

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: P239617

Luminaire Tested: **UTLD-AF24-50-D-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239617
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-AF24-50-D-U-T2U
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 670mA 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: 5666 lumens
Efficiency: N/A
Efficacy: 104.9 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): 54
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



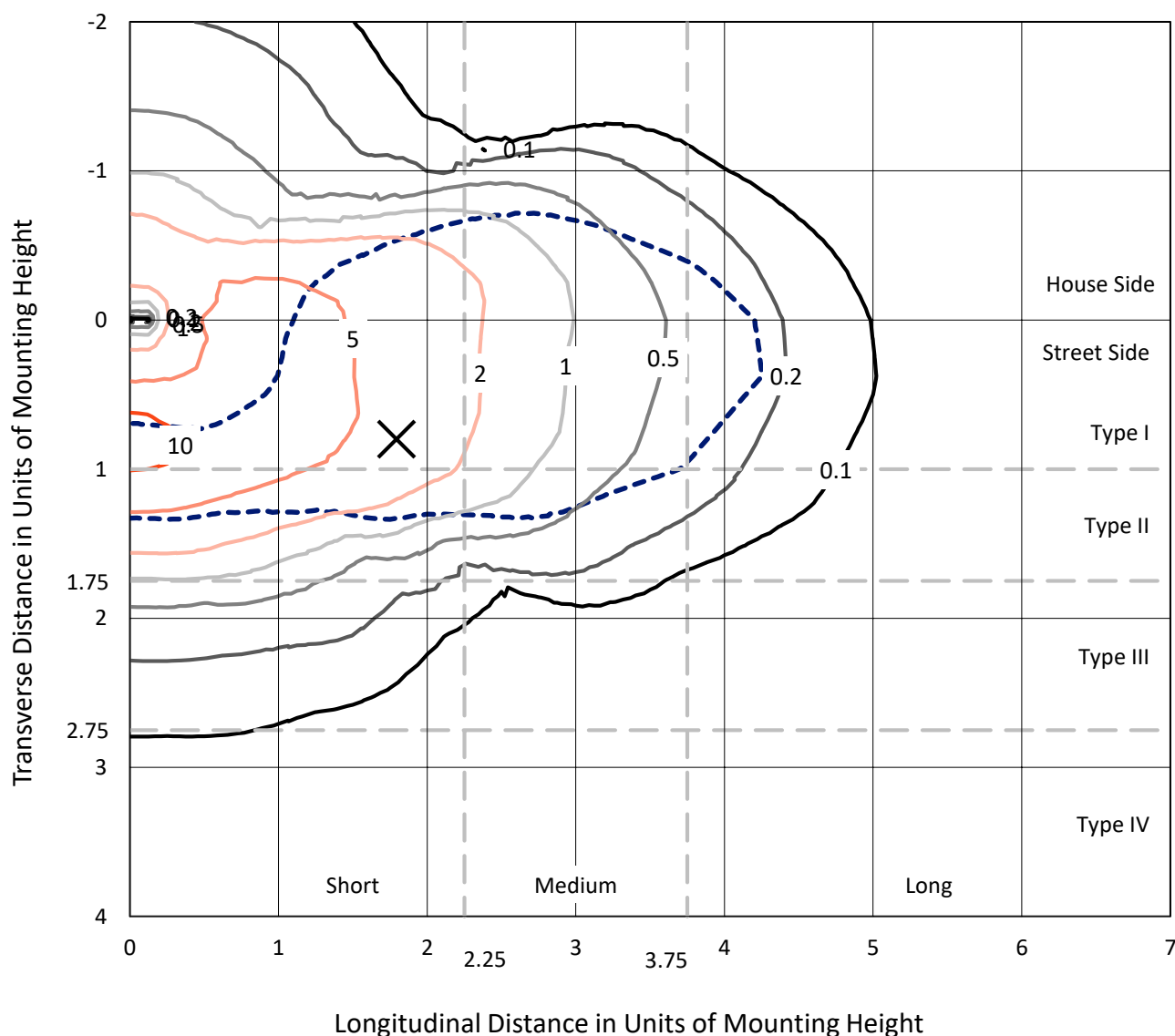
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

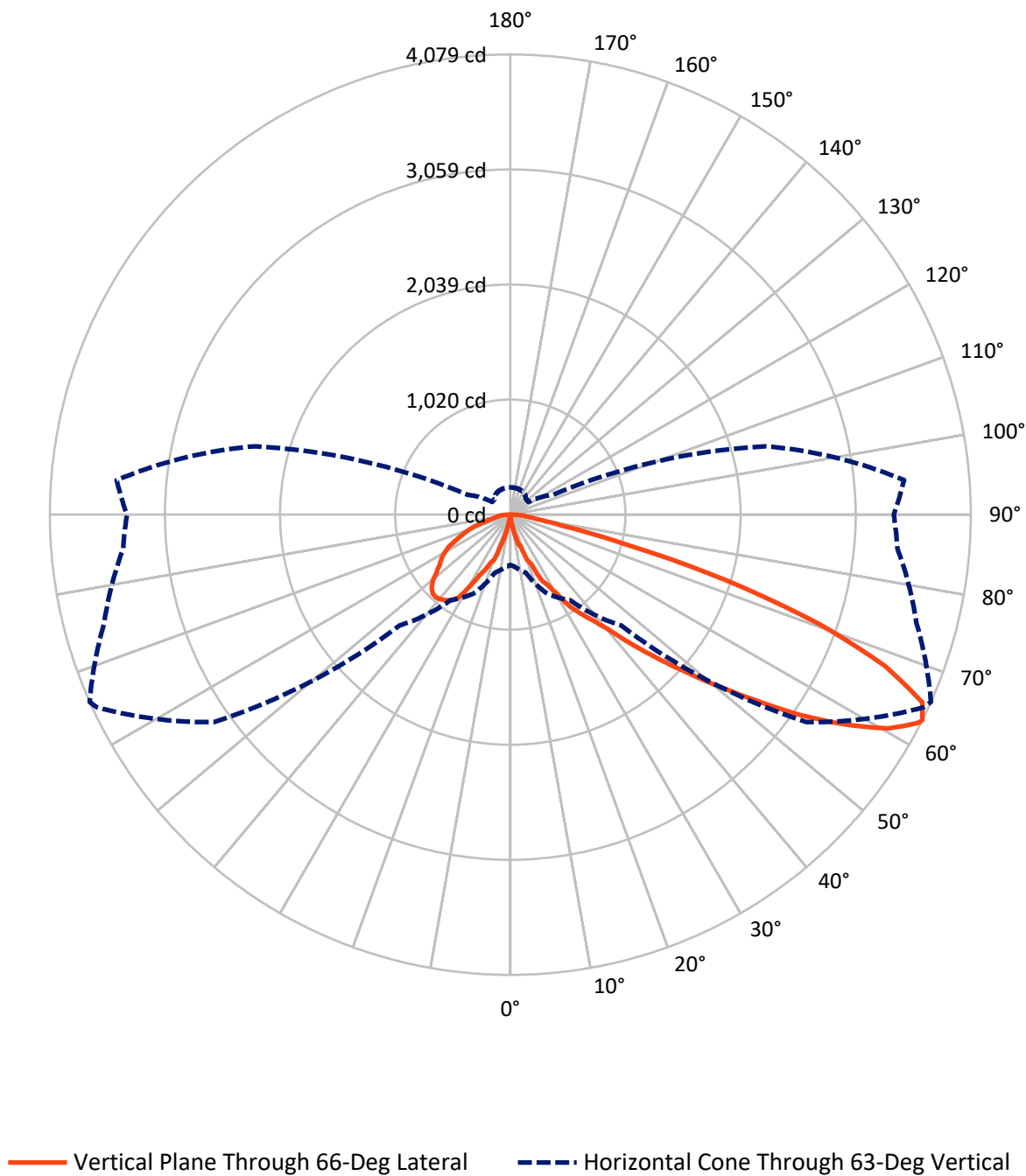


Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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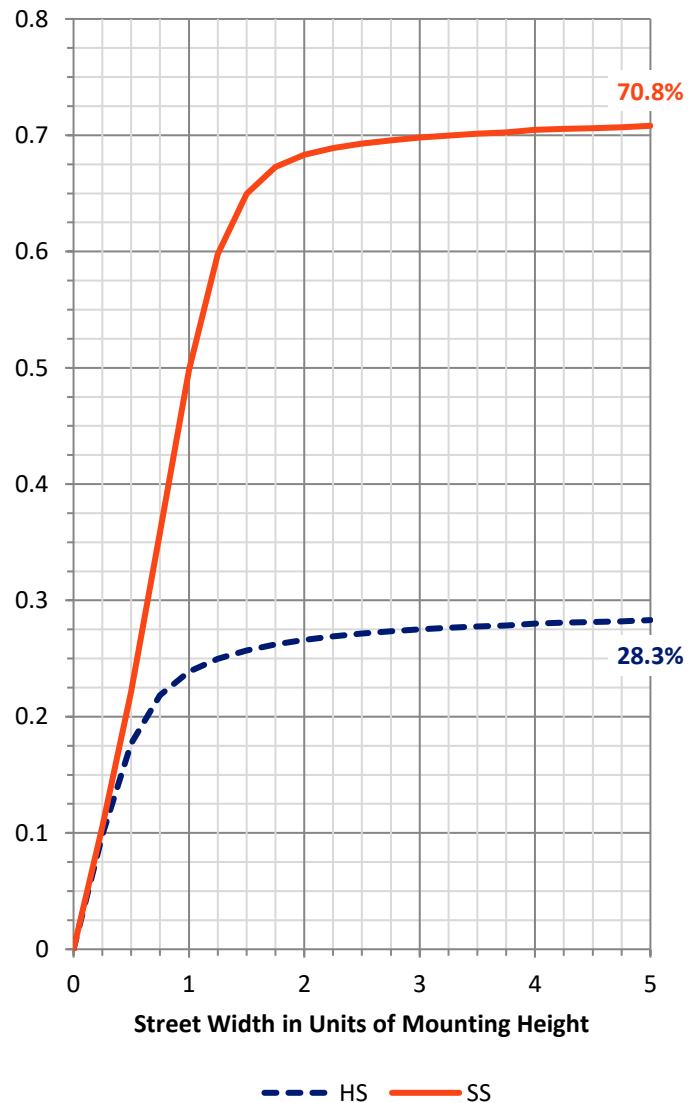
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1631.9	0.0	1631.9
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	4034.1	0.0	4034.1
	% Fixture	71.2	0.0	71.2
Total	Lumens	5666.0	0.0	5666.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.1
10°-20°	74.8	1.3
20°-30°	275.1	4.9
30°-40°	626.0	11.0
40°-50°	1127.2	19.9
50°-60°	1471.6	26.0
60°-70°	1307.5	23.1
70°-80°	664.2	11.7
