

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: P239613

Luminaire Tested: **UTLD-AF24-100-D-U-T2U-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239613
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-AF24-100-D-U-T2U-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1200mA 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: 7737 lumens
Efficiency: N/A
Efficacy: 80.6 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): 96
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



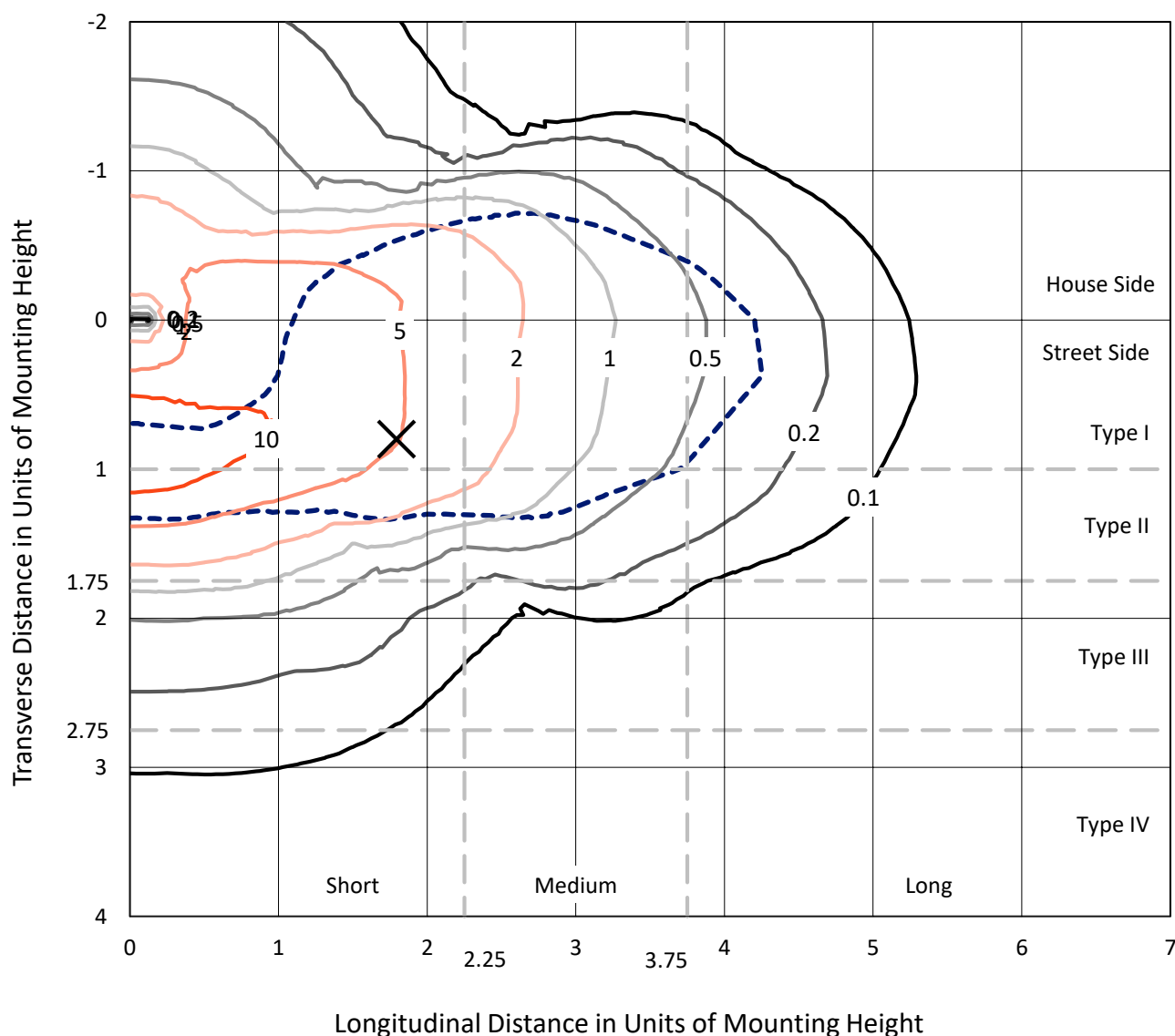
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

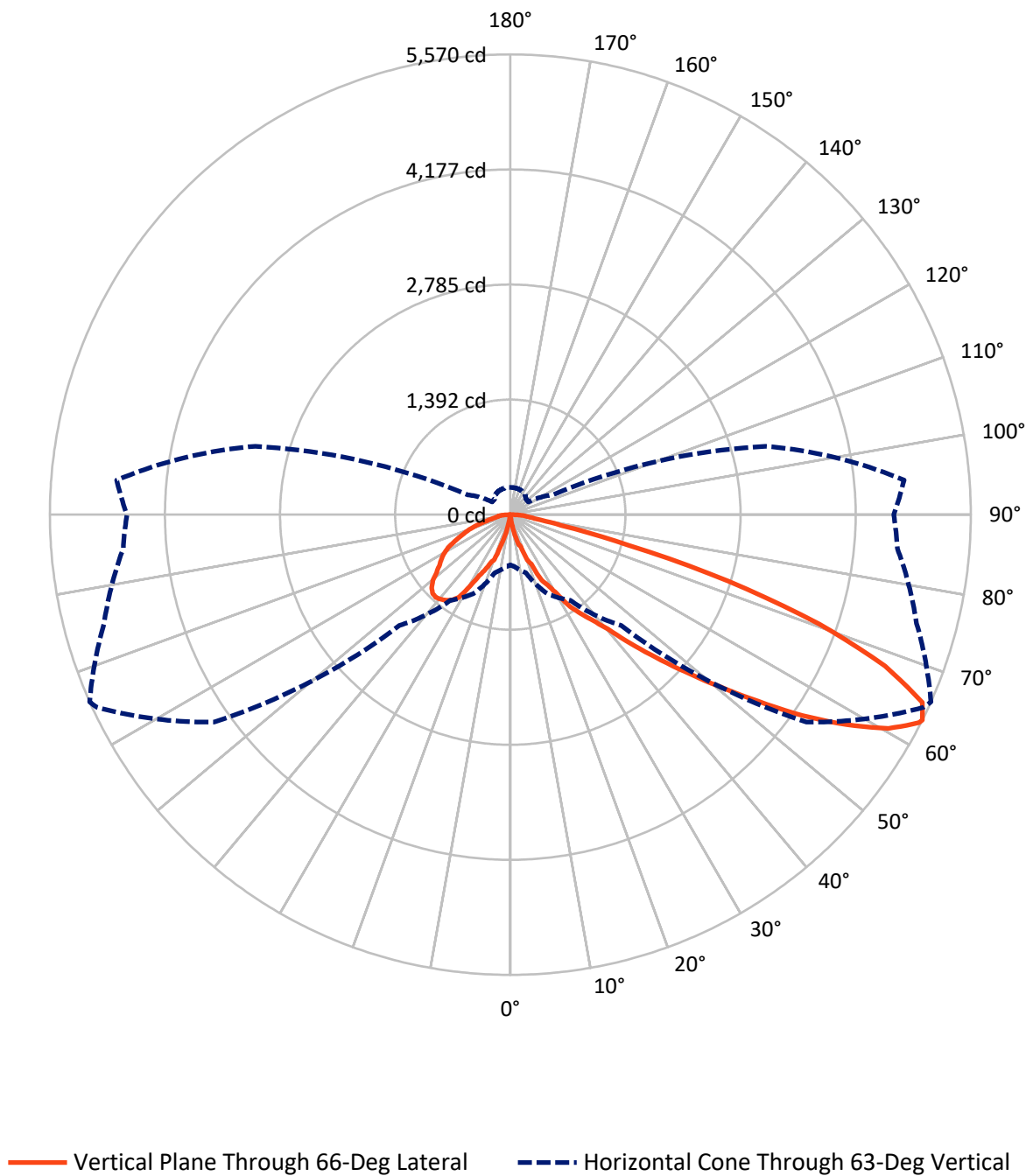


Based on 10 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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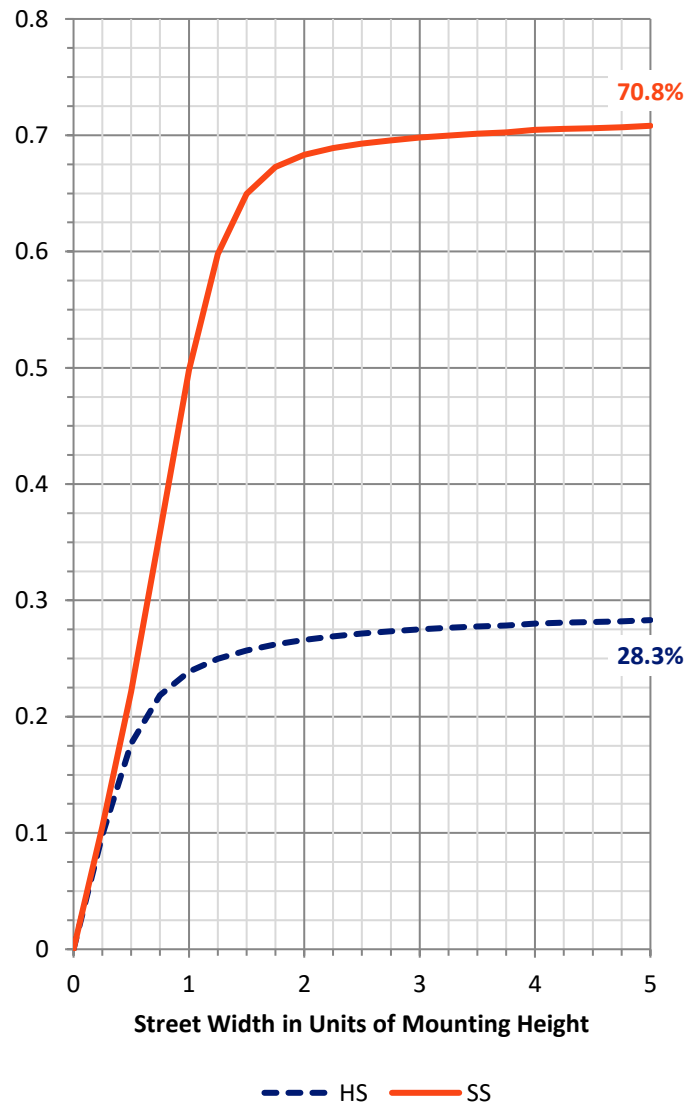
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2228.3	0.0	2228.3
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	5508.7	0.0	5508.7
	% Fixture	71.2	0.0	71.2
Total	Lumens	7737.0	0.0	7737.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.6	0.1
10°-20°	102.1	1.3
20°-30°	375.6	4.9
30°-40°	854.8	11.0
40°-50°	1539.2	19.9
50°-60°	2009.5	26.0
60°-70°	1785.4	23.1
