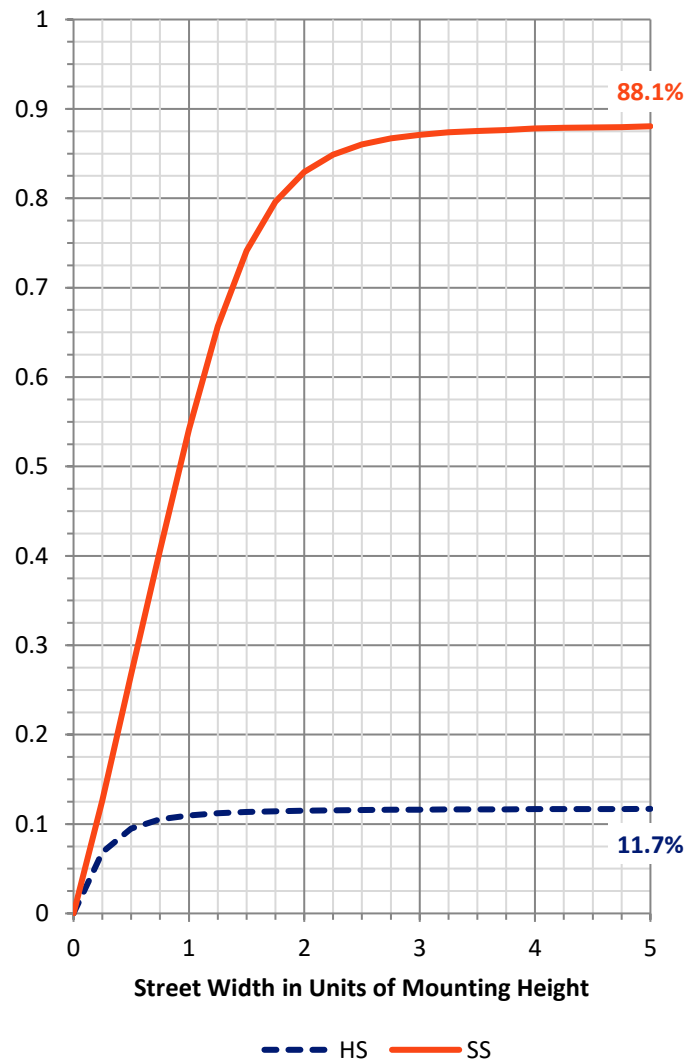
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1604.5	0.0	1604.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	11990.5	0.0	11990.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	13595.0	0.0	13595.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	0.8
10°-20°	310.8	2.3
20°-30°	568.9	4.2
30°-40°	1156.1	8.5
40°-50°	2441.3	18.0
50°-60°	3753.1	27.6
60°-70°	3777.7	27.8
70°-80°	1411.6	10.4
80°-90°	70.5	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°	13595.0	100.0
0°-180°	13595.0	100.0

Coefficient of Utilization



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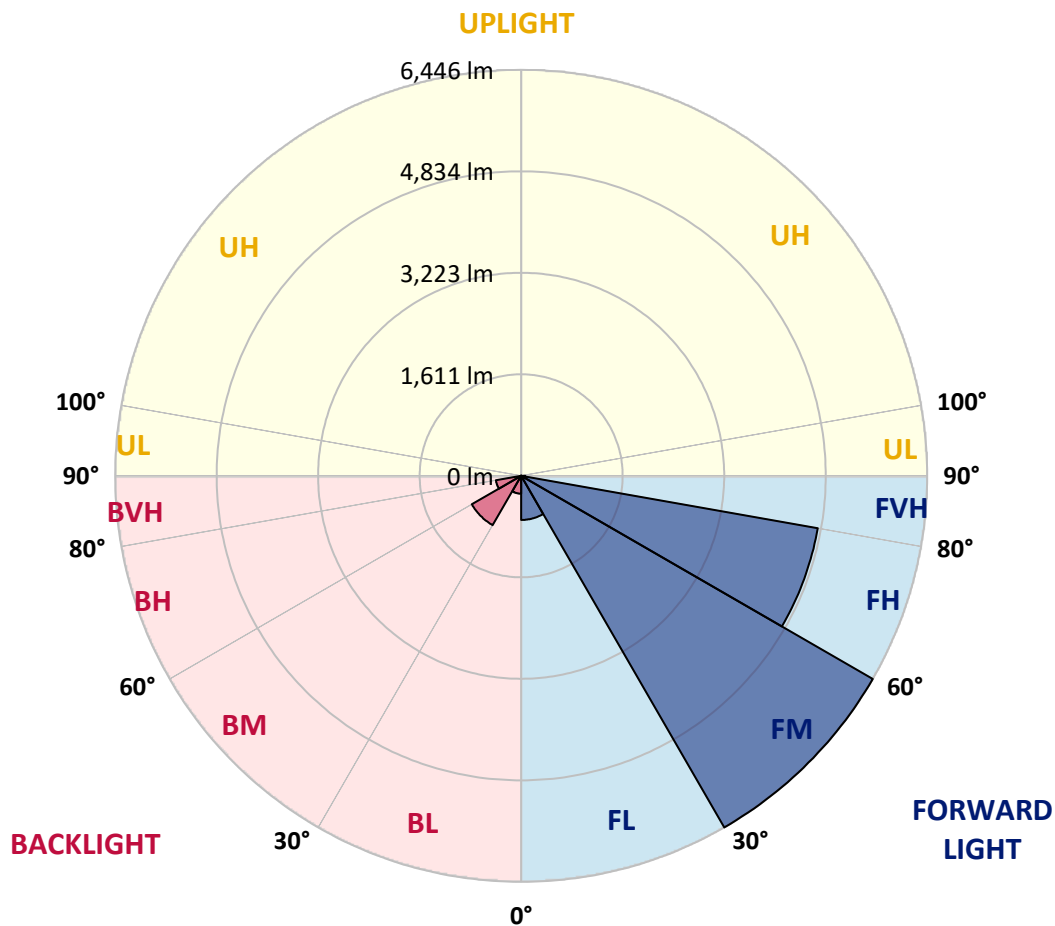
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	700.8	5.2			
FM	(30°-60°)	6445.8	47.4			
FH	(60°-80°)	4781.7	35.2			G2/5000
FVH	(80°-90°)	62.2	0.5			G1/100
BL	(0°-30°)	284.0	2.1	B1/500		
BM	(30°-60°)	904.6	6.7	B1/1000		
BH	(60°-80°)	407.6	3.0	B1/500		G1/500
BVH	(80°-90°)	8.3	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°	1107.6	1107.6	1107.6	1107.6	1107.6	1107.6	1107.6	1107.6	1107.6	1107.6	1107.6
2.5°	1263.0	1265.5	1260.6	1250.7	1240.8	1228.5	1208.8	1176.7	1171.7	1149.5	1124.9
5°	1349.4	1354.3	1346.9	1344.4	1339.5	1322.2	1295.1	1248.2	1243.3	1198.9	1142.1
7.5°	1379.0	1386.4	1381.4	1381.4	1381.4	1374.0	1361.7	1319.8	1312.4	1255.6	1169.3
10°	1401.2	1406.1	1403.6	1413.5	1420.9	1416.0	1408.6	1383.9	1376.5	1319.8	1206.3
12.5°	1435.7	1438.2	1440.6	1445.6	1457.9	1462.8	1460.4	1438.2	1433.2	1393.8	1253.2
15°	1467.8	1467.8	1470.2	1492.4	1509.7	1519.6	1522.0	1504.8	1499.8	1467.8	1312.4
17.5°	1497.4	1499.8	1507.2	1531.9	1561.5	1581.2	1593.6	1586.2	1578.8	1554.1	1381.4
