

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: P239621

Luminaire Tested: **UTLD-AF24-90-D-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239621
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-AF24-90-D-U-T2U
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1180mA 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: 8722 lumens
Efficiency: N/A
Efficacy: 92.8 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): 94
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

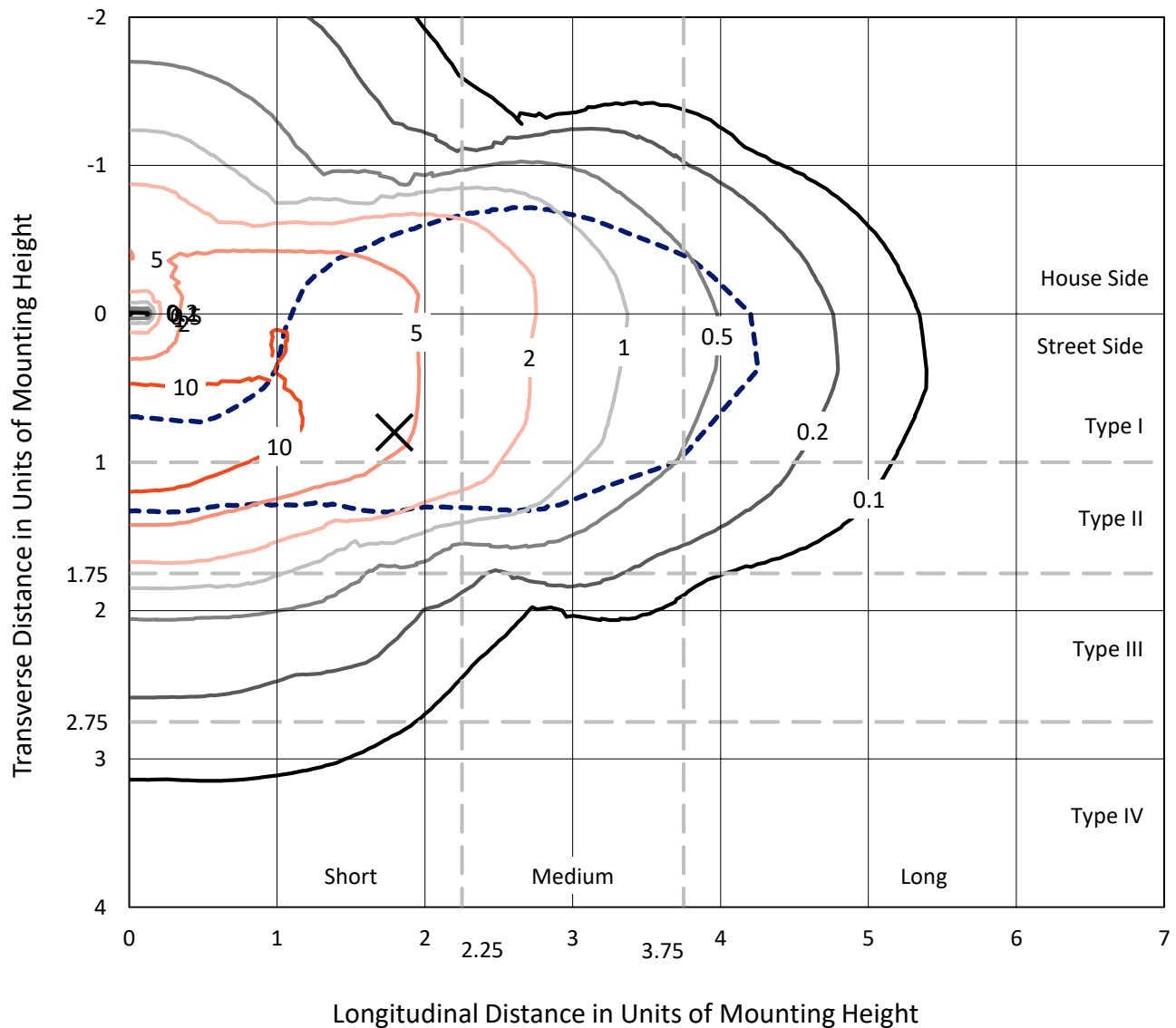


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

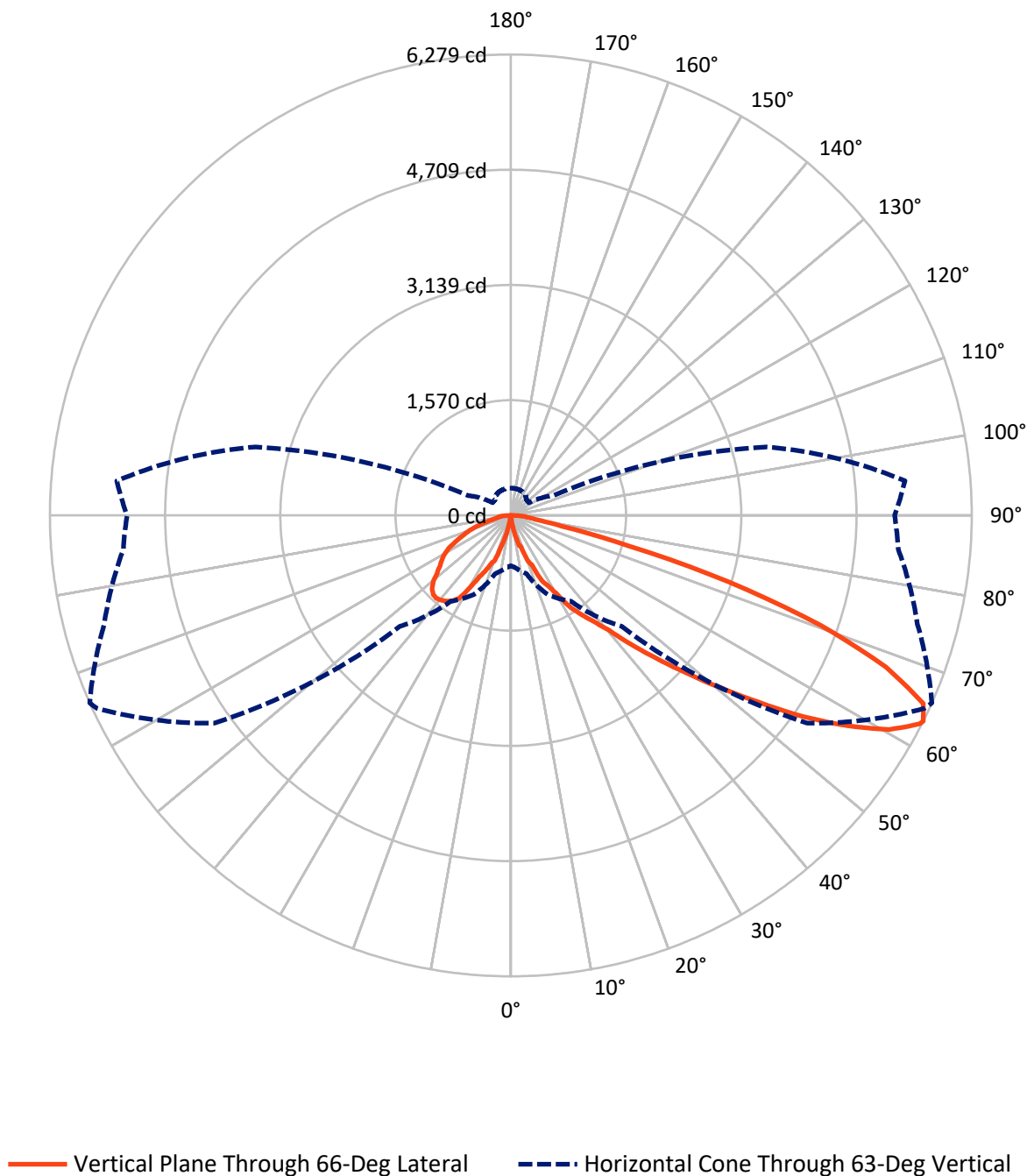


Based on 10 foot mounting height. Maximum calculated value = 18.1 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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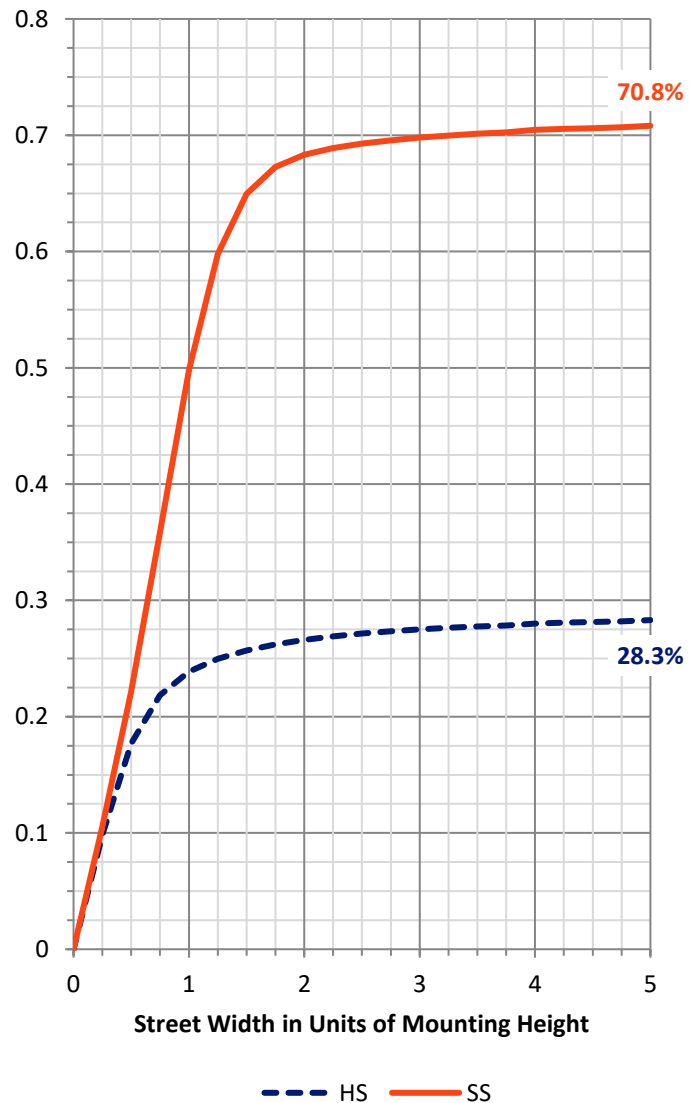
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2512.0	0.0	2512.0
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	6210.0	0.0	6210.0
	% Fixture	71.2	0.0	71.2
Total	Lumens	8722.0	0.0	8722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	0.1
10°-20°	115.2	1.3
20°-30°	423.4	4.9
30°-40°	963.6	11.0
