

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: P157099

Luminaire Tested: **UTLD-E02-LED-E-U-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157099
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33670)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-E02-LED-E-U-SL4-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4596.3 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.1
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: 28.75 FT

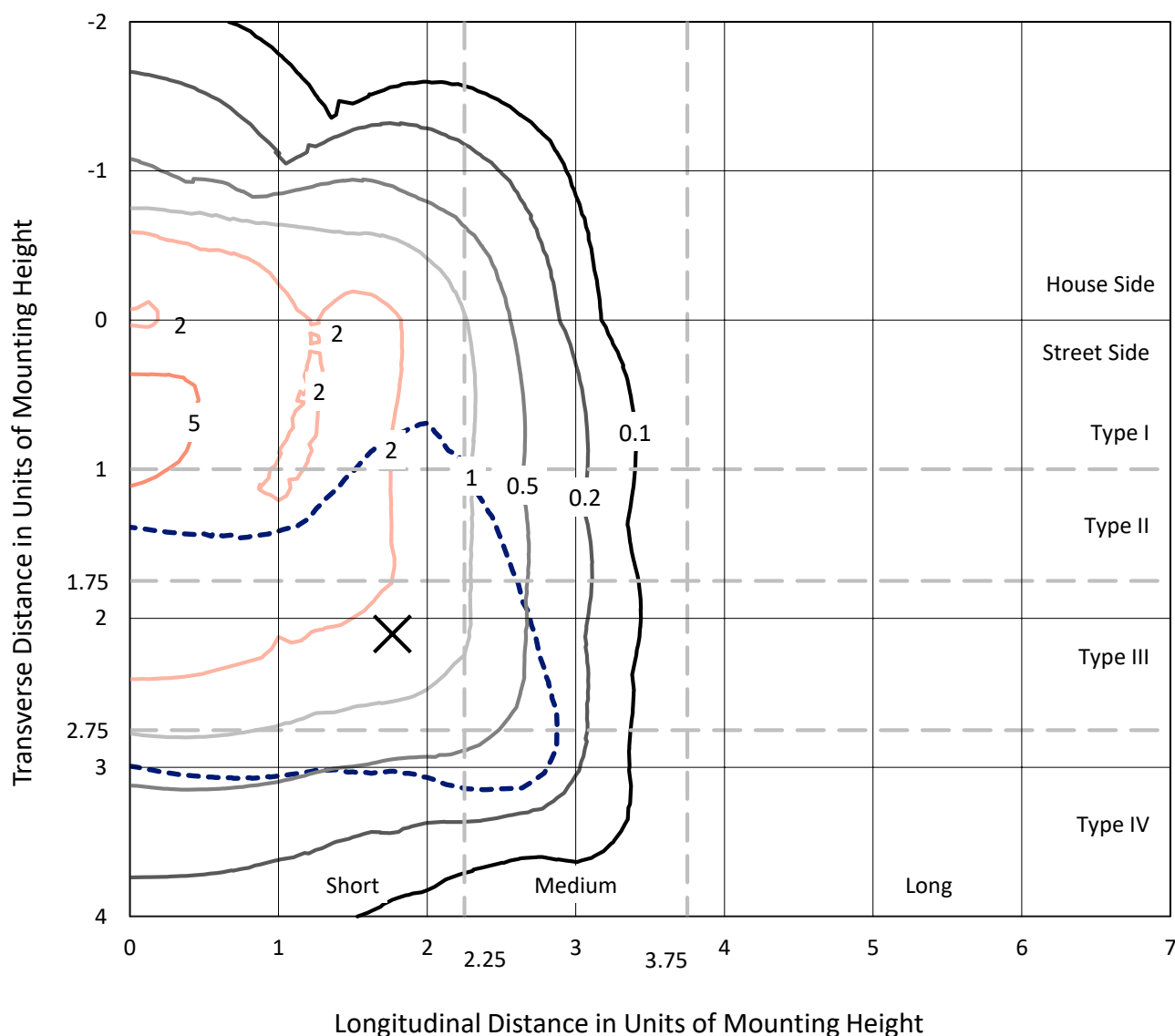


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

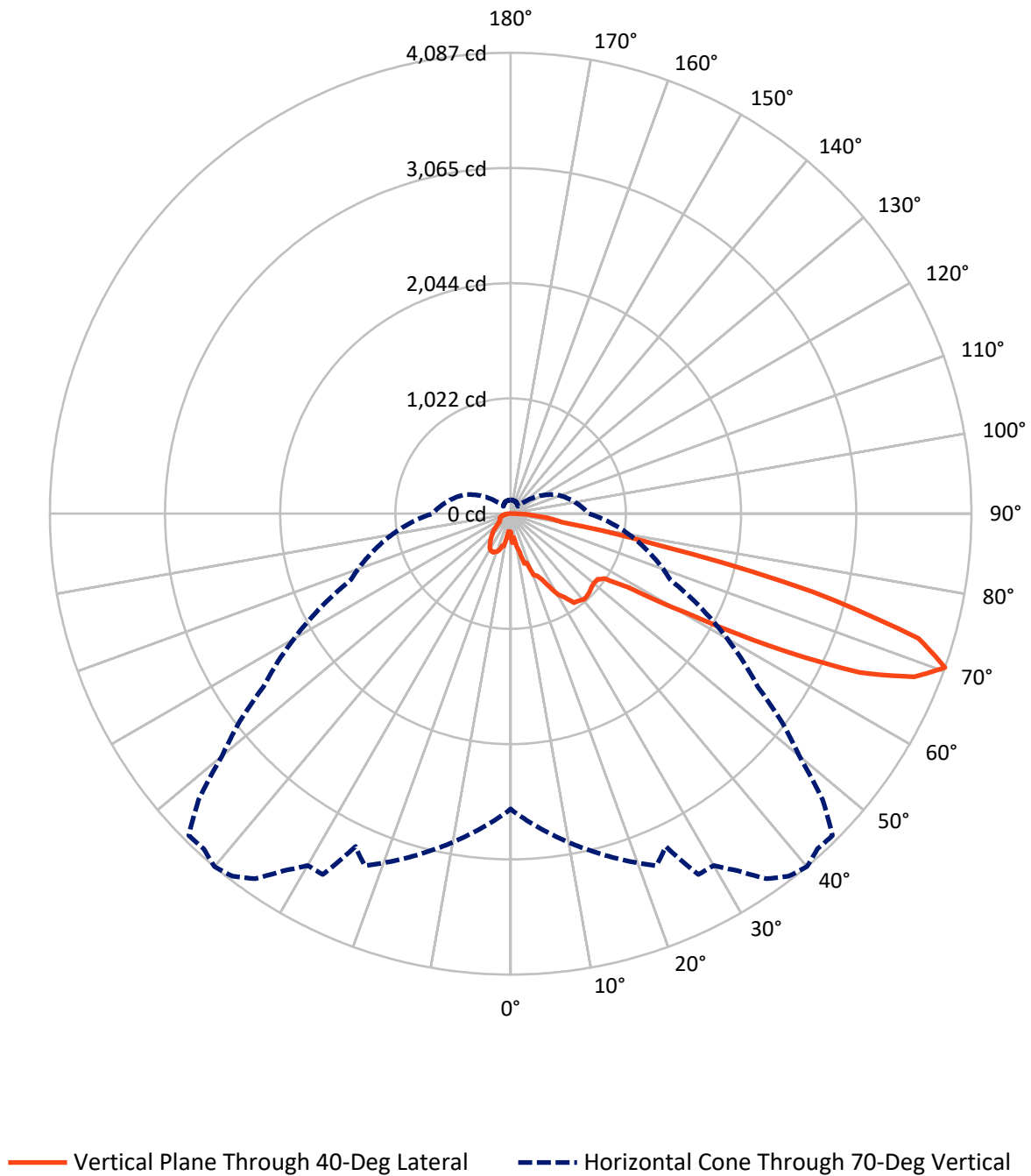


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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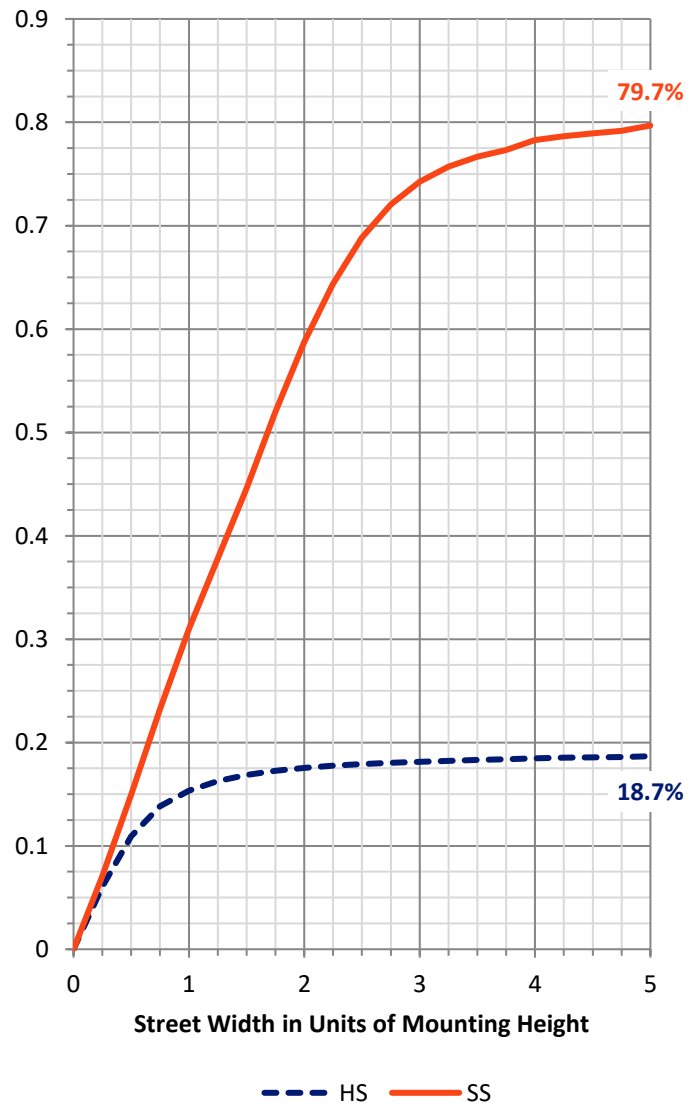
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	871.0	0.0	871.0
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	3725.3	0.0	3725.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	4596.3	0.0	4596.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.6	0.4
10°-20°	102.4	2.2
20°-30°	251.6	5.5
30°-40°	420.9	9.2
40°-50°	532.6	11.6
50°-60°	826.7	18.0
60°-70°	1553.7	33.8
70°-80°	766.3	16.7
80°-90°	121.4	2.6
