

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: P266370

Luminaire Tested: **UTLD-AF24-50-D-U-T2U-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-13-U0)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-50-D-U-T2U-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 4923.1 lumens
Efficiency: N/A
Efficacy: 91.2 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



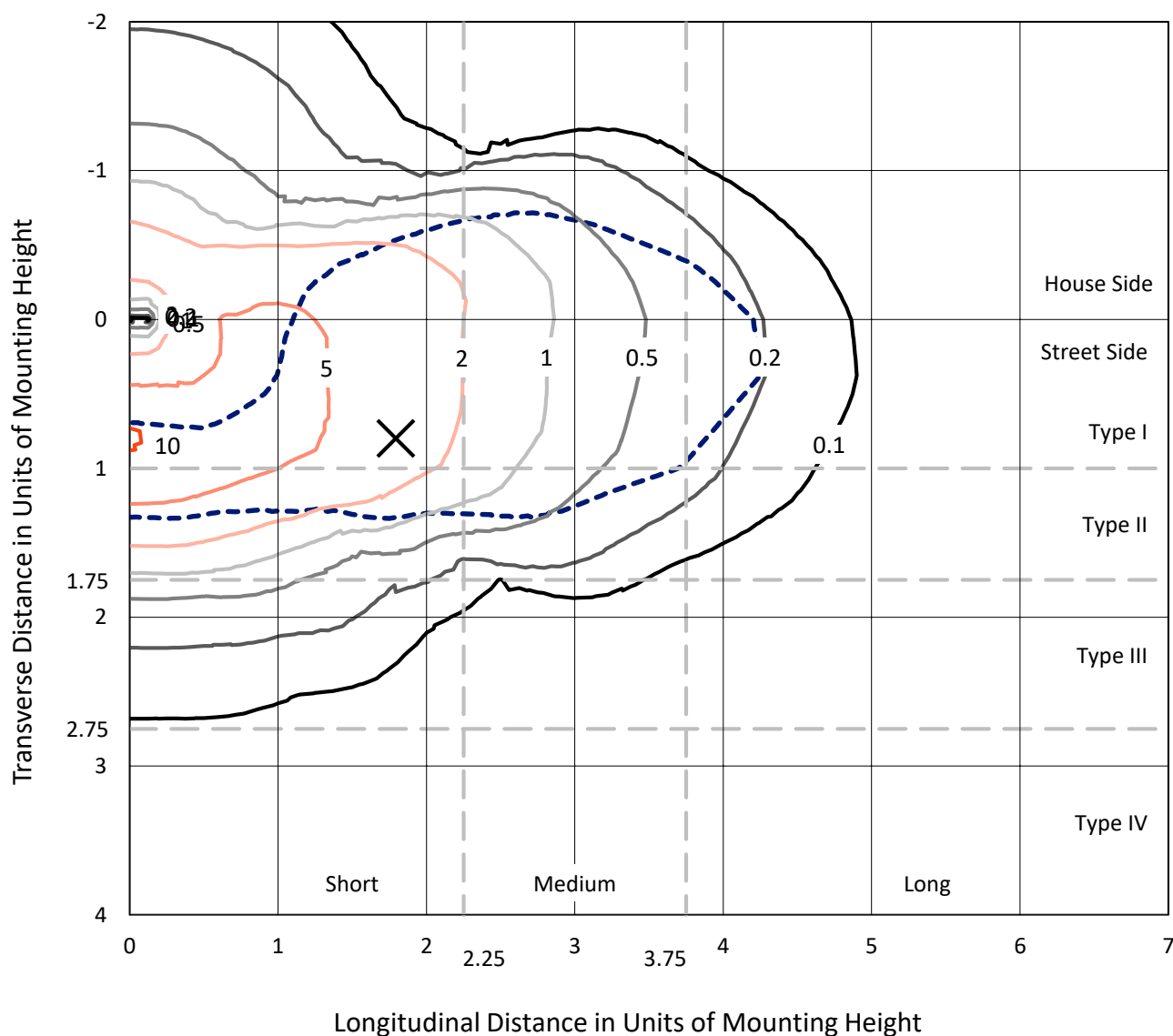
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

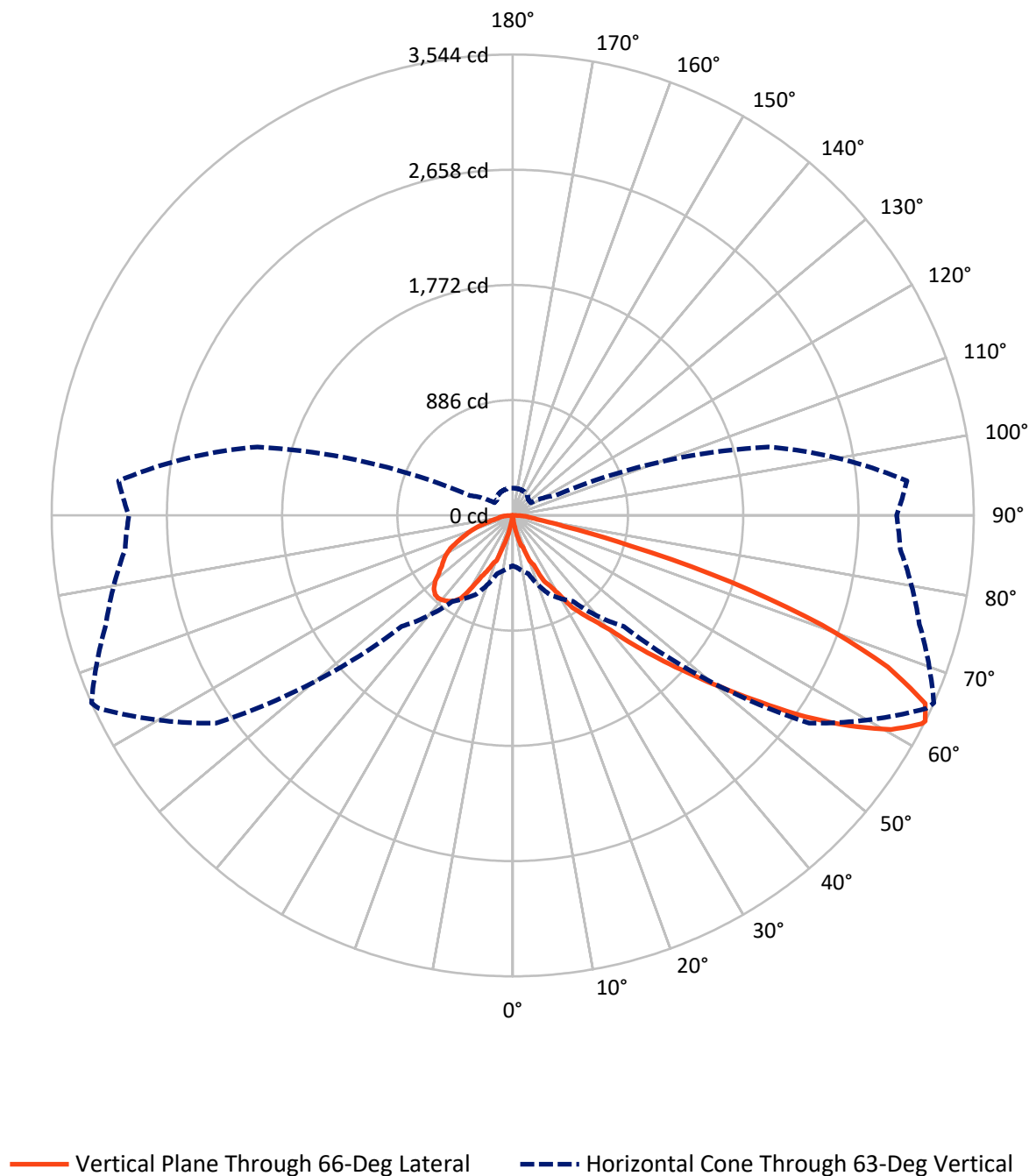


Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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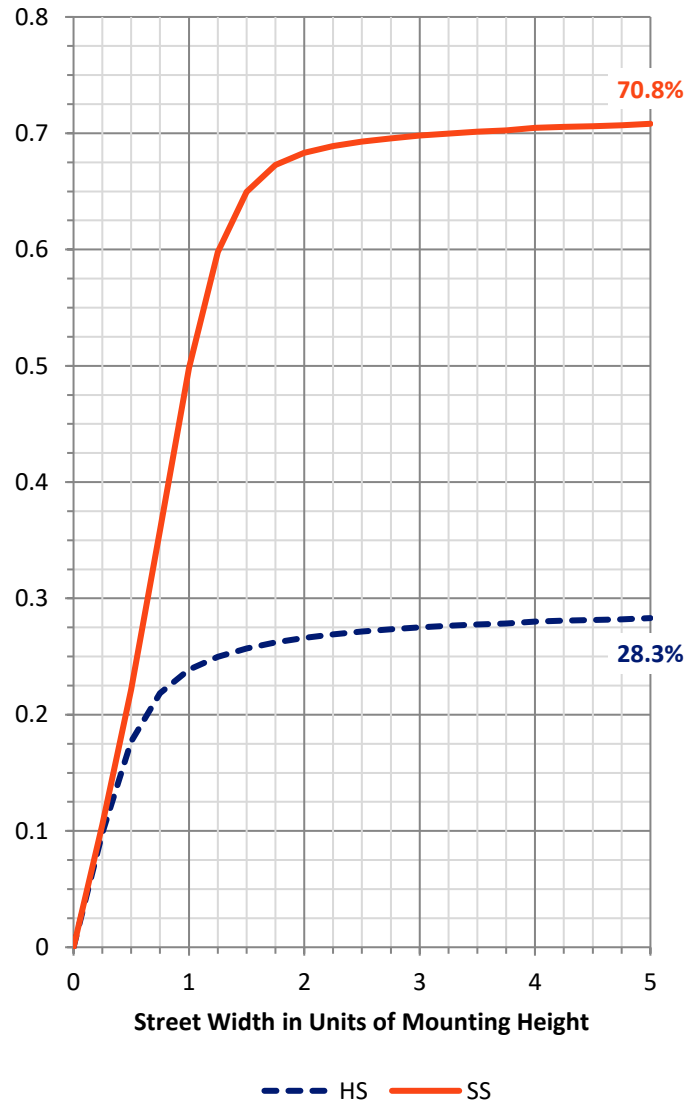
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1417.9	0.0	1417.9
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	3505.2	0.0	3505.2
	% Fixture	71.2	0.0	71.2
Total	Lumens	4923.1	0.0	4923.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.1
10°-20°	65.0	1.3
20°-30°	239.0	4.9
30°-40°	543.9	11.0
40°-50°	979.4	19.9
50°-60°	1278.7	26.0
60°-70°	1136.0	23.1
70°-80°	577.1	11.7
80°-90°	99.2	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°	4923.1	100.0
