

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: P157101

Luminaire Tested: **UTLD-E02-LED-E-U-SL4-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157101
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-SL4-7050
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5163.7 lumens
Efficiency: N/A
Efficacy: 99.1 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

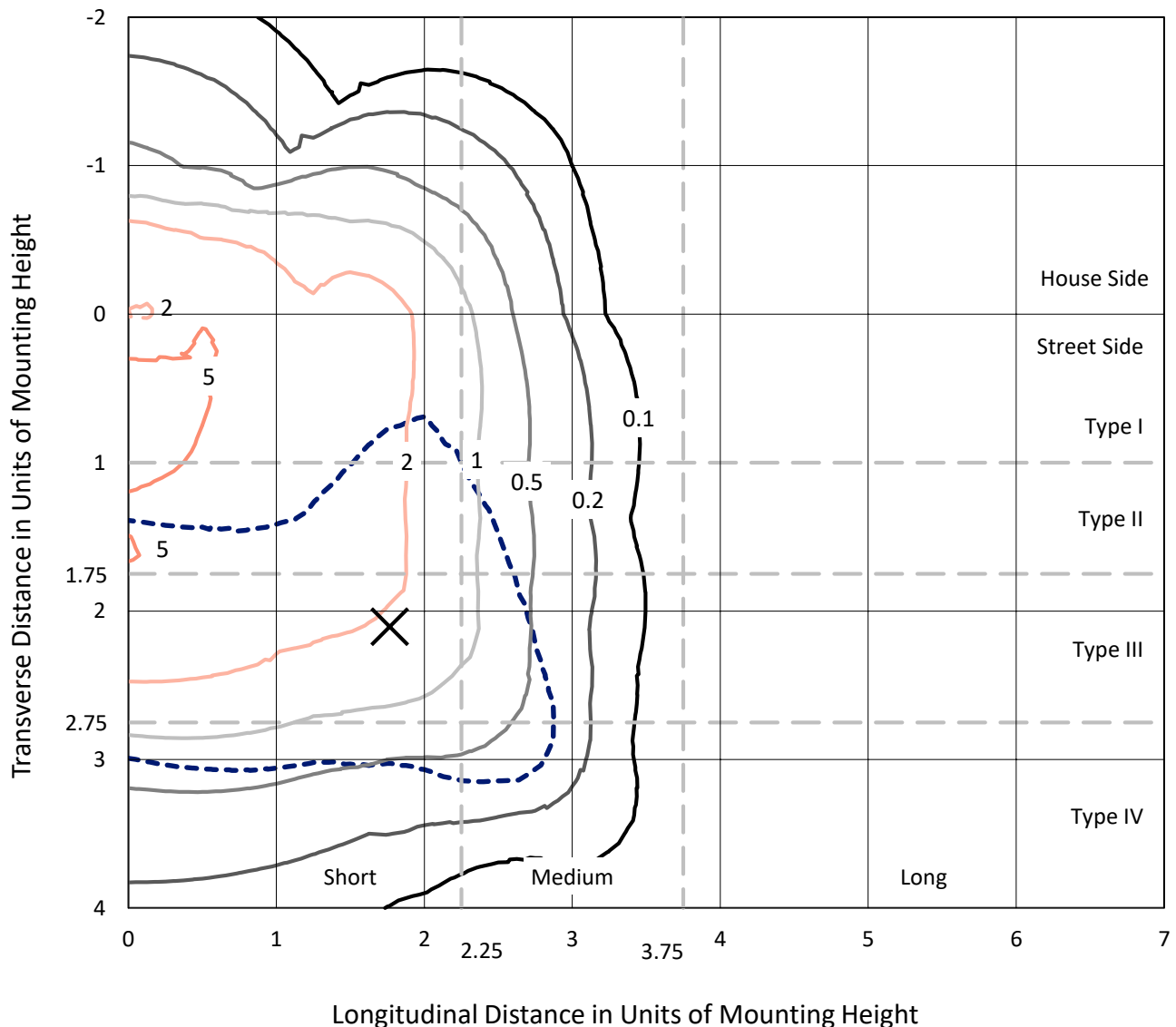


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

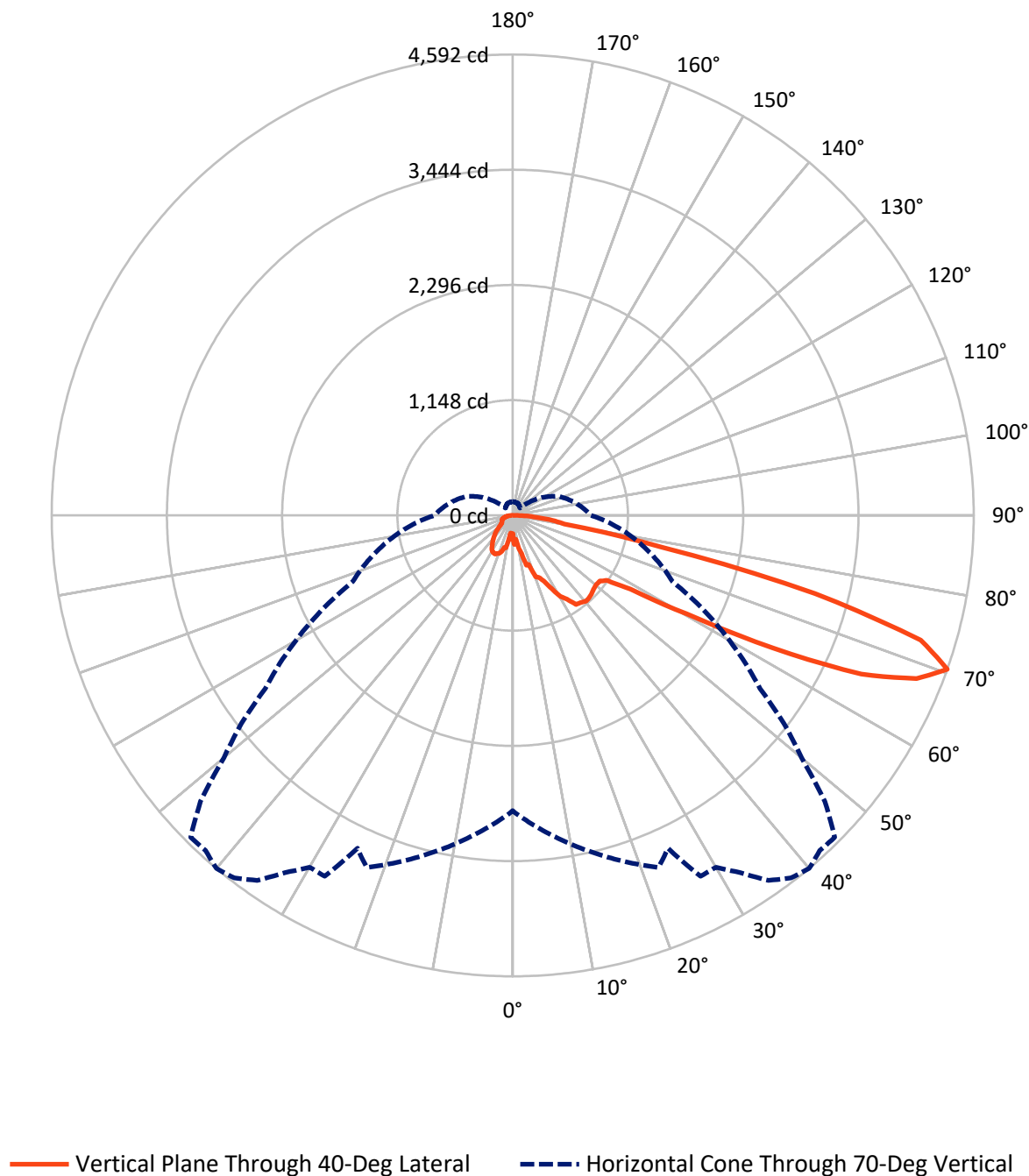


Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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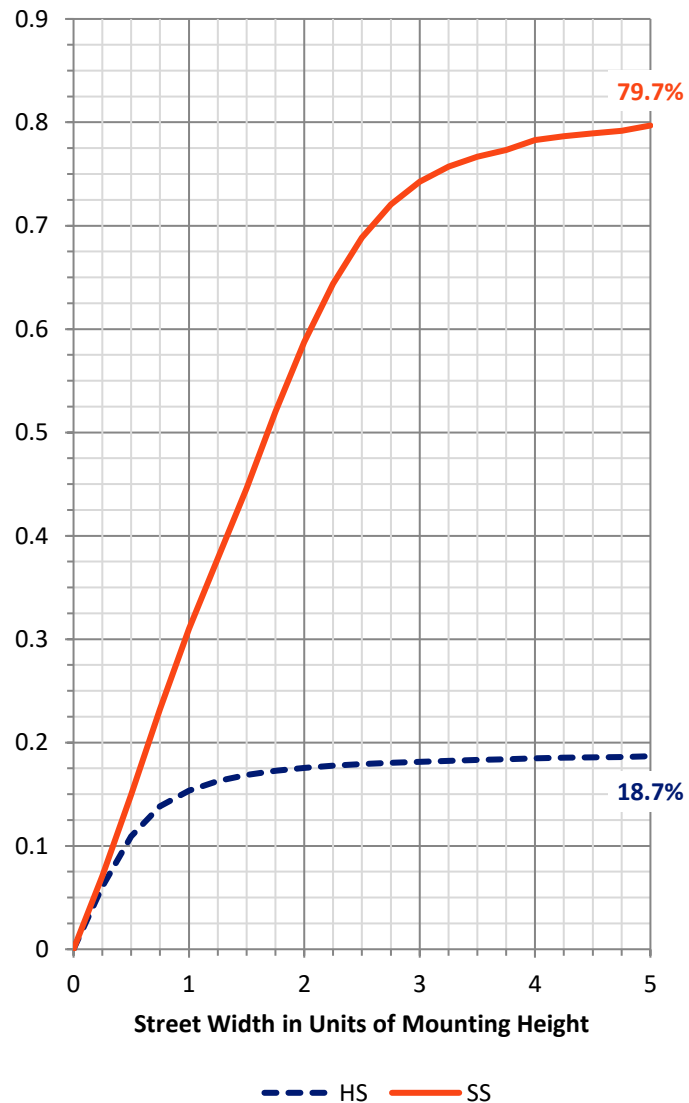
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	978.5	0.0	978.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	4185.2	0.0	4185.2
	% Fixture	81.1	0.0	81.1
Total	Lumens	5163.7	0.0	5163.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.2	0.4
10°-20°	115.1	2.2
20°-30°	282.6	5.5
30°-40°	472.9	9.2
40°-50°	598.4	11.6
50°-60°	928.8	18.0
60°-70°	1745.5	33.8
70°-80°	860.9	16.7
80°-90°	136.4	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°	5163.7	100.0
0°-180°	5163.7	100.0

Coefficient of Utilization



