

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: P266404

Luminaire Tested: **UTLD-AF24-60-D-U-T2U-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266404
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-AF24-60-D-U-T2U-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 800mA 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: 5723 lumens
Efficiency: N/A
Efficacy: 89.4 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): 64
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

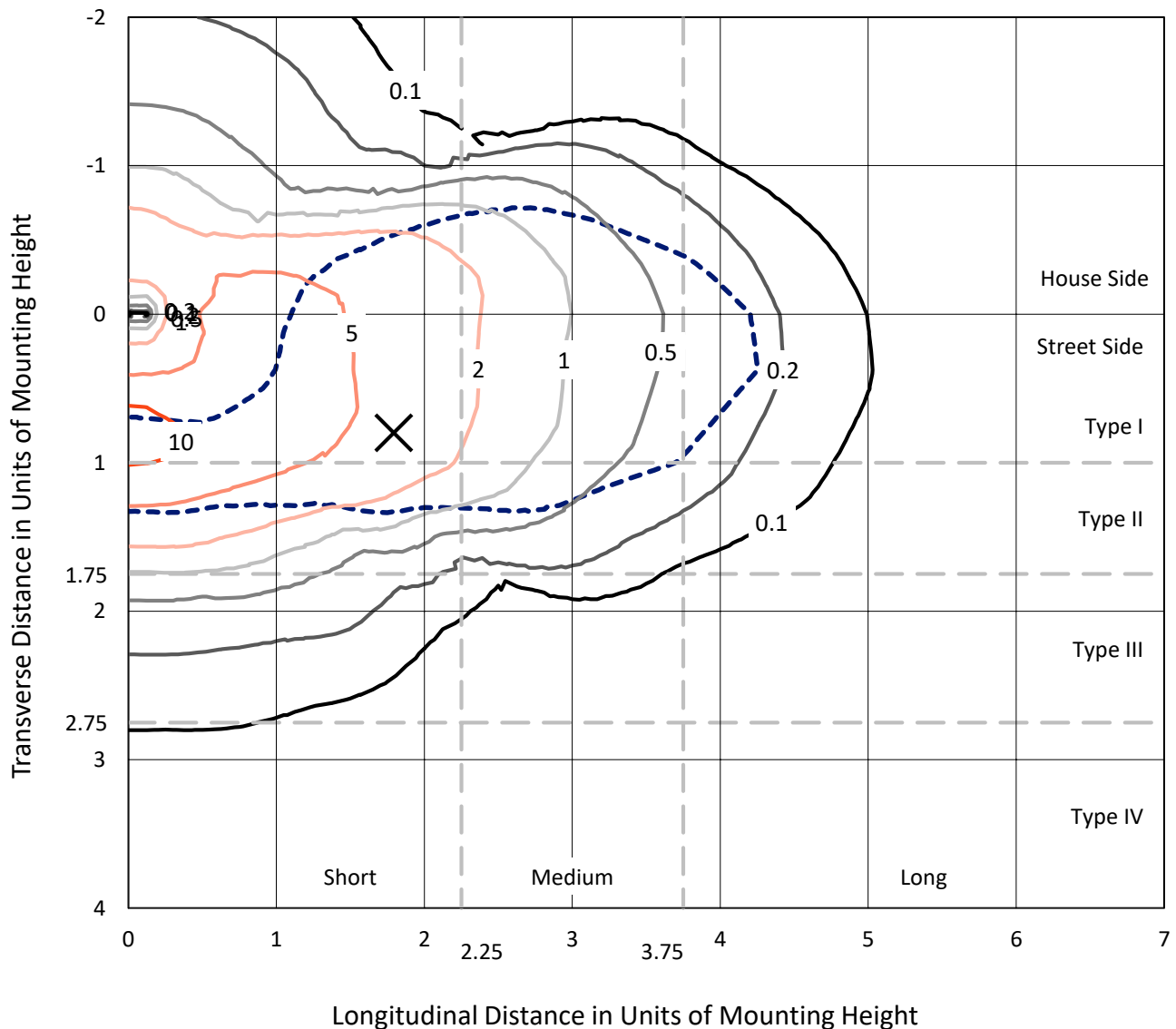


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

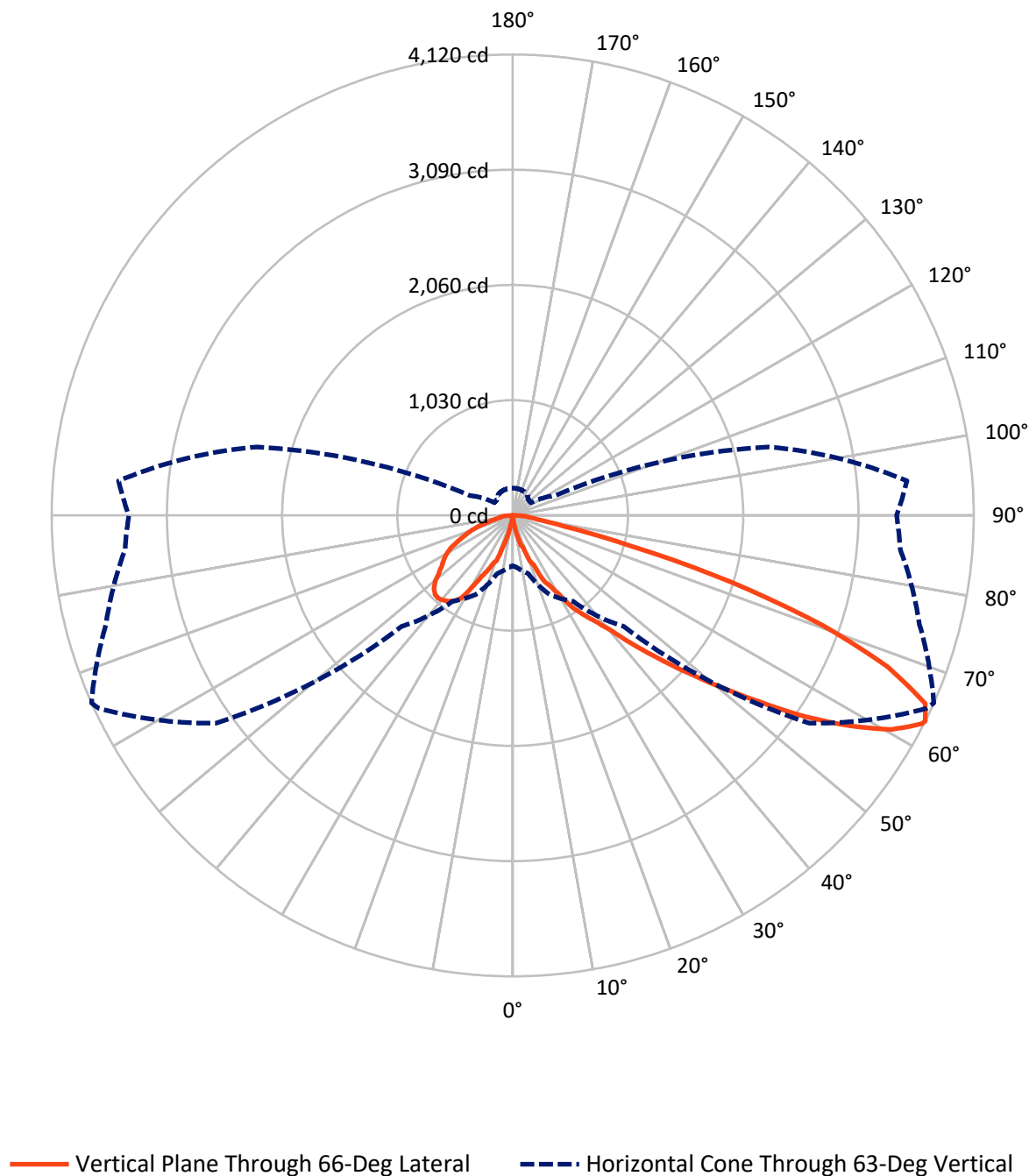


Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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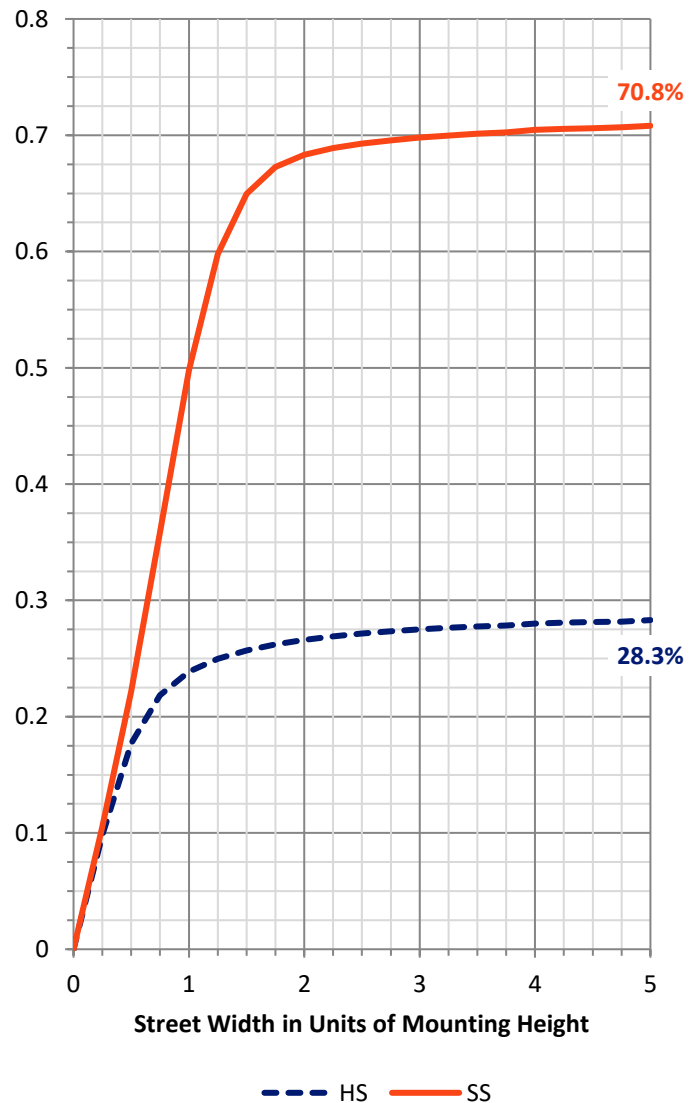
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1648.3	0.0	1648.3
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	4074.7	0.0	4074.7
	% Fixture	71.2	0.0	71.2
Total	Lumens	5723.0	0.0	5723.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.1
10°-20°	75.6	1.3
20°-30°	277.8	4.9
30°-40°	632.3	11.0
40°-50°	1138.6	19.9
50°-60°	1486.4	26.0
60°-70°	1320.6	23.1
70°-80°	670.8	11.7
