

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: P239620

Luminaire Tested: **UTLD-AF24-80-D-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239620
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-AF24-80-D-U-T2U
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1050mA 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: 8064 lumens
Efficiency: N/A
Efficacy: 97.2 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): 83
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

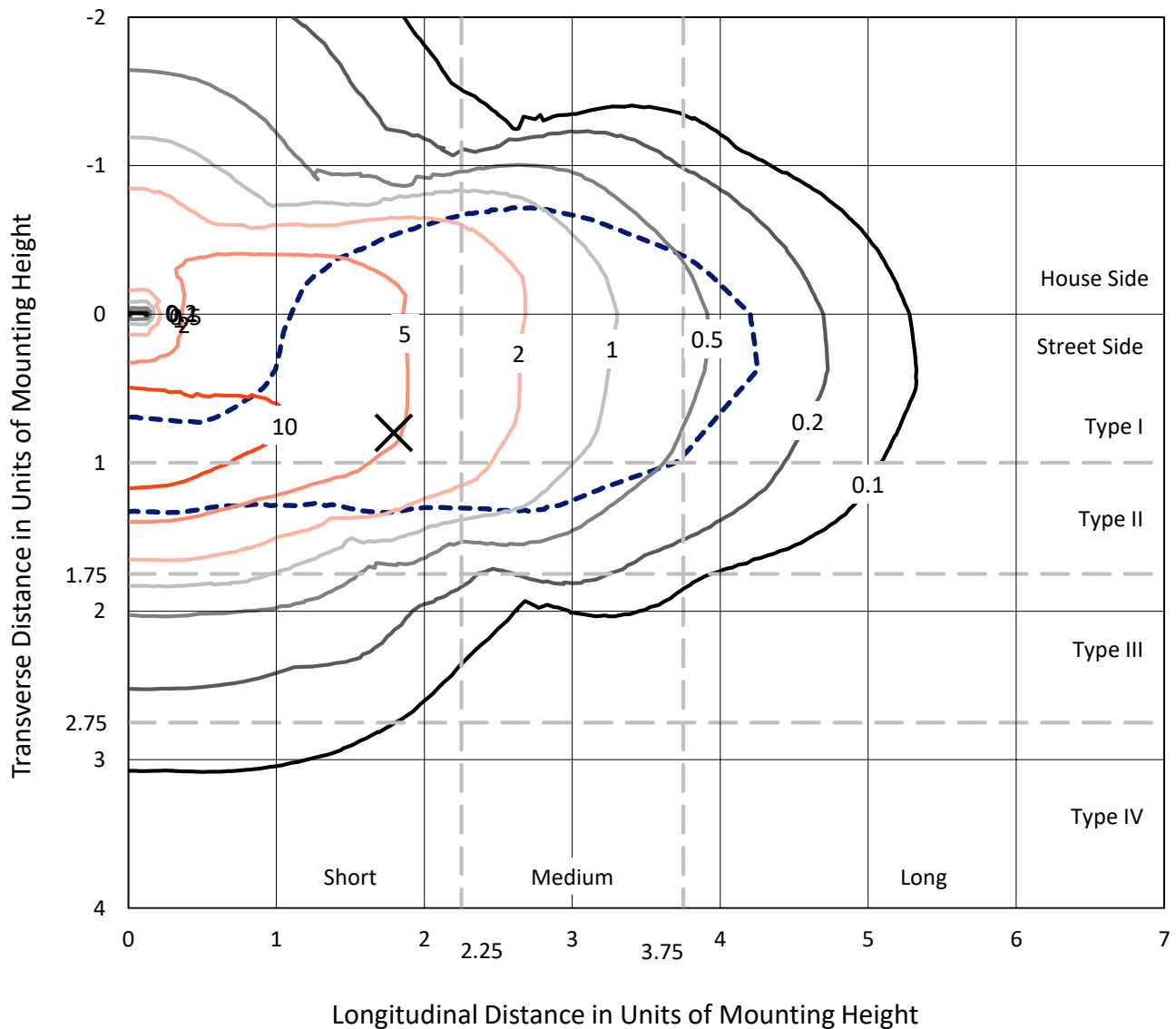


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

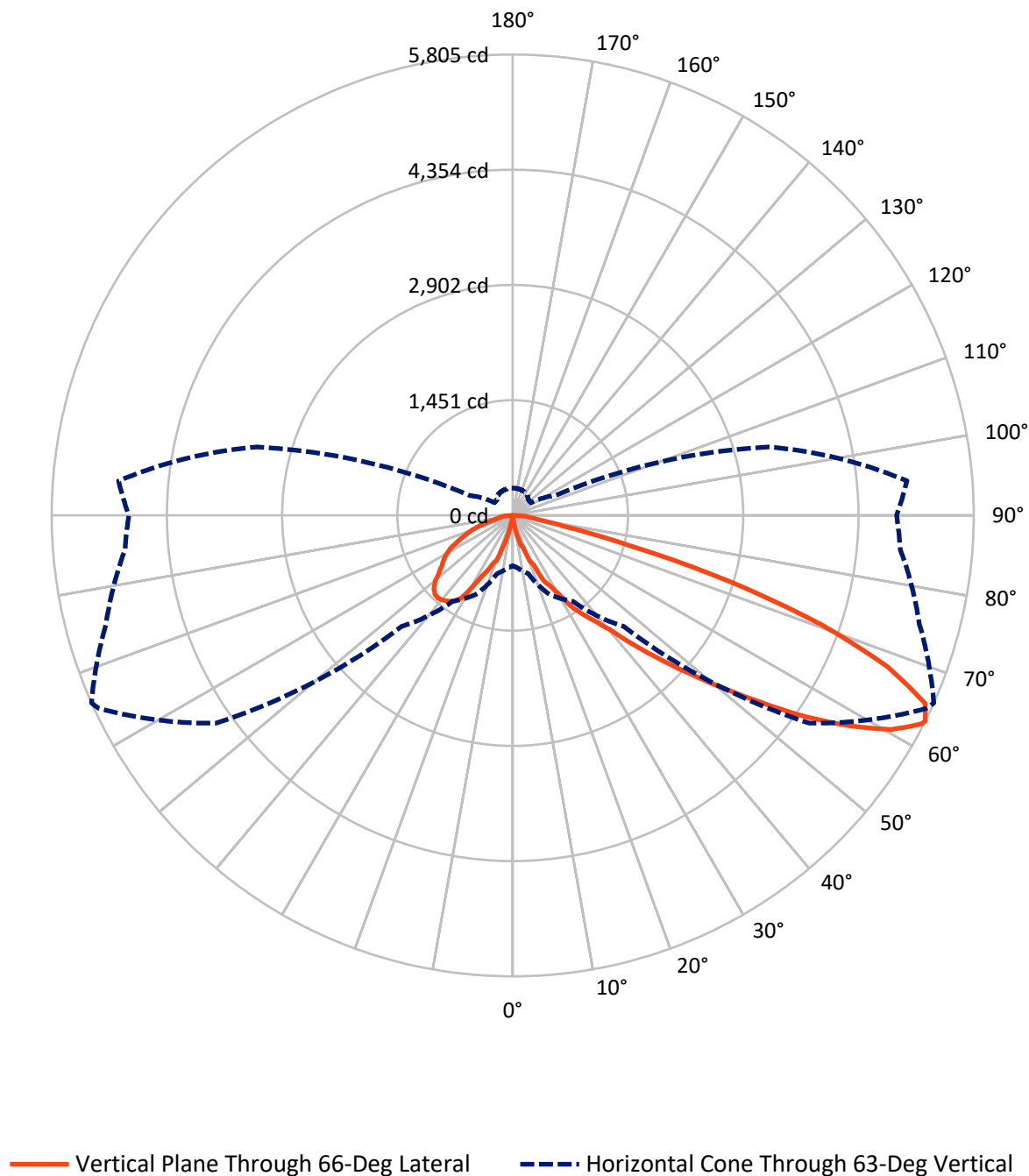


Based on 10 foot mounting height. Maximum calculated value = 16.7 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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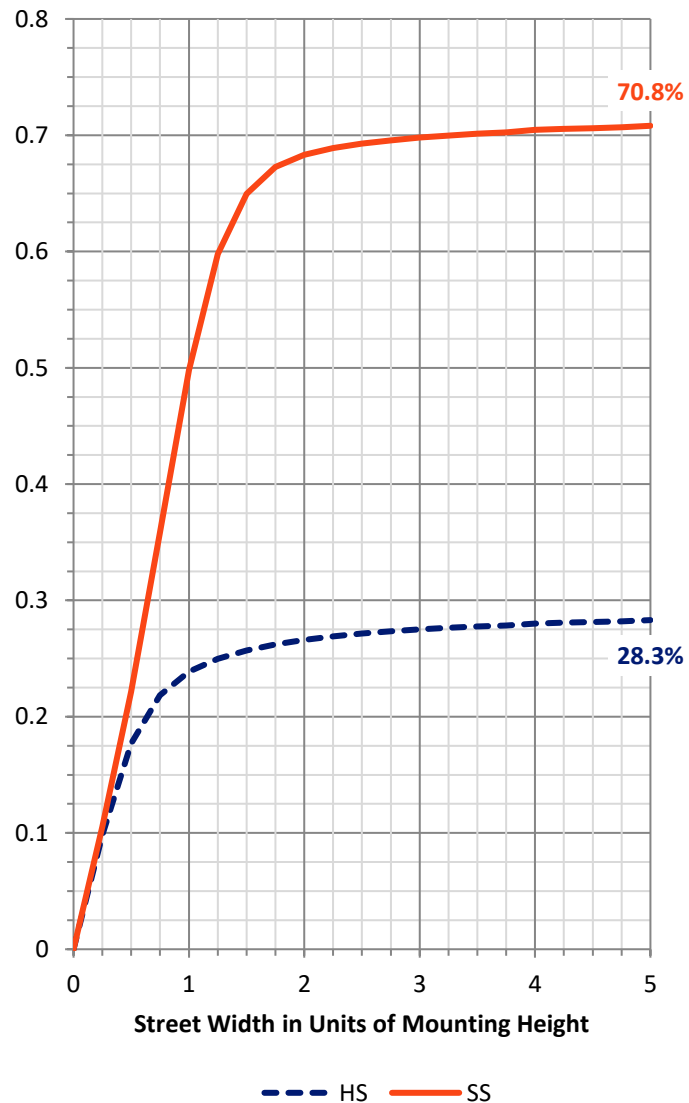
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2322.5	0.0	2322.5
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	5741.5	0.0	5741.5
	% Fixture	71.2	0.0	71.2
Total	Lumens	8064.0	0.0	8064.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.9	0.1
10°-20°	106.5	1.3
20°-30°	391.5	4.9
30°-40°	890.9	11.0
40°-50°	1604.3	19.9
50°-60°	2094.4	26.0