0°-180°	4923.1	100.0

Coefficient of Utilization



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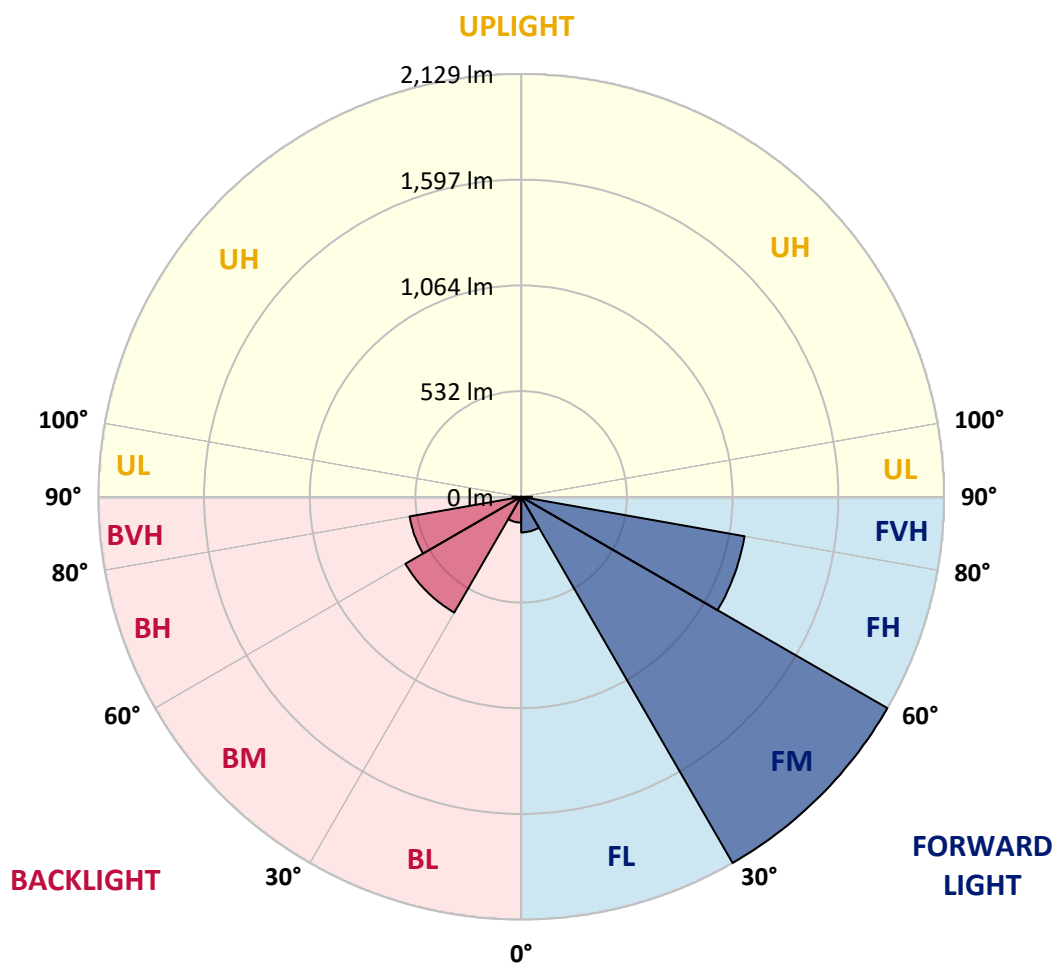
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	179.0	3.6			
FM	(30°-60°)	2128.8	43.2			
FH	(60°-80°)	1142.4	23.2			G1/1800
FVH	(80°-90°)	55.0	1.1			G1/100
BL	(0°-30°)	129.8	2.6	B1/500		
BM	(30°-60°)	673.3	13.7	B1/1000		
BH	(60°-80°)	570.7	11.6	B2/1000		G2/1000
BVH	(80°-90°)	44.1	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°	12.3	12.3	10.7	8.4	6.7	5.6	4.0	2.9	2.9	1.6	1.1
5°	113.8	113.8	113.4	112.7	111.6	107.1	19.8	6.2	5.6	2.9	1.6
7.5°	116.2	115.6	115.6	114.4	113.8	111.6	110.0	42.8	36.1	6.2	3.4
10°	208.0	206.9	205.3	138.7	117.3	114.4	113.8	89.7	89.1	19.1	14.2
12.5°	217.1	217.6	216.0	214.2	209.8	131.3	125.8	162.4	165.2	190.0	147.7
15°	247.6	244.1	231.8	223.8	219.8	206.3	235.0	234.5	235.6	222.7	169.2
17.5°	351.2	350.1	347.3	325.8	241.9	310.1	296.5	252.6	255.9	291.9	291.9
20°	396.3	395.8	385.6	373.8	414.9	334.3	318.4	371.0	373.8	377.7	349.5
22.5°	595.3	594.8	570.6	438.6	466.2	419.5	421.8	422.8	412.7	407.0	437.5
25°	690.6	686.1	672.7	633.1	553.0	558.7	461.2	554.8	559.3	556.0	549.1