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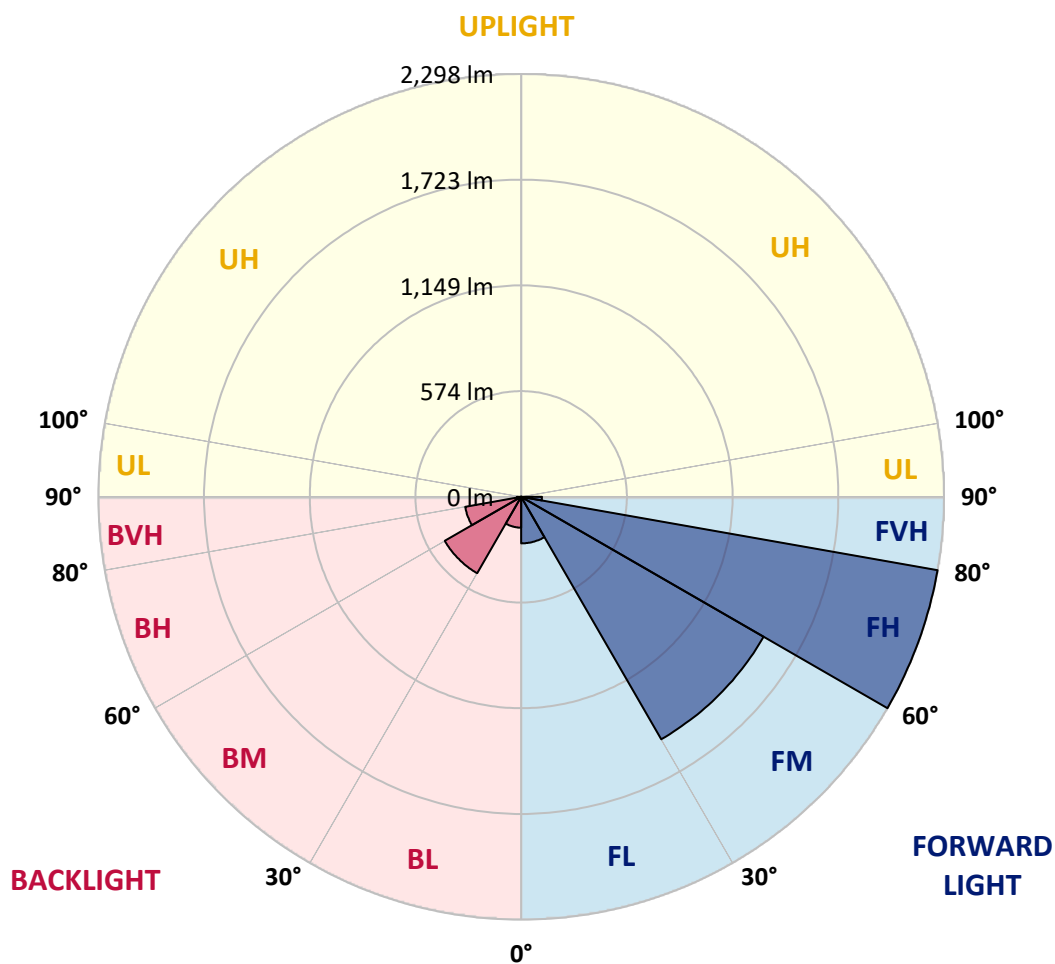
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	253.1	4.9			
FM	(30°-60°)	1521.2	29.5			
FH	(60°-80°)	2297.6	44.5			G2/5000
FVH	(80°-90°)	113.4	2.2			G2/225
BL	(0°-30°)	167.8	3.2	B1/500		
BM	(30°-60°)	478.9	9.3	B1/1000		
BH	(60°-80°)	308.8	6.0	B1/500		G1/500
BVH	(80°-90°)	23.0	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°	179.6	179.6	179.6	179.6	179.6	179.6	179.6	179.6	179.6	179.6	179.6
2.5°	288.3	282.2	288.3	287.3	292.4	291.4	291.4	288.3	287.3	290.4	289.4
5°	242.2	243.2	238.1	232.9	236.0	236.0	236.0	234.0	232.9	237.0	240.1
7.5°	359.1	360.2	357.1	352.0	359.1	352.0	348.9	330.4	297.6	243.2	240.1
10°	363.2	362.2	355.0	350.9	352.0	352.0	349.9	346.8	333.5	334.5	340.7
12.5°	471.0	471.0	454.6	441.2	447.4	435.1	366.3	353.0	346.8	389.9	429.9
15°	502.8	477.1	461.7	441.2	448.4	453.5	523.3	528.4	539.7	515.1	511.0
17.5°	589.0	590.0	567.4	562.3	622.8	596.2	535.6	528.4	537.7	514.1	510.0
20°	695.7	693.6	623.9	718.3	641.3	637.2	621.8	615.7	640.3	652.6	584.9
22.5°	723.4	724.4	761.4	801.4	738.8	713.1	685.4	685.4	680.3	672.1	637.2
