

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: P239622

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239622
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 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: 8740 lumens
Efficiency: N/A
Efficacy: 91.0 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: B3 - U0 - G3

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

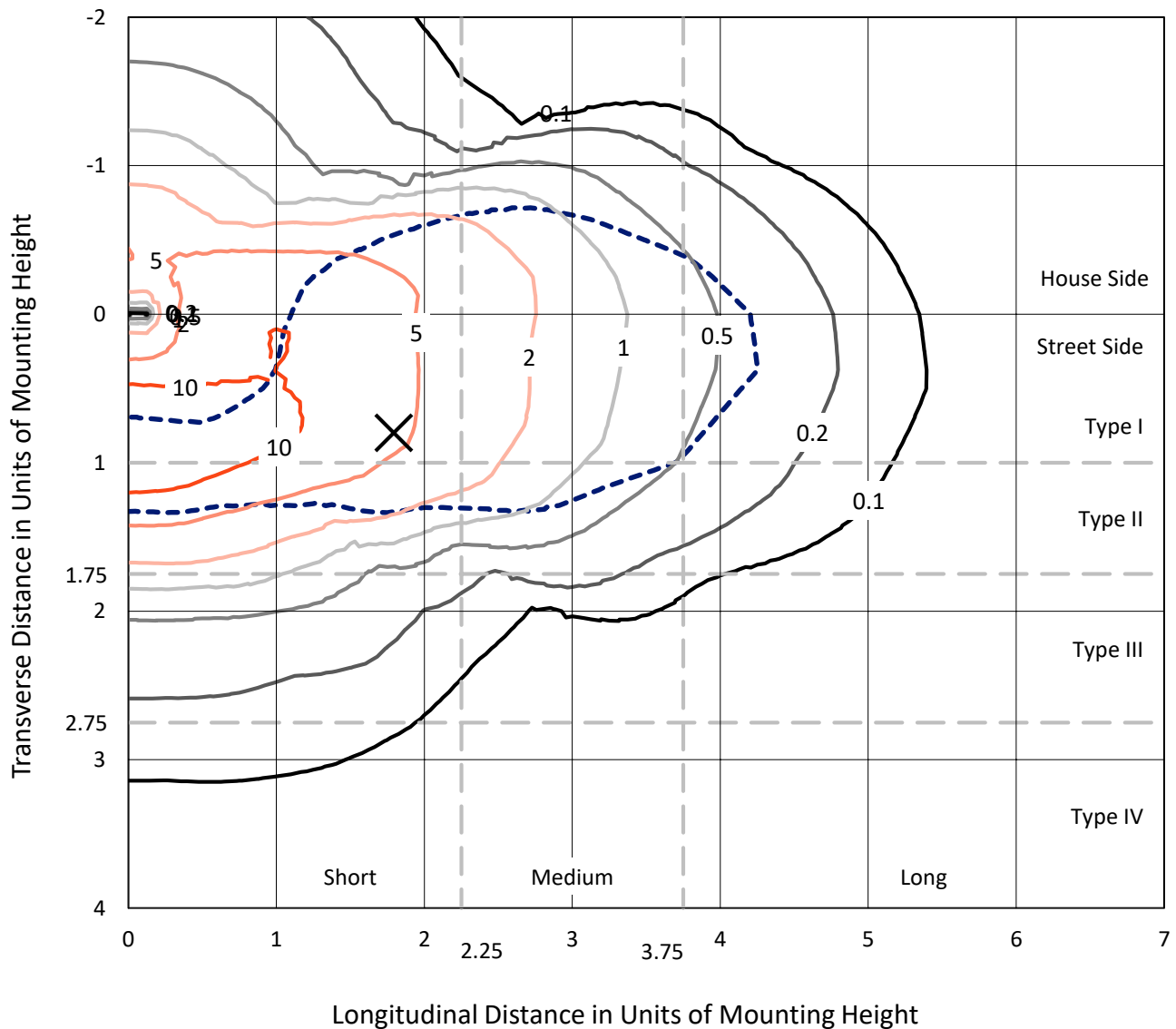


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

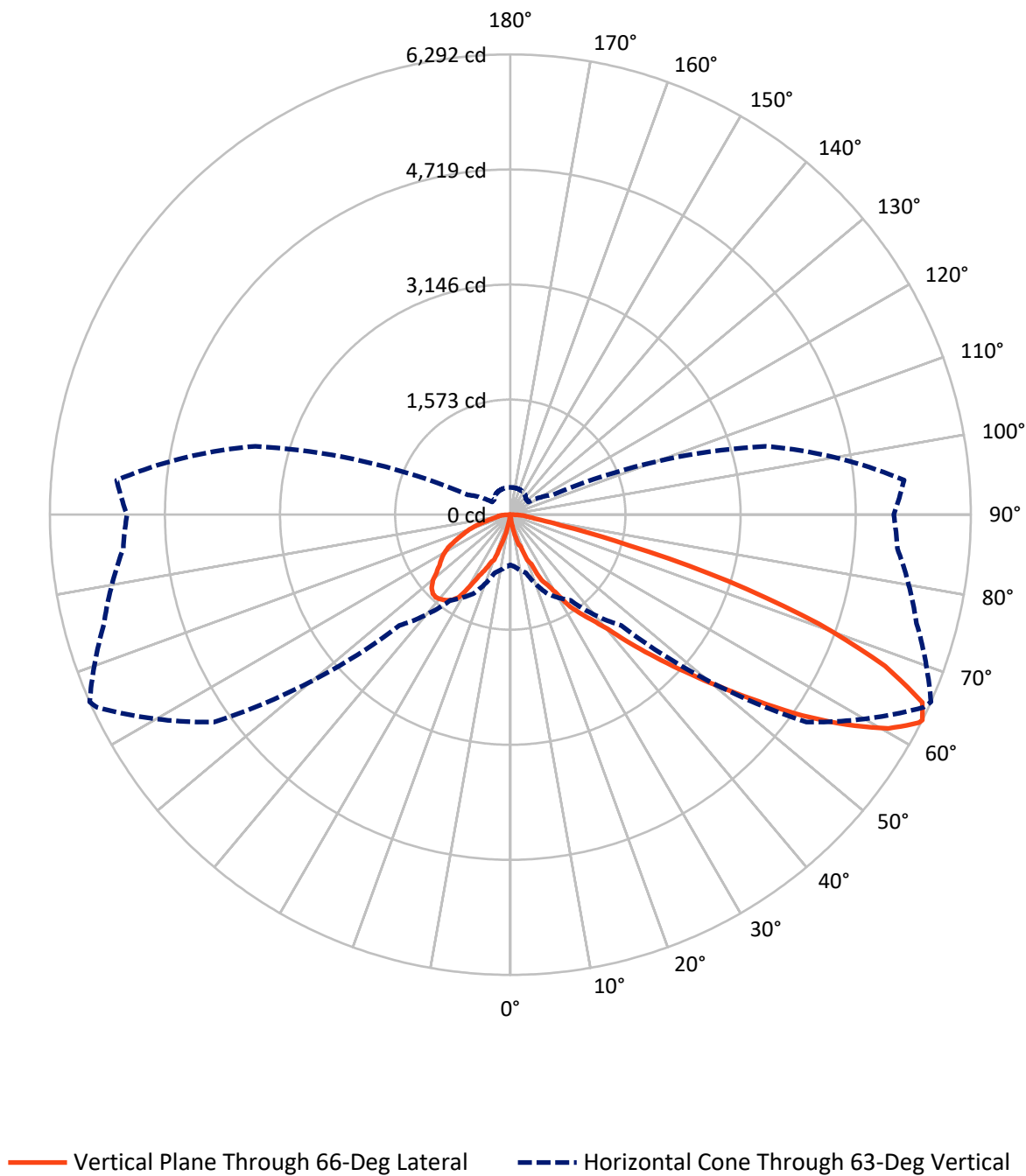


Based on 10 foot mounting height. Maximum calculated value = 18.1 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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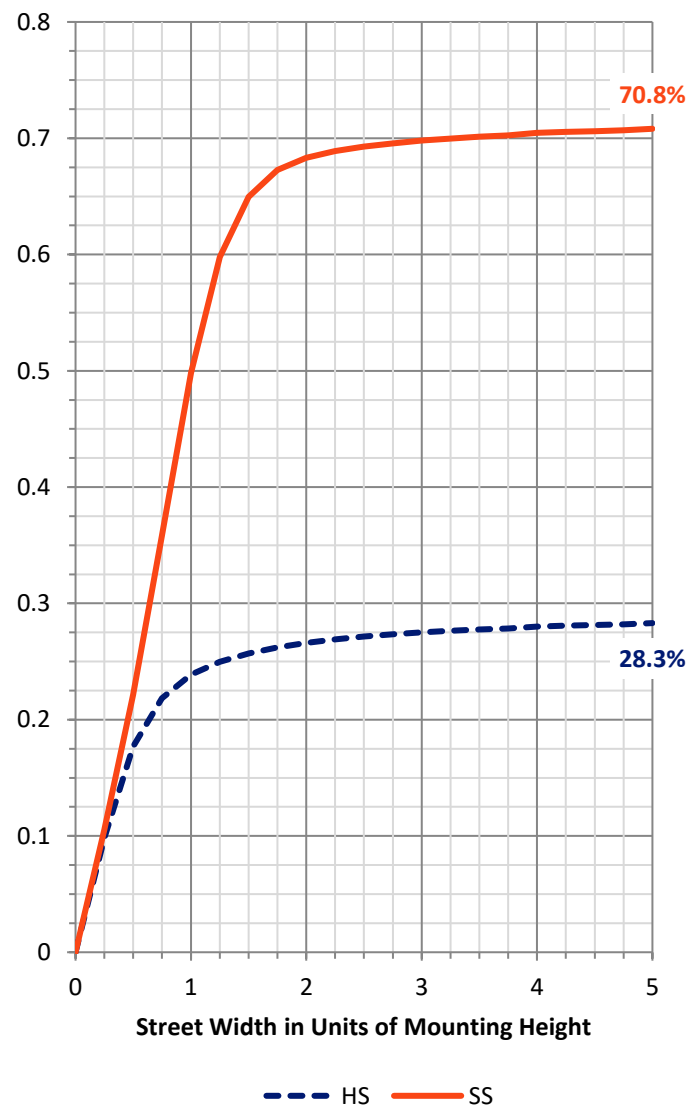
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2517.2	0.0	2517.2
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	6222.8	0.0	6222.8
	% Fixture	71.2	0.0	71.2
Total	Lumens	8740.0	0.0	8740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	0.1
10°-20°	115.4	1.3
20°-30°	424.3	4.9
30°-40°	965.6	11.0
40°-50°	1738.8	19.9
50°-60°	2270.0	26.0
60°-70°	2016.8	23.1
70°-80°	1024.5	11.7
80°-90°	176.0	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°	8740.0	100.0