70°-80°	906.9	11.7
80°-90°	155.8	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°	7737.0	100.0
0°-180°	7737.0	100.0

Coefficient of Utilization



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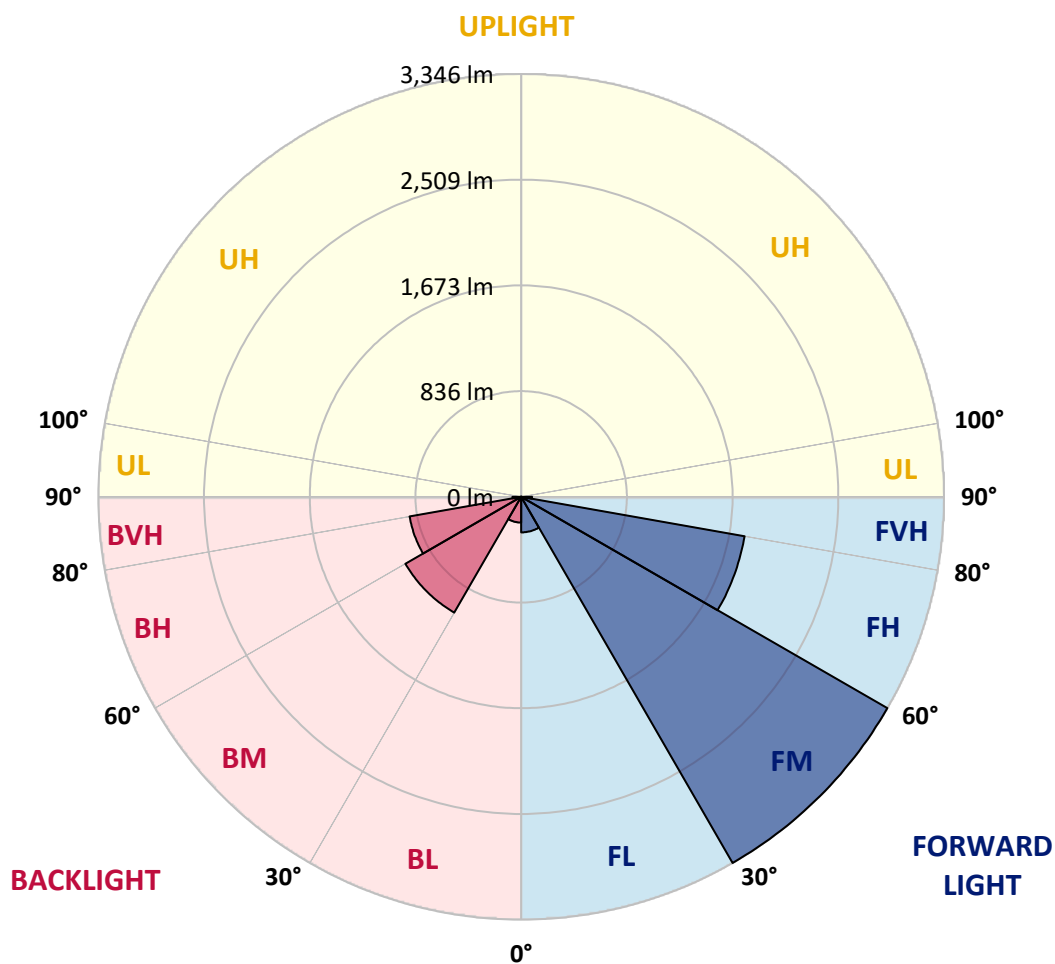
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	281.4	3.6			
FM	(30°-60°)	3345.5	43.2			
FH	(60°-80°)	1795.3	23.2			G1/1800
FVH	(80°-90°)	86.5	1.1			G1/100
BL	(0°-30°)	203.9	2.6	B1/500		
BM	(30°-60°)	1058.1	13.7	B2/2500		
BH	(60°-80°)	896.9	11.6	B2/1000		G2/1000
BVH	(80°-90°)	69.4	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°	19.5	19.5	16.8	13.3	10.6	8.9	6.2	4.4	4.4	2.7	1.8
5°	179.0	179.0	178.1	177.2	175.4	168.3	31.0	9.7	8.9	4.4	2.7
7.5°	182.5	181.6	181.6	179.9	179.0	175.4	172.8	67.3	56.7	9.7	5.3
10°	326.9	325.2	322.5	218.0	184.3	179.9	179.0	140.9	140.0	30.1	22.2
12.5°	341.1	342.0	339.3	336.7	329.6	206.4	197.6	255.2	259.6	298.6	232.1
15°	389.0	383.6	364.2	351.7	345.5	324.3	369.5	368.6	370.4	350.0	265.8
17.5°	552.0	550.2	545.8	512.1	380.1	487.3	466.0	396.9	402.3	459.0	459.0
20°	622.9	622.0	606.0	587.4	652.1	525.4	500.6	583.0	587.4	593.6	549.3
22.5°	935.6	934.8	896.7	689.3	732.7	659.2	662.7	664.5	648.6	639.7	687.6
