

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: P239338

Luminaire Tested: **UTLD-AF24-50-D-U-T2U-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239338
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-7030-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 3401 lumens
Efficiency: N/A
Efficacy: 63.0 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

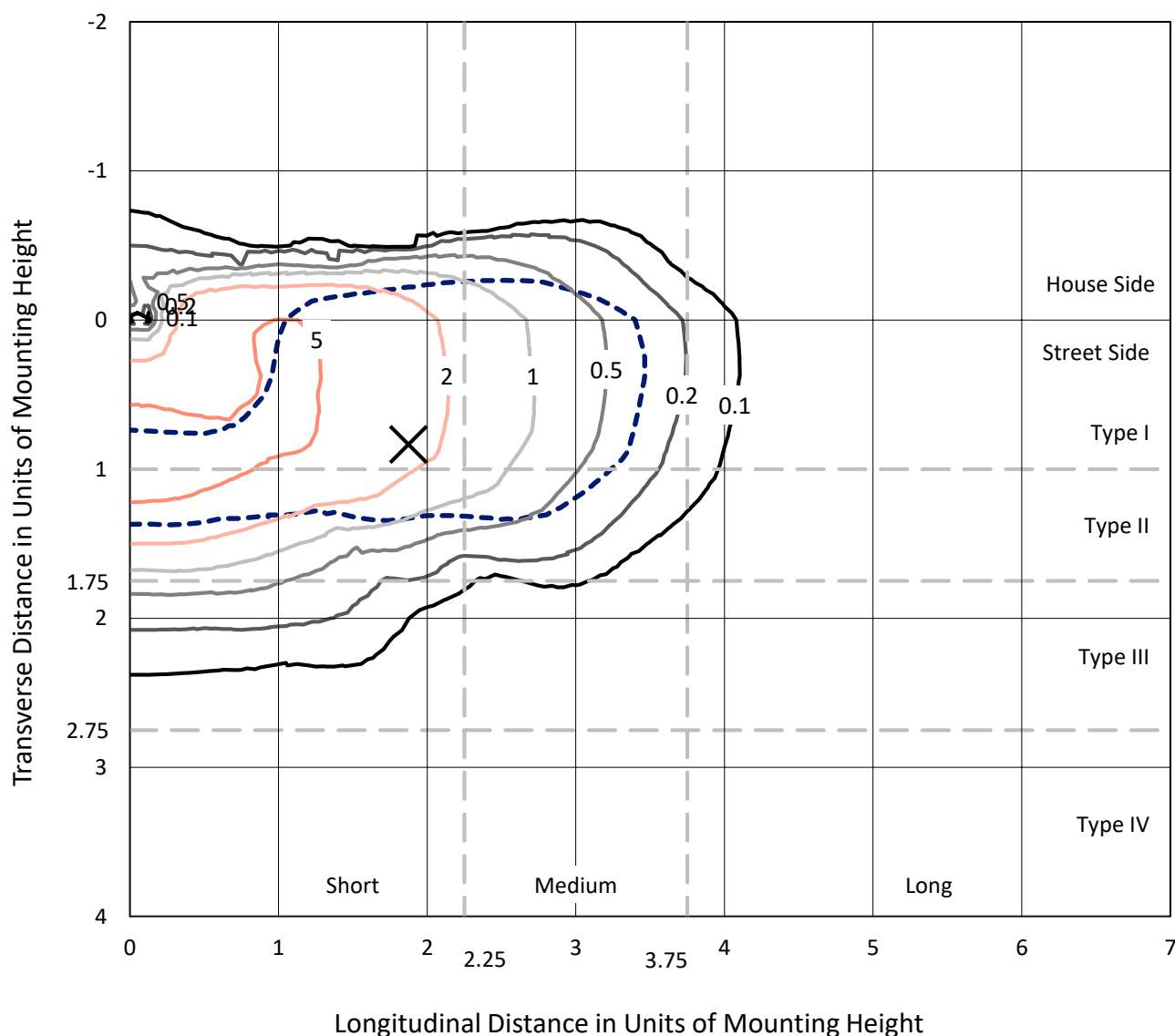


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

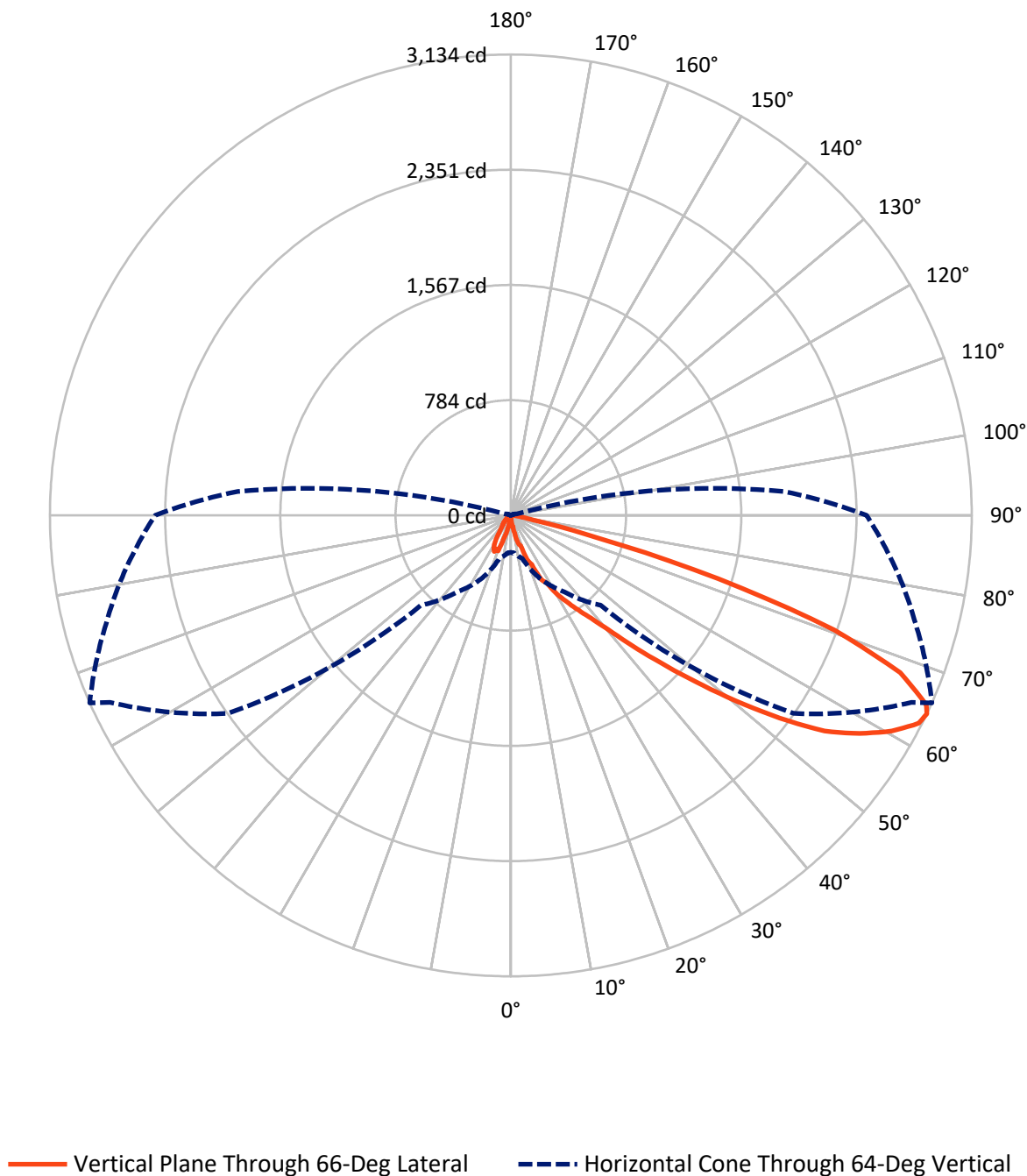


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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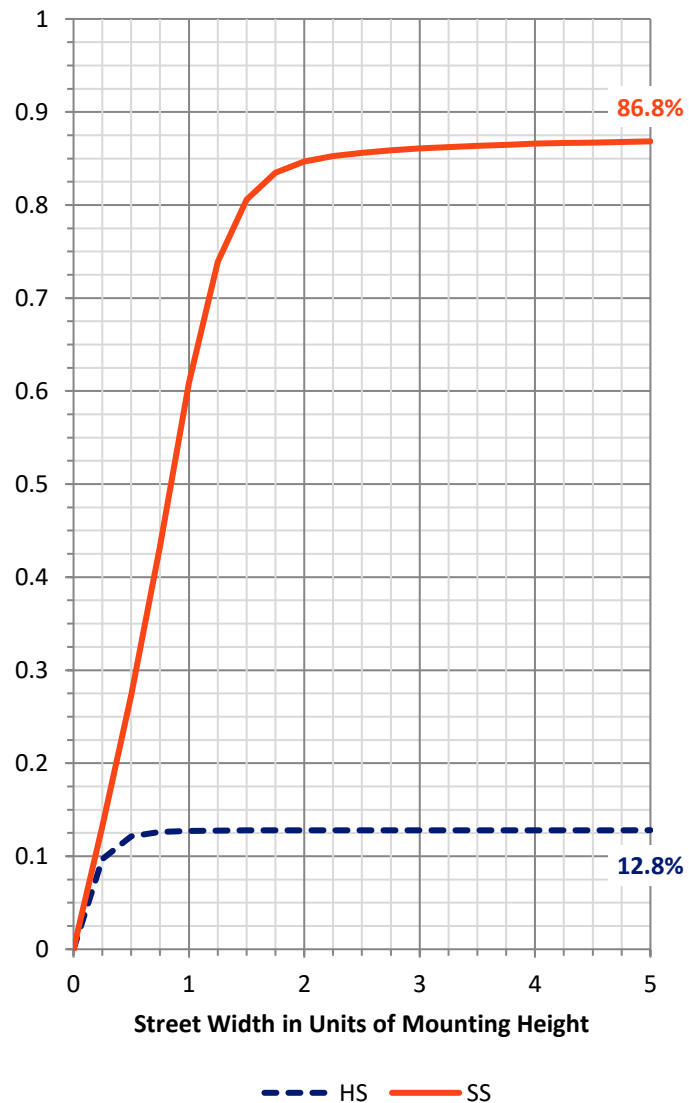
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	440.7	0.0	440.7
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	2960.3	0.0	2960.3
	% Fixture	87.0	0.0	87.0
Total	Lumens	3401.0	0.0	3401.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.1
10°-20°	44.4	1.3
20°-30°	138.0	4.1
30°-40°	346.4	10.2
40°-50°	751.4	22.1
50°-60°	1017.4	29.9
60°-70°	799.7	23.5
70°-80°	282.8	8.3
80°-90°	17.0	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°	3401.0	100.0