60°-70°	1860.8	23.1
70°-80°	945.2	11.7
80°-90°	162.4	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°	8064.0	100.0
0°-180°	8064.0	100.0

Coefficient of Utilization



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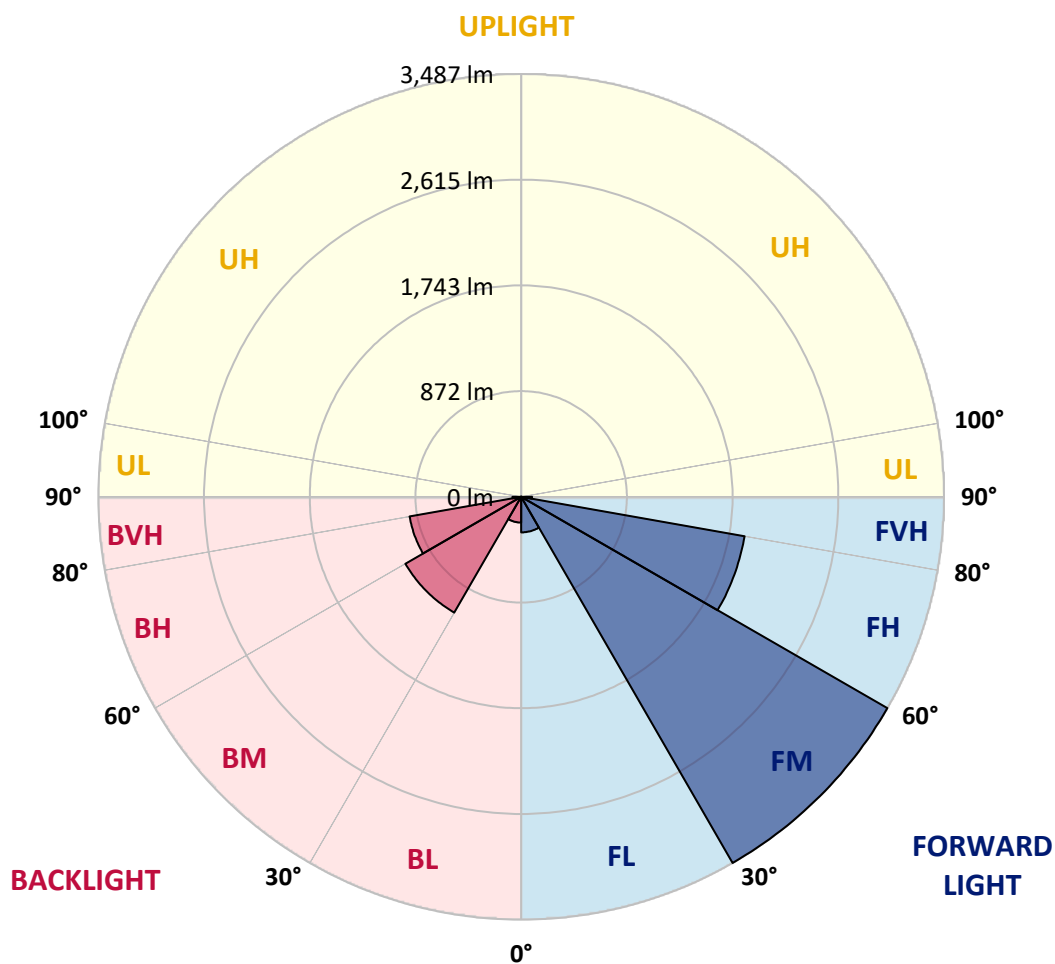
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	293.3	3.6			
FM	(30°-60°)	3486.9	43.2			
FH	(60°-80°)	1871.2	23.2			G2/5000
FVH	(80°-90°)	90.1	1.1			G1/100
BL	(0°-30°)	212.6	2.6	B1/500		
BM	(30°-60°)	1102.8	13.7	B2/2500		
BH	(60°-80°)	934.8	11.6	B2/1000		G2/1000
BVH	(80°-90°)	72.3	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°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
2.5°	20.3	20.3	17.5	13.9	11.1	9.2	6.5	4.6	4.6	2.8	1.8
5°	186.5	186.5	185.6	184.7	182.8	175.5	32.3	10.2	9.2	4.6	2.8
7.5°	190.2	189.3	189.3	187.5	186.5	182.8	180.1	70.2	59.1	10.2	5.5
10°	340.8	338.9	336.1	227.2	192.1	187.5	186.5	146.8	145.9	31.4	23.1
12.5°	355.5	356.5	353.7	350.9	343.5	215.2	205.9	266.0	270.6	311.2	241.9
15°	405.4	399.9	379.5	366.6	360.2	338.0	385.1	384.2	386.0	364.8	277.0
17.5°	575.3	573.5	568.9	533.8	396.2	507.9	485.7	413.7	419.3	478.4	478.4
20°	649.2	648.3	631.7	612.3	679.7	547.6	521.8	607.6	612.3	618.7	572.5