80°-90°	114.1	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°	5666.0	100.0
0°-180°	5666.0	100.0

Coefficient of Utilization



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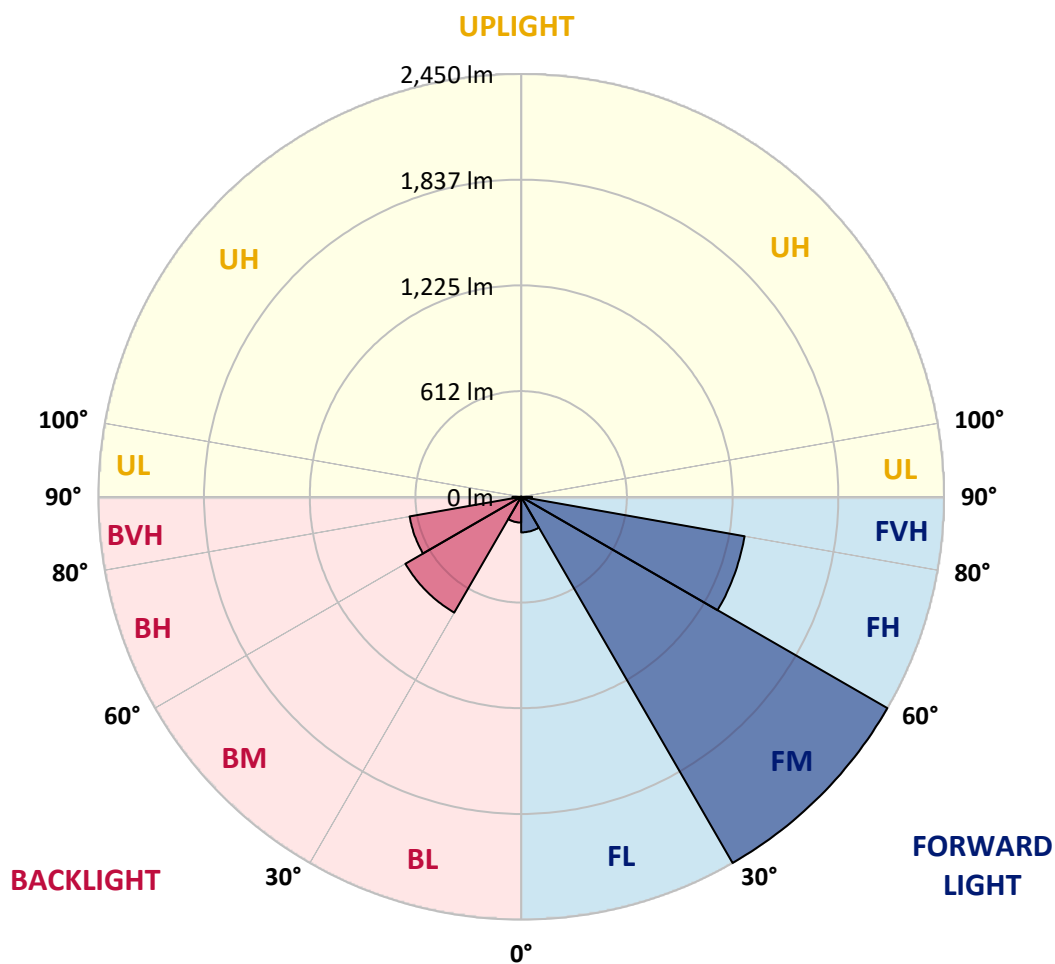
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	206.1	3.6			
FM	(30°-60°)	2450.0	43.2			
FH	(60°-80°)	1314.8	23.2			G1/1800
FVH	(80°-90°)	63.3	1.1			G1/100
BL	(0°-30°)	149.4	2.6	B1/500		
BM	(30°-60°)	774.9	13.7	B1/1000		
BH	(60°-80°)	656.8	11.6	B2/1000		G2/1000
BVH	(80°-90°)	50.8	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°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
2.5°	14.3	14.3	12.3	9.7	7.8	6.5	4.5	3.2	3.2	1.9	1.3
5°	131.1	131.1	130.4	129.8	128.5	123.3	22.7	7.1	6.5	3.2	1.9
7.5°	133.7	133.0	133.0	131.7	131.1	128.5	126.5	49.3	41.5	7.1	3.9
10°	239.4	238.1	236.2	159.6	135.0	131.7	131.1	103.2	102.5	22.1	16.2
12.5°	249.8	250.5	248.5	246.6	241.4	151.2	144.7	186.9	190.1	218.7	170.0
15°	284.8	281.0	266.7	257.6	253.1	237.5	270.6	269.9	271.2	256.3	194.7
17.5°	404.2	402.9	399.7	375.0	278.4	356.9	341.3	290.7	294.6	336.1	336.1
20°	456.1	455.5	443.8	430.2	477.6	384.8	366.6	426.9	430.2	434.7	402.3
22.5°	685.2	684.5	656.6	504.8	536.6	482.7	485.3	486.6	475.0	468.5	503.5