0°-180°	3401.0	100.0

Coefficient of Utilization



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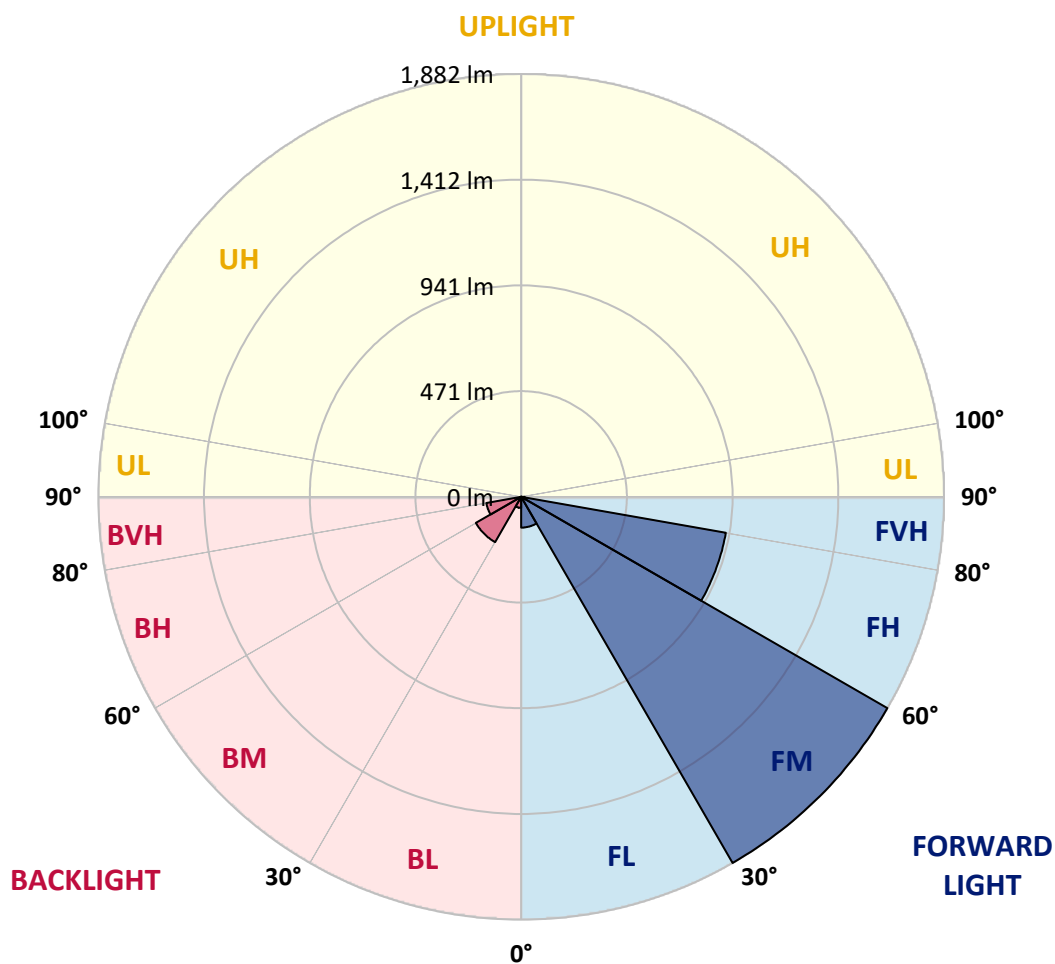
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	137.0	4.0			
FM	(30°-60°)	1882.4	55.3			
FH	(60°-80°)	925.1	27.2			G1/1800
FVH	(80°-90°)	15.8	0.5			G1/100
BL	(0°-30°)	49.2	1.4	B0/110		
BM	(30°-60°)	232.8	6.8	B1/1000		
BH	(60°-80°)	157.5	4.6	B1/500		G1/500
BVH	(80°-90°)	1.2	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°	12.6	12.1	10.3	8.0	2.9	1.7	0.0	0.0	0.0	0.0	0.0
5°	102.2	102.8	103.4	103.4	103.4	102.8	39.1	2.9	2.3	0.0	0.0
7.5°	99.4	99.9	99.9	99.9	100.5	100.5	100.5	97.1	79.8	1.7	0.0
10°	187.8	188.4	189.5	137.8	102.8	98.8	98.8	80.4	77.5	10.3	4.0
12.5°	184.9	185.5	186.7	187.2	188.4	125.2	104.5	143.6	153.3	199.3	130.4
15°	213.7	223.4	201.6	189.0	189.0	177.5	210.2	203.3	203.9	207.3	133.8
17.5°	279.7	279.1	281.4	283.7	207.3	260.2	272.8	213.1	215.4	241.8	245.8
20°	289.5	290.6	287.7	292.3	342.9	273.4	272.8	325.1	322.8	323.4	291.2
22.5°	394.0	395.1	399.2	331.4	358.4	338.3	356.1	363.0	363.0	340.0	342.9
