

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: P239612

Luminaire Tested: **UTLD-AF24-90-D-U-T2U-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239612
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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 7720 lumens
Efficiency: N/A
Efficacy: 82.1 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): 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



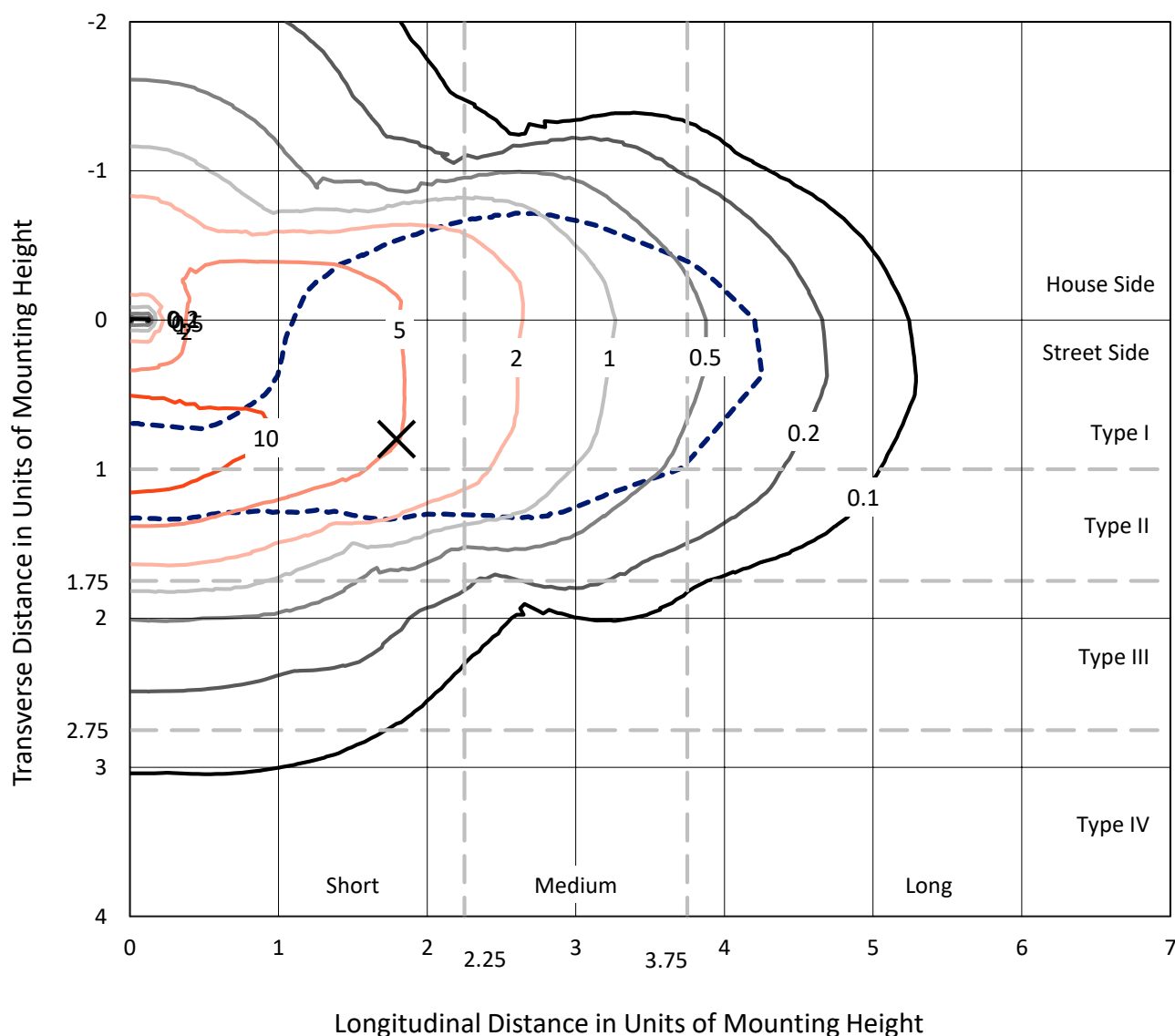
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

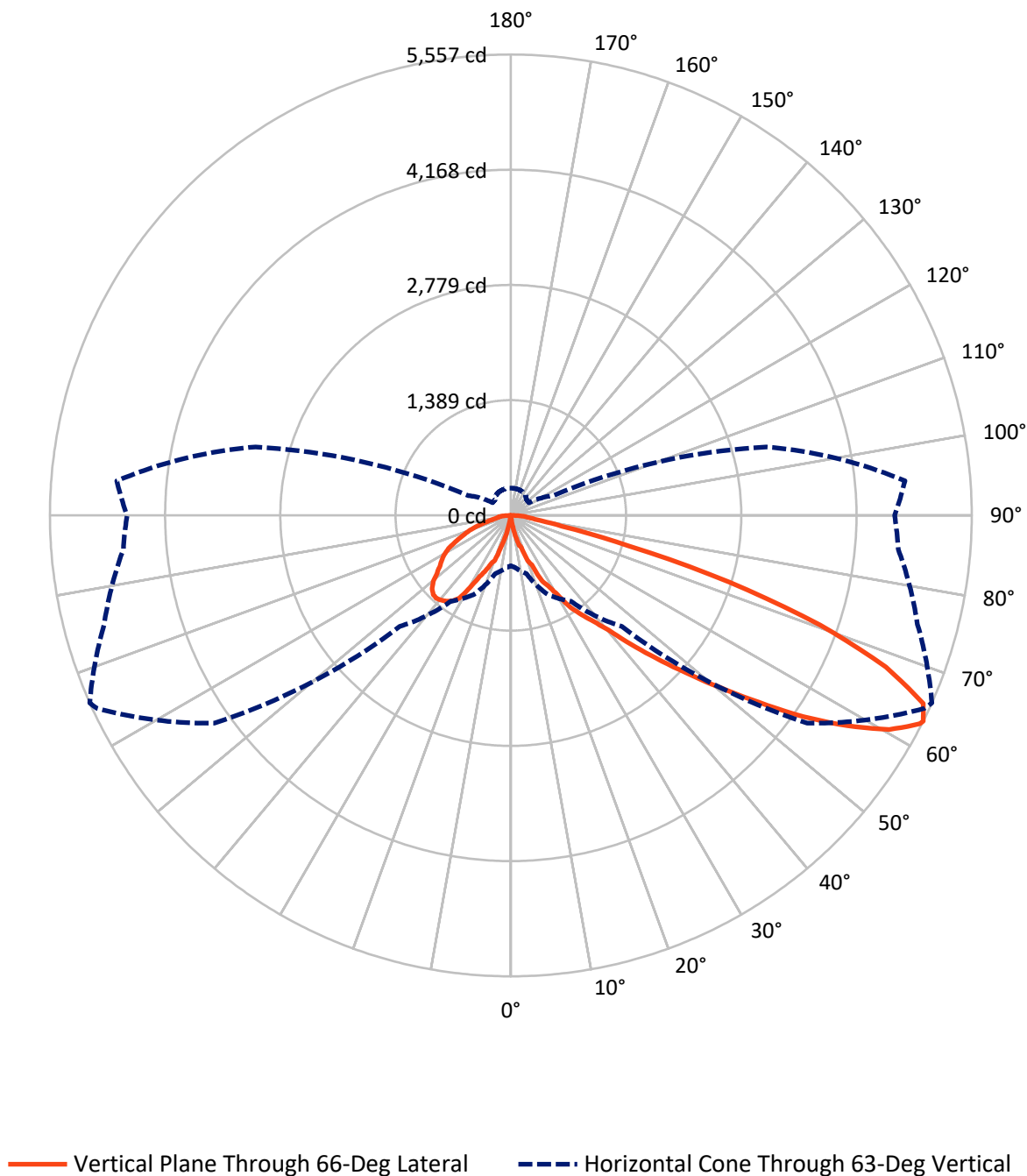


Based on 10 foot mounting height. Maximum calculated value = 16 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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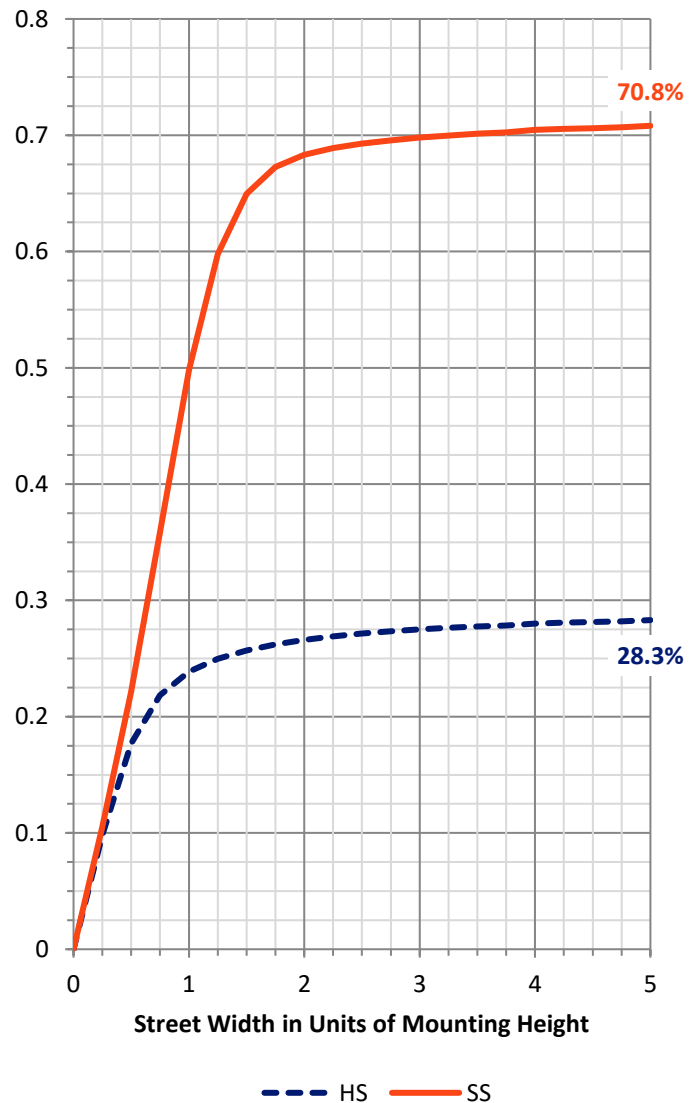
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2223.4	0.0	2223.4
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	5496.6	0.0	5496.6
	% Fixture	71.2	0.0	71.2
Total	Lumens	7720.0	0.0	7720.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.1
10°-20°	101.9	1.3
20°-30°	374.8	4.9
30°-40°	852.9	11.0
40°-50°	1535.9	19.9
50°-60°	2005.1	26.0
60°-70°	1781.4	23.1
70°-80°	904.9	11.7