80°-90°	115.3	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°	5723.0	100.0
0°-180°	5723.0	100.0

Coefficient of Utilization



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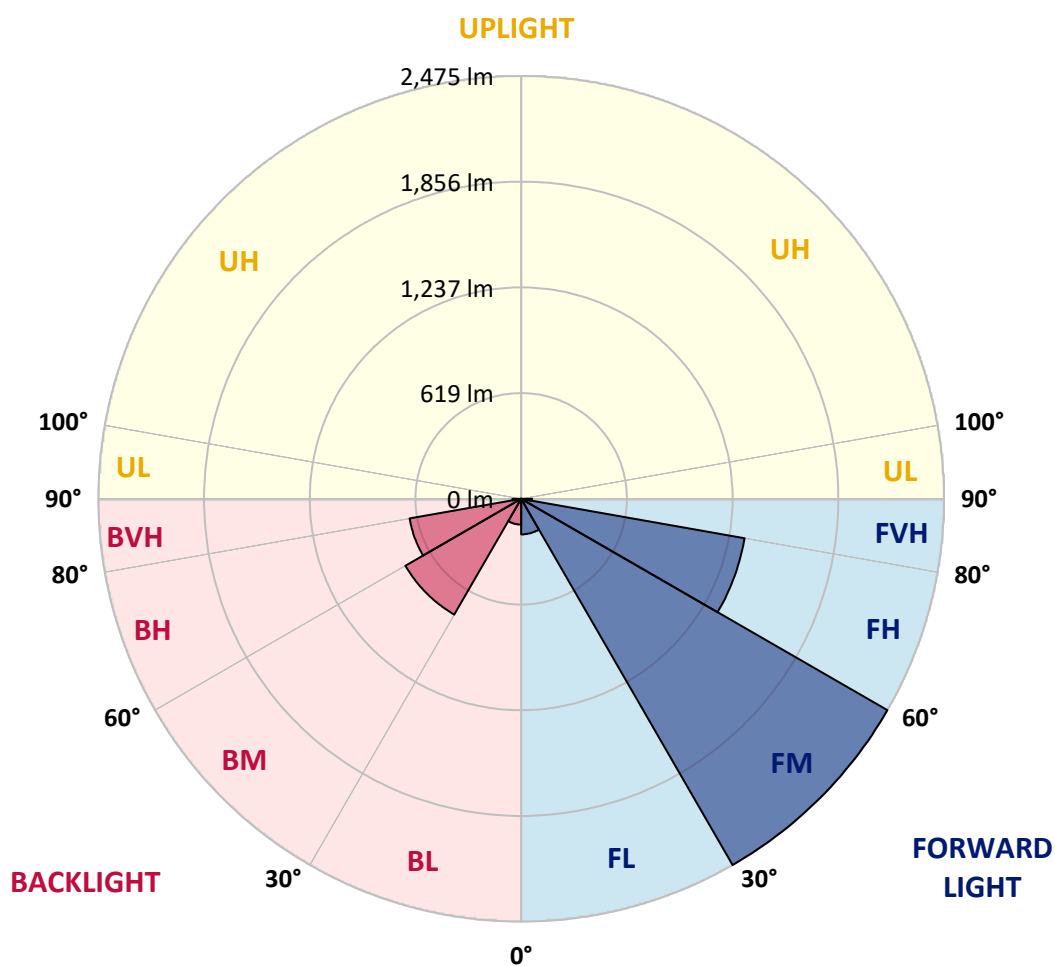
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	208.1	3.6			
FM	(30°-60°)	2474.7	43.2			
FH	(60°-80°)	1328.0	23.2			G1/1800
FVH	(80°-90°)	64.0	1.1			G1/100
BL	(0°-30°)	150.9	2.6	B1/500		
BM	(30°-60°)	782.6	13.7	B1/1000		
BH	(60°-80°)	663.4	11.6	B2/1000		G2/1000
BVH	(80°-90°)	51.3	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°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
2.5°	14.5	14.5	12.4	9.8	7.8	6.6	4.6	3.2	3.2	1.9	1.3
5°	132.4	132.4	131.7	131.2	129.7	124.5	22.9	7.1	6.6	3.2	1.9
7.5°	135.0	134.3	134.3	133.0	132.4	129.7	127.7	49.8	42.0	7.1	4.0
10°	241.9	240.6	238.6	161.2	136.4	133.0	132.4	104.3	103.6	22.3	16.3
12.5°	252.3	253.1	250.9	249.0	243.8	152.7	146.2	188.7	192.1	220.9	171.8
15°	287.6	283.8	269.3	260.1	255.6	239.8	273.4	272.6	274.0	258.9	196.5
17.5°	408.3	407.0	403.7	378.8	281.2	360.5	344.7	293.7	297.6	339.5	339.5
20°	460.7	460.1	448.3	434.5	482.4	388.6	370.3	431.2	434.5	439.1	406.4
22.5°	692.1	691.4	663.3	509.9	541.9	487.6	490.3	491.6	479.8	473.1	508.6
