

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: P266540

Luminaire Tested: **UTLD-AF24-100-D-U-T2U-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266540
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-AF24-100-D-U-T2U-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 7593.7 lumens
Efficiency: N/A
Efficacy: 79.1 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



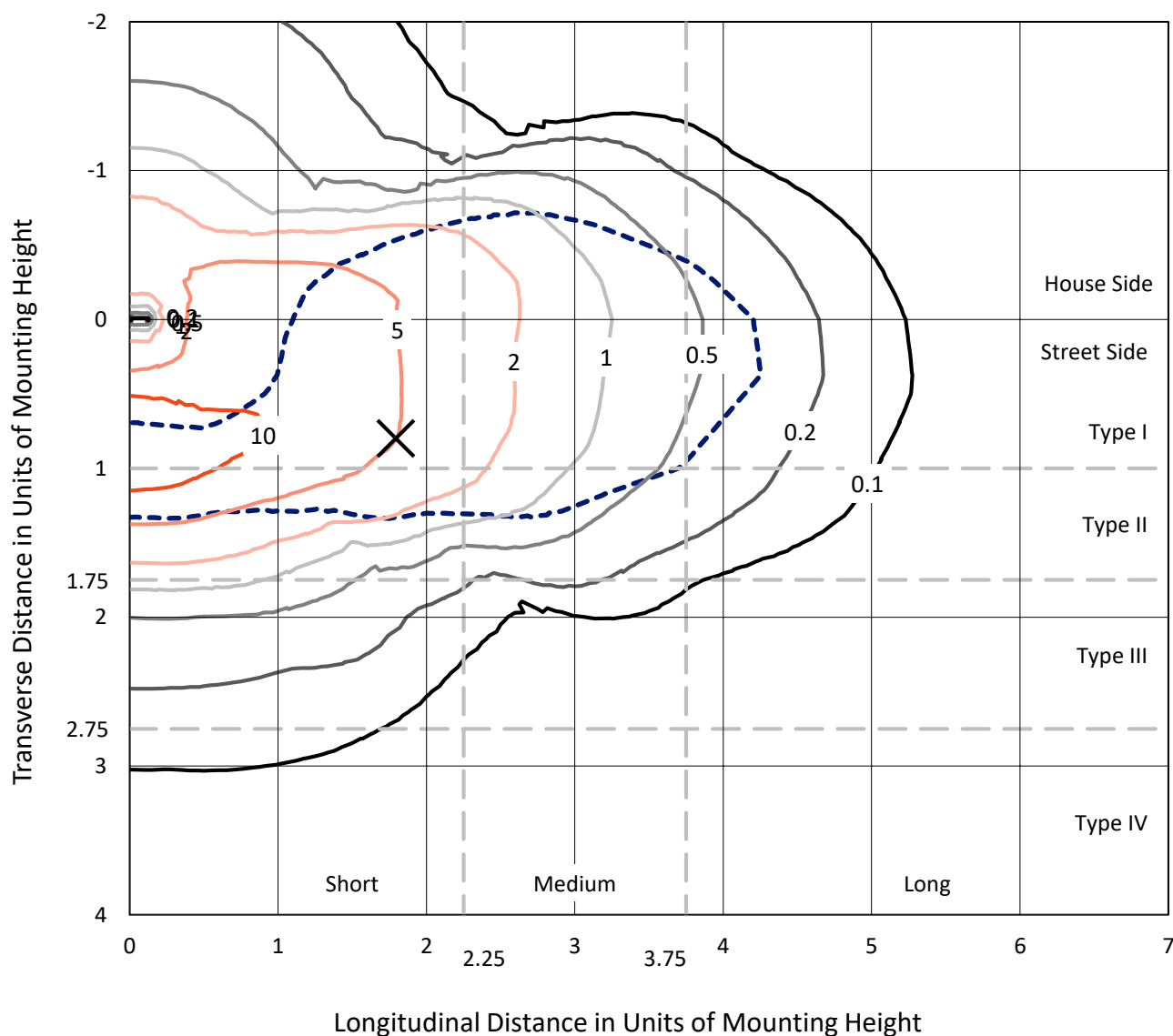
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

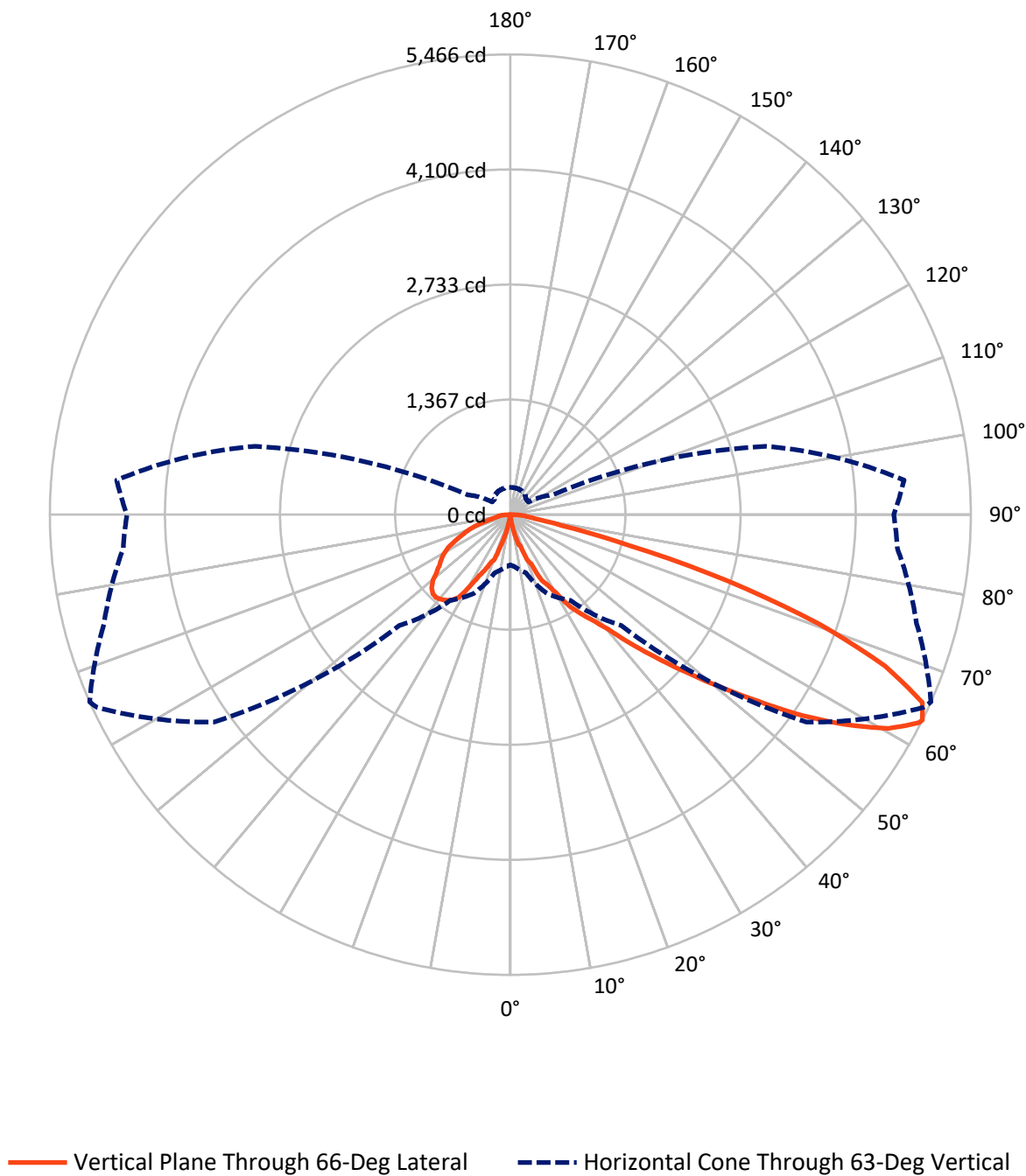


Based on 10 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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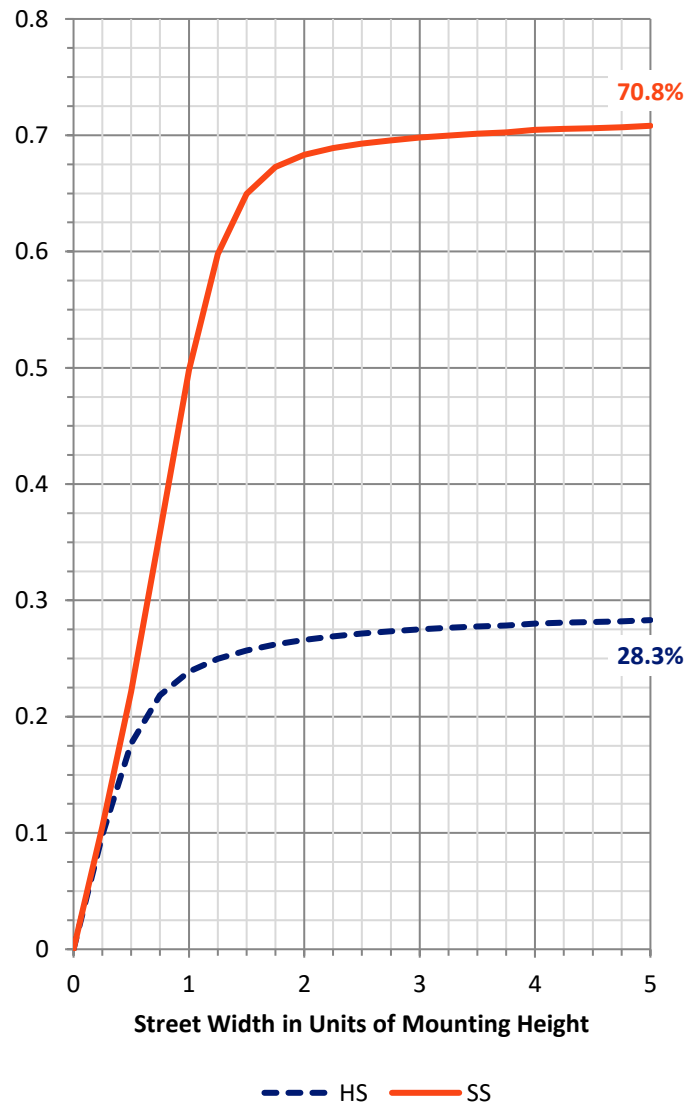
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2187.0	0.0	2187.0
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	5406.7	0.0	5406.7
	% Fixture	71.2	0.0	71.2
Total	Lumens	7593.7	0.0	7593.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.4	0.1
10°-20°	100.3	1.3
20°-30°	368.6	4.9
30°-40°	839.0	11.0
40°-50°	1510.7	19.9
50°-60°	1972.3	26.0
60°-70°	1752.3	23.1
70°-80°	890.1	11.7
80°-90°	153.0	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°	7593.7	100.0
0°-180°	7593.7	100.0

