

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: P1210279

Luminaire Tested: **ARCH2-70-740-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-70-740-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10582 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.6
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

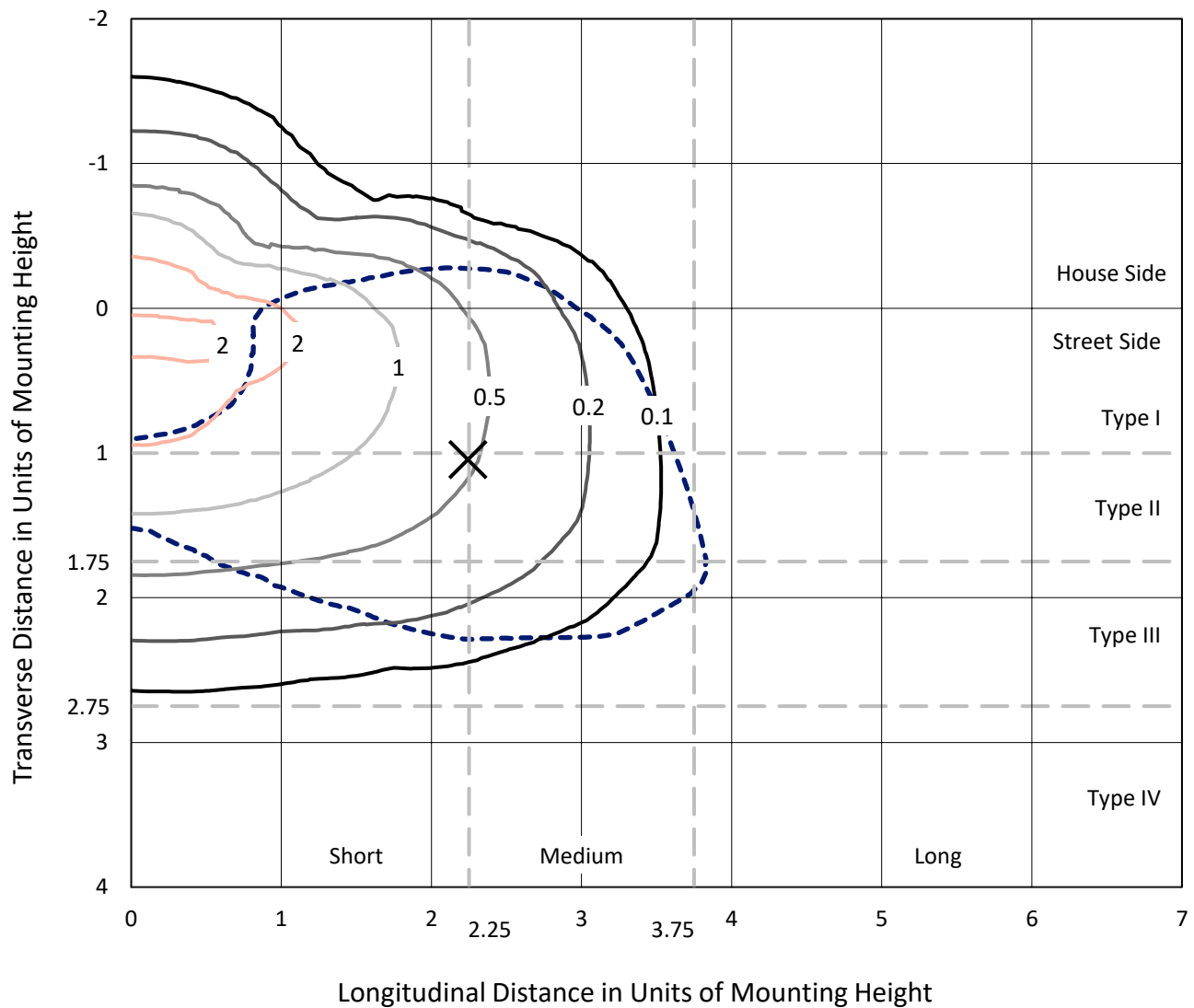


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

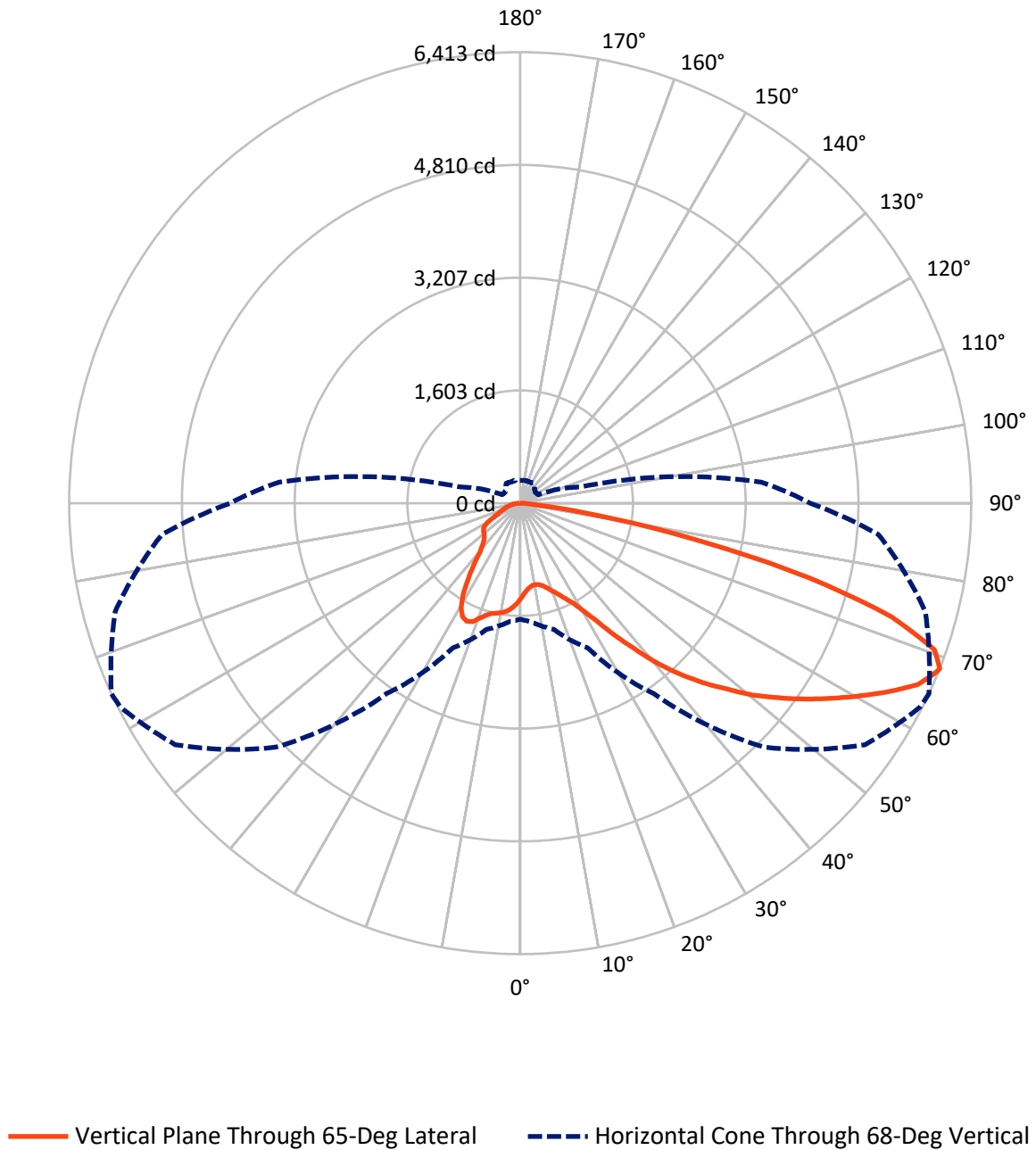


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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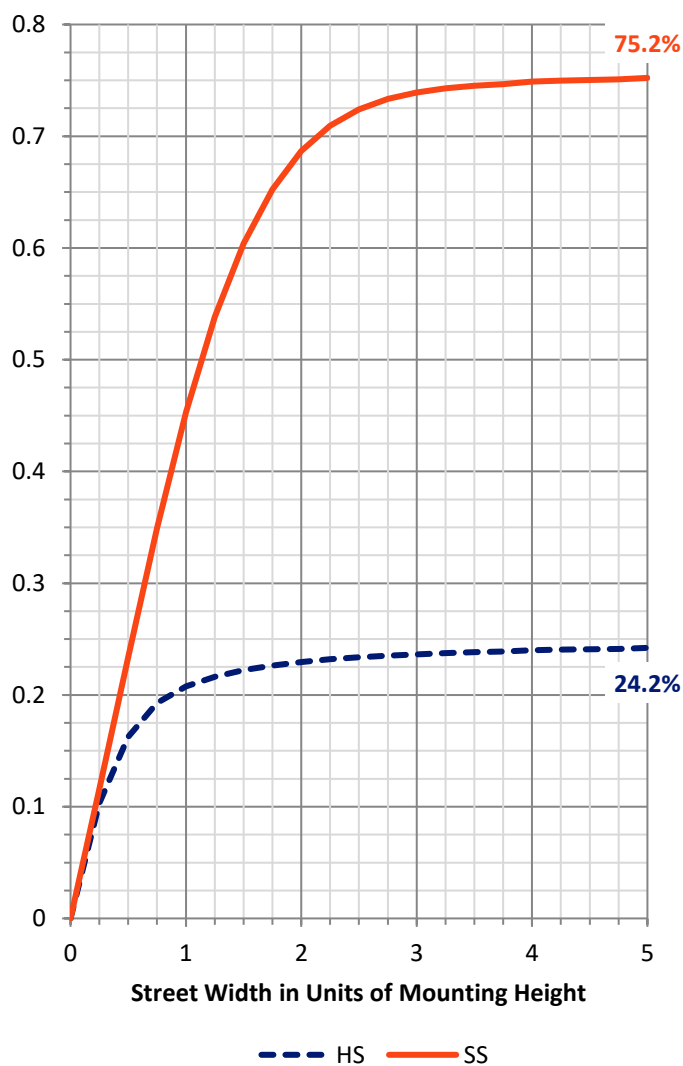
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2594.4	0.0	2594.4
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	7987.6	0.0	7987.6
	% Fixture	75.5	0.0	75.5
Total	Lumens	10582.0	0.0	10582.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	1.2
10°-20°	420.8	4.0
20°-30°	761.6	7.2
30°-40°	1198.1	11.3
40°-50°	1784.4	16.9
50°-60°	2340.7	22.1
60°-70°	2559.8	24.2
70°-80°	1266.6	12.0
80°-90°	120.8	1.1
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°	10582.0	100.0
0°-180°	10582.0	100.0

Coefficient of Utilization



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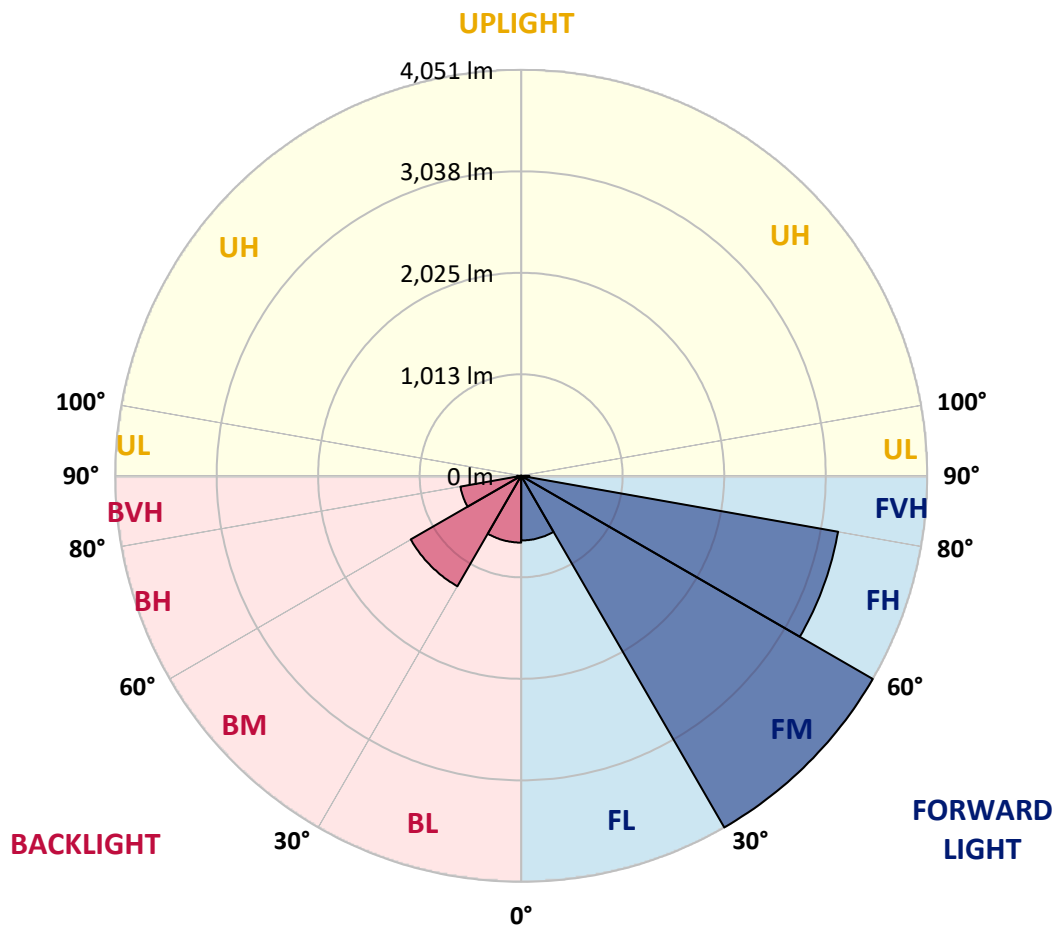