40°-50°	1735.2	19.9
50°-60°	2265.3	26.0
60°-70°	2012.7	23.1
70°-80°	1022.4	11.7
80°-90°	175.7	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°	8722.0	100.0
0°-180°	8722.0	100.0

Coefficient of Utilization



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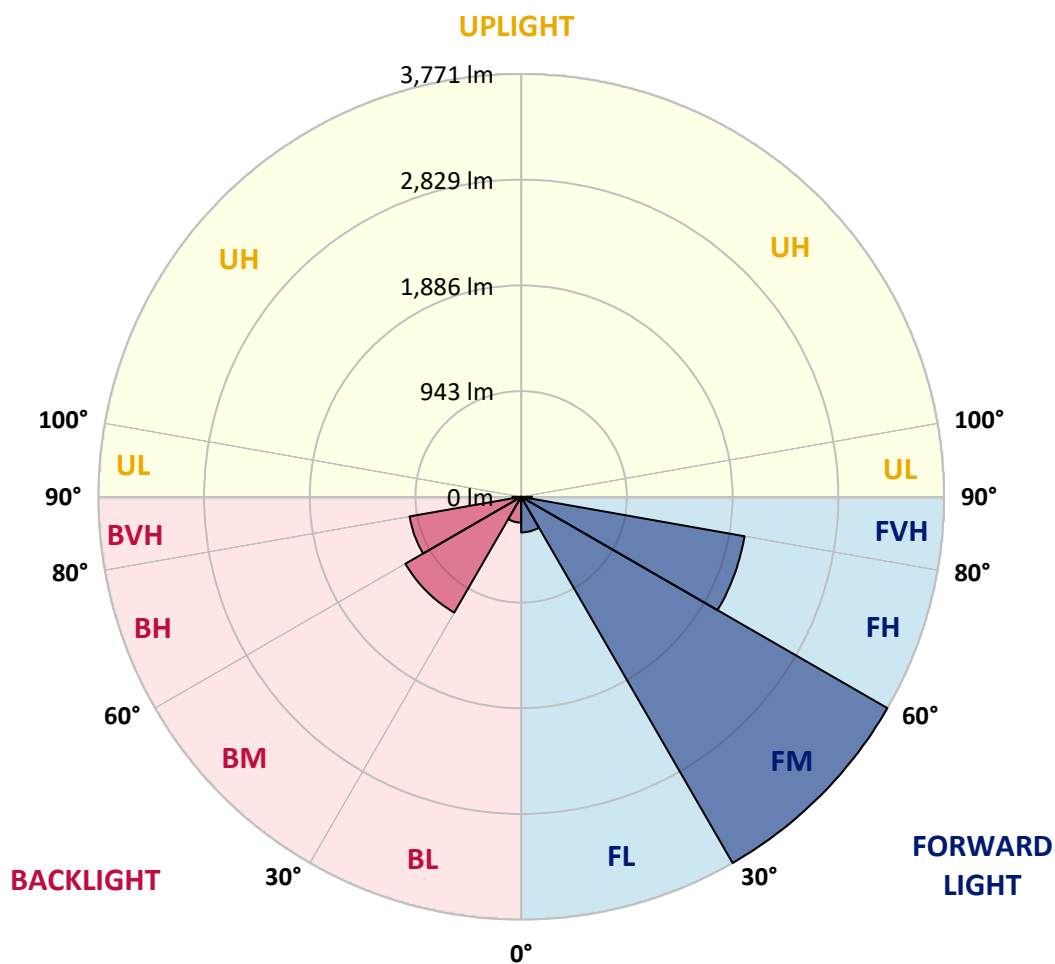
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	317.2	3.6			
FM	(30°-60°)	3771.4	43.2			
FH	(60°-80°)	2023.9	23.2			G2/5000
FVH	(80°-90°)	97.5	1.1			G1/100
BL	(0°-30°)	229.9	2.6	B1/500		
BM	(30°-60°)	1192.8	13.7	B2/2500		
BH	(60°-80°)	1011.1	11.6	B3/2500		G3/2500
BVH	(80°-90°)	78.2	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°	201.8	201.8	200.8	199.8	197.8	189.8	35.0	11.0	10.0	5.0	3.0
7.5°	205.8	204.8	204.8	202.8	201.8	197.8	194.8	75.9	63.9	11.0	6.0
10°	368.6	366.6	363.6	245.7	207.8	202.8	201.8	158.8	157.8	34.0	25.0
12.5°	384.5	385.5	382.5	379.6	371.6	232.7	222.7	287.7	292.7	336.6	261.7
15°	438.5	432.5	410.5	396.5	389.5	365.6	416.5	415.5	417.5	394.5	299.6
17.5°	622.3	620.3	615.3	577.3	428.5	549.4	525.4	447.5	453.5	517.4	517.4
20°	702.2	701.2	683.2	662.2	735.1	592.3	564.3	657.2	662.2	669.2	619.3
22.5°	1054.8	1053.8	1010.8	777.1	826.0	743.1	747.1	749.1	731.1	721.1	775.1