80°-90°	155.5	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°	7720.0	100.0
0°-180°	7720.0	100.0

Coefficient of Utilization



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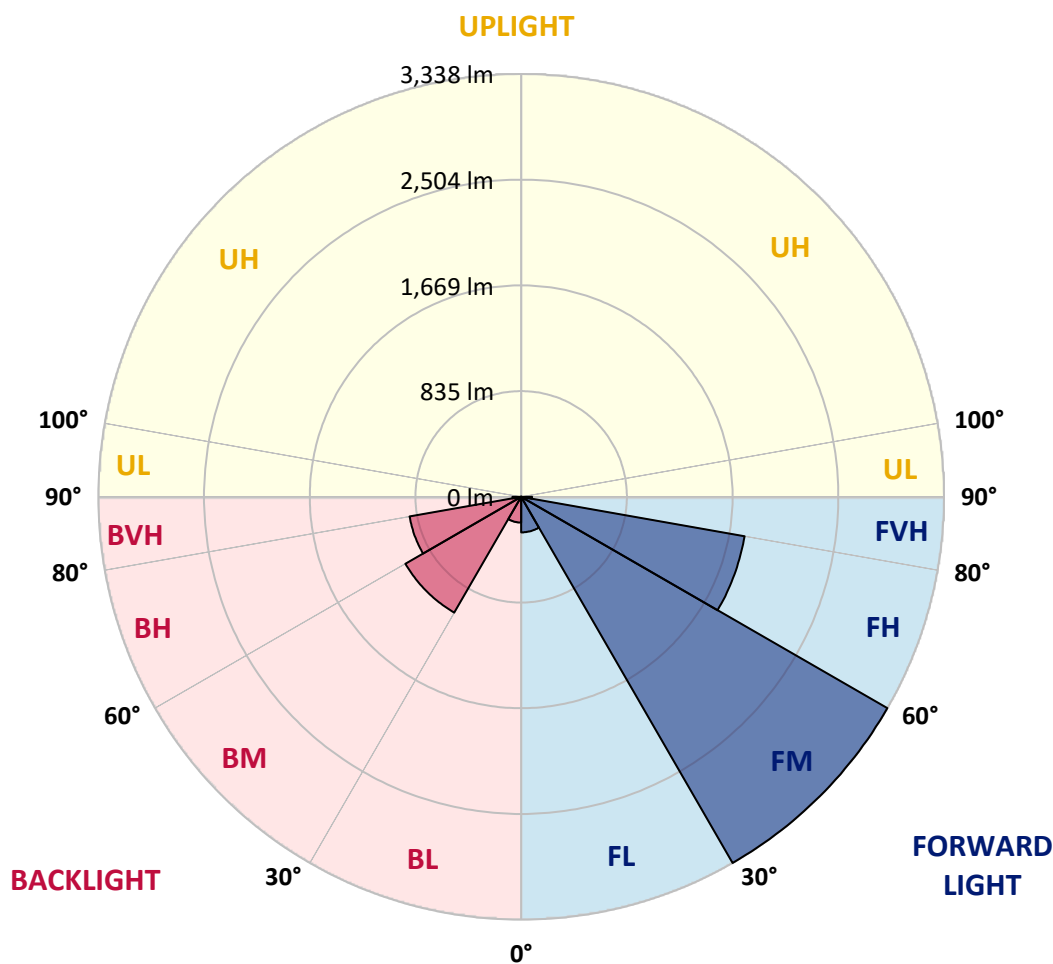
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	280.8	3.6			
FM	(30°-60°)	3338.2	43.2			
FH	(60°-80°)	1791.4	23.2			G1/1800
FVH	(80°-90°)	86.3	1.1			G1/100
BL	(0°-30°)	203.5	2.6	B1/500		
BM	(30°-60°)	1055.7	13.7	B2/2500		
BH	(60°-80°)	895.0	11.6	B2/1000		G2/1000
BVH	(80°-90°)	69.2	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	19.4	19.4	16.8	13.3	10.6	8.8	6.2	4.4	4.4	2.7	1.8
5°	178.6	178.6	177.7	176.8	175.0	168.0	30.9	9.7	8.8	4.4	2.7
7.5°	182.1	181.2	181.2	179.5	178.6	175.0	172.4	67.2	56.6	9.7	5.3
10°	326.2	324.5	321.8	217.5	183.9	179.5	178.6	140.6	139.7	30.1	22.1
12.5°	340.4	341.3	338.6	335.9	328.9	206.0	197.1	254.6	259.0	297.9	231.6
15°	388.1	382.8	363.4	351.0	344.8	323.6	368.7	367.8	369.5	349.2	265.2
17.5°	550.8	549.0	544.6	511.0	379.3	486.2	465.0	396.1	401.4	457.9	457.9
20°	621.5	620.6	604.7	586.1	650.7	524.3	499.5	581.7	586.1	592.3	548.1
22.5°	933.6	932.7	894.7	687.8	731.1	657.8	661.3	663.1	647.1	638.3	686.0
