

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1461789

Luminaire Tested: USSL-50-8540-U-T3RE

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461789
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-50-8540-U-T3RE
Description: USSL DISCRETE LED 1 SQUARE 50W 85CRI 4000k FIXTURE w/ TYPE III ROADWAY
ILLUMINANCE DISTRIBUTION OPTIC
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7439.2 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 3.35%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

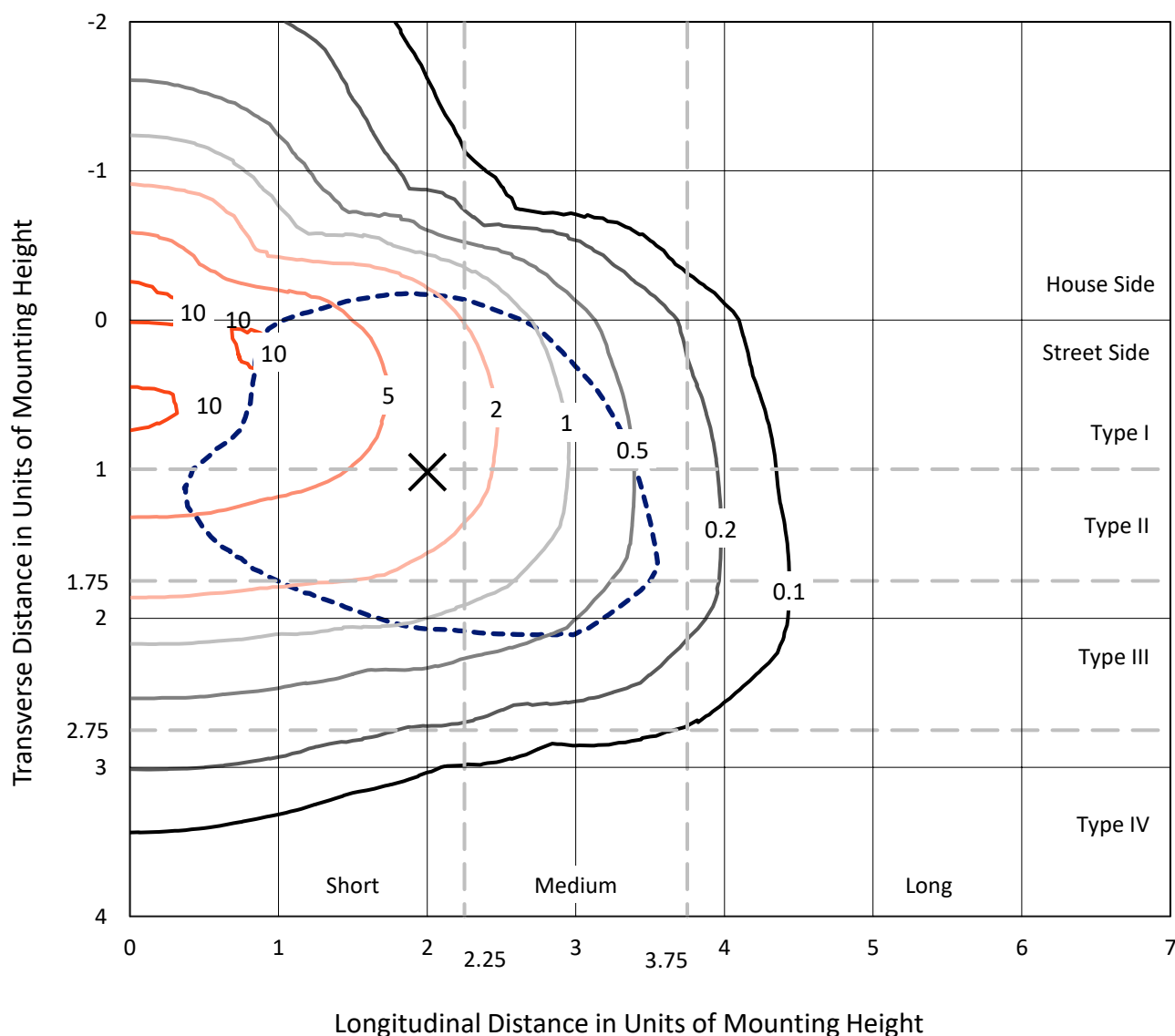
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

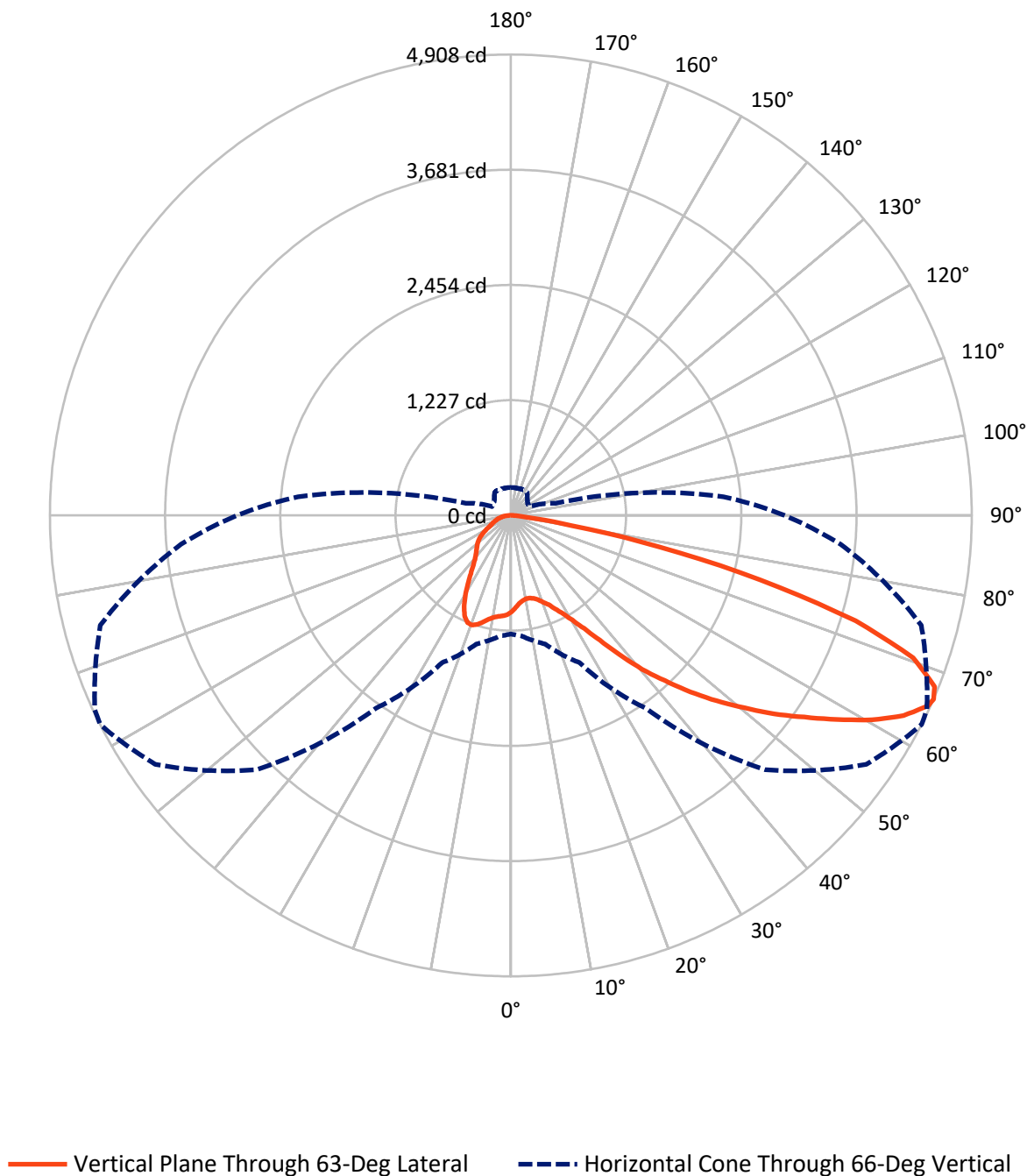


Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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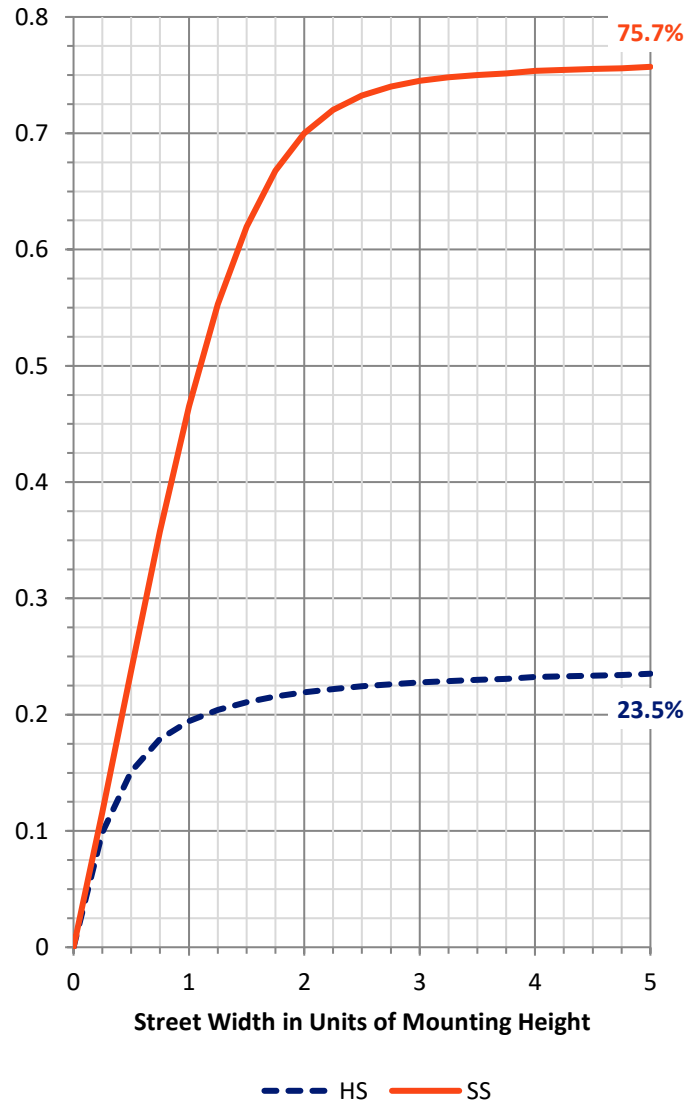
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1779.5	0.0	1779.5
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	5659.7	0.0	5659.7
	% Fixture	76.1	0.0	76.1
Total	Lumens	7439.2	0.0	7439.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	1.3
10°-20°	298.7	4.0
20°-30°	532.1	7.2
30°-40°	837.8	11.3
40°-50°	1258.1	16.9
50°-60°	1689.0	22.7
60°-70°	1812.3	24.4
70°-80°	815.4	11.0
80°-90°	100.4	1.3
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°	7439.2	100.0