Coefficient of Utilization



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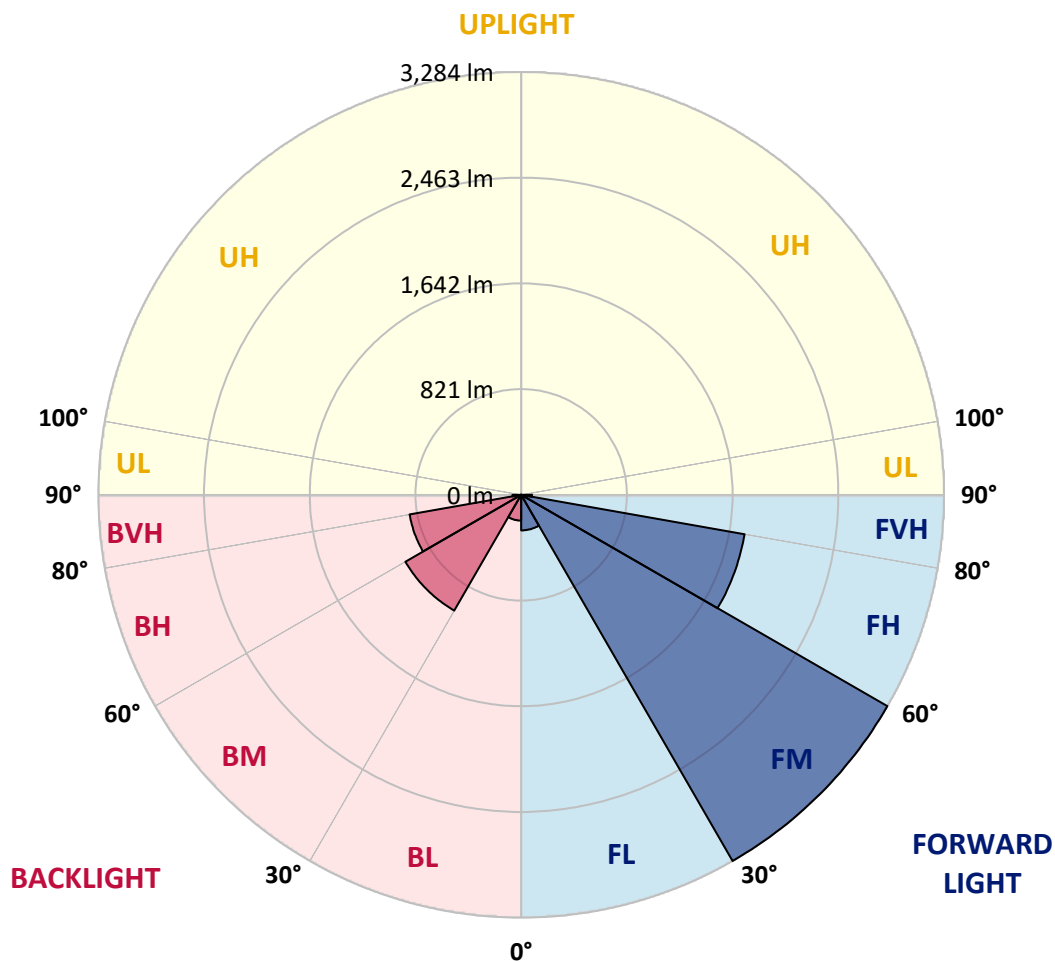
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	276.2	3.6			
FM	(30°-60°)	3283.6	43.2			
FH	(60°-80°)	1762.1	23.2			G1/1800
FVH	(80°-90°)	84.9	1.1			G1/100
BL	(0°-30°)	200.2	2.6	B1/500		
BM	(30°-60°)	1038.5	13.7	B2/2500		
BH	(60°-80°)	880.3	11.6	B2/1000		G2/1000
BVH	(80°-90°)	68.1	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°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
2.5°	19.1	19.1	16.4	13.0	10.4	8.8	6.1	4.3	4.3	2.6	1.7
5°	175.7	175.7	174.8	173.9	172.1	165.2	30.5	9.5	8.8	4.3	2.6
7.5°	179.1	178.3	178.3	176.5	175.7	172.1	169.6	66.0	55.7	9.5	5.2
10°	320.9	319.2	316.6	213.9	180.9	176.5	175.7	138.2	137.4	29.6	21.7
12.5°	334.8	335.6	333.0	330.4	323.5	202.6	193.9	250.4	254.8	293.0	227.8
15°	381.8	376.5	357.4	345.2	339.1	318.3	362.6	361.7	363.5	343.5	260.9
17.5°	541.8	540.1	535.7	502.6	373.1	478.3	457.3	389.5	394.9	450.5	450.5
20°	611.3	610.5	594.8	576.5	640.0	515.6	491.4	572.2	576.5	582.6	539.2
22.5°	918.2	917.4	880.1	676.6	719.2	647.0	650.5	652.2	636.5	627.8	674.8
25°	1065.3	1058.4	1037.5	976.5	853.1	861.7	711.4	855.6	862.6	857.4	847.0