25°	1085.4	1078.3	1057.0	995.0	869.2	878.0	724.8	871.8	878.9	873.6	863.0
27.5°	1531.0	1531.9	1354.7	1174.0	1066.8	987.9	996.8	967.5	966.6	950.7	993.2
30°	1784.4	1772.0	1710.0	1534.6	1273.2	1167.8	1119.0	1137.6	1109.3	1209.4	1201.4
32.5°	2381.6	2381.6	2167.2	1780.9	1534.6	1447.8	1300.7	1306.0	1327.3	1313.1	1333.5
35°	2801.6	2761.7	2550.0	2236.3	1740.1	1627.6	1539.9	1462.8	1471.7	1446.9	1466.4
37.5°	3247.3	3207.4	2973.5	2571.2	2103.4	1903.2	1741.0	1645.3	1623.2	1625.0	1640.0
40°	3593.7	3571.5	3428.0	2984.1	2462.2	2197.3	1976.7	1846.5	1822.5	1866.0	1914.7
42.5°	3835.6	3826.7	3741.7	3350.0	2885.8	2643.0	2313.4	2124.7	2129.1	2152.1	2200.9
45°	3932.2	3911.8	3909.1	3581.3	3267.6	3145.4	2753.7	2441.9	2457.8	2520.7	2530.5
47.5°	3826.7	3784.2	3861.3	3677.0	3584.8	3592.8	3257.0	2851.2	2835.3	2895.5	2890.2
50°	3440.4	3426.2	3574.2	3603.4	3741.7	3925.1	3809.0	3307.5	3261.4	3266.8	3230.4
52.5°	2841.5	2876.0	3070.9	3274.7	3668.1	4104.9	4302.5	3789.5	3749.6	3637.1	3567.1
55°	2284.2	2325.8	2536.7	2695.3	3295.1	4092.5	4663.1	4271.5	4293.7	4004.8	3874.6
57.5°	1671.9	1726.0	2005.9	2139.7	2699.7	3793.9	4846.5	4741.1	4795.1	4368.1	4167.0
60°	1068.5	1088.9	1371.6	1637.4	1964.3	3091.3	4828.8	5189.4	5254.1	4759.7	4439.0