25°	1083.0	1075.9	1054.7	992.8	867.3	876.1	723.2	869.9	877.0	871.7	861.1
27.5°	1527.7	1528.6	1351.7	1171.4	1064.4	985.7	994.6	965.4	964.5	948.6	991.0
30°	1780.5	1768.1	1706.3	1531.2	1270.4	1165.2	1116.6	1135.1	1106.9	1206.8	1198.8
32.5°	2376.4	2376.4	2162.4	1777.0	1531.2	1444.6	1297.8	1303.1	1324.3	1310.2	1330.5
35°	2795.4	2755.7	2544.4	2231.4	1736.3	1624.0	1536.5	1459.6	1468.4	1443.7	1463.1
37.5°	3240.1	3200.3	2966.9	2565.6	2098.8	1899.0	1737.2	1641.7	1619.6	1621.4	1636.4
40°	3585.8	3563.7	3420.5	2977.6	2456.8	2192.5	1972.4	1842.4	1818.5	1861.9	1910.5
42.5°	3827.2	3818.3	3733.4	3342.7	2879.4	2637.2	2308.3	2120.0	2124.4	2147.4	2196.0
45°	3923.5	3903.2	3900.5	3573.4	3260.5	3138.5	2747.7	2436.5	2452.4	2515.2	2524.9
47.5°	3818.3	3775.9	3852.8	3668.9	3577.0	3584.9	3249.9	2844.9	2829.0	2889.2	2883.8
50°	3432.9	3418.7	3566.4	3595.5	3733.4	3916.4	3800.6	3300.2	3254.3	3259.6	3223.3
52.5°	2835.2	2869.7	3064.2	3267.5	3660.1	4095.9	4293.1	3781.2	3741.4	3629.1	3559.3
55°	2279.1	2320.7	2531.1	2689.4	3287.9	4083.5	4652.9	4262.1	4284.2	3996.0	3866.1
57.5°	1668.2	1722.2	2001.5	2135.0	2693.8	3785.6	4835.9	4730.7	4784.6	4358.5	4157.8
