

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: P239608

Luminaire Tested: **UTLD-AF24-50-D-U-T2U-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-13-U0)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-50-D-U-T2U-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN
UPPER HEMISPHERE NOT REPORTED.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5016 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 54
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



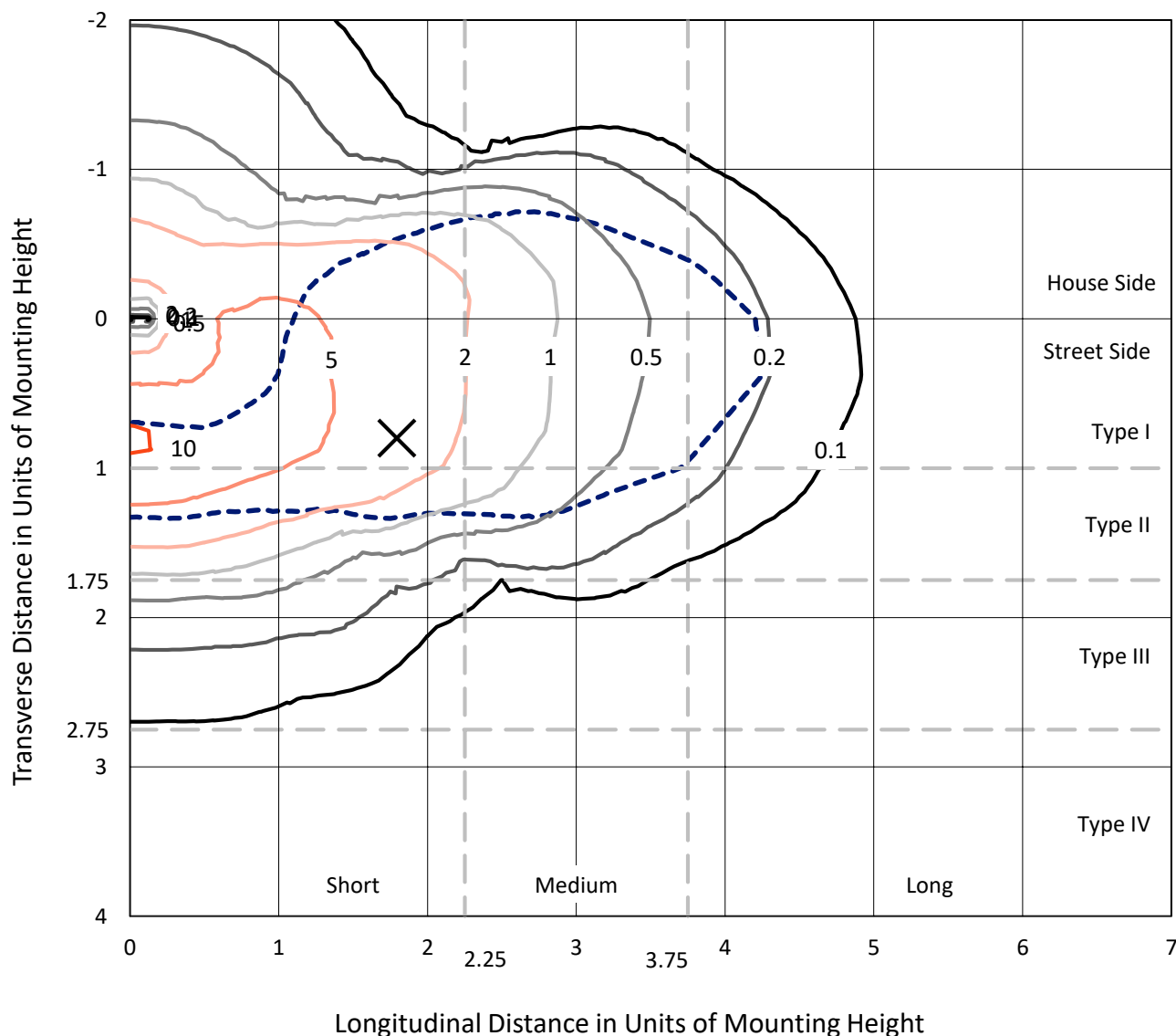
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

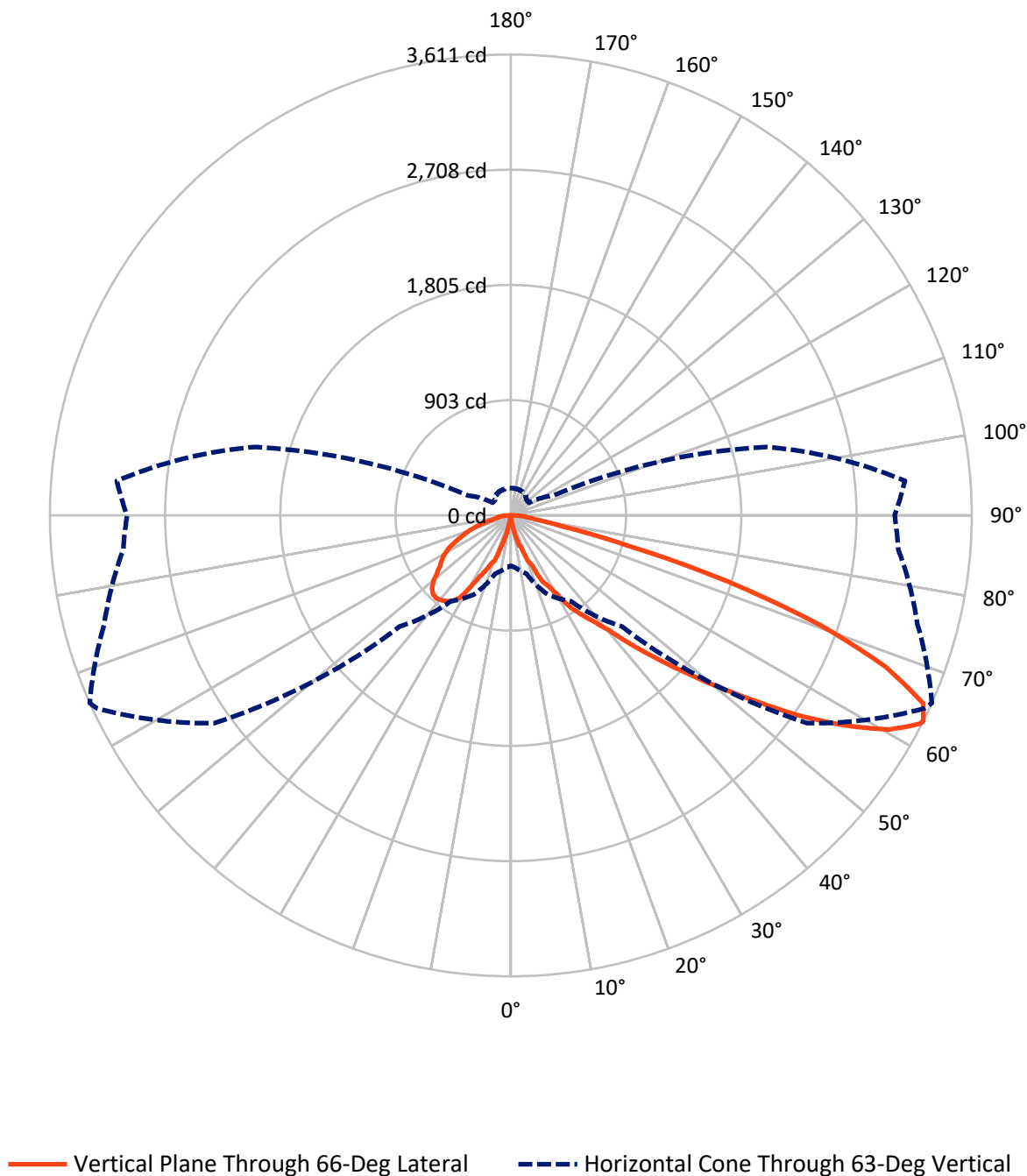


Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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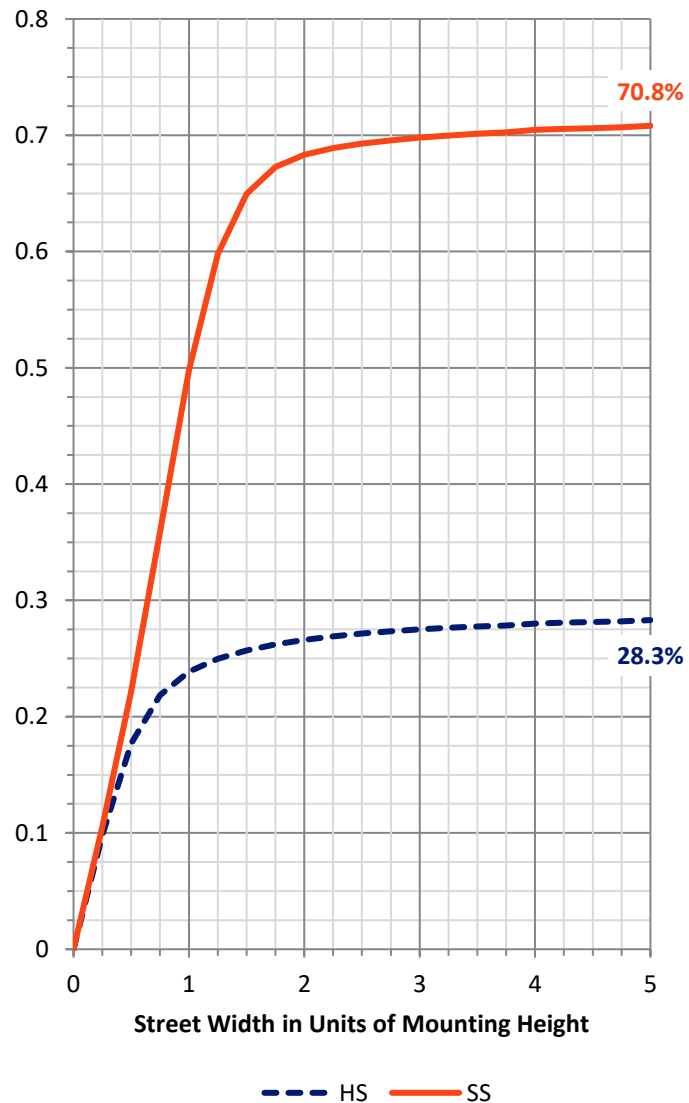
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1444.6	0.0	1444.6
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	3571.4	0.0	3571.4
	% Fixture	71.2	0.0	71.2
Total	Lumens	5016.0	0.0	5016.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.1
10°-20°	66.2	1.3
20°-30°	243.5	4.9
30°-40°	554.2	11.0
40°-50°	997.9	19.9
50°-60°	1302.8	26.0
60°-70°	1157.5	23.1
70°-80°	588.0	11.7
80°-90°	101.0	2.0