0°-180°	7439.2	100.0

Coefficient of Utilization



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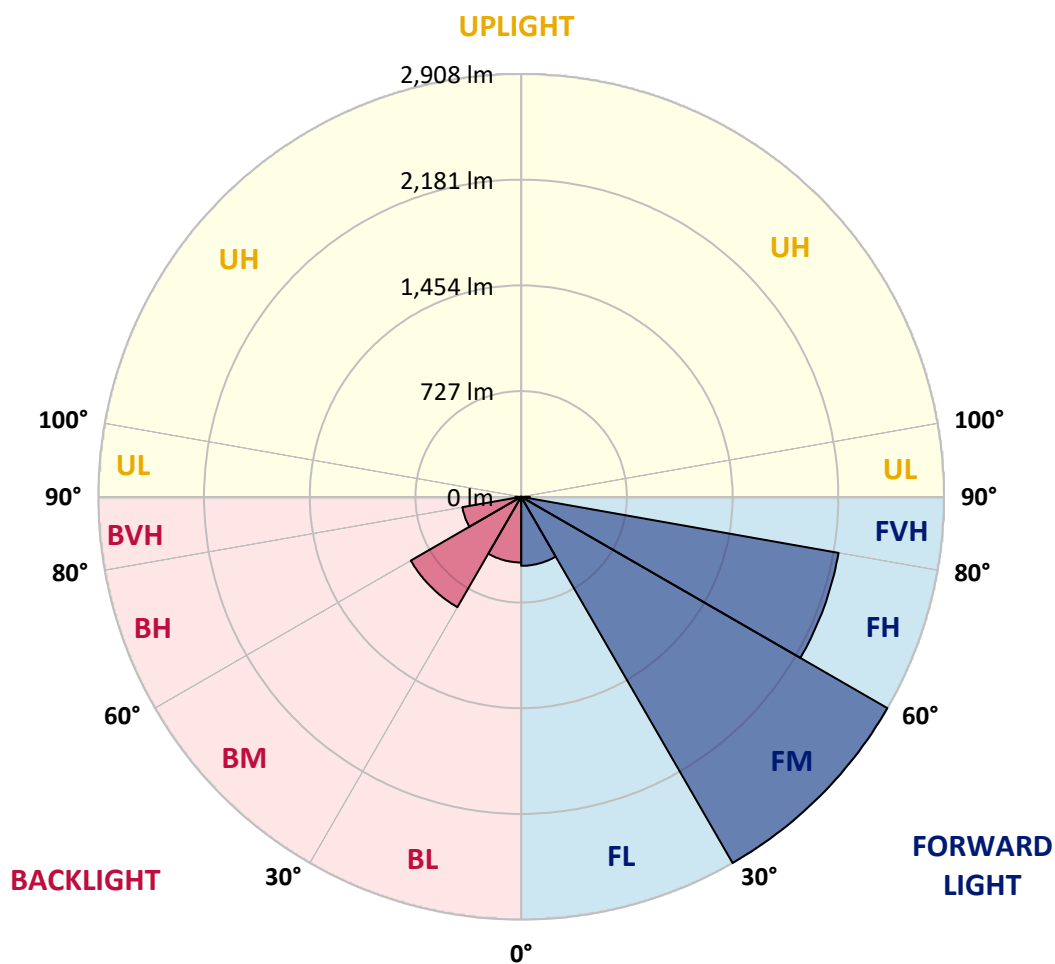
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	474.7	6.4			
FM	(30°-60°)	2908.4	39.1			
FH	(60°-80°)	2216.9	29.8			G2/5000
FVH	(80°-90°)	59.8	0.8			G1/100
BL	(0°-30°)	451.5	6.1	B1/500		
BM	(30°-60°)	876.5	11.8	B1/1000		
BH	(60°-80°)	410.8	5.5	B1/500		G1/500
BVH	(80°-90°)	40.6	0.5			G1/100
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°	63°	65°	75°	85°
0°	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6
2.5°	919.6	921.7	924.8	929.4	936.8	950.5	968.4	983.5	986.6	1005.6	1018.6
5°	847.6	850.1	852.5	858.8	871.8	887.6	914.7	942.0	949.4	988.7	1023.5
7.5°	830.7	831.4	832.5	834.3	842.0	855.0	882.4	915.7	923.4	979.3	1035.8
10°	850.4	850.8	850.4	848.3	846.5	851.5	870.1	901.0	911.8	979.3	1056.5
12.5°	890.8	894.3	891.5	884.1	873.9	870.8	879.5	902.7	912.9	990.5	1086.0
15°	947.7	951.2	944.5	933.6	918.5	905.2	902.7	917.8	926.6	1007.7	1126.0
17.5°	1017.2	1015.8	1008.1	993.3	972.6	951.2	938.9	944.9	951.5	1033.7	1169.9
20°	1100.7	1106.0	1089.9	1068.1	1043.9	1011.2	984.2	986.6	988.7	1068.1	1222.6
22.5°	1238.7	1245.1	1214.5	1173.1	1128.1	1083.5	1049.1	1031.6	1037.9	1107.8	1277.0