22.5°	975.2	974.3	934.5	718.5	763.7	687.1	690.8	692.6	676.0	666.7	716.6
25°	1131.2	1123.9	1101.7	1037.1	905.9	915.2	755.4	908.7	916.1	910.5	899.5
27.5°	1595.8	1596.7	1412.0	1223.6	1111.9	1029.7	1038.9	1008.4	1007.5	990.9	1035.2
30°	1859.9	1846.9	1782.3	1599.4	1327.0	1217.1	1166.3	1185.7	1156.2	1260.5	1252.2
32.5°	2482.3	2482.3	2258.8	1856.2	1599.4	1508.9	1355.6	1361.2	1383.4	1368.6	1389.8
35°	2920.0	2878.4	2657.7	2330.8	1813.7	1696.4	1605.0	1524.6	1533.9	1508.0	1528.3
37.5°	3384.5	3343.0	3099.2	2679.9	2192.3	1983.6	1814.6	1714.9	1691.8	1693.6	1709.3
40°	3745.6	3722.5	3572.9	3110.2	2566.3	2290.2	2060.3	1924.5	1899.6	1944.8	1995.6
42.5°	3997.7	3988.5	3899.8	3491.6	3007.7	2754.7	2411.2	2214.5	2219.1	2243.1	2293.9
45°	4098.3	4077.1	4074.3	3732.7	3405.7	3278.3	2870.1	2545.1	2561.7	2627.3	2637.4
47.5°	3988.5	3944.1	4024.5	3832.4	3736.3	3744.7	3394.7	2971.7	2955.1	3017.9	3012.3
50°	3585.8	3571.0	3725.3	3755.7	3899.8	4091.0	3970.0	3447.3	3399.3	3404.8	3367.0
52.5°	2961.6	2997.6	3200.7	3413.1	3823.2	4278.4	4484.4	3949.7	3908.1	3790.8	3717.9
55°	2380.7	2424.1	2643.9	2809.2	3434.4	4265.5	4860.2	4452.0	4475.1	4174.1	4038.3
57.5°	1742.6	1798.9	2090.7	2230.2	2813.8	3954.3	5051.4	4941.5	4997.8	4552.7	4343.1