25°	888.6	890.7	789.1	840.4	771.6	802.4	789.1	761.4	739.8	726.5	711.1
27.5°	972.7	959.4	923.5	987.1	947.1	914.3	853.7	800.4	824.0	825.0	801.4
30°	1111.3	1110.2	1082.5	1080.5	1002.5	962.5	974.8	940.9	919.4	936.8	867.1
32.5°	1325.7	1331.9	1151.3	1136.9	1110.2	1105.1	1061.0	1038.4	991.2	994.3	934.8
35°	1567.9	1569.9	1309.3	1218.0	1233.4	1181.0	1109.2	1090.8	1051.8	1088.7	1004.6
37.5°	1664.3	1662.3	1443.7	1307.3	1283.7	1211.8	1178.0	1161.6	1113.3	1102.0	1030.2
40°	1822.4	1823.4	1529.9	1347.3	1359.6	1268.3	1239.5	1186.2	1119.5	1124.6	1041.5
42.5°	1874.7	1874.7	1555.6	1356.5	1384.2	1304.2	1245.7	1188.2	1129.7	1119.5	1052.8
45°	1896.2	1897.3	1543.3	1363.7	1353.4	1297.0	1230.3	1179.0	1118.5	1105.1	1043.5
47.5°	1893.2	1892.1	1521.7	1361.6	1341.1	1273.4	1230.3	1173.9	1106.1	1088.7	1032.3
50°	1870.6	1872.6	1515.6	1350.4	1356.5	1264.2	1231.3	1167.7	1106.1	1080.5	1031.2
52.5°	1894.2	1899.3	1543.3	1355.5	1386.3	1297.0	1242.6	1180.0	1122.6	1086.6	1042.5
55°	2416.5	2453.4	1707.4	1443.7	1505.3	1400.6	1310.3	1246.7	1182.1	1142.1	1104.1
57.5°	3435.4	3438.5	2380.6	1824.4	1946.5	1770.0	1606.9	1552.5	1436.5	1384.2	1369.9
60°	3821.2	3834.6	3194.3	2620.7	2873.1	2599.1	2404.2	2299.5	2142.5	1989.6	1956.8