25°	802.8	797.7	781.9	736.0	642.9	649.5	536.1	645.0	650.2	646.2	638.3
27.5°	1132.6	1133.1	1002.1	868.4	789.2	730.7	737.2	715.7	715.1	703.3	734.6
30°	1319.9	1310.7	1265.0	1135.1	941.9	863.8	827.8	841.5	820.5	894.6	888.8
32.5°	1761.7	1761.7	1603.0	1317.4	1135.1	1070.9	962.2	966.0	981.8	971.2	986.3
35°	2072.3	2042.8	1886.3	1654.1	1287.2	1204.0	1139.1	1082.1	1088.6	1070.2	1084.7
37.5°	2402.0	2372.6	2199.5	1901.9	1555.9	1407.7	1287.8	1217.1	1200.7	1202.0	1213.2
40°	2658.3	2641.8	2535.6	2207.3	1821.4	1625.4	1462.3	1365.9	1348.1	1380.2	1416.3
42.5°	2837.1	2830.6	2767.7	2478.1	2134.6	1955.0	1711.2	1571.7	1574.9	1591.9	1628.0
45°	2908.6	2893.5	2891.6	2649.0	2417.1	2326.6	2036.9	1806.2	1818.0	1864.5	1871.8
47.5°	2830.6	2799.2	2856.3	2719.9	2651.6	2657.5	2409.2	2109.0	2097.3	2141.7	2137.8
50°	2544.9	2534.4	2643.8	2665.5	2767.7	2903.3	2817.5	2446.5	2412.5	2416.4	2389.5
52.5°	2101.9	2127.4	2271.5	2422.3	2713.3	3036.5	3182.5	2803.2	2773.5	2690.3	2638.6
55°	1689.6	1720.3	1876.4	1993.7	2437.5	3027.2	3449.3	3159.6	3176.0	2962.3	2866.0
57.5°	1236.6	1276.8	1483.8	1582.8	1996.9	2806.3	3585.0	3507.0	3547.0	3231.1	3082.3
60°	790.4	805.5	1014.5	1211.2	1453.0	2286.6	3571.8	3838.5	3886.4	3520.7	3283.5
