

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: P239347

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-42-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-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
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: 3842 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

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



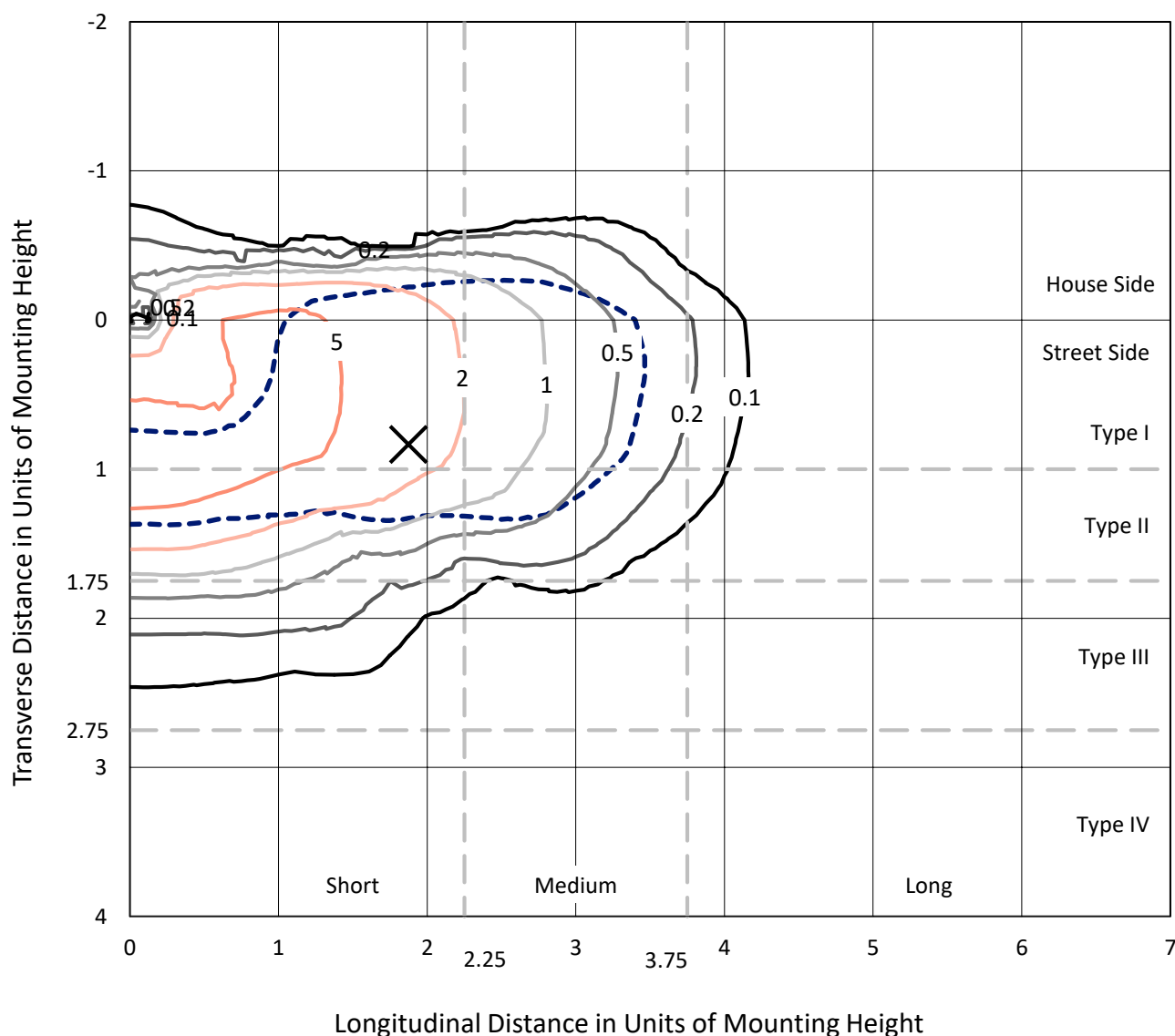
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

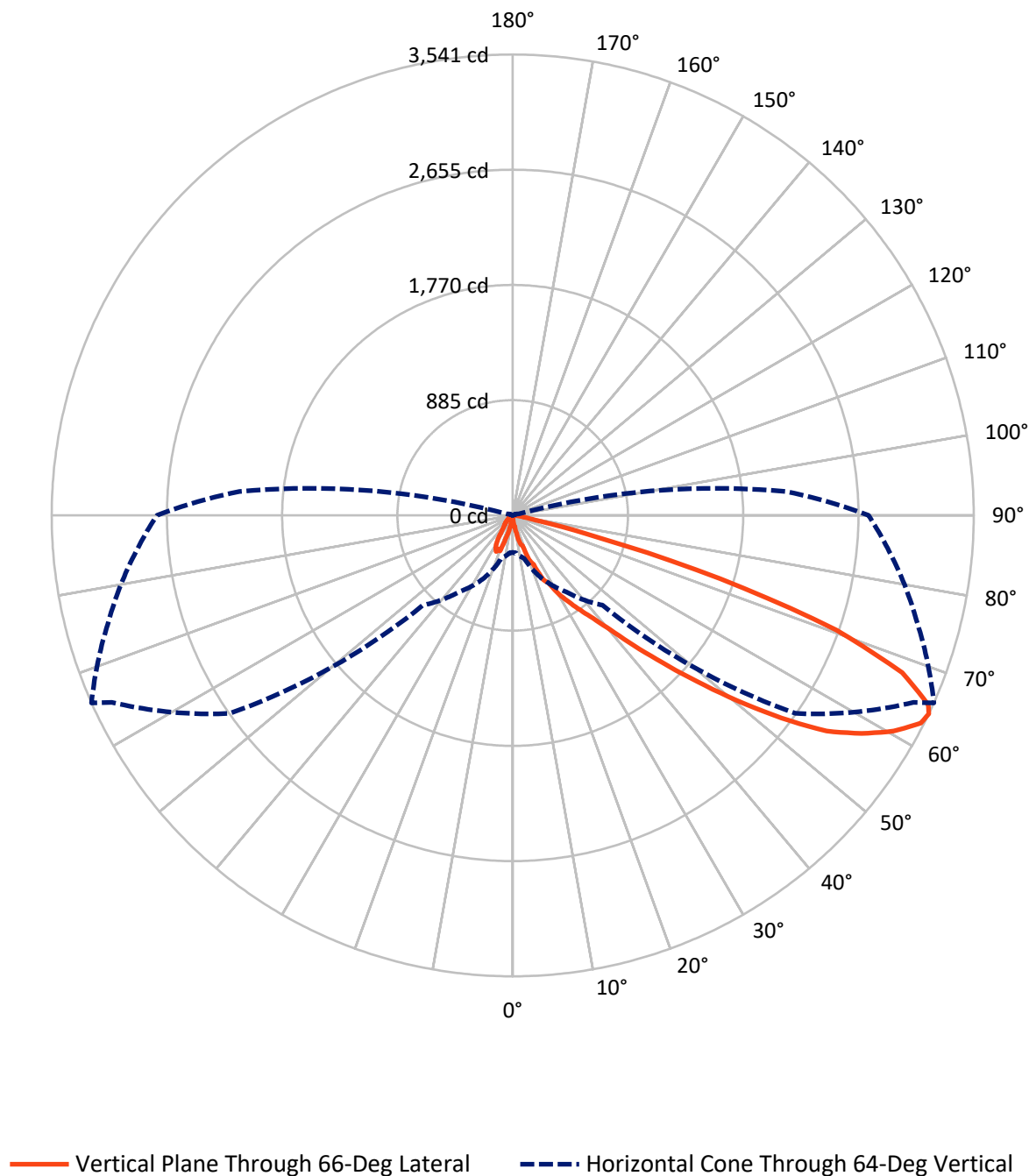


Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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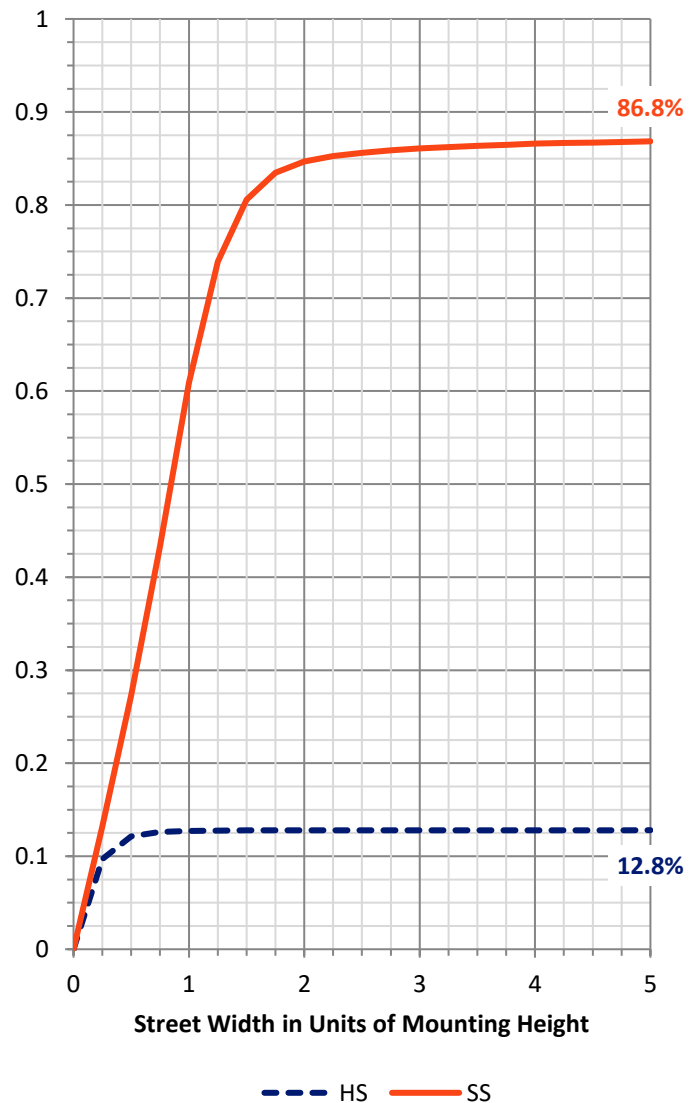
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	497.8	0.0	497.8
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	3344.1	0.0	3344.1
	% Fixture	87.0	0.0	87.0
Total	Lumens	3842.0	0.0	3842.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.1
10°-20°	50.2	1.3
20°-30°	155.9	4.1
30°-40°	391.3	10.2
40°-50°	848.8	22.1
50°-60°	1149.3	29.9
60°-70°	903.4	23.5