25°	423.9	421.6	425.6	419.3	422.1	408.9	384.8	463.5	485.3	464.1	461.8
27.5°	588.7	583.5	571.5	467.5	459.5	434.2	507.1	519.8	520.3	516.3	535.3
30°	697.2	699.0	665.7	609.4	511.2	500.2	560.6	607.1	623.2	676.0	659.9
32.5°	1040.1	1018.9	924.1	723.7	631.2	588.7	623.7	713.3	702.4	737.4	737.4
35°	1360.0	1322.7	1178.5	975.2	738.6	655.9	740.9	768.5	789.7	819.6	829.9
37.5°	1679.4	1664.4	1514.0	1237.7	951.7	766.7	836.2	889.1	886.8	925.8	945.9
40°	1963.1	1944.1	1844.8	1565.6	1205.5	934.4	970.6	1022.9	1018.9	1093.0	1120.5
42.5°	2174.4	2161.8	2096.9	1814.3	1519.1	1219.3	1171.6	1194.0	1208.4	1287.7	1315.8
45°	2289.9	2267.5	2248.5	2011.9	1791.9	1561.0	1437.6	1410.6	1427.8	1505.9	1525.4
47.5°	2265.2	2237.6	2264.6	2129.6	2032.0	1859.7	1787.9	1697.7	1685.1	1785.6	1748.9
50°	2072.2	2055.0	2138.8	2129.6	2169.8	2107.2	2184.2	1999.8	1979.7	2036.0	1971.7
52.5°	1730.5	1730.5	1860.3	1945.3	2167.5	2284.7	2530.0	2322.0	2289.3	2279.0	2141.1
55°	1379.0	1388.2	1509.9	1632.8	1978.6	2332.4	2818.8	2617.8	2589.1	2452.4	2268.6
57.5°	997.6	1008.0	1182.0	1284.8	1622.5	2169.3	2929.1	2809.1	2797.6	2591.4	2386.4
60°	584.7	609.4	793.7	966.6	1171.6	1746.6	2885.5	2940.6	2977.4	2703.4	2472.5