25°	794.8	789.7	774.1	728.7	636.5	643.0	530.8	638.5	643.7	639.8	632.0
27.5°	1121.2	1121.9	992.1	859.7	781.2	723.5	730.0	708.5	707.9	696.2	727.4
30°	1306.8	1297.7	1252.3	1123.8	932.4	855.2	819.5	833.1	812.4	885.7	879.8
32.5°	1744.1	1744.1	1587.1	1304.2	1123.8	1060.2	952.5	956.4	972.0	961.6	976.5
35°	2051.7	2022.5	1867.4	1637.7	1274.4	1191.9	1127.7	1071.3	1077.7	1059.6	1073.9
37.5°	2378.1	2348.9	2177.6	1883.0	1540.4	1393.7	1275.0	1204.9	1188.7	1190.0	1201.0
40°	2631.8	2615.5	2510.4	2185.3	1803.2	1609.2	1447.6	1352.2	1334.7	1366.5	1402.2
42.5°	2808.9	2802.4	2740.1	2453.3	2113.3	1935.5	1694.2	1556.0	1559.2	1576.1	1611.8
45°	2879.6	2864.7	2862.7	2622.7	2393.0	2303.4	2016.6	1788.2	1799.9	1846.0	1853.1
47.5°	2802.4	2771.3	2827.7	2692.7	2625.3	2631.1	2385.2	2088.0	2076.3	2120.5	2116.6
50°	2519.5	2509.1	2617.5	2638.9	2740.1	2874.4	2789.4	2422.2	2388.4	2392.3	2365.7
52.5°	2080.9	2106.2	2248.9	2398.2	2686.3	3006.1	3150.8	2775.2	2746.0	2663.5	2612.3
55°	1672.7	1703.2	1857.7	1973.8	2413.1	2997.1	3414.9	3128.1	3144.3	2932.8	2837.4
57.5°	1224.4	1264.0	1469.0	1567.0	1977.1	2778.4	3549.2	3472.0	3511.6	3198.9	3051.6
60°	782.5	797.4	1004.4	1199.1	1438.5	2263.9	3536.3	3800.3	3847.7	3485.6	3250.8