60°	1066.2	1086.5	1368.5	1633.8	1960.0	3084.5	4818.2	5178.0	5242.6	4749.2	4429.2
62.5°	665.7	687.8	779.8	1150.2	1386.2	2090.8	4476.9	5475.1	5534.3	5029.5	4655.5
63°	606.5	632.1	726.7	1051.2	1263.3	1891.9	4363.8	5505.1	5557.3	5076.3	4689.1
65°	451.8	462.4	511.9	709.0	927.4	1188.2	3573.4	5399.9	5465.3	5116.1	4702.4
67.5°	394.3	398.7	416.4	467.7	663.1	691.3	2082.0	4837.6	4878.3	4965.8	4535.3
70°	360.7	363.4	395.2	398.7	519.8	490.7	763.8	3800.6	3954.5	4660.8	4244.4
72.5°	313.0	316.5	353.6	388.1	403.1	389.9	412.9	2566.5	2752.1	3981.9	3925.3
75°	261.7	265.2	297.9	343.9	351.0	309.4	338.6	1344.7	1476.4	2919.2	3433.7
77.5°	214.8	217.5	246.7	278.5	322.7	237.8	274.9	506.6	627.7	1803.5	2471.9
80°	147.6	154.7	186.5	215.7	246.7	215.7	206.0	290.0	306.8	875.2	1263.3
82.5°	112.3	114.0	145.0	157.4	174.2	213.1	161.8	218.4	230.7	407.6	410.2
85°	77.8	76.0	102.6	109.6	121.1	134.4	135.3	159.1	164.4	235.2	172.4
87.5°	35.4	33.6	55.7	53.9	61.0	66.3	96.4	87.5	89.3	147.6	92.8
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	21.2	91.9	160.9	169.7	172.4
10°	19.4	19.4	14.1	11.5	13.3	145.0	187.4	193.6	197.1	198.9	198.9
12.5°	241.4	269.6	252.0	135.3	145.9	180.4	200.7	205.1	210.4	255.5	264.3