62.5°	667.2	689.3	781.5	1152.7	1389.3	2095.4	4486.8	5487.1	5546.5	5040.6	4665.8
63°	607.8	633.5	728.3	1053.5	1266.1	1896.1	4373.4	5517.2	5569.5	5087.5	4699.4
65°	452.8	463.4	513.0	710.6	929.4	1190.8	3581.3	5411.8	5477.4	5127.4	4712.7
67.5°	395.2	399.6	417.3	468.7	664.5	692.9	2086.6	4848.3	4889.1	4976.8	4545.3
70°	361.5	364.2	396.1	399.6	521.0	491.7	765.5	3809.0	3963.2	4671.1	4253.8
72.5°	313.7	317.2	354.4	389.0	404.0	390.7	413.8	2572.1	2758.2	3990.6	3933.9
75°	262.3	265.8	298.6	344.7	351.7	310.1	339.3	1347.6	1479.7	2925.6	3441.3
77.5°	215.3	218.0	247.2	279.1	323.4	238.3	275.6	507.7	629.1	1807.5	2477.3
80°	148.0	155.1	187.0	216.2	247.2	216.2	206.4	290.6	307.4	877.2	1266.1
82.5°	112.5	114.3	145.3	157.7	174.5	213.5	162.1	218.8	231.3	408.5	411.1
85°	78.0	76.2	102.8	109.9	121.4	134.7	135.6	159.5	164.8	235.7	172.8
87.5°	35.4	33.7	55.8	54.0	61.1	66.5	96.6	87.7	89.5	148.0	93.0
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	2.7	2.7	2.7	1.8	0.9	0.9	0.9	0.9
5°	1.8	1.8	1.8	2.7	2.7	3.5	4.4	4.4	5.3	6.2	6.2
7.5°	4.4	3.5	3.5	3.5	5.3	8.0	21.3	92.1	161.3	170.1	172.8
10°	19.5	19.5	14.2	11.5	13.3	145.3	187.8	194.0	197.6	199.4	199.4