20°	1541.8	1546.7	1554.1	1588.6	1618.2	1650.3	1675.0	1672.5	1670.0	1652.8	1462.8
22.5°	1618.2	1623.2	1635.5	1667.6	1697.2	1736.7	1778.6	1776.1	1768.7	1756.4	1559.0
25°	1734.2	1734.2	1741.6	1768.7	1805.7	1852.6	1892.1	1899.5	1892.1	1884.7	1679.9
27.5°	1879.7	1882.2	1882.2	1911.8	1946.3	2005.5	2054.9	2062.3	2062.3	2054.9	1842.7
30°	2082.0	2074.6	2069.7	2094.3	2131.3	2217.7	2304.0	2318.8	2311.4	2323.8	2072.1
32.5°	2429.8	2417.5	2375.6	2380.5	2402.7	2521.1	2666.7	2718.5	2716.0	2738.2	2442.2
35°	2910.9	2886.2	2824.5	2772.7	2770.3	2898.5	3120.5	3315.4	3313.0	3389.4	3004.6
37.5°	3453.6	3485.6	3369.7	3280.9	3253.8	3354.9	3641.1	4062.9	4085.1	4218.3	3742.2
40°	4178.8	4198.6	4050.5	3924.7	3796.5	3833.5	4210.9	4867.1	4906.5	5054.5	4479.8
42.5°	4810.3	4830.1	4743.7	4590.8	4428.0	4358.9	4785.7	5597.3	5629.3	5834.1	5239.6
45°	5239.6	5254.4	5284.0	5298.8	5113.8	4970.7	5488.7	6347.2	6386.6	6623.5	5982.1
47.5°	5575.1	5587.4	5646.6	5794.6	5757.6	5644.1	6204.1	7126.7	7136.6	7400.5	6704.9
50°	5730.5	5760.1	5905.6	6132.6	6295.4	6327.4	6981.1	7864.3	7891.4	8143.0	7388.2
52.5°	5557.8	5567.7	5935.2	6362.0	6690.1	7015.7	7760.7	8547.6	8626.5	8814.0	8002.4
55°	4975.6	5047.1	5604.7	6354.6	7000.9	7669.4	8594.5	9285.2	9356.7	9475.1	8542.7
57.5°	4299.7	4378.6	5057.0	6036.4	7134.1	8273.8	9366.6	10069.6	10119.0	10151.0	9038.5
60°	3715.1	3789.1	4487.2	5427.0	7000.9	8700.5	10084.4	10849.2	10891.1	10804.7	9287.6
62.5°	2997.2	3071.2	3774.3	4620.4	6477.9	8786.9	10617.3	11542.3	11559.6	11325.3	9134.7
65°	2259.6	2309.0	2896.1	3621.3	5562.7	8328.0	10738.1	11974.0	11956.8	11475.7	8675.9
66°	2025.3	2067.2	2585.2	3202.0	5086.6	7908.7	10575.3	12008.6	11991.3	11364.7	8374.9