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°	5016.0	100.0
0°-180°	5016.0	100.0

Coefficient of Utilization



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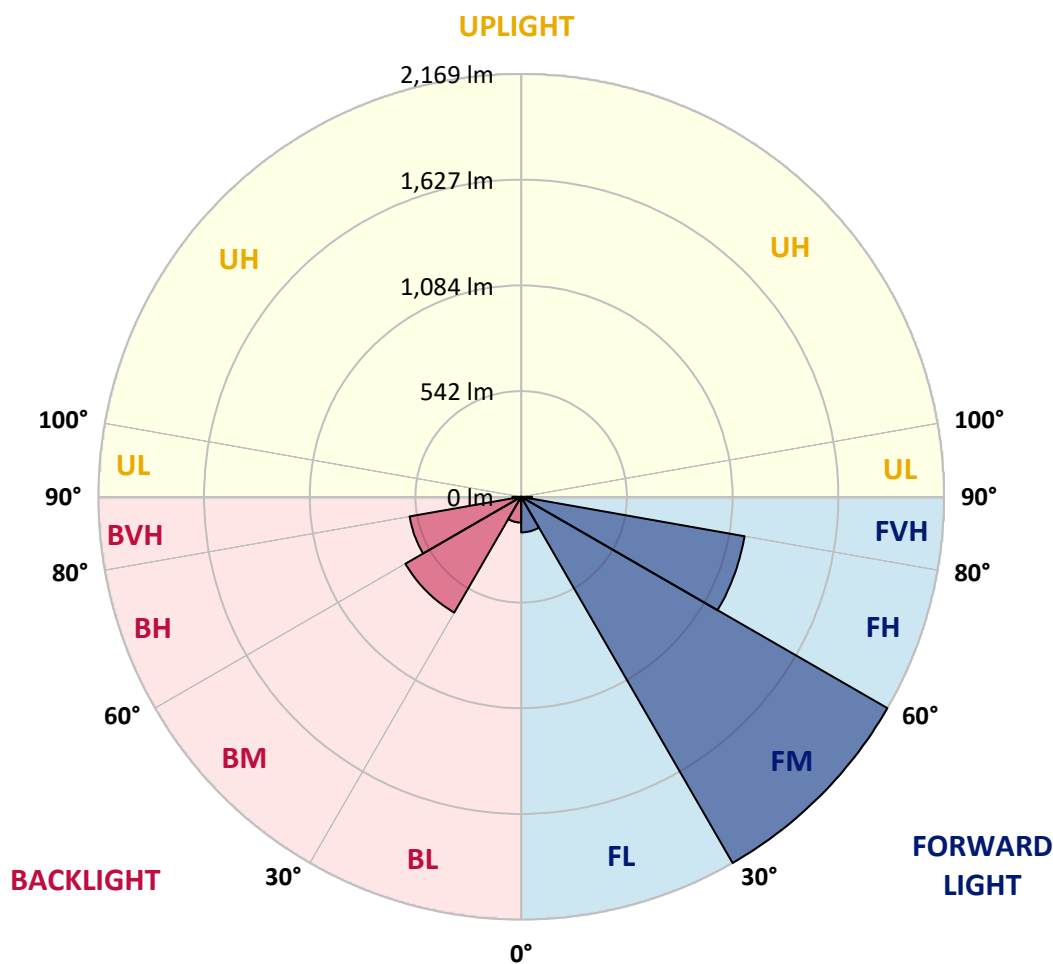
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	182.4	3.6			
FM	(30°-60°)	2168.9	43.2			
FH	(60°-80°)	1163.9	23.2			G1/1800
FVH	(80°-90°)	56.1	1.1			G1/100
BL	(0°-30°)	132.2	2.6	B1/500		
BM	(30°-60°)	686.0	13.7	B1/1000		
BH	(60°-80°)	581.5	11.6	B2/1000		G2/1000
BVH	(80°-90°)	45.0	0.9			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2.5°	12.6	12.6	10.9	8.6	6.9	5.7	4.0	2.9	2.9	1.7	1.1
5°	116.0	116.0	115.5	114.9	113.7	109.1	20.1	6.3	5.7	2.9	1.7
7.5°	118.3	117.8	117.8	116.6	116.0	113.7	112.0	43.7	36.8	6.3	3.4
10°	212.0	210.8	209.1	141.3	119.5	116.6	116.0	91.3	90.8	19.5	14.4
12.5°	221.2	221.7	220.0	218.3	213.7	133.8	128.1	165.4	168.3	193.6	150.5
15°	252.2	248.7	236.1	228.0	224.0	210.2	239.5	239.0	240.1	226.9	172.3
17.5°	357.9	356.7	353.8	332.0	246.4	315.9	302.1	257.3	260.8	297.5	297.5
20°	403.8	403.2	392.9	380.8	422.8	340.6	324.5	378.0	380.8	384.9	356.1
22.5°	606.6	606.0	581.3	446.9	475.0	427.4	429.7	430.8	420.5	414.7	445.7