60°	1113.7	1134.9	1429.5	1706.6	2047.3	3222.0	5032.9	5408.7	5476.2	4960.9	4626.6
62.5°	695.4	718.5	814.5	1201.4	1448.0	2184.0	4676.4	5719.0	5780.9	5253.6	4863.0
63°	633.5	660.3	759.1	1098.0	1319.6	1976.2	4558.2	5750.4	5804.9	5302.5	4898.1
65°	471.9	483.0	534.7	740.6	968.7	1241.1	3732.7	5640.5	5708.9	5344.1	4911.9
67.5°	411.9	416.5	435.0	488.5	692.6	722.2	2174.8	5053.2	5095.7	5187.1	4737.4
70°	376.8	379.5	412.8	416.5	543.0	512.5	797.9	3970.0	4130.7	4868.5	4433.6
72.5°	326.9	330.6	369.4	405.4	421.1	407.2	431.3	2680.8	2874.8	4159.3	4100.2
75°	273.3	277.0	311.2	359.2	366.6	323.2	353.7	1404.6	1542.2	3049.3	3586.7
77.5°	224.4	227.2	257.6	290.9	337.1	248.4	287.2	529.1	655.7	1883.9	2582.0
80°	154.2	161.6	194.9	225.3	257.6	225.3	215.2	302.9	320.4	914.2	1319.6
82.5°	117.3	119.1	151.4	164.4	181.9	222.6	169.0	228.1	241.0	425.7	428.5
85°	81.3	79.4	107.1	114.5	126.5	140.4	141.3	166.2	171.8	245.6	180.1
87.5°	36.9	35.1	58.2	56.3	63.7	69.3	100.7	91.4	93.3	154.2	97.0
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°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
2.5°	1.8	1.8	1.8	2.8	2.8	2.8	1.8	0.9	0.9	0.9	0.9
5°	1.8	1.8	1.8	2.8	2.8	3.7	4.6	4.6	5.5	6.5	6.5
7.5°	4.6	3.7	3.7	3.7	5.5	8.3	22.2	96.0	168.1	177.3	180.1