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	645.1	6.1			
FM	(30°-60°)	4050.6	38.3			
FH	(60°-80°)	3210.6	30.3			G2/5000
FVH	(80°-90°)	81.3	0.8			G1/100
BL	(0°-30°)	666.5	6.3	B2/1000		
BM	(30°-60°)	1272.5	12.0	B2/2500		
BH	(60°-80°)	615.8	5.8	B2/1000		G2/1000
BVH	(80°-90°)	39.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3
2.5°	1180.3	1177.6	1184.4	1191.2	1206.2	1224.0	1248.5	1269.0	1271.7	1310.0	1340.0
5°	1110.7	1106.6	1113.5	1121.6	1128.5	1150.3	1176.2	1206.2	1218.5	1274.5	1338.6
7.5°	1117.6	1116.2	1118.9	1116.2	1116.2	1125.7	1143.5	1173.5	1187.1	1254.0	1345.4
10°	1157.1	1159.9	1161.2	1153.0	1144.8	1140.7	1146.2	1166.7	1176.2	1255.4	1375.4
12.5°	1222.6	1226.7	1228.1	1213.1	1202.2	1184.4	1174.9	1183.0	1189.9	1269.0	1417.7
15°	1311.3	1314.0	1304.5	1294.9	1267.6	1245.8	1222.6	1215.8	1218.5	1297.7	1465.5
17.5°	1415.0	1410.9	1410.9	1387.7	1352.3	1318.1	1279.9	1274.5	1274.5	1344.1	1533.7
20°	1528.3	1532.4	1520.1	1488.7	1453.2	1400.0	1361.8	1337.2	1340.0	1397.3	1617.0
22.5°	1692.0	1698.8	1666.1	1621.1	1566.5	1505.1	1450.5	1410.9	1412.3	1466.9	1702.9
25°	1868.0	1870.8	1850.3	1790.3	1716.6	1629.3	1556.9	1506.4	1505.1	1544.6	1813.5
27.5°	2048.2	2060.4	2019.5	1962.2	1894.0	1784.8	1689.3	1621.1	1610.1	1663.4	1951.3