15°	293.5	296.2	298.8	277.6	384.6	283.8	236.9	358.0	364.2	366.9	366.0
17.5°	445.6	453.5	419.1	373.1	408.4	422.6	344.8	377.5	383.7	389.0	389.0
20°	578.2	579.1	542.8	580.8	496.8	514.5	449.1	426.1	547.2	552.5	551.7
22.5°	712.6	723.2	598.5	619.7	653.3	545.5	567.6	505.7	532.2	532.2	531.3
25°	882.3	878.8	820.4	717.0	686.0	645.4	582.6	527.8	600.3	634.8	634.8
27.5°	1045.9	995.5	854.9	824.8	786.8	677.2	575.5	605.6	588.8	593.2	592.3
30°	1235.1	1220.0	1092.7	982.2	808.0	657.8	602.1	548.1	577.3	611.8	608.2
32.5°	1330.5	1291.6	1139.6	1186.4	846.9	633.9	524.3	515.4	524.3	536.6	538.4
35°	1456.1	1392.4	1243.0	1251.8	853.1	556.1	466.8	461.5	510.1	533.1	535.7
37.5°	1617.9	1541.8	1416.3	1281.0	801.0	490.7	413.7	442.9	459.7	470.3	466.8
40°	1825.6	1735.4	1641.7	1289.0	713.4	423.5	384.6	408.4	424.4	427.0	427.0
42.5°	2080.2	1955.6	1873.4	1284.6	599.4	388.1	365.1	383.7	404.0	402.3	400.5
45°	2380.8	2230.5	2062.5	1254.5	488.0	368.7	355.4	367.8	382.8	376.6	374.0
47.5°	2705.3	2543.5	2229.6	1193.5	415.5	354.5	350.1	350.1	366.9	365.1	364.2
50°	3034.1	2867.9	2404.7	1099.8	375.7	342.1	332.4	343.9	363.4	359.8	358.0
52.5°	3359.5	3210.1	2540.8	969.8	351.0	331.5	325.3	340.4	358.0	354.5	353.6