27.5°	974.2	974.8	862.1	747.0	678.8	628.6	634.3	615.7	615.1	605.0	632.0
30°	1135.5	1127.6	1088.0	976.5	810.1	743.1	712.0	723.9	705.9	769.6	764.5
32.5°	1515.4	1515.4	1379.0	1133.2	976.5	921.2	827.6	831.0	844.5	835.6	848.4
35°	1782.6	1757.4	1622.6	1422.9	1107.3	1035.7	979.8	930.9	936.5	920.7	933.1
37.5°	2066.2	2040.9	1892.0	1636.2	1338.5	1211.0	1107.8	1047.0	1032.8	1033.9	1043.6
40°	2286.6	2272.6	2181.3	1898.7	1566.7	1398.2	1257.7	1175.0	1159.7	1187.3	1218.3
42.5°	2440.7	2434.9	2380.9	2131.7	1836.2	1681.7	1472.1	1351.9	1354.7	1369.5	1400.5
45°	2502.0	2489.2	2487.3	2278.8	2079.2	2001.5	1752.2	1553.8	1563.9	1604.0	1610.1
47.5°	2434.9	2407.8	2457.0	2339.6	2281.1	2286.1	2072.5	1814.2	1804.1	1842.5	1839.1
50°	2189.2	2180.1	2274.2	2293.0	2380.9	2497.6	2423.6	2104.5	2075.3	2078.7	2055.5
52.5°	1808.1	1830.0	1954.1	2083.8	2334.1	2612.0	2737.8	2411.3	2385.9	2314.4	2269.7
55°	1453.5	1479.9	1614.2	1715.0	2096.7	2604.0	2967.2	2718.0	2732.0	2548.3	2465.4
57.5°	1063.9	1098.3	1276.4	1361.6	1717.9	2414.1	3083.9	3016.8	3051.3	2779.4	2651.4
60°	679.8	693.0	872.8	1041.9	1249.9	1967.0	3072.7	3302.1	3343.2	3028.6	2824.5