30°	2233.7	2248.7	2209.2	2153.2	2068.6	1975.8	1862.6	1783.4	1776.6	1847.6	2135.5
32.5°	2420.7	2424.8	2393.4	2347.0	2270.6	2183.3	2091.8	2004.5	1997.7	2113.7	2374.3
35°	2573.5	2585.8	2564.0	2553.0	2497.1	2416.6	2327.9	2277.4	2295.1	2443.9	2684.0
37.5°	2757.7	2770.0	2745.4	2742.7	2725.0	2655.4	2594.0	2598.1	2615.8	2817.8	3010.2
40°	3023.8	3037.4	2974.7	2947.4	2947.4	2879.2	2858.7	2955.6	2978.8	3186.2	3349.9
42.5°	3249.0	3270.8	3233.9	3216.2	3163.0	3115.2	3139.8	3276.2	3315.8	3538.2	3646.0
45°	3358.1	3374.5	3418.2	3470.0	3418.2	3334.9	3427.7	3581.9	3637.8	3863.0	3942.1
47.5°	3416.8	3431.8	3482.3	3621.5	3656.9	3587.4	3718.3	3910.7	3949.0	4185.0	4224.6
50°	3425.0	3472.7	3538.2	3677.4	3839.8	3849.3	4010.4	4245.1	4290.1	4501.6	4472.9
52.5°	3358.1	3377.2	3512.3	3747.0	3927.1	4090.9	4328.3	4565.7	4598.5	4799.1	4692.6
55°	3249.0	3276.2	3411.3	3730.6	4011.7	4320.1	4651.7	4880.9	4917.8	5088.3	4895.9
57.5°	3150.7	3164.3	3309.0	3682.9	4096.3	4549.3	4939.6	5209.8	5234.3	5342.1	5046.0
60°	3041.5	3056.6	3201.2	3580.5	4159.1	4722.6	5239.8	5541.4	5563.2	5609.6	5220.7
62.5°	2759.1	2798.7	2980.1	3411.3	4142.7	4920.5	5560.5	5868.9	5896.1	5845.7	5358.5
65°	2240.6	2296.5	2518.9	3027.9	3989.9	5048.8	5822.5	6170.4	6216.8	6023.0	5395.4