25°	703.7	699.1	685.3	645.1	563.5	569.2	469.9	565.2	569.8	566.4	559.5
27.5°	992.6	993.2	878.3	761.1	691.6	640.5	646.2	627.3	626.7	616.4	643.9
30°	1156.9	1148.8	1108.6	994.9	825.4	757.1	725.5	737.6	719.2	784.1	778.9
32.5°	1544.0	1544.0	1405.0	1154.6	994.9	938.6	843.2	846.7	860.5	851.3	864.5
35°	1816.3	1790.5	1653.2	1449.8	1128.2	1055.2	998.3	948.4	954.1	938.0	950.7
37.5°	2105.2	2079.4	1927.7	1667.0	1363.7	1233.9	1128.7	1066.7	1052.3	1053.5	1063.2
40°	2329.8	2315.5	2222.4	1934.6	1596.3	1424.6	1281.5	1197.1	1181.6	1209.7	1241.3
42.5°	2486.7	2480.9	2425.8	2171.9	1870.9	1713.5	1499.8	1377.5	1380.3	1395.3	1426.9
45°	2549.3	2536.1	2534.3	2321.8	2118.5	2039.2	1785.3	1583.1	1593.4	1634.2	1640.5
47.5°	2480.9	2453.3	2503.3	2383.8	2324.1	2329.3	2111.6	1848.5	1838.1	1877.2	1873.8
50°	2230.5	2221.3	2317.2	2336.2	2425.8	2544.7	2469.4	2144.3	2114.4	2117.9	2094.3
52.5°	1842.2	1864.6	1990.9	2123.1	2378.1	2661.3	2789.4	2456.8	2430.9	2358.0	2312.6
55°	1480.9	1507.8	1644.6	1747.4	2136.3	2653.2	3023.2	2769.3	2783.6	2596.4	2511.9
57.5°	1083.9	1119.0	1300.5	1387.2	1750.3	2459.7	3142.1	3073.7	3108.8	2831.9	2701.5
60°	692.7	706.0	889.2	1061.5	1273.5	2004.1	3130.6	3364.4	3406.3	3085.8	2877.8