62.5°	424.4	438.6	497.2	733.5	884.0	1333.4	2855.1	3491.5	3529.4	3207.4	2968.9
63°	386.8	403.1	463.4	670.3	805.6	1206.6	2782.8	3510.7	3544.0	3237.2	2990.3
65°	288.0	294.9	326.4	452.1	591.4	757.7	2278.8	3443.6	3485.3	3262.6	2998.7
67.5°	251.4	254.3	265.5	298.2	422.8	440.9	1327.8	3085.0	3110.9	3166.7	2892.3
70°	230.1	231.8	252.1	254.3	331.6	312.9	487.2	2423.6	2521.8	2972.2	2706.8
72.5°	199.6	201.8	225.6	247.6	257.1	248.7	263.4	1636.6	1755.1	2539.2	2503.1
75°	166.8	169.2	190.0	219.2	223.8	197.3	216.0	857.5	941.6	1861.6	2189.7
77.5°	137.0	138.7	157.4	177.5	205.8	151.6	175.3	323.0	400.3	1150.1	1576.3
80°	94.1	98.6	118.9	137.6	157.4	137.6	131.3	185.0	195.7	558.1	805.6
82.5°	71.7	72.8	92.4	100.3	111.1	135.9	103.1	139.2	147.1	259.9	261.5
85°	49.5	48.5	65.3	69.9	77.3	85.7	86.2	101.5	104.8	149.9	110.0
87.5°	22.5	21.4	35.6	34.3	38.8	42.3	61.4	55.9	57.0	94.1	59.2
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	1.6	1.6	1.6	1.1	0.5	0.5	0.5	0.5
5°	1.1	1.1	1.1	1.6	1.6	2.2	2.9	2.9	3.4	4.0	4.0
7.5°	2.9	2.2	2.2	2.2	3.4	5.1	13.6	58.6	102.5	108.2	110.0
10°	12.3	12.3	9.1	7.4	8.4	92.4	119.6	123.4	125.8	126.8	126.8
12.5°	153.9	171.9	160.6	86.2	93.1	115.1	128.0	130.9	134.1	163.0	168.6