27.5°	1502.7	1503.6	1329.6	1152.3	1047.1	969.6	978.3	949.6	948.7	933.1	974.8
30°	1751.3	1739.2	1678.4	1506.2	1249.6	1146.1	1098.3	1116.6	1088.7	1187.0	1179.1
32.5°	2337.5	2337.5	2127.0	1747.9	1506.2	1420.9	1276.6	1281.8	1302.7	1288.8	1308.8
35°	2749.7	2710.5	2502.8	2194.9	1707.9	1597.5	1511.4	1435.8	1444.5	1420.1	1439.3
37.5°	3187.1	3148.0	2918.5	2523.6	2064.5	1867.9	1708.8	1614.9	1593.1	1594.9	1609.7
40°	3527.1	3505.4	3364.5	2928.8	2416.6	2156.7	1940.1	1812.3	1788.7	1831.5	1879.3
42.5°	3764.5	3755.9	3672.5	3287.9	2832.4	2594.0	2270.6	2085.3	2089.6	2112.3	2160.2
45°	3859.4	3839.4	3836.8	3515.0	3207.0	3087.1	2702.7	2396.7	2412.3	2474.0	2483.6
47.5°	3755.9	3714.1	3789.8	3608.9	3518.4	3526.2	3196.7	2798.4	2782.8	2841.9	2836.7
50°	3376.6	3362.7	3508.1	3536.6	3672.5	3852.4	3738.4	3246.2	3201.0	3206.3	3170.6
52.5°	2788.9	2822.7	3014.1	3214.0	3600.1	4028.9	4222.8	3719.3	3680.1	3569.8	3501.1
55°	2241.9	2282.8	2489.7	2645.4	3234.1	4016.7	4576.8	4192.4	4214.2	3930.7	3802.9
57.5°	1640.9	1694.1	1968.7	2100.1	2649.7	3723.7	4756.7	4653.3	4706.3	4287.3	4089.9
60°	1048.7	1068.8	1346.2	1607.1	1927.9	3034.0	4739.4	5093.3	5156.8	4671.5	4356.8