0°-180°	8740.0	100.0

Coefficient of Utilization



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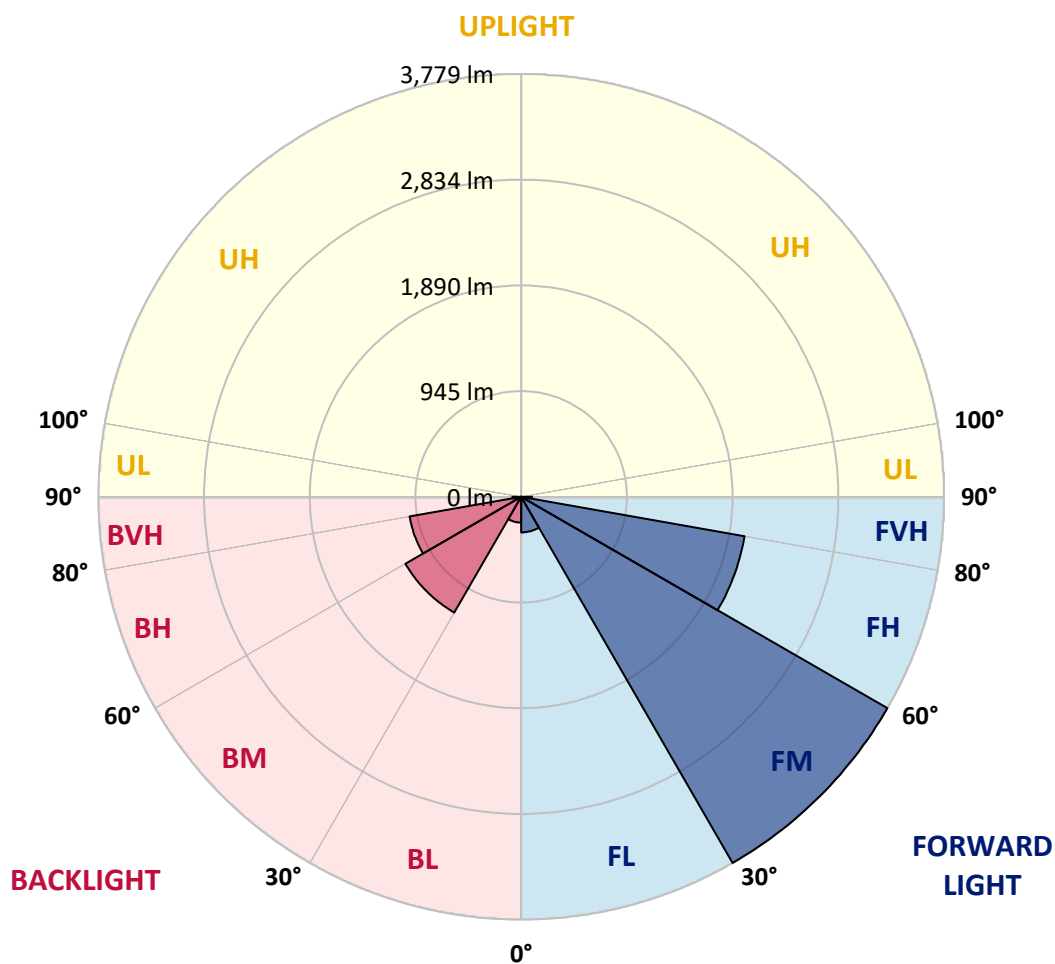
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	317.8	3.6			
FM	(30°-60°)	3779.2	43.2			
FH	(60°-80°)	2028.1	23.2			G2/5000
FVH	(80°-90°)	97.7	1.1			G1/100
BL	(0°-30°)	230.4	2.6	B1/500		
BM	(30°-60°)	1195.2	13.7	B2/2500		
BH	(60°-80°)	1013.2	11.6	B3/2500		G3/2500
BVH	(80°-90°)	78.4	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
2.5°	22.0	22.0	19.0	15.0	12.0	10.0	7.0	5.0	5.0	3.0	2.0
5°	202.2	202.2	201.2	200.2	198.2	190.2	35.0	11.0	10.0	5.0	3.0
7.5°	206.2	205.2	205.2	203.2	202.2	198.2	195.2	76.1	64.1	11.0	6.0
10°	369.3	367.3	364.3	246.2	208.2	203.2	202.2	159.1	158.1	34.0	25.0
12.5°	385.3	386.3	383.3	380.3	372.3	233.2	223.2	288.3	293.3	337.3	262.2
15°	439.4	433.4	411.4	397.3	390.3	366.3	417.4	416.4	418.4	395.3	300.3
17.5°	623.5	621.5	616.5	578.5	429.4	550.5	526.5	448.4	454.4	518.5	518.5
20°	703.6	702.6	684.6	663.6	736.6	593.5	565.5	658.6	663.6	670.6	620.5
22.5°	1056.9	1055.9	1012.9	778.7	827.7	744.7	748.7	750.7	732.6	722.6	776.7
25°	1226.1	1218.1	1194.1	1124.0	981.9	991.9	818.7	984.9	992.9	986.9	974.9