25°	1223.6	1215.6	1191.6	1121.7	979.8	989.8	817.0	982.8	990.8	984.8	972.9
27.5°	1726.0	1727.0	1527.2	1323.4	1202.6	1113.7	1123.7	1090.7	1089.7	1071.7	1119.7
30°	2011.6	1997.6	1927.7	1730.0	1435.3	1316.4	1261.5	1282.5	1250.5	1363.4	1354.4
32.5°	2684.8	2684.8	2443.1	2007.6	1730.0	1632.1	1466.3	1472.3	1496.2	1480.3	1503.2
35°	3158.3	3113.3	2874.6	2521.0	1961.7	1834.8	1735.9	1649.1	1659.0	1631.1	1653.0
37.5°	3660.7	3615.7	3352.0	2898.6	2371.2	2145.5	1962.7	1854.8	1829.8	1831.8	1848.8
40°	4051.2	4026.2	3864.4	3364.0	2775.7	2477.1	2228.4	2081.5	2054.6	2103.5	2158.4
42.5°	4323.9	4313.9	4218.0	3776.5	3253.2	2979.5	2607.9	2395.2	2400.2	2426.1	2481.1
45°	4432.8	4409.8	4406.8	4037.2	3683.6	3545.8	3104.3	2752.7	2770.7	2841.6	2852.6
47.5°	4313.9	4266.0	4352.9	4145.1	4041.2	4050.2	3671.7	3214.2	3196.2	3264.1	3258.1
50°	3878.4	3862.4	4029.2	4062.2	4218.0	4424.8	4293.9	3728.6	3676.7	3682.6	3641.7
52.5°	3203.2	3242.2	3461.9	3691.6	4135.1	4627.5	4850.3	4272.0	4227.0	4100.2	4021.2
55°	2575.0	2621.9	2859.6	3038.4	3714.6	4613.5	5256.8	4815.3	4840.3	4514.7	4367.8
57.5°	1884.8	1945.7	2261.3	2412.1	3043.4	4276.9	5463.5	5344.7	5405.6	4924.2	4697.4