70°-80°	319.5	8.3
80°-90°	19.2	0.5
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°	3842.0	100.0
0°-180°	3842.0	100.0

Coefficient of Utilization



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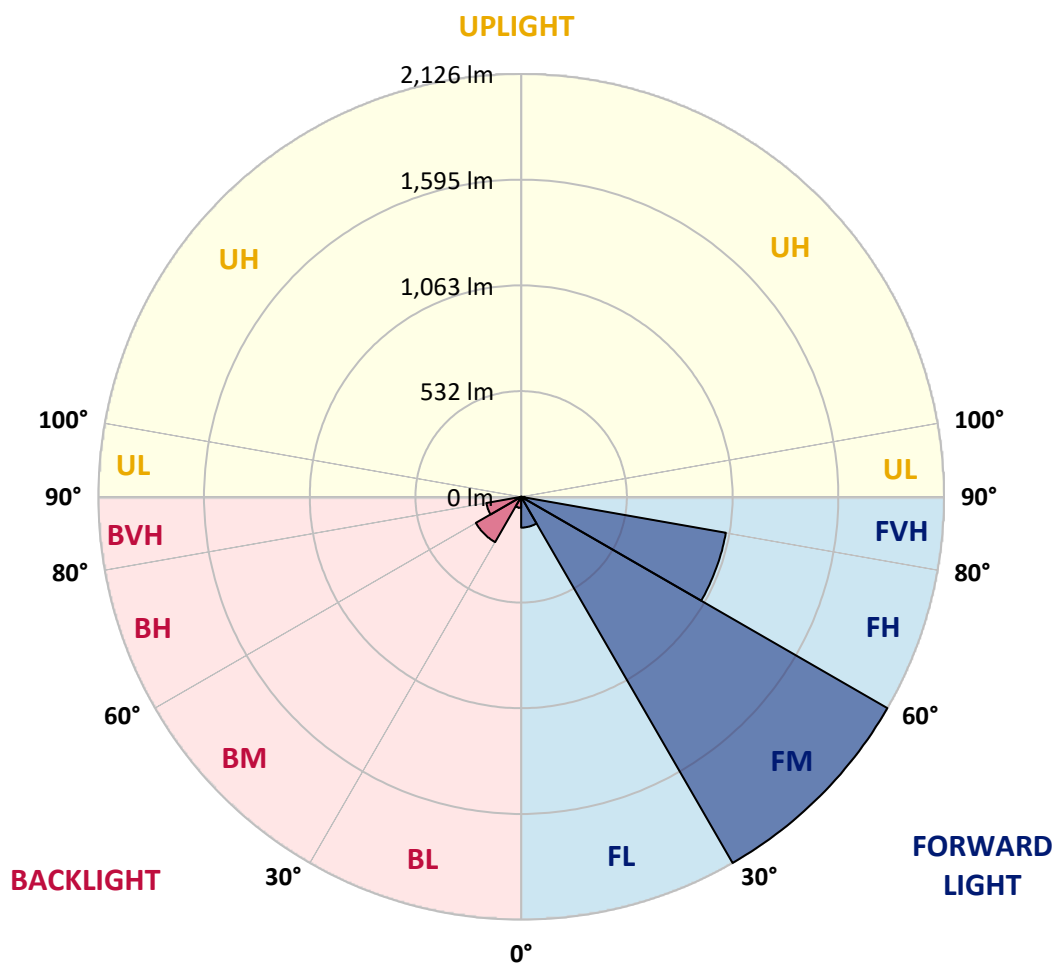
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	154.8	4.0			
FM	(30°-60°)	2126.5	55.3			
FH	(60°-80°)	1045.0	27.2			G1/1800
FVH	(80°-90°)	17.9	0.5			G1/100
BL	(0°-30°)	55.6	1.4	B0/110		
BM	(30°-60°)	263.0	6.8	B1/1000		
BH	(60°-80°)	177.9	4.6	B1/500		G1/500
BVH	(80°-90°)	1.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	14.3	13.6	11.7	9.1	3.2	1.9	0.0	0.0	0.0	0.0	0.0
5°	115.5	116.1	116.8	116.8	116.8	116.1	44.1	3.2	2.6	0.0	0.0
7.5°	112.2	112.9	112.9	112.9	113.5	113.5	113.5	109.6	90.2	1.9	0.0
10°	212.2	212.8	214.1	155.7	116.1	111.6	111.6	90.8	87.6	11.7	4.5
12.5°	208.9	209.6	210.9	211.5	212.8	141.4	118.1	162.2	173.2	225.1	147.3
15°	241.4	252.4	227.7	213.5	213.5	200.5	237.5	229.7	230.3	234.2	151.2
17.5°	316.0	315.3	317.9	320.5	234.2	293.9	308.2	240.7	243.3	273.1	277.7