62.5°	4051.1	4060.3	3630.4	3152.2	3500.0	3320.5	3208.6	3195.3	3039.3	2910.0	2842.3
65°	4206.0	4207.0	3940.2	3497.0	3876.6	3716.6	3741.2	3871.5	3834.6	3814.0	3727.8
67.5°	4031.6	4038.8	4098.3	3768.9	4141.4	4040.8	4166.0	4313.7	4328.1	4339.4	4250.1
70°	2939.8	2956.2	3797.6	3658.1	4052.1	4047.0	4218.3	4438.9	4552.8	4591.8	4528.2
72.5°	1863.4	1849.0	2512.9	2687.4	2962.4	3212.7	3536.0	3885.9	4179.3	4251.2	4196.8
75°	1303.2	1299.0	1355.5	1384.2	1611.0	1673.6	2003.0	2523.2	2900.8	3109.1	3118.3
77.5°	827.0	827.0	817.8	772.7	799.3	773.7	790.1	905.0	1117.4	1522.7	1606.9
80°	683.4	684.4	607.5	559.2	589.0	582.8	554.1	541.8	527.4	520.2	559.2
82.5°	460.7	453.5	515.1	474.1	489.5	483.3	472.0	458.7	438.1	400.2	366.3
85°	338.6	333.5	315.0	283.2	300.6	297.6	291.4	277.0	266.8	235.0	215.5
87.5°	254.5	252.4	229.8	184.7	195.0	182.6	165.2	147.8	135.4	115.9	101.6
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°	179.6	179.6	179.6	179.6	179.6	179.6	179.6	179.6	179.6	179.6	179.6
2.5°	289.4	289.4	289.4	283.2	276.0	204.2	177.5	175.5	180.6	252.4	280.1
5°	237.0	232.9	231.9	231.9	234.0	276.0	173.4	177.5	250.4	175.5	174.4
7.5°	237.0	232.9	230.9	227.8	227.8	215.5	169.3	243.2	169.3	197.0	280.1