10°	20.3	20.3	14.8	12.0	13.9	151.4	195.8	202.2	205.9	207.8	207.8
12.5°	252.1	281.7	263.2	141.3	152.4	188.4	209.6	214.2	219.8	266.9	276.1
15°	306.6	309.4	312.1	290.0	401.7	296.4	247.5	374.0	380.5	383.2	382.3
17.5°	465.4	473.7	437.7	389.7	426.6	441.4	360.2	394.3	400.8	406.3	406.3
20°	603.9	604.9	567.0	606.7	519.0	537.5	469.1	445.1	571.6	577.2	576.2
22.5°	744.3	755.4	625.2	647.4	682.4	569.8	592.9	528.2	555.9	555.9	555.0
25°	921.6	917.9	857.0	748.9	716.6	674.1	608.6	551.3	627.0	663.0	663.0
27.5°	1092.5	1039.8	893.0	861.6	821.9	707.4	601.2	632.6	615.0	619.6	618.7
30°	1290.1	1274.4	1141.4	1026.0	844.0	687.1	628.9	572.5	603.0	639.0	635.3
32.5°	1389.8	1349.2	1190.3	1239.3	884.7	662.1	547.6	538.4	547.6	560.5	562.4
35°	1521.0	1454.5	1298.4	1307.6	891.1	580.9	487.6	482.0	532.8	556.9	559.6
37.5°	1689.9	1610.5	1479.4	1338.1	836.7	512.5	432.2	462.7	480.2	491.3	487.6
40°	1907.0	1812.8	1714.9	1346.4	745.2	442.3	401.7	426.6	443.3	446.0	446.0
42.5°	2172.9	2042.7	1956.8	1341.8	626.1	405.4	381.4	400.8	422.0	420.2	418.3
45°	2486.9	2329.9	2154.4	1310.4	509.8	385.1	371.2	384.2	399.9	393.4	390.6
47.5°	2825.8	2656.8	2329.0	1246.7	434.0	370.3	365.7	365.7	383.2	381.4	380.5
50°	3169.3	2995.7	2511.8	1148.8	392.5	357.4	347.2	359.2	379.5	375.9	374.0