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°	4596.3	100.0
0°-180°	4596.3	100.0

Coefficient of Utilization



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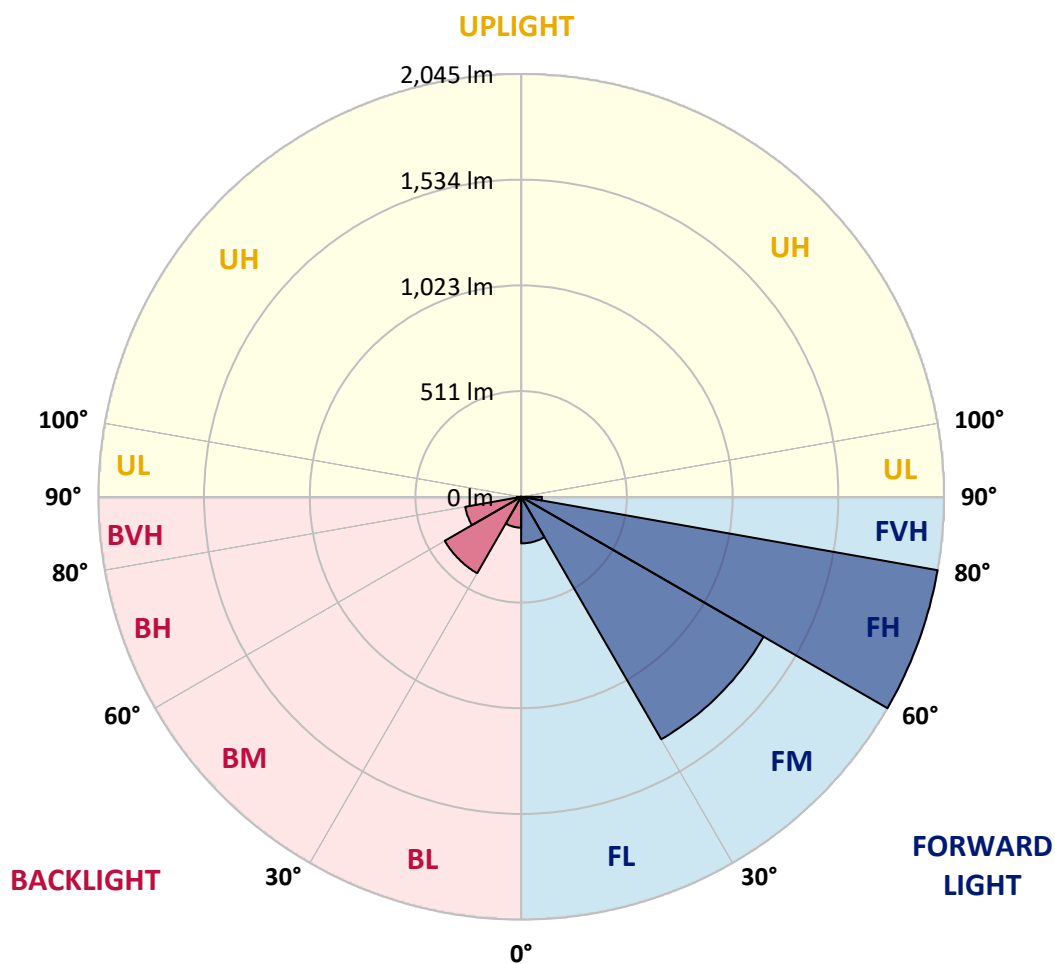
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	225.3	4.9			
FM	(30°-60°)	1354.0	29.5			
FH	(60°-80°)	2045.1	44.5			G2/5000
FVH	(80°-90°)	100.9	2.2			G2/225
BL	(0°-30°)	149.3	3.2	B1/500		
BM	(30°-60°)	426.3	9.3	B1/1000		
BH	(60°-80°)	274.9	6.0	B1/500		G1/500
BVH	(80°-90°)	20.5	0.4			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	0.3°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°
0°	159.8	159.8	159.8	159.8	159.8	159.8	159.8	159.8	159.8	159.8	159.8
2.5°	256.7	251.2	256.7	255.7	260.3	259.4	259.4	256.7	255.7	258.5	257.6
5°	215.6	216.5	211.9	207.3	210.1	210.1	210.1	208.2	207.3	211.0	213.7
7.5°	319.7	320.6	317.8	313.3	319.7	313.3	310.5	294.1	264.9	216.5	213.7
10°	323.3	322.4	316.0	312.4	313.3	313.3	311.5	308.7	296.8	297.8	303.2
12.5°	419.2	419.2	404.6	392.7	398.2	387.3	326.1	314.2	308.7	347.1	382.7
15°	447.5	424.7	411.0	392.7	399.1	403.7	465.8	470.4	480.4	458.5	454.8
17.5°	524.3	525.2	505.1	500.5	554.4	530.7	476.8	470.4	478.6	457.6	453.9
20°	619.3	617.4	555.3	639.3	570.8	567.2	553.5	548.0	569.9	580.9	520.6