15°	187.1	188.9	190.6	177.1	245.2	181.0	151.1	228.3	232.3	234.0	233.4
17.5°	284.1	289.3	267.2	238.0	260.5	269.5	219.8	240.7	244.7	248.0	248.0
20°	368.8	369.3	346.1	370.5	316.8	328.2	286.4	271.7	349.0	352.3	351.7
22.5°	454.5	461.2	381.7	395.3	416.6	347.9	361.9	322.5	339.4	339.4	338.8
25°	562.7	560.5	523.3	457.2	437.5	411.6	371.4	336.5	382.8	404.7	404.7
27.5°	666.9	634.8	545.2	526.0	501.8	431.8	367.0	386.2	375.5	378.2	377.7
30°	787.6	778.0	696.8	626.4	515.3	419.5	383.9	349.5	368.1	390.1	387.9
32.5°	848.4	823.7	726.6	756.6	540.2	404.2	334.3	328.7	334.3	342.3	343.3
35°	928.6	888.0	792.7	798.4	544.1	354.7	297.7	294.3	325.2	340.0	341.6
37.5°	1031.8	983.3	903.2	816.9	510.7	312.9	263.8	282.4	293.1	299.9	297.7
40°	1164.3	1106.7	1047.0	821.9	455.0	270.0	245.2	260.5	270.6	272.2	272.2
42.5°	1326.5	1247.0	1194.7	819.2	382.3	247.6	232.8	244.7	257.6	256.6	255.4
45°	1518.2	1422.5	1315.3	800.0	311.3	235.0	226.6	234.5	244.1	240.1	238.5
47.5°	1725.1	1622.0	1421.8	761.1	265.0	226.1	223.3	223.3	234.0	232.8	232.3
50°	1934.9	1828.9	1533.4	701.3	239.6	218.2	212.0	219.2	231.8	229.4	228.3
52.5°	2142.4	2047.1	1620.4	618.5	223.8	211.5	207.5	217.1	228.3	226.1	225.6