60°	1204.6	1227.5	1546.2	1845.8	2214.4	3484.9	5443.6	5850.1	5923.0	5365.7	5004.1
62.5°	752.1	777.1	881.0	1299.5	1566.1	2362.2	5058.0	6185.7	6252.6	5682.3	5259.8
63°	685.2	714.2	821.0	1187.6	1427.3	2137.5	4930.2	6219.6	6278.6	5735.2	5297.7
65°	510.4	522.4	578.3	801.1	1047.8	1342.4	4037.2	6100.8	6174.7	5780.2	5312.7
67.5°	445.5	450.5	470.4	528.4	749.1	781.1	2352.2	5465.5	5511.5	5610.4	5123.9
70°	407.5	410.5	446.5	450.5	587.3	554.3	863.0	4293.9	4467.7	5265.8	4795.3
72.5°	353.6	357.6	399.5	438.5	455.5	440.5	466.4	2899.6	3109.3	4498.7	4434.8
75°	295.7	299.6	336.6	388.5	396.5	349.6	382.5	1519.2	1668.0	3298.1	3879.4
77.5°	242.7	245.7	278.7	314.6	364.6	268.7	310.6	572.3	709.2	2037.6	2792.7
80°	166.8	174.8	210.8	243.7	278.7	243.7	232.7	327.6	346.6	988.8	1427.3
82.5°	126.9	128.8	163.8	177.8	196.8	240.7	182.8	246.7	260.7	460.5	463.5
85°	87.9	85.9	115.9	123.9	136.8	151.8	152.8	179.8	185.8	265.7	194.8
87.5°	40.0	38.0	62.9	60.9	68.9	74.9	108.9	98.9	100.9	166.8	104.9
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	103.9	181.8	191.8	194.8
10°	22.0	22.0	16.0	13.0	15.0	163.8	211.7	218.7	222.7	224.7	224.7
12.5°	272.7	304.6	284.7	152.8	164.8	203.8	226.7	231.7	237.7	288.7	298.6