55°	3659.2	3562.8	2686.7	866.4	325.3	313.0	325.3	337.7	351.9	348.3	348.3
57.5°	3968.6	3940.3	2868.8	784.2	304.1	298.8	321.8	333.3	344.8	343.0	343.0
60°	4278.9	4356.7	3035.9	696.6	287.3	282.0	314.7	328.0	337.7	336.8	336.8
62.5°	4578.6	4722.7	3167.6	594.1	271.4	268.8	305.9	320.9	328.9	330.6	330.6
63°	4627.2	4769.6	3187.1	564.0	267.9	267.0	304.1	319.2	326.2	328.9	328.9
65°	4717.4	4883.6	3218.0	464.1	252.8	257.3	294.4	313.0	317.4	323.6	321.8
67.5°	4636.1	4774.9	3126.1	358.0	234.3	243.1	279.4	299.7	304.1	313.0	308.5
70°	4454.0	4445.1	2814.9	291.7	220.1	228.1	262.6	284.7	286.4	295.3	286.4
72.5°	4110.9	3799.7	2218.1	247.5	206.0	213.1	244.9	266.1	267.0	270.5	261.7
75°	3436.4	2955.5	1333.2	213.9	188.3	193.6	225.4	243.1	245.8	240.5	236.0
77.5°	2346.3	1858.3	607.4	187.4	172.4	173.3	201.6	217.5	218.4	206.9	206.9
80°	1129.0	870.8	252.8	168.0	156.5	152.9	176.8	189.2	188.3	175.0	169.7
82.5°	357.2	318.3	188.3	146.8	139.7	131.7	153.8	159.1	160.0	160.9	129.1
85°	142.3	147.6	145.9	121.1	117.6	99.9	122.9	130.0	127.3	107.0	91.1
87.5°	74.3	91.1	89.3	81.3	84.0	63.7	84.9	81.3	83.1	55.7	43.3
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)