22.5°	643.9	644.8	677.7	713.3	657.6	634.8	610.1	610.1	605.6	598.2	567.2
25°	791.0	792.8	702.4	748.0	686.8	714.2	702.4	677.7	658.5	646.7	633.0
27.5°	865.9	854.0	822.0	878.6	843.0	813.8	759.9	712.4	733.4	734.3	713.3
30°	989.2	988.2	963.6	961.8	892.3	856.7	867.7	837.5	818.4	833.9	771.8
32.5°	1180.0	1185.5	1024.8	1012.0	988.2	983.7	944.4	924.3	882.3	885.0	832.1
35°	1395.6	1397.4	1165.4	1084.1	1097.8	1051.3	987.3	970.9	936.2	969.1	894.2
37.5°	1481.5	1479.6	1285.1	1163.6	1142.6	1078.7	1048.5	1033.9	991.0	980.9	917.0
40°	1622.1	1623.0	1361.8	1199.2	1210.2	1128.9	1103.3	1055.8	996.5	1001.0	927.1
42.5°	1668.7	1668.7	1384.6	1207.4	1232.1	1160.9	1108.8	1057.7	1005.6	996.5	937.1
45°	1687.9	1688.8	1373.7	1213.8	1204.7	1154.5	1095.1	1049.4	995.6	983.7	928.9
47.5°	1685.1	1684.2	1354.5	1212.0	1193.7	1133.5	1095.1	1044.9	984.6	969.1	918.8
50°	1665.0	1666.9	1349.0	1202.0	1207.4	1125.2	1096.0	1039.4	984.6	961.8	917.9
52.5°	1686.0	1690.6	1373.7	1206.5	1233.9	1154.5	1106.1	1050.4	999.2	967.2	928.0
55°	2150.9	2183.8	1519.8	1285.1	1339.9	1246.7	1166.3	1109.7	1052.2	1016.6	982.8
57.5°	3057.9	3060.6	2119.0	1623.9	1732.6	1575.5	1430.3	1381.9	1278.7	1232.1	1219.3
60°	3401.3	3413.2	2843.3	2332.7	2557.4	2313.5	2140.0	2046.8	1907.1	1771.0	1741.8