55°	2333.4	2272.1	1713.3	552.5	207.5	199.6	207.5	215.4	224.3	222.2	222.2
57.5°	2530.9	2512.7	1829.5	500.0	193.9	190.6	205.3	212.5	219.8	218.7	218.7
60°	2728.7	2778.3	1936.0	444.2	183.3	179.8	200.7	209.1	215.4	214.9	214.9
62.5°	2919.9	3011.7	2020.0	378.8	173.1	171.3	195.0	204.6	209.8	210.8	210.8
63°	2950.8	3041.7	2032.4	359.7	170.8	170.3	193.9	203.6	208.0	209.8	209.8
65°	3008.3	3114.3	2052.2	296.0	161.2	164.1	187.7	199.6	202.4	206.3	205.3
67.5°	2956.5	3045.0	1993.5	228.3	149.4	155.0	178.1	191.1	193.9	199.6	196.8
70°	2840.4	2834.7	1795.1	186.0	140.3	145.4	167.4	181.5	182.6	188.4	182.6
72.5°	2621.6	2423.2	1414.6	157.8	131.3	135.9	156.1	169.7	170.3	172.6	166.8
75°	2191.4	1884.7	850.2	136.5	120.2	123.4	143.8	155.0	156.8	153.3	150.6
77.5°	1496.2	1185.0	387.3	119.6	110.0	110.5	128.5	138.7	139.2	132.0	132.0
80°	719.9	555.3	161.2	107.1	99.8	97.6	112.7	120.6	120.2	111.6	108.2
82.5°	227.8	202.9	120.2	93.7	89.1	84.0	98.1	101.5	102.0	102.5	82.4
85°	90.8	94.1	93.1	77.3	75.0	63.7	78.3	82.9	81.1	68.2	58.1
87.5°	47.4	58.1	57.0	51.8	53.5	40.7	54.1	51.8	53.0	35.6	27.6
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)