25°	1375.3	1376.4	1353.9	1313.5	1246.8	1175.5	1123.6	1102.9	1101.8	1165.7	1351.4
27.5°	1518.6	1509.1	1483.5	1439.9	1377.1	1294.9	1216.3	1185.0	1181.9	1246.8	1434.3
30°	1650.6	1645.7	1620.4	1574.1	1501.7	1424.1	1332.8	1293.2	1289.6	1366.2	1551.9
32.5°	1773.1	1774.5	1750.7	1701.9	1643.2	1563.9	1472.9	1435.4	1431.1	1538.2	1700.1
35°	1870.7	1867.6	1853.2	1833.9	1786.5	1716.3	1632.7	1632.0	1641.8	1781.2	1890.8
37.5°	1966.6	1964.5	1942.0	1930.1	1933.6	1871.8	1837.7	1877.1	1897.8	2042.8	2107.4
40°	2124.6	2113.0	2084.2	2049.5	2053.7	2024.9	2037.5	2152.7	2190.3	2335.3	2335.3
42.5°	2243.3	2238.7	2233.8	2220.5	2201.8	2178.7	2251.7	2405.1	2441.7	2588.8	2532.2
45°	2287.9	2294.2	2324.4	2378.1	2374.6	2341.6	2484.5	2680.8	2713.4	2846.5	2729.2
47.5°	2326.5	2333.5	2370.4	2481.0	2538.9	2545.2	2736.2	2949.7	2988.0	3117.9	2911.4
50°	2326.1	2340.9	2414.3	2540.0	2649.9	2745.4	3004.1	3221.1	3259.8	3371.8	3069.8
52.5°	2276.3	2286.5	2411.1	2588.1	2737.3	2949.4	3282.6	3509.0	3526.6	3612.3	3207.8
55°	2220.8	2229.6	2359.5	2599.0	2829.3	3174.1	3571.2	3791.0	3818.7	3859.1	3347.9
57.5°	2156.2	2170.2	2299.5	2566.0	2906.9	3395.6	3866.8	4097.5	4110.9	4097.2	3502.7
60°	2078.3	2083.9	2208.9	2481.3	2951.1	3624.6	4153.7	4419.8	4422.6	4334.2	3629.5