15°	331.6	334.6	337.6	313.6	434.5	320.6	267.7	404.5	411.5	414.5	413.5
17.5°	503.4	512.4	473.4	421.5	461.5	477.4	389.5	426.5	433.5	439.5	439.5
20°	653.2	654.2	613.3	656.2	561.3	581.3	507.4	481.4	618.3	624.3	623.3
22.5°	805.0	817.0	676.2	700.2	738.1	616.3	641.2	571.3	601.3	601.3	600.3
25°	996.8	992.8	926.9	810.0	775.1	729.1	658.2	596.3	678.2	717.2	717.2
27.5°	1181.6	1124.7	965.9	931.9	888.9	765.1	650.2	684.2	665.2	670.2	669.2
30°	1395.4	1378.4	1234.5	1109.7	912.9	743.1	680.2	619.3	652.2	691.2	687.2
32.5°	1503.2	1459.3	1287.5	1340.4	956.9	716.2	592.3	582.3	592.3	606.3	608.3
35°	1645.1	1573.1	1404.3	1414.3	963.9	628.3	527.4	521.4	576.3	602.3	605.3
37.5°	1827.8	1741.9	1600.1	1447.3	904.9	554.3	467.4	500.4	519.4	531.4	527.4
40°	2062.6	1960.7	1854.8	1456.3	806.0	478.4	434.5	461.5	479.4	482.4	482.4
42.5°	2350.2	2209.4	2116.5	1451.3	677.2	438.5	412.5	433.5	456.5	454.5	452.5
45°	2689.8	2520.0	2330.2	1417.3	551.3	416.5	401.5	415.5	432.5	425.5	422.5
47.5°	3056.4	2873.6	2519.0	1348.4	469.4	400.5	395.5	395.5	414.5	412.5	411.5
50°	3427.9	3240.2	2716.8	1242.5	424.5	386.5	375.6	388.5	410.5	406.5	404.5
52.5°	3795.5	3626.7	2870.6	1095.7	396.5	374.6	367.6	384.5	404.5	400.5	399.5