67.5°	1746.5	1758.9	2185.6	2619.8	4255.3	7018.2	10079.5	11850.7	11865.5	11058.8	7824.8
70°	1364.2	1361.7	1608.4	1823.0	2905.9	4992.9	8407.0	10856.6	10928.1	9904.4	6672.8
72.5°	873.3	843.7	986.7	1115.0	1692.3	2898.5	6130.1	8848.5	8969.4	7780.4	4970.7
75°	520.5	490.9	525.4	557.5	811.6	1393.8	3604.0	6021.6	6137.5	4987.9	2957.7
77.5°	389.8	377.4	379.9	352.8	360.2	523.0	1645.4	3182.2	3266.1	2042.5	1122.4
80°	298.5	266.4	249.2	261.5	236.8	207.2	611.8	1095.3	1147.1	483.5	234.3
82.5°	199.8	172.7	160.3	175.1	150.5	115.9	148.0	212.1	207.2	130.7	91.3
85°	103.6	88.8	88.8	88.8	76.5	56.7	64.1	86.3	86.3	69.1	54.3
87.5°	29.6	27.1	32.1	29.6	22.2	22.2	24.7	29.6	29.6	27.1	24.7
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°	1107.6	1107.6	1107.6	1107.6	1107.6	1107.6	1107.6	1107.6	1107.6	1107.6	1107.6
2.5°	1105.1	1095.3	1068.1	1048.4	1028.7	1011.4	991.7	986.7	976.9	979.3	974.4
5°	1112.5	1085.4	1038.5	994.1	959.6	930.0	893.0	878.2	858.5	851.1	846.1
7.5°	1122.4	1082.9	1013.9	952.2	893.0	833.8	774.6	740.1	717.8	708.0	700.6
10°	1144.6	1092.8	1001.5	905.3	804.2	720.3	661.1	636.4	621.6	619.2	616.7
12.5°	1174.2	1107.6	989.2	846.1	712.9	634.0	597.0	589.6	587.1	587.1	584.6
15°	1218.6	1132.3	969.5	777.1	641.4	587.1	569.8	557.5	552.6	552.6	552.6
17.5°	1263.0	1161.9	939.9	705.5	592.0	557.5	540.2	532.8	527.9	530.4	527.9
20°	1319.8	1196.4	900.4	643.8	560.0	532.8	515.6	508.2	505.7	505.7	505.7
22.5°	1383.9	1235.9	851.1	597.0	532.8	508.2	490.9	483.5	478.6	481.0	481.0
25°	1470.2	1285.2	799.3	550.1	505.7	483.5	463.8	453.9	453.9	456.4	458.8
27.5°	1581.2	1344.4	747.5	520.5	481.0	458.8	436.6	426.8	429.2	434.2	434.2
30°	1744.1	1425.8	695.6	488.4	453.9	429.2	409.5	399.6	404.6	414.4	414.4