67.5°	1739.8	1779.3	1958.1	2402.9	3453.6	4984.6	5991.7	6377.8	6391.5	5994.4	5190.7
68°	1649.7	1689.3	1859.9	2271.9	3304.9	4908.2	5987.6	6383.3	6413.3	5963.0	5111.5
70°	1262.2	1307.2	1469.6	1799.8	2663.6	4422.4	5737.9	6252.3	6248.2	5583.7	4620.3
72.5°	788.7	814.6	926.5	1135.3	1761.6	3364.9	4870.0	5514.1	5525.0	4552.1	3543.7
75°	500.8	500.8	495.3	549.9	903.3	1917.2	3620.1	4245.1	4253.2	3187.5	2233.7
77.5°	435.3	423.0	364.3	308.4	360.2	745.0	2142.3	2741.3	2696.3	1716.6	1060.2
80°	367.1	346.6	298.8	248.3	232.0	233.3	822.8	1391.8	1331.8	618.1	352.0
82.5°	264.7	247.0	225.1	195.1	178.8	139.2	171.9	402.5	393.0	178.8	114.6
85°	143.3	129.6	126.9	128.3	107.8	86.0	72.3	88.7	88.7	77.8	65.5
87.5°	50.5	36.8	43.7	49.1	42.3	35.5	28.7	34.1	35.5	34.1	31.4
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°	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3	1352.3
2.5°	1357.7	1371.4	1404.1	1432.8	1453.2	1471.0	1480.5	1484.6	1494.2	1495.5	1492.8
5°	1368.6	1404.1	1453.2	1495.5	1518.7	1528.3	1531.0	1532.4	1528.3	1531.0	1528.3
7.5°	1397.3	1442.3	1511.9	1548.7	1552.8	1537.8	1539.2	1533.7	1539.2	1544.6	1544.6
10°	1440.9	1498.3	1563.8	1577.4	1559.7	1551.5	1567.8	1600.6	1611.5	1626.5	1626.5