62.5°	654.9	676.6	767.1	1131.3	1363.5	2056.6	4403.8	5385.5	5443.8	4947.2	4579.4
63°	596.6	621.7	714.8	1033.9	1242.6	1861.0	4292.5	5415.1	5466.4	4993.3	4612.3
65°	444.4	454.8	503.5	697.4	912.1	1168.8	3515.0	5311.6	5375.9	5032.5	4625.5
67.5°	387.9	392.2	409.5	460.0	652.2	680.0	2048.0	4758.5	4798.6	4884.7	4461.2
70°	354.8	357.4	388.7	392.2	511.3	482.6	751.3	3738.4	3889.8	4584.6	4175.1
72.5°	307.8	311.4	347.9	381.8	396.5	383.4	406.2	2524.4	2707.1	3916.7	3861.1
75°	257.5	260.9	293.0	338.3	345.2	304.3	333.0	1322.7	1452.3	2871.4	3377.5
77.5°	211.3	213.9	242.6	274.0	317.5	233.9	270.5	498.3	617.5	1774.1	2431.4
80°	145.3	152.3	183.6	212.2	242.6	212.2	202.6	285.2	301.7	860.9	1242.6
82.5°	110.4	112.2	142.7	154.8	171.2	209.6	159.1	214.8	227.0	401.0	403.5
85°	76.5	74.7	100.9	107.8	119.1	132.2	133.0	156.6	161.8	231.4	169.6
87.5°	34.8	33.1	54.7	53.0	59.9	65.2	94.9	86.1	87.9	145.3	91.3
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°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
2.5°	1.7	1.7	1.7	2.6	2.6	2.6	1.7	0.9	0.9	0.9	0.9
5°	1.7	1.7	1.7	2.6	2.6	3.5	4.3	4.3	5.2	6.1	6.1
7.5°	4.3	3.5	3.5	3.5	5.2	7.8	20.9	90.4	158.3	166.9	169.6
10°	19.1	19.1	14.0	11.3	13.0	142.7	184.3	190.4	193.9	195.7	195.7