62.5°	1801.6	1807.5	1954.7	2305.4	2919.5	3799.1	4403.0	4693.0	4687.4	4513.2	3689.2
65°	1382.7	1407.6	1556.1	1919.5	2677.6	3875.6	4596.8	4884.0	4863.7	4556.1	3607.4
66°	1262.3	1287.5	1417.1	1728.2	2506.6	3827.2	4621.0	4907.5	4887.9	4524.8	3524.1
67.5°	1129.5	1134.1	1239.4	1475.7	2149.2	3602.4	4539.9	4866.8	4844.7	4386.8	3327.5
70°	823.0	844.8	938.9	1119.4	1516.1	2891.1	4095.1	4544.8	4512.5	3912.1	2829.3
72.5°	540.4	549.1	590.6	672.0	965.6	1944.1	3380.9	3838.7	3868.2	3122.1	2106.7
75°	376.7	371.8	354.3	362.4	482.8	948.4	2366.9	2740.8	2778.4	2020.7	1245.8
77.5°	310.0	303.7	274.9	241.2	247.2	352.9	1253.1	1620.0	1590.6	990.5	562.5
80°	267.5	261.6	230.7	200.5	182.2	168.5	394.7	659.7	611.3	332.5	194.9
82.5°	213.8	210.7	197.0	168.5	147.8	121.8	123.2	171.7	183.6	123.9	85.7
85°	129.9	128.5	129.6	133.4	105.3	89.2	73.4	77.2	75.1	62.1	53.4
87.5°	67.1	62.1	66.7	79.7	62.5	41.1	30.9	32.0	33.7	32.0	27.4
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°	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6
2.5°	1027.4	1035.1	1047.4	1055.5	1060.7	1063.9	1063.5	1063.2	1062.1	1059.7	1061.1
5°	1038.6	1051.9	1067.7	1072.7	1071.6	1069.8	1067.0	1066.3	1067.4	1065.3	1065.3
7.5°	1057.6	1072.3	1087.1	1084.2	1079.3	1084.6	1093.0	1104.6	1111.6	1115.8	1121.5