12.5°	1498.3	1566.5	1612.9	1600.6	1584.2	1611.5	1659.3	1692.0	1702.9	1708.4	1704.3
15°	1563.8	1637.4	1660.6	1619.7	1649.7	1708.4	1724.8	1705.7	1678.4	1666.1	1672.9
17.5°	1647.0	1708.4	1694.7	1667.5	1735.7	1743.9	1690.7	1629.3	1585.6	1569.2	1580.1
20°	1734.3	1787.5	1724.8	1737.0	1779.3	1692.0	1591.0	1511.9	1473.7	1466.9	1477.8
22.5°	1827.1	1861.2	1754.8	1817.6	1754.8	1577.4	1456.0	1415.0	1405.5	1416.4	1425.9
25°	1932.2	1928.1	1806.6	1842.1	1663.4	1436.9	1364.5	1361.8	1361.8	1368.6	1382.3
27.5°	2050.9	1986.8	1858.5	1809.4	1505.1	1320.9	1307.2	1308.6	1304.5	1305.9	1312.7
30°	2188.7	2065.9	1915.8	1701.6	1327.7	1233.5	1228.1	1224.0	1214.4	1211.7	1214.4
32.5°	2362.0	2149.1	1974.5	1524.2	1172.1	1143.5	1140.7	1118.9	1095.7	1093.0	1102.5
35°	2581.7	2300.6	2004.5	1301.8	1043.9	1042.5	1033.0	998.8	968.8	968.8	962.0
37.5°	2832.8	2495.7	2016.8	1084.8	937.4	944.3	917.0	873.3	850.1	836.5	840.6
40°	3089.3	2718.1	2015.4	895.1	844.6	846.0	825.5	772.3	715.0	680.9	689.1
42.5°	3336.3	2920.1	1979.9	794.2	769.6	765.5	749.1	676.8	629.0	601.8	603.1
45°	3534.1	3128.9	1925.4	734.1	701.4	708.2	671.3	627.7	584.0	559.5	558.1
47.5°	3732.0	3287.2	1838.0	697.3	650.9	638.6	623.6	593.6	560.8	533.5	534.9