12.5°	237.4	265.2	247.8	133.0	143.5	177.3	197.4	201.8	207.0	251.3	260.0
15°	288.7	291.3	293.9	273.1	378.2	279.2	233.1	352.1	358.2	360.8	360.0
17.5°	438.4	446.1	412.2	367.0	401.7	415.6	339.1	371.3	377.4	382.6	382.6
20°	568.7	569.5	534.0	571.3	488.7	506.1	441.7	419.1	538.3	543.6	542.7
22.5°	700.9	711.4	588.7	609.6	642.6	536.6	558.2	497.4	523.5	523.5	522.6
25°	867.9	864.3	806.9	705.3	674.8	634.8	573.1	519.2	590.5	624.4	624.4
27.5°	1028.7	979.2	841.0	811.3	774.0	666.2	566.1	595.7	579.1	583.4	582.6
30°	1214.9	1200.0	1074.8	966.1	794.8	647.0	592.3	539.2	567.9	601.8	598.4
32.5°	1308.8	1270.6	1120.9	1167.0	833.1	623.6	515.6	507.0	515.6	527.8	529.6
35°	1432.3	1369.6	1222.7	1231.3	839.1	547.0	459.2	454.0	501.8	524.4	526.9
37.5°	1591.3	1516.6	1393.1	1260.1	787.9	482.6	407.0	435.7	452.1	462.6	459.2
40°	1795.7	1707.0	1614.9	1267.9	701.8	416.5	378.2	401.7	417.4	420.0	420.0
42.5°	2046.2	1923.6	1842.8	1263.6	589.6	381.8	359.1	377.4	397.4	395.7	393.9
45°	2341.9	2194.0	2028.8	1234.0	480.1	362.6	349.6	361.7	376.5	370.5	367.9
47.5°	2661.0	2501.9	2193.1	1173.9	408.6	348.7	344.4	344.4	360.8	359.1	358.2
50°	2984.4	2820.9	2365.3	1081.7	369.7	336.5	327.0	338.3	357.4	353.9	352.1