27.5°	1729.5	1730.5	1530.3	1326.2	1205.1	1116.0	1126.0	1093.0	1092.0	1073.9	1122.0
30°	2015.8	2001.8	1931.7	1733.5	1438.3	1319.2	1264.1	1285.1	1253.1	1366.2	1357.2
32.5°	2690.4	2690.4	2448.2	2011.8	1733.5	1635.4	1469.3	1475.3	1499.3	1483.3	1506.3
35°	3164.8	3119.7	2880.5	2526.2	1965.7	1838.6	1739.5	1652.5	1662.5	1634.4	1656.5
37.5°	3668.2	3623.2	3359.0	2904.6	2376.1	2149.9	1966.7	1858.6	1833.6	1835.6	1852.6
40°	4059.6	4034.5	3872.4	3371.0	2781.4	2482.2	2233.0	2085.8	2058.8	2107.9	2162.9
42.5°	4332.8	4322.8	4226.7	3784.3	3259.9	2985.6	2613.3	2400.1	2405.1	2431.1	2486.2
45°	4441.9	4418.9	4415.9	4045.6	3691.2	3553.1	3110.7	2758.4	2776.4	2847.5	2858.5
47.5°	4322.8	4274.8	4361.8	4153.7	4049.6	4058.6	3679.2	3220.8	3202.8	3270.9	3264.9
50°	3886.4	3870.4	4037.6	4070.6	4226.7	4433.9	4302.8	3736.3	3684.2	3690.2	3649.2
52.5°	3209.8	3248.9	3469.1	3699.3	4143.6	4637.1	4860.3	4280.8	4235.7	4108.6	4029.5
55°	2580.3	2627.3	2865.5	3044.7	3722.3	4623.1	5267.6	4825.2	4850.3	4524.0	4376.9
57.5°	1888.7	1949.7	2266.0	2417.1	3049.7	4285.8	5474.8	5355.7	5416.8	4934.3	4707.1
60°	1207.1	1230.1	1549.4	1849.6	2219.0	3492.1	5454.8	5862.2	5935.2	5376.7	5014.4