62.5°	344.6	354.9	419.3	655.3	809.8	1188.3	2646.5	3006.1	3112.9	2798.2	2539.7
64°	251.6	256.7	302.7	474.4	634.1	863.2	2346.2	3006.1	3134.2	2849.3	2558.1
65°	205.6	207.9	240.1	379.6	536.4	660.5	2064.2	2980.8	3106.0	2874.6	2554.1
67.5°	167.1	168.9	176.9	217.1	369.3	363.0	1220.5	2757.4	2856.2	2902.1	2492.0
70°	150.5	152.2	166.0	169.4	272.8	241.8	393.4	2266.3	2333.0	2759.7	2359.9
72.5°	114.3	118.9	143.6	164.8	189.0	180.9	188.4	1397.4	1474.9	2101.5	2013.6
75°	78.1	82.7	106.8	140.1	145.9	136.1	141.9	536.4	600.8	1091.8	1214.7
77.5°	50.0	50.5	66.6	101.7	130.4	93.0	107.4	151.1	175.7	369.9	378.5
80°	32.7	33.9	40.2	64.9	89.0	77.5	66.0	81.6	82.7	109.1	58.0
82.5°	20.1	19.5	26.4	40.2	54.6	65.5	40.8	52.8	55.1	64.3	24.7
85°	8.6	9.2	16.7	25.8	33.9	31.6	25.3	32.2	33.3	42.5	14.4
87.5°	3.4	3.4	9.8	14.4	14.9	14.9	15.5	17.2	17.2	26.4	9.2
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	2.3	52.8	75.8	75.8
10°	4.0	3.4	0.0	0.6	0.6	26.4	84.4	84.4	82.7	81.6	81.0
12.5°	129.2	148.8	142.4	61.5	47.7	75.2	79.8	70.6	63.2	59.7	58.6
15°	154.5	153.9	149.9	121.8	170.6	76.4	60.9	73.5	63.2	54.6	54.6