20°	327.0	328.3	325.1	330.2	387.3	308.8	308.2	367.2	364.6	365.3	328.9
22.5°	445.1	446.4	450.9	374.4	404.9	382.1	402.3	410.0	410.0	384.1	387.3
25°	478.8	476.2	480.8	473.6	476.9	462.0	434.7	523.6	548.2	524.2	521.6
27.5°	665.0	659.2	645.6	528.1	519.0	490.5	572.9	587.2	587.8	583.3	604.7
30°	787.7	789.6	752.0	688.4	577.4	565.1	633.2	685.8	704.0	763.6	745.5
32.5°	1175.0	1151.0	1043.9	817.5	713.0	665.0	704.6	805.8	793.5	833.1	833.1
35°	1536.4	1494.2	1331.4	1101.7	834.4	740.9	837.0	868.1	892.1	925.9	937.5
37.5°	1897.1	1880.2	1710.3	1398.2	1075.1	866.2	944.7	1004.4	1001.8	1045.9	1068.6
40°	2217.6	2196.2	2084.0	1768.7	1361.9	1055.6	1096.5	1155.5	1151.0	1234.7	1265.8
42.5°	2456.4	2442.1	2368.8	2049.6	1716.1	1377.4	1323.6	1348.9	1365.1	1454.6	1486.4
45°	2586.8	2561.5	2540.1	2272.8	2024.3	1763.5	1624.0	1593.5	1612.9	1701.2	1723.2
47.5°	2558.9	2527.8	2558.3	2405.8	2295.5	2100.8	2019.7	1917.9	1903.6	2017.1	1975.6
50°	2340.9	2321.4	2416.2	2405.8	2451.2	2380.5	2467.4	2259.2	2236.4	2300.0	2227.4
52.5°	1954.9	1954.9	2101.5	2197.5	2448.6	2581.0	2858.0	2623.1	2586.2	2574.5	2418.8