62.5°	3605.9	3614.1	3231.4	2805.8	3115.4	2955.6	2856.0	2844.2	2705.3	2590.3	2530.0
65°	3743.8	3744.7	3507.3	3112.7	3450.6	3308.2	3330.1	3446.1	3413.2	3394.9	3318.2
67.5°	3588.6	3594.9	3647.9	3354.7	3686.3	3596.8	3708.2	3839.7	3852.5	3862.6	3783.1
70°	2616.7	2631.4	3380.3	3256.1	3606.8	3602.3	3754.8	3951.2	4052.5	4087.2	4030.6
72.5°	1658.6	1645.9	2236.8	2392.1	2636.8	2859.7	3147.4	3458.9	3720.1	3784.0	3735.6
75°	1160.0	1156.3	1206.5	1232.1	1434.0	1489.7	1782.9	2245.9	2582.0	2767.5	2775.7
77.5°	736.2	736.2	727.9	687.8	711.5	688.7	703.3	805.6	994.6	1355.4	1430.3
80°	608.3	609.2	540.7	497.8	524.3	518.8	493.2	482.2	469.5	463.1	497.8
82.5°	410.1	403.7	458.5	422.0	435.7	430.2	420.1	408.3	390.0	356.2	326.1
85°	301.4	296.8	280.4	252.1	267.6	264.9	259.4	246.6	237.5	209.2	191.8
87.5°	226.5	224.7	204.6	164.4	173.5	162.6	147.0	131.5	120.6	103.2	90.4
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):

	45°	47.5°	50°	52.5°	55°	67.5°	90°	112.5°	135°	157.5°	180°
0°	159.8	159.8	159.8	159.8	159.8	159.8	159.8	159.8	159.8	159.8	159.8
2.5°	257.6	257.6	257.6	252.1	245.7	181.8	158.0	156.2	160.7	224.7	249.3
5°	211.0	207.3	206.4	206.4	208.2	245.7	154.4	158.0	222.9	156.2	155.3