10°	1082.8	1102.9	1107.8	1099.3	1105.0	1125.7	1144.6	1157.6	1165.4	1169.2	1173.1
12.5°	1120.8	1138.0	1128.5	1124.6	1149.2	1175.2	1180.5	1171.0	1160.8	1154.8	1155.2
15°	1162.9	1174.1	1154.8	1166.1	1196.6	1194.1	1157.6	1118.7	1090.6	1078.6	1080.0
17.5°	1207.8	1209.9	1184.7	1211.7	1214.5	1158.0	1084.9	1030.2	1011.9	1005.2	1005.9
20°	1260.5	1251.0	1224.7	1251.0	1191.7	1079.0	999.3	966.6	958.5	961.7	962.4
22.5°	1307.6	1285.8	1266.8	1259.8	1118.0	986.3	935.0	923.1	925.5	931.2	937.1
25°	1364.1	1324.8	1307.2	1223.3	1021.0	913.3	890.8	892.2	892.5	897.5	902.0
27.5°	1426.9	1369.4	1334.6	1138.7	918.2	860.9	854.6	855.7	852.2	852.2	856.4
30°	1502.4	1422.7	1339.2	1024.2	825.1	813.9	813.5	806.2	791.8	788.3	790.7
32.5°	1607.4	1502.4	1319.1	889.0	758.4	768.2	764.4	745.1	725.4	720.8	726.1
35°	1762.6	1618.6	1279.5	764.7	700.5	718.7	714.2	688.9	659.7	648.5	649.9
37.5°	1921.7	1762.2	1229.3	662.2	648.2	674.1	663.6	629.9	599.0	578.3	581.1
40°	2088.4	1907.3	1170.3	596.2	602.9	626.7	617.6	576.2	536.2	517.9	526.3
42.5°	2252.4	2045.9	1107.1	553.0	560.0	583.9	574.4	530.9	501.0	481.7	484.9
45°	2399.5	2155.8	1049.8	520.7	523.2	541.8	527.7	502.8	472.6	456.1	455.0
47.5°	2530.8	2237.7	1014.0	494.7	486.6	492.3	490.2	472.6	450.1	434.7	433.3