50°	3912.1	3422.2	1756.2	672.7	604.5	573.1	575.8	558.1	529.4	504.9	503.5
52.5°	4039.0	3510.9	1711.1	659.1	548.5	514.4	524.0	514.4	487.1	469.4	468.0
55°	4165.9	3579.2	1726.1	641.3	487.1	459.8	476.2	473.5	458.5	453.0	454.4
57.5°	4268.3	3631.0	1779.3	608.6	428.5	412.1	439.4	431.2	420.3	421.6	421.6
60°	4367.9	3697.9	1842.1	533.5	378.0	379.3	405.3	390.3	383.4	395.7	397.1
62.5°	4471.6	3770.2	1790.3	424.4	334.3	343.9	373.9	361.6	364.3	382.1	387.5
65°	4459.3	3763.4	1458.7	348.0	296.1	315.2	360.2	356.1	357.5	364.3	367.1
67.5°	4208.2	3523.2	1002.9	296.1	268.8	292.0	349.3	332.9	334.3	330.2	331.6
68°	4123.6	3438.6	884.2	287.9	263.4	286.6	343.9	328.9	330.2	326.1	324.8
70°	3662.4	2944.7	559.5	253.8	244.3	271.5	316.6	311.1	309.7	307.0	307.0
72.5°	2791.8	2173.7	294.7	219.7	222.4	248.3	282.5	293.4	286.6	287.9	296.1
75°	1848.9	1307.2	204.7	188.3	195.1	212.9	251.1	272.9	266.1	270.2	266.1
77.5°	978.4	704.1	163.7	159.7	159.7	171.9	207.4	241.5	241.5	238.8	234.7
80°	320.7	248.3	131.0	125.5	128.3	135.1	166.5	197.9	202.0	196.5	193.8
82.5°	107.8	114.6	98.2	91.4	94.2	99.6	125.5	151.5	152.8	141.9	139.2
85°	66.9	76.4	61.4	60.0	60.0	61.4	76.4	83.2	76.4	68.2	71.0
87.5°	31.4	38.2	28.7	24.6	20.5	17.7	13.6	5.5	5.5	2.7	2.7
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)