62.5°	493.4	509.9	578.1	852.6	1027.7	1549.9	3318.9	4058.8	4102.6	3728.4	3451.3
63°	449.6	468.6	538.8	779.3	936.6	1402.6	3234.9	4081.1	4119.7	3763.2	3476.1
65°	334.9	342.8	379.4	525.6	687.6	880.9	2649.0	4003.0	4051.5	3792.7	3486.1
67.5°	292.3	295.6	308.7	346.7	491.6	512.6	1543.5	3586.3	3616.3	3681.3	3362.1
70°	267.3	269.3	292.9	295.6	385.4	363.8	566.2	2817.5	2931.4	3455.2	3146.6
72.5°	232.0	234.6	262.1	287.6	298.9	289.1	306.1	1902.6	2040.2	2951.8	2909.9
75°	194.0	196.5	220.9	254.9	260.1	229.3	250.9	996.8	1094.5	2164.0	2545.4
77.5°	159.3	161.2	182.8	206.4	239.2	176.2	203.8	375.5	465.3	1336.9	1832.5
80°	109.5	114.8	138.2	159.9	182.8	159.9	152.7	215.0	227.5	648.8	936.6
82.5°	83.3	84.5	107.4	116.7	129.0	157.9	120.0	161.9	171.0	302.1	304.0
85°	57.8	56.4	76.0	81.2	89.8	99.6	100.3	117.9	121.9	174.4	127.7
87.5°	26.2	25.0	41.3	40.0	45.3	49.1	71.4	64.9	66.1	109.5	68.8
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°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
2.5°	1.3	1.3	1.3	1.9	1.9	1.9	1.3	0.7	0.7	0.7	0.7
5°	1.3	1.3	1.3	1.9	1.9	2.6	3.2	3.2	4.0	4.6	4.6
7.5°	3.2	2.6	2.6	2.6	4.0	5.8	15.7	68.1	119.3	125.9	127.7
10°	14.5	14.5	10.5	8.5	9.8	107.4	139.0	143.5	146.2	147.4	147.4