62.5°	432.5	446.9	506.6	747.3	900.7	1358.5	2908.9	3557.4	3595.9	3267.9	3024.9
63°	394.1	410.7	472.2	683.0	820.8	1229.3	2835.3	3576.9	3610.8	3298.3	3046.7
65°	293.5	300.4	332.6	460.7	602.6	772.0	2321.8	3508.5	3551.1	3324.2	3055.3
67.5°	256.2	259.1	270.6	303.9	430.8	449.2	1352.8	3143.2	3169.6	3226.5	2946.8
70°	234.4	236.1	256.8	259.1	337.8	318.8	496.3	2469.4	2569.4	3028.3	2757.8
72.5°	203.3	205.6	229.8	252.2	261.9	253.3	268.3	1667.5	1788.2	2587.2	2550.4
75°	170.0	172.3	193.6	223.4	228.0	201.0	220.0	873.7	959.3	1896.7	2231.0
77.5°	139.6	141.3	160.3	180.9	209.7	154.5	178.6	329.1	407.8	1171.8	1606.1
80°	95.9	100.5	121.2	140.2	160.3	140.2	133.8	188.4	199.3	568.7	820.8
82.5°	73.0	74.1	94.2	102.2	113.2	138.4	105.1	141.9	149.9	264.8	266.5
85°	50.5	49.4	66.6	71.2	78.7	87.3	87.9	103.4	106.8	152.8	112.0
87.5°	23.0	21.8	36.2	35.0	39.6	43.1	62.6	56.9	58.0	95.9	60.3
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°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2.5°	1.1	1.1	1.1	1.7	1.7	1.7	1.1	0.6	0.6	0.6	0.6
5°	1.1	1.1	1.1	1.7	1.7	2.3	2.9	2.9	3.4	4.0	4.0
7.5°	2.9	2.3	2.3	2.3	3.4	5.2	13.8	59.7	104.5	110.3	112.0
10°	12.6	12.6	9.2	7.5	8.6	94.2	121.8	125.8	128.1	129.2	129.2