12.5°	241.9	270.2	252.5	135.6	146.2	180.7	201.1	205.6	210.9	256.1	264.9
15°	294.2	296.8	299.5	278.2	385.4	284.4	237.5	358.8	365.0	367.7	366.8
17.5°	446.6	454.5	420.0	373.9	409.3	423.5	345.5	378.3	384.5	389.8	389.8
20°	579.5	580.3	544.0	582.1	497.9	515.7	450.1	427.1	548.4	553.8	552.9
22.5°	714.1	724.8	599.8	621.1	654.8	546.7	568.8	506.8	533.4	533.4	532.5
25°	884.2	880.7	822.2	718.6	687.6	646.8	583.9	529.0	601.6	636.2	636.2
27.5°	1048.2	997.7	856.8	826.7	788.6	678.7	576.8	606.9	590.1	594.5	593.6
30°	1237.8	1222.7	1095.1	984.4	809.8	659.2	603.4	549.3	578.6	613.1	609.6
32.5°	1333.5	1294.5	1142.1	1189.0	848.8	635.3	525.4	516.5	525.4	537.8	539.6
35°	1459.3	1395.5	1245.7	1254.6	855.0	557.3	467.8	462.5	511.2	534.3	536.9
37.5°	1621.4	1545.2	1419.4	1283.8	802.7	491.7	414.7	443.9	460.7	471.4	467.8
40°	1829.6	1739.3	1645.3	1291.8	715.0	424.4	385.4	409.3	425.3	427.9	427.9
42.5°	2084.8	1959.9	1877.5	1287.4	600.7	389.0	365.9	384.5	404.9	403.1	401.4
45°	2386.1	2235.4	2067.1	1257.3	489.1	369.5	356.2	368.6	383.6	377.4	374.8
47.5°	2711.2	2549.1	2234.5	1196.1	416.4	355.3	350.9	350.9	367.7	365.9	365.0
50°	3040.8	2874.2	2410.0	1102.2	376.6	342.9	333.1	344.7	364.2	360.6	358.8