12.5°	178.9	200.0	186.8	100.3	108.2	133.7	148.8	152.1	155.9	189.5	196.0
15°	217.6	219.5	221.5	205.8	285.1	210.4	175.7	265.4	270.0	271.9	271.3
17.5°	330.2	336.2	310.6	276.6	302.8	313.2	255.6	279.8	284.5	288.4	288.4
20°	428.6	429.3	402.4	430.6	368.3	381.4	332.9	315.9	405.7	409.5	409.0
22.5°	528.3	536.1	443.8	459.5	484.4	404.3	420.8	375.0	394.5	394.5	393.8
25°	654.1	651.5	608.2	531.4	508.6	478.4	431.8	391.2	445.0	470.5	470.5
27.5°	775.2	738.0	633.8	611.4	583.3	502.1	426.6	449.0	436.4	439.8	439.1
30°	915.6	904.5	810.0	728.2	599.0	487.6	446.3	406.4	428.0	453.6	450.9
32.5°	986.3	957.6	844.8	879.5	627.8	470.0	388.6	382.0	388.6	397.8	399.1
35°	1079.5	1032.2	921.5	927.9	632.4	412.2	346.0	342.2	378.1	395.3	397.2
37.5°	1199.3	1143.1	1049.8	949.7	593.8	363.8	306.7	328.3	340.7	348.6	346.0
40°	1353.3	1286.6	1217.1	955.5	528.9	314.0	285.1	302.8	314.5	316.6	316.6
42.5°	1542.1	1449.8	1388.8	952.3	444.3	287.6	270.7	284.5	299.6	298.1	296.9
45°	1765.0	1653.5	1529.1	929.9	361.7	273.4	263.5	272.6	283.8	279.3	277.2
47.5°	2005.5	1885.5	1652.9	884.8	307.9	262.8	259.5	259.5	271.9	270.7	270.0
50°	2249.3	2126.1	1782.6	815.3	278.6	253.6	246.4	254.9	269.3	266.7	265.4