12.5°	156.8	175.2	163.7	87.9	94.8	117.2	130.4	133.3	136.7	166.0	171.8
15°	190.7	192.4	194.2	180.4	249.9	184.4	153.9	232.6	236.7	238.4	237.8
17.5°	289.5	294.7	272.3	242.4	265.4	274.6	224.0	245.3	249.3	252.7	252.7
20°	375.7	376.2	352.7	377.4	322.8	334.3	291.8	276.9	355.6	359.0	358.4
22.5°	463.0	469.9	388.9	402.7	424.5	354.4	368.8	328.6	345.8	345.8	345.2
25°	573.3	571.0	533.1	465.9	445.7	419.3	378.5	342.9	390.0	412.4	412.4
27.5°	679.5	646.8	555.5	535.9	511.2	440.0	373.9	393.5	382.6	385.4	384.9
30°	802.5	792.7	710.0	638.2	525.0	427.4	391.2	356.1	375.1	397.5	395.2
32.5°	864.5	839.2	740.4	770.9	550.3	411.9	340.6	334.9	340.6	348.7	349.8
35°	946.1	904.7	807.6	813.4	554.3	361.3	303.3	299.8	331.4	346.4	348.1
37.5°	1051.2	1001.8	920.2	832.3	520.4	318.8	268.8	287.8	298.7	305.6	303.3
40°	1186.2	1127.6	1066.7	837.5	463.6	275.1	249.9	265.4	275.7	277.4	277.4
42.5°	1351.6	1270.6	1217.2	834.6	389.5	252.2	237.2	249.3	262.5	261.4	260.2
45°	1546.9	1449.3	1340.1	815.1	317.1	239.5	230.9	239.0	248.7	244.7	243.0
47.5°	1757.7	1652.6	1448.7	775.5	270.0	230.3	227.5	227.5	238.4	237.2	236.7
50°	1971.4	1863.4	1562.4	714.6	244.1	222.3	216.0	223.4	236.1	233.8	232.6