7.5°	211.0	207.3	205.5	202.8	202.8	191.8	150.7	216.5	150.7	175.4	249.3
10°	303.2	294.1	292.3	295.9	288.6	276.7	220.1	230.2	210.1	248.4	249.3
12.5°	381.8	381.8	380.0	389.1	384.5	271.3	241.1	222.9	304.1	262.1	333.4
15°	411.0	380.9	387.3	385.4	377.2	393.7	297.8	281.3	288.6	305.1	321.5
17.5°	467.6	500.5	519.7	495.9	433.8	411.9	358.9	287.7	329.7	348.0	390.9
20°	503.3	498.7	512.4	491.4	464.9	473.1	430.2	418.3	358.9	345.2	358.9
22.5°	550.8	556.2	583.6	550.8	538.9	543.4	488.6	429.3	349.8	413.7	391.8
25°	611.0	631.1	645.7	629.3	584.5	642.1	546.2	507.8	379.0	367.2	398.2
27.5°	701.5	702.4	696.0	675.9	664.9	671.3	611.9	483.2	379.0	350.7	344.3
30°	752.6	760.8	789.1	741.6	726.1	729.8	620.2	522.4	382.7	306.9	324.2
32.5°	854.0	827.5	811.1	754.4	787.3	732.5	689.6	546.2	367.2	285.9	287.7
35°	875.0	867.7	876.8	796.4	800.1	796.4	668.6	556.2	339.8	250.3	227.4
37.5°	919.7	897.8	884.1	838.5	851.2	778.2	670.4	550.8	320.6	206.4	184.5
40°	927.1	929.8	920.7	845.8	858.5	756.3	655.8	540.7	299.6	167.1	169.9
42.5°	947.1	927.1	910.6	845.8	860.4	747.1	667.7	532.5	270.4	144.3	158.9
45°	938.9	919.7	901.5	843.9	852.2	748.9	680.4	525.2	240.2	135.2	158.9
47.5°	928.9	912.4	889.6	847.6	851.2	764.5	705.1	521.5	203.7	134.3	159.8