62.5°	488.6	504.8	572.3	844.2	1017.4	1534.5	3285.8	4018.4	4061.8	3691.3	3416.9
63°	445.1	463.9	533.4	771.5	927.2	1388.5	3202.7	4040.4	4078.7	3725.7	3441.5
65°	331.6	339.4	375.7	520.4	680.6	872.1	2622.7	3963.2	4011.2	3754.9	3451.3
67.5°	289.4	292.6	305.6	343.2	486.6	507.4	1528.1	3550.5	3580.4	3644.6	3328.6
70°	264.7	266.7	290.0	292.6	381.5	360.1	560.6	2789.4	2902.3	3420.8	3115.2
72.5°	229.7	232.3	259.5	284.8	295.9	286.1	303.0	1883.6	2019.9	2922.4	2880.9
75°	192.1	194.7	218.7	252.4	257.6	227.1	248.5	986.9	1083.6	2142.5	2520.2
77.5°	157.7	159.6	181.0	204.4	236.8	174.5	201.8	371.8	460.7	1323.7	1814.2
80°	108.4	113.5	136.9	158.3	181.0	158.3	151.2	212.8	225.2	642.4	927.2
82.5°	82.4	83.7	106.4	115.5	127.8	156.4	118.7	160.3	169.4	299.1	301.1
85°	57.1	55.8	75.3	80.5	88.9	98.6	99.3	116.8	120.7	172.6	126.5
87.5°	26.0	24.7	40.9	39.6	44.8	48.7	70.7	64.2	65.5	108.4	68.1
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°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
2.5°	1.3	1.3	1.3	1.9	1.9	1.9	1.3	0.6	0.6	0.6	0.6
5°	1.3	1.3	1.3	1.9	1.9	2.6	3.2	3.2	3.9	4.5	4.5
7.5°	3.2	2.6	2.6	2.6	3.9	5.8	15.6	67.5	118.1	124.6	126.5
10°	14.3	14.3	10.4	8.4	9.7	106.4	137.6	142.1	144.7	146.0	146.0