55°	4134.1	4025.2	3035.4	978.8	367.6	353.6	367.6	381.5	397.5	393.5	393.5
57.5°	4483.7	4451.7	3241.2	886.0	343.6	337.6	363.6	376.6	389.5	387.5	387.5
60°	4834.3	4922.2	3429.9	787.1	324.6	318.6	355.6	370.6	381.5	380.6	380.6
62.5°	5172.9	5335.7	3578.8	671.2	306.6	303.6	345.6	362.6	371.6	373.6	373.6
63°	5227.8	5388.6	3600.7	637.2	302.6	301.6	343.6	360.6	368.6	371.6	371.6
65°	5329.7	5517.5	3635.7	524.4	285.7	290.7	332.6	353.6	358.6	365.6	363.6
67.5°	5237.8	5394.6	3531.8	404.5	264.7	274.7	315.6	338.6	343.6	353.6	348.6
70°	5032.1	5022.1	3180.2	329.6	248.7	257.7	296.6	321.6	323.6	333.6	323.6
72.5°	4644.5	4292.9	2506.0	279.7	232.7	240.7	276.7	300.6	301.6	305.6	295.7
75°	3882.4	3339.1	1506.2	241.7	212.7	218.7	254.7	274.7	277.7	271.7	266.7
77.5°	2650.9	2099.5	686.2	211.7	194.8	195.8	227.7	245.7	246.7	233.7	233.7
80°	1275.5	983.8	285.7	189.8	176.8	172.8	199.8	213.7	212.7	197.8	191.8
82.5°	403.5	359.6	212.7	165.8	157.8	148.8	173.8	179.8	180.8	181.8	145.8
85°	160.8	166.8	164.8	136.8	132.8	112.9	138.8	146.8	143.8	120.9	102.9
87.5°	83.9	102.9	100.9	91.9	94.9	71.9	95.9	91.9	93.9	62.9	48.9
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)