50°	931.6	913.4	891.4	859.5	858.5	777.3	730.7	540.7	164.4	135.2	158.0
52.5°	942.6	922.5	897.8	873.2	870.4	833.9	866.8	558.1	133.3	135.2	155.3
55°	1009.3	986.4	973.6	980.9	978.2	1084.1	1261.3	577.2	115.1	134.3	151.6
57.5°	1285.1	1269.6	1278.7	1333.5	1346.3	1520.7	1623.9	602.8	107.8	132.4	148.0
60°	1842.2	1855.0	1822.1	1872.4	1845.9	1836.7	1783.8	652.1	103.2	129.7	144.3
62.5°	2571.1	2528.2	2411.2	2401.2	2303.5	2014.9	1804.8	664.9	100.5	127.0	139.7
65°	3319.1	3148.3	2909.0	2817.7	2644.1	2105.3	1703.4	618.3	98.6	125.1	133.3
67.5°	3815.1	3592.2	3264.3	3071.6	2811.3	2013.9	1311.6	535.2	95.9	121.5	126.0
70°	4037.0	3753.0	3341.9	3031.4	2677.9	1534.4	694.1	439.3	91.3	116.0	122.4
72.5°	3723.7	3449.7	2952.9	2568.3	2083.4	951.7	353.5	314.2	84.9	106.9	121.5
75°	2656.0	2351.9	1840.4	1497.0	1124.3	432.0	200.0	148.9	75.8	96.8	119.6
77.5°	1328.9	1065.9	745.3	590.0	463.1	223.8	88.6	74.0	65.8	85.9	100.5
80°	471.3	435.7	397.3	378.1	326.1	119.6	62.1	59.4	57.5	71.2	73.1
82.5°	311.5	290.4	266.7	250.3	200.9	83.1	48.4	51.1	47.5	58.5	50.2
85°	179.0	169.9	151.6	133.3	108.7	63.0	41.1	43.8	32.9	44.8	32.0
87.5°	84.0	79.5	74.9	69.4	62.1	45.7	22.8	41.1	21.0	28.3	16.4
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)