55°	1557.8	1568.2	1705.7	1844.6	2235.1	2634.8	3184.4	2957.3	2924.8	2770.4	2562.8
57.5°	1127.0	1138.7	1335.2	1451.4	1832.9	2450.6	3308.9	3173.3	3160.3	2927.4	2695.8
60°	660.5	688.4	896.7	1091.9	1323.6	1973.0	3259.6	3321.9	3363.4	3053.9	2793.1
62.5°	389.3	401.0	473.6	740.3	914.8	1342.4	2989.7	3395.9	3516.5	3161.0	2869.0
64°	284.2	290.0	341.9	535.9	716.3	975.2	2650.4	3395.9	3540.6	3218.7	2889.8
65°	232.3	234.9	271.2	428.9	606.0	746.1	2331.8	3367.3	3508.8	3247.3	2885.3
67.5°	188.8	190.7	199.8	245.2	417.2	410.0	1378.7	3114.9	3226.5	3278.4	2815.2
70°	170.0	171.9	187.5	191.4	308.2	273.1	444.4	2560.2	2635.5	3117.5	2666.0
72.5°	129.1	134.3	162.2	186.2	213.5	204.4	212.8	1578.6	1666.1	2374.0	2274.7
75°	88.2	93.4	120.7	158.3	164.8	153.8	160.3	606.0	678.7	1233.4	1372.2
77.5°	56.4	57.1	75.3	114.8	147.3	105.1	121.3	170.6	198.5	417.8	427.6
80°	37.0	38.3	45.4	73.3	100.6	87.6	74.6	92.1	93.4	123.3	65.5
82.5°	22.7	22.1	29.8	45.4	61.6	74.0	46.1	59.7	62.3	72.7	27.9
85°	9.7	10.4	18.8	29.2	38.3	35.7	28.5	36.3	37.6	48.0	16.2
87.5°	3.9	3.9	11.0	16.2	16.9	16.9	17.5	19.5	19.5	29.8	10.4