10°	340.7	330.4	328.4	332.5	324.2	310.9	247.3	258.6	236.0	279.1	280.1
12.5°	428.9	428.9	426.9	437.1	432.0	304.8	270.9	250.4	341.7	294.5	374.5
15°	461.7	427.9	435.1	433.0	423.8	442.3	334.5	316.0	324.2	342.7	361.2
17.5°	525.4	562.3	583.9	557.2	487.4	462.8	403.3	323.2	370.4	390.9	439.2
20°	565.4	560.3	575.6	552.0	522.3	531.5	483.3	470.0	403.3	387.9	403.3
22.5°	618.7	624.9	655.7	618.7	605.4	610.5	549.0	482.3	393.0	464.8	440.2
25°	686.5	709.0	725.5	707.0	656.7	721.4	613.6	570.5	425.8	412.5	447.4
27.5°	788.0	789.1	781.9	759.3	747.0	754.2	687.5	542.8	425.8	394.0	386.8
30°	845.5	854.7	886.6	833.2	815.8	819.9	696.7	586.9	429.9	344.8	364.3
32.5°	959.4	929.7	911.2	847.6	884.5	822.9	774.7	613.6	412.5	321.2	323.2
35°	983.0	974.8	985.1	894.8	898.9	894.8	751.1	624.9	381.7	281.2	255.5
37.5°	1033.3	1008.7	993.3	942.0	956.3	874.2	753.2	618.7	360.2	231.9	207.3
40°	1041.5	1044.6	1034.3	950.2	964.5	849.6	736.7	607.5	336.6	187.8	190.9
42.5°	1064.1	1041.5	1023.0	950.2	966.6	839.4	750.1	598.2	303.7	162.1	178.5
45°	1054.8	1033.3	1012.8	948.1	957.4	841.4	764.4	590.0	269.9	151.9	178.5
47.5°	1043.5	1025.1	999.4	952.2	956.3	858.9	792.2	585.9	228.8	150.8	179.6
50°	1046.6	1026.1	1001.5	965.6	964.5	873.2	820.9	607.5	184.7	151.9	177.5