52.5°	3509.2	3353.1	2654.0	1013.0	366.6	346.3	339.8	355.5	374.0	370.3	369.4
55°	3822.2	3721.6	2806.4	905.0	339.8	326.9	339.8	352.8	367.5	363.8	363.8
57.5°	4145.4	4115.9	2996.7	819.1	317.7	312.1	336.1	348.1	360.2	358.3	358.3
60°	4469.6	4550.8	3171.2	727.7	300.1	294.6	328.8	342.6	352.8	351.8	351.8
62.5°	4782.6	4933.2	3308.8	620.6	283.5	280.7	319.5	335.2	343.5	345.4	345.4
63°	4833.4	4982.1	3329.1	589.2	279.8	278.9	317.7	333.4	340.8	343.5	343.5
65°	4927.6	5101.2	3361.4	484.8	264.1	268.7	307.5	326.9	331.5	338.0	336.1
67.5°	4842.7	4987.6	3265.4	374.0	244.7	254.0	291.8	313.1	317.7	326.9	322.3
70°	4652.4	4643.2	2940.3	304.7	229.9	238.3	274.3	297.4	299.2	308.4	299.2
72.5°	4294.1	3969.1	2317.0	258.6	215.2	222.6	255.8	278.0	278.9	282.6	273.3
75°	3589.5	3087.2	1392.6	223.5	196.7	202.2	235.5	254.0	256.7	251.2	246.6
77.5°	2450.9	1941.1	634.4	195.8	180.1	181.0	210.6	227.2	228.1	216.1	216.1
80°	1179.3	909.6	264.1	175.5	163.5	159.8	184.7	197.6	196.7	182.8	177.3
82.5°	373.1	332.4	196.7	153.3	145.9	137.6	160.7	166.2	167.1	168.1	134.8
85°	148.7	154.2	152.4	126.5	122.8	104.4	128.4	135.7	133.0	111.7	95.1
87.5°	77.6	95.1	93.3	85.0	87.7	66.5	88.7	85.0	86.8	58.2	45.2
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)