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.6	0.6	0.0	0.0	2.6	59.7	85.6	85.6
10°	4.5	3.9	0.0	0.6	0.6	29.8	95.4	95.4	93.4	92.1	91.5
12.5°	146.0	168.0	160.9	69.4	53.9	85.0	90.2	79.8	71.4	67.5	66.2
15°	174.5	173.9	169.3	137.5	192.7	86.3	68.8	83.0	71.4	61.6	61.6
17.5°	290.7	275.7	230.3	186.9	174.5	116.8	69.4	47.4	38.9	36.3	36.3
20°	345.8	339.3	296.5	288.1	159.6	96.0	48.7	32.4	37.0	41.5	41.5
22.5°	425.0	421.7	311.4	274.4	159.0	58.4	38.9	38.9	38.3	36.3	36.3
25°	510.6	513.9	439.2	290.7	108.4	48.7	40.2	33.7	29.8	32.4	33.1
27.5°	622.9	541.1	442.5	268.0	74.0	45.4	34.4	32.4	31.8	30.5	30.5
30°	750.0	732.5	566.4	223.2	56.4	40.9	32.4	28.5	25.3	26.6	26.6
32.5°	837.6	783.8	556.0	168.7	48.7	35.7	27.9	24.0	24.7	25.3	24.7
35°	925.9	864.9	560.6	108.4	43.5	29.2	22.7	21.4	20.8	23.4	23.4
37.5°	1051.1	973.9	552.1	68.1	36.3	24.0	19.5	18.8	19.5	20.1	20.1
40°	1204.8	1116.6	532.0	51.3	29.8	19.5	16.2	15.6	16.9	16.9	16.9
42.5°	1389.1	1272.3	479.5	44.8	25.3	15.6	13.0	13.0	14.3	14.3	14.3
45°	1609.0	1462.4	412.6	39.6	21.4	13.0	10.4	11.0	11.7	11.7	11.7