52.5°	1058.9	1036.4	1008.7	981.0	977.9	936.8	973.8	627.0	149.8	151.9	174.4
55°	1133.8	1108.2	1093.8	1102.0	1099.0	1218.0	1417.1	648.5	129.3	150.8	170.3
57.5°	1443.7	1426.3	1436.5	1498.1	1512.5	1708.5	1824.4	677.2	121.1	148.8	166.2
60°	2069.7	2084.0	2047.1	2103.5	2073.8	2063.5	2004.0	732.6	115.9	145.7	162.1
62.5°	2888.5	2840.3	2708.9	2697.6	2587.8	2263.6	2027.6	747.0	112.9	142.6	157.0
65°	3728.9	3537.0	3268.1	3165.5	2970.6	2365.2	1913.7	694.7	110.8	140.6	149.8
67.5°	4286.0	4035.7	3667.3	3450.8	3158.4	2262.6	1473.5	601.3	107.7	136.5	141.6
70°	4535.4	4216.3	3754.5	3405.6	3008.5	1723.9	779.8	493.6	102.6	130.3	137.5
72.5°	4183.4	3875.6	3317.4	2885.4	2340.5	1069.2	397.1	353.0	95.4	120.1	136.5
75°	2983.9	2642.2	2067.6	1681.8	1263.1	485.3	224.7	167.3	85.2	108.8	134.4
77.5°	1493.0	1197.5	837.3	662.9	520.2	251.4	99.5	83.1	73.9	96.5	112.9
80°	529.5	489.5	446.4	424.8	366.3	134.4	69.8	66.7	64.6	80.0	82.1
82.5°	349.9	326.3	299.6	281.2	225.7	93.4	54.4	57.5	53.4	65.7	56.4
85°	201.1	190.9	170.3	149.8	122.1	70.8	46.2	49.3	36.9	50.3	35.9
87.5°	94.4	89.3	84.1	78.0	69.8	51.3	25.7	46.2	23.6	31.8	18.5
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)