62.5°	753.7	778.7	882.8	1302.1	1569.4	2367.1	5068.5	6198.5	6265.5	5694.0	5270.6
63°	686.6	715.6	822.7	1190.0	1430.3	2141.9	4940.3	6232.5	6291.5	5747.1	5308.7
65°	511.5	523.5	579.5	802.7	1049.9	1345.2	4045.6	6113.4	6187.4	5792.1	5323.7
67.5°	446.4	451.4	471.4	529.5	750.7	782.7	2357.1	5476.8	5522.9	5621.9	5134.5
70°	408.4	411.4	447.4	451.4	588.5	555.5	864.8	4302.8	4476.9	5276.6	4805.2
72.5°	354.3	358.3	400.4	439.4	456.4	441.4	467.4	2905.6	3115.7	4508.0	4443.9
75°	296.3	300.3	337.3	389.3	397.3	350.3	383.3	1522.3	1671.5	3304.9	3887.4
77.5°	243.2	246.2	279.2	315.3	365.3	269.2	311.3	573.5	710.6	2041.8	2798.5
80°	167.1	175.2	211.2	244.2	279.2	244.2	233.2	328.3	347.3	990.9	1430.3
82.5°	127.1	129.1	164.1	178.2	197.2	241.2	183.2	247.2	261.2	461.4	464.4
85°	88.1	86.1	116.1	124.1	137.1	152.1	153.1	180.2	186.2	266.2	195.2
87.5°	40.0	38.0	63.1	61.1	69.1	75.1	109.1	99.1	101.1	167.1	105.1
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°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
2.5°	2.0	2.0	2.0	3.0	3.0	3.0	2.0	1.0	1.0	1.0	1.0
5°	2.0	2.0	2.0	3.0	3.0	4.0	5.0	5.0	6.0	7.0	7.0
7.5°	5.0	4.0	4.0	4.0	6.0	9.0	24.0	104.1	182.2	192.2	195.2
10°	22.0	22.0	16.0	13.0	15.0	164.1	212.2	219.2	223.2	225.2	225.2