47.5°	1851.1	1671.3	327.6	34.4	18.2	10.4	8.4	8.4	9.1	9.1	9.1
50°	2074.9	1843.9	258.2	30.5	14.9	8.4	6.5	6.5	6.5	6.5	6.5
52.5°	2239.7	1957.5	188.2	26.6	13.0	6.5	4.5	4.5	4.5	4.5	4.5
55°	2374.0	2032.7	136.2	22.7	10.4	5.2	3.2	2.6	3.2	2.6	2.6
57.5°	2492.1	2080.1	98.0	18.8	8.4	3.2	1.3	1.3	1.3	1.3	1.3
60°	2599.1	2105.4	72.7	15.6	7.1	1.9	1.3	0.6	0.6	0.0	0.0
62.5°	2696.5	2114.5	55.1	12.3	5.8	1.3	0.6	0.0	0.0	0.0	0.0
64°	2732.1	2106.0	47.4	11.0	5.2	0.6	0.6	0.0	0.0	0.0	0.0
65°	2743.2	2085.9	42.8	9.7	4.5	0.6	0.6	0.0	0.0	0.0	0.0
67.5°	2709.4	1994.4	31.8	7.8	3.9	0.6	0.6	0.0	0.0	0.0	0.0
70°	2577.7	1821.9	23.4	6.5	2.6	0.0	0.6	0.0	0.0	0.0	0.0
72.5°	2108.0	1375.5	16.9	5.2	2.6	0.0	0.6	0.0	0.0	0.0	0.0
75°	1265.8	580.0	12.3	3.9	2.6	0.0	1.3	0.0	0.0	0.0	0.0
77.5°	382.1	186.9	9.1	3.2	3.2	0.0	1.9	0.6	0.0	0.0	0.0
80°	51.3	27.9	5.2	2.6	3.2	0.0	2.6	0.6	0.0	0.0	0.0
82.5°	18.8	9.1	3.2	2.6	3.2	0.0	2.6	1.9	0.6	0.6	0.0
85°	7.1	5.2	2.6	1.9	3.9	0.0	3.2	1.9	0.6	0.6	0.0
87.5°	3.2	2.6	1.9	1.9	3.9	0.0	3.2	2.6	0.6	0.6	0.0
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)