12.5°	177.1	197.9	184.9	99.3	107.1	132.4	147.3	150.5	154.4	187.5	194.0
15°	215.4	217.4	219.3	203.7	282.3	208.3	173.9	262.8	267.3	269.3	268.6
17.5°	327.0	332.9	307.6	273.8	299.8	310.2	253.1	277.1	281.6	285.5	285.5
20°	424.4	425.0	398.4	426.3	364.7	377.6	329.6	312.7	401.6	405.5	404.9
22.5°	523.0	530.8	439.3	454.8	479.5	400.3	416.6	371.1	390.6	390.6	390.0
25°	647.6	645.0	602.1	526.2	503.5	473.7	427.6	387.4	440.6	465.9	465.9
27.5°	767.6	730.6	627.4	605.4	577.5	497.0	422.4	444.5	432.1	435.4	434.7
30°	906.4	895.4	802.0	720.9	593.1	482.7	441.9	402.3	423.7	449.0	446.4
32.5°	976.5	948.0	836.4	870.8	621.6	465.2	384.8	378.3	384.8	393.9	395.2
35°	1068.7	1021.9	912.3	918.8	626.1	408.1	342.6	338.7	374.4	391.3	393.2
37.5°	1187.4	1131.6	1039.5	940.2	587.9	360.1	303.7	325.1	337.4	345.2	342.6
40°	1339.9	1273.7	1204.9	946.0	523.6	310.8	282.3	299.8	311.5	313.4	313.4
42.5°	1526.8	1435.3	1374.9	942.8	439.9	284.8	268.0	281.6	296.5	295.2	293.9
45°	1747.4	1637.1	1513.8	920.7	358.2	270.6	260.8	269.9	281.0	276.4	274.5
47.5°	1985.5	1866.8	1636.4	876.0	305.0	260.2	256.9	256.9	269.3	268.0	267.3
50°	2226.9	2104.9	1764.9	807.2	275.8	251.1	244.0	252.4	266.7	264.1	262.8