12.5°	273.2	305.3	285.3	153.1	165.1	204.2	227.2	232.2	238.2	289.3	299.3
15°	332.3	335.3	338.3	314.3	435.4	321.3	268.2	405.4	412.4	415.4	414.4
17.5°	504.4	513.5	474.4	422.4	462.4	478.4	390.3	427.4	434.4	440.4	440.4
20°	654.6	655.6	614.5	657.6	562.5	582.5	508.4	482.4	619.5	625.6	624.5
22.5°	806.7	818.7	677.6	701.6	739.7	617.5	642.6	572.5	602.5	602.5	601.5
25°	998.9	994.9	928.8	811.7	776.7	730.6	659.6	597.5	679.6	718.6	718.6
27.5°	1184.0	1127.0	967.9	933.8	890.8	766.7	651.6	685.6	666.6	671.6	670.6
30°	1398.2	1381.2	1237.1	1112.0	914.8	744.7	681.6	620.5	653.6	692.6	688.6
32.5°	1506.3	1462.3	1290.1	1343.2	958.8	717.6	593.5	583.5	593.5	607.5	609.5
35°	1648.5	1576.4	1407.2	1417.2	965.8	629.6	528.5	522.5	577.5	603.5	606.5
37.5°	1831.6	1745.5	1603.4	1450.3	906.8	555.5	468.4	501.4	520.5	532.5	528.5
40°	2066.8	1964.7	1858.6	1459.3	807.7	479.4	435.4	462.4	480.4	483.4	483.4
42.5°	2355.1	2213.9	2120.9	1454.3	678.6	439.4	413.4	434.4	457.4	455.4	453.4
45°	2695.4	2525.2	2335.1	1420.2	552.5	417.4	402.4	416.4	433.4	426.4	423.4
47.5°	3062.7	2879.5	2524.2	1351.2	470.4	401.4	396.3	396.3	415.4	413.4	412.4
50°	3435.0	3246.9	2722.4	1245.1	425.4	387.3	376.3	389.3	411.4	407.4	405.4