50°	2643.5	2299.5	1007.7	471.2	447.3	437.1	446.6	441.4	423.8	412.6	411.5
52.5°	2734.5	2356.0	1035.1	447.3	397.8	392.9	406.9	408.3	395.0	390.1	390.4
55°	2844.4	2425.9	1090.6	414.0	353.9	354.6	373.2	374.6	366.9	367.6	369.0
57.5°	2964.5	2504.9	1136.6	370.4	313.5	319.2	344.1	346.6	339.2	342.0	343.0
60°	3065.9	2576.5	1082.5	316.4	277.4	291.8	323.7	322.3	318.1	325.1	326.9
62.5°	3095.4	2558.2	888.3	269.3	248.9	270.4	309.3	309.7	317.8	330.0	332.2
65°	2991.2	2383.4	605.7	234.5	226.1	251.7	300.9	313.2	309.7	307.9	310.0
66°	2913.2	2273.8	494.7	222.6	217.7	246.5	298.8	303.7	297.4	297.0	297.0
67.5°	2737.3	2046.3	361.3	207.2	208.2	238.1	286.2	281.9	287.9	293.5	295.6
70°	2320.9	1562.8	228.6	183.3	191.7	215.9	255.6	272.1	283.0	289.7	294.2
72.5°	1720.1	1008.8	162.9	161.9	174.2	193.8	234.9	259.1	268.3	296.7	304.8
75°	1054.0	560.7	136.9	144.0	149.2	175.9	212.4	244.7	242.6	251.0	253.2
77.5°	455.4	252.1	116.9	124.6	127.5	148.9	189.3	222.3	221.9	231.0	234.9
80°	155.9	114.5	100.1	101.5	110.6	125.7	161.5	192.8	193.1	197.0	192.8
82.5°	82.9	77.9	80.4	83.2	94.5	102.5	133.4	166.8	153.8	109.2	107.4
85°	52.3	46.7	53.0	62.5	69.2	74.4	101.8	125.7	109.5	48.1	42.8
87.5°	21.1	21.1	24.6	33.0	29.8	32.3	54.4	71.3	58.3	19.3	10.2
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)