52.5°	2465.6	2356.0	1864.8	711.8	257.6	243.3	238.8	249.8	262.8	260.2	259.5
55°	2685.6	2614.9	1971.9	635.9	238.8	229.7	238.8	247.9	258.2	255.6	255.6
57.5°	2912.7	2891.9	2105.5	575.5	223.2	219.3	236.2	244.6	253.1	251.8	251.8
60°	3140.5	3197.6	2228.2	511.3	210.9	207.0	231.0	240.7	247.9	247.2	247.2
62.5°	3360.4	3466.2	2324.8	436.0	199.2	197.3	224.5	235.5	241.4	242.7	242.7
63°	3396.1	3500.6	2339.1	414.0	196.6	196.0	223.2	234.2	239.4	241.4	241.4
65°	3462.3	3584.3	2361.8	340.6	185.6	188.8	216.1	229.7	232.9	237.5	236.2
67.5°	3402.6	3504.5	2294.4	262.8	171.9	178.4	205.0	220.0	223.2	229.7	226.5
70°	3268.9	3262.4	2066.0	214.1	161.6	167.4	192.7	208.9	210.2	216.7	210.2
72.5°	3017.2	2788.8	1628.0	181.7	151.2	156.4	179.7	195.3	196.0	198.5	192.1
75°	2522.1	2169.1	978.5	157.0	138.2	142.1	165.5	178.4	180.4	176.5	173.2
77.5°	1722.1	1363.9	445.8	137.6	126.5	127.2	147.9	159.6	160.3	151.8	151.8
80°	828.6	639.1	185.6	123.3	114.8	112.3	129.8	138.9	138.2	128.5	124.6
82.5°	262.1	233.6	138.2	107.7	102.5	96.7	112.9	116.8	117.4	118.1	94.7
85°	104.5	108.4	107.1	88.9	86.3	73.3	90.2	95.4	93.4	78.5	66.8
87.5°	54.5	66.8	65.5	59.7	61.6	46.7	62.3	59.7	61.0	40.9	31.8
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)