52.5°	3803.3	3634.2	2876.5	1098.0	397.3	375.3	368.3	385.3	405.4	401.4	400.4
55°	4142.6	4033.5	3041.7	980.9	368.3	354.3	368.3	382.3	398.4	394.3	394.3
57.5°	4493.0	4460.9	3247.9	887.8	344.3	338.3	364.3	377.3	390.3	388.3	388.3
60°	4844.3	4932.3	3437.0	788.7	325.3	319.3	356.3	371.3	382.3	381.3	381.3
62.5°	5183.6	5346.7	3586.2	672.6	307.3	304.3	346.3	363.3	372.3	374.3	374.3
63°	5238.6	5399.8	3608.2	638.6	303.3	302.3	344.3	361.3	369.3	372.3	372.3
65°	5340.7	5528.9	3643.2	525.5	286.3	291.3	333.3	354.3	359.3	366.3	364.3
67.5°	5248.6	5405.8	3539.1	405.4	265.2	275.2	316.3	339.3	344.3	354.3	349.3
70°	5042.4	5032.4	3186.8	330.3	249.2	258.2	297.3	322.3	324.3	334.3	324.3
72.5°	4654.1	4301.8	2511.2	280.2	233.2	241.2	277.2	301.3	302.3	306.3	296.3
75°	3890.4	3345.9	1509.3	242.2	213.2	219.2	255.2	275.2	278.2	272.2	267.2
77.5°	2656.3	2103.9	687.6	212.2	195.2	196.2	228.2	246.2	247.2	234.2	234.2
80°	1278.1	985.9	286.3	190.2	177.2	173.2	200.2	214.2	213.2	198.2	192.2
82.5°	404.4	360.3	213.2	166.1	158.1	149.1	174.2	180.2	181.2	182.2	146.1
85°	161.1	167.1	165.1	137.1	133.1	113.1	139.1	147.1	144.1	121.1	103.1
87.5°	84.1	103.1	101.1	92.1	95.1	72.1	96.1	92.1	94.1	63.1	49.0
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)