32.5°	1975.9	1559.0	651.2	451.4	414.4	387.3	367.6	360.2	372.5	392.2	392.2
35°	2390.4	1803.3	624.1	414.4	372.5	340.4	315.8	308.4	325.6	350.3	350.3
37.5°	2945.4	2195.5	634.0	382.4	338.0	301.0	273.8	264.0	276.3	298.5	305.9
40°	3564.6	2669.1	720.3	355.2	305.9	268.9	241.8	231.9	239.3	249.2	251.6
42.5°	4183.8	3172.4	883.1	335.5	281.2	241.8	217.1	209.7	214.6	217.1	219.5
45°	4800.5	3670.7	1087.9	323.2	259.0	219.5	194.9	194.9	197.3	197.3	197.3
47.5°	5385.1	4156.6	1302.5	320.7	239.3	197.3	177.6	180.1	180.1	182.5	182.5
50°	5937.7	4590.8	1519.6	328.1	222.0	177.6	162.8	162.8	162.8	165.3	162.8
52.5°	6399.0	4970.7	1746.5	340.4	204.7	162.8	148.0	148.0	148.0	150.5	148.0
55°	6835.6	5316.0	1978.4	357.7	189.9	150.5	135.7	130.7	130.7	133.2	130.7
57.5°	7190.8	5545.5	2198.0	360.2	177.6	138.1	125.8	118.4	118.4	118.4	118.4
60°	7205.6	5412.2	2262.1	315.8	162.8	125.8	113.5	103.6	106.1	106.1	106.1
62.5°	6734.5	4711.7	1818.1	236.8	145.5	113.5	103.6	93.7	93.7	93.7	93.7
65°	5809.4	3665.7	1065.7	187.5	125.8	101.1	91.3	83.9	83.9	83.9	81.4
66°	5375.2	3214.3	816.5	170.2	118.4	98.7	88.8	81.4	78.9	76.5	76.5
67.5°	4667.3	2540.8	510.6	150.5	108.5	91.3	81.4	74.0	71.5	69.1	69.1
70°	3515.2	1613.3	249.2	115.9	93.7	78.9	71.5	64.1	61.7	59.2	56.7
72.5°	2466.8	944.8	130.7	88.8	76.5	69.1	61.7	54.3	51.8	49.3	49.3
75°	1393.8	456.4	86.3	64.1	61.7	56.7	51.8	44.4	41.9	41.9	41.9
77.5°	527.9	157.9	59.2	46.9	49.3	44.4	37.0	37.0	34.5	37.0	34.5
80°	138.1	69.1	37.0	34.5	37.0	32.1	27.1	29.6	29.6	29.6	29.6
82.5°	74.0	39.5	22.2	24.7	22.2	22.2	17.3	19.7	22.2	19.7	22.2
85°	51.8	19.7	12.3	12.3	9.9	9.9	7.4	9.9	12.3	9.9	9.9
87.5°	27.1	7.4	7.4	7.4	7.4	4.9	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)