52.5°	3304.5	3157.5	2499.3	954.0	345.2	326.2	320.1	334.8	352.1	348.7	347.9
55°	3599.2	3504.6	2642.8	852.2	320.1	307.8	320.1	332.3	346.0	342.7	342.7
57.5°	3903.7	3875.8	2821.8	771.4	299.1	293.9	316.6	327.8	339.1	337.5	337.5
60°	4208.9	4285.5	2986.2	685.2	282.6	277.3	309.6	322.6	332.3	331.4	331.4
62.5°	4503.7	4645.4	3115.9	584.3	266.9	264.5	300.9	315.7	323.5	325.2	325.2
63°	4551.5	4691.6	3134.9	554.9	263.6	262.7	299.1	314.0	320.9	323.5	323.5
65°	4640.3	4803.7	3165.4	456.6	248.7	253.1	289.6	307.8	312.3	318.3	316.6
67.5°	4560.2	4696.8	3075.0	352.1	230.4	239.2	274.8	294.9	299.1	307.8	303.4
70°	4381.2	4372.4	2768.8	287.0	216.5	224.3	258.3	280.0	281.8	290.4	281.8
72.5°	4043.7	3737.6	2181.9	243.5	202.6	209.6	240.8	261.8	262.7	266.1	257.5
75°	3380.2	2907.2	1311.3	210.5	185.2	190.4	221.7	239.2	241.7	236.6	232.2
77.5°	2307.9	1828.0	597.5	184.3	169.6	170.5	198.3	213.9	214.8	203.5	203.5
80°	1110.5	856.5	248.7	165.2	153.9	150.5	173.9	186.0	185.2	172.1	166.9
82.5°	351.3	313.1	185.2	144.4	137.4	129.5	151.4	156.6	157.5	158.3	127.0
85°	140.0	145.3	143.5	119.1	115.6	98.3	120.9	127.7	125.3	105.2	89.7
87.5°	73.0	89.7	87.9	79.9	82.6	62.6	83.5	79.9	81.7	54.7	42.6
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)