52.5°	2490.6	2379.7	1883.6	719.0	260.1	245.7	241.1	252.3	265.4	262.8	262.1
55°	2712.6	2641.1	1991.7	642.3	241.1	232.0	241.1	250.4	260.9	258.3	258.3
57.5°	2941.9	2921.1	2126.6	581.4	225.5	221.5	238.6	247.0	255.6	254.3	254.3
60°	3172.1	3229.8	2250.7	516.4	213.0	209.0	233.3	243.1	250.4	249.6	249.6
62.5°	3394.2	3501.1	2348.2	440.3	201.2	199.2	226.7	238.0	243.8	245.1	245.1
63°	3430.3	3535.8	2362.6	418.2	198.5	197.9	225.5	236.7	241.9	243.8	243.8
65°	3497.1	3620.3	2385.5	344.1	187.4	190.7	218.3	232.0	235.3	239.8	238.6
67.5°	3436.8	3539.7	2317.4	265.4	173.7	180.2	207.1	222.2	225.5	232.0	228.7
70°	3301.8	3295.3	2086.8	216.3	163.2	169.2	194.7	211.0	212.4	218.8	212.4
72.5°	3047.5	2816.8	1644.3	183.6	152.7	157.9	181.5	197.3	197.9	200.5	194.0
75°	2547.5	2191.0	988.3	158.6	139.5	143.5	167.2	180.2	182.1	178.3	175.0
77.5°	1739.4	1377.6	450.2	139.0	127.7	128.5	149.4	161.2	161.9	153.4	153.4
80°	837.0	645.5	187.4	124.5	116.1	113.4	131.2	140.2	139.5	129.7	125.9
82.5°	264.8	236.0	139.5	108.8	103.6	97.6	114.1	117.9	118.7	119.3	95.7
85°	105.6	109.5	108.2	89.8	87.1	74.1	91.1	96.4	94.4	79.3	67.6
87.5°	55.1	67.6	66.1	60.2	62.3	47.3	62.9	60.2	61.7	41.3	32.1
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)