52.5°	2182.8	2085.7	1650.9	630.1	228.0	215.4	211.4	221.2	232.6	230.3	229.8
55°	2377.5	2314.9	1745.7	562.9	211.4	203.3	211.4	219.4	228.6	226.3	226.3
57.5°	2578.6	2560.2	1864.0	509.5	197.6	194.2	209.1	216.6	224.0	222.9	222.9
60°	2780.2	2830.7	1972.6	452.6	186.7	183.2	204.5	213.1	219.4	218.9	218.9
62.5°	2974.9	3068.5	2058.1	386.0	176.3	174.6	198.7	208.5	213.7	214.8	214.8
63°	3006.5	3099.0	2070.8	366.5	174.0	173.5	197.6	207.4	212.0	213.7	213.7
65°	3065.1	3173.1	2090.9	301.6	164.3	167.2	191.3	203.3	206.2	210.2	209.1
67.5°	3012.3	3102.4	2031.1	232.6	152.2	158.0	181.5	194.7	197.6	203.3	200.5
70°	2893.9	2888.2	1828.9	189.6	143.0	148.2	170.6	185.0	186.1	191.9	186.1
72.5°	2671.0	2468.9	1441.2	160.8	133.8	138.4	159.1	172.9	173.5	175.8	170.0
75°	2232.8	1920.3	866.2	139.0	122.4	125.8	146.5	158.0	159.7	156.2	153.4
77.5°	1524.5	1207.4	394.6	121.8	112.0	112.6	131.0	141.3	141.9	134.4	134.4
80°	733.5	565.8	164.3	109.1	101.7	99.4	114.9	122.9	122.4	113.7	110.3
82.5°	232.1	206.8	122.4	95.4	90.8	85.6	99.9	103.4	104.0	104.5	83.9
85°	92.5	95.9	94.8	78.7	76.4	64.9	79.8	84.4	82.7	69.5	59.2
87.5°	48.3	59.2	58.0	52.8	54.6	41.4	55.1	52.8	54.0	36.2	28.1
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)