52.5°	3366.9	3217.1	2546.4	972.0	351.7	332.3	326.1	341.1	358.8	355.3	354.4
55°	3667.2	3570.7	2692.6	868.3	326.1	313.7	326.1	338.5	352.6	349.1	349.1
57.5°	3977.3	3949.0	2875.1	785.9	304.8	299.5	322.5	334.0	345.5	343.8	343.8
60°	4288.3	4366.3	3042.6	698.2	288.0	282.6	315.4	328.7	338.5	337.6	337.6
62.5°	4588.7	4733.1	3174.6	595.4	272.0	269.4	306.6	321.6	329.6	331.4	331.4
63°	4637.4	4780.1	3194.1	565.3	268.5	267.6	304.8	319.9	326.9	329.6	329.6
65°	4727.8	4894.4	3225.1	465.2	253.4	257.8	295.0	313.7	318.1	324.3	322.5
67.5°	4646.3	4785.4	3133.0	358.8	234.8	243.7	280.0	300.4	304.8	313.7	309.2
70°	4463.8	4454.9	2821.1	292.4	220.6	228.6	263.1	285.3	287.1	295.9	287.1
72.5°	4120.0	3808.1	2223.0	248.1	206.4	213.5	245.4	266.7	267.6	271.1	262.3
75°	3444.0	2962.0	1336.1	214.4	188.7	194.0	225.9	243.7	246.3	241.0	236.6
77.5°	2351.5	1862.4	608.7	187.8	172.8	173.7	202.0	218.0	218.8	207.3	207.3
80°	1131.4	872.7	253.4	168.3	156.8	153.3	177.2	189.6	188.7	175.4	170.1
82.5°	358.0	319.0	188.7	147.1	140.0	132.0	154.2	159.5	160.4	161.3	129.4
85°	142.6	148.0	146.2	121.4	117.8	100.1	123.2	130.2	127.6	107.2	91.3
87.5°	74.4	91.3	89.5	81.5	84.2	63.8	85.1	81.5	83.3	55.8	43.4
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)