17.5°	257.3	244.1	203.9	165.4	154.5	103.4	61.5	41.9	34.5	32.2	32.2
20°	306.1	300.4	262.5	255.0	141.3	85.0	43.1	28.7	32.7	36.8	36.8
22.5°	376.2	373.3	275.7	242.9	140.7	51.7	34.5	34.5	33.9	32.2	32.2
25°	452.0	454.9	388.8	257.3	95.9	43.1	35.6	29.9	26.4	28.7	29.3
27.5°	551.4	479.0	391.7	237.2	65.5	40.2	30.4	28.7	28.1	27.0	27.0
30°	663.9	648.4	501.4	197.6	50.0	36.2	28.7	25.3	22.4	23.5	23.5
32.5°	741.5	693.8	492.2	149.3	43.1	31.6	24.7	21.3	21.8	22.4	21.8
35°	819.6	765.6	496.2	95.9	38.5	25.8	20.1	19.0	18.4	20.7	20.7
37.5°	930.4	862.1	488.8	60.3	32.2	21.3	17.2	16.7	17.2	17.8	17.8
40°	1066.5	988.4	471.0	45.4	26.4	17.2	14.4	13.8	14.9	14.9	14.9
42.5°	1229.7	1126.3	424.4	39.6	22.4	13.8	11.5	11.5	12.6	12.6	12.6
45°	1424.4	1294.6	365.3	35.0	19.0	11.5	9.2	9.8	10.3	10.3	10.3
47.5°	1638.6	1479.5	290.0	30.4	16.1	9.2	7.5	7.5	8.0	8.0	8.0
50°	1836.7	1632.3	228.6	27.0	13.2	7.5	5.7	5.7	5.7	5.7	5.7
52.5°	1982.6	1732.8	166.6	23.5	11.5	5.7	4.0	4.0	4.0	4.0	4.0
55°	2101.5	1799.4	120.6	20.1	9.2	4.6	2.9	2.3	2.9	2.3	2.3
57.5°	2206.0	1841.3	86.7	16.7	7.5	2.9	1.1	1.1	1.1	1.1	1.1
60°	2300.8	1863.7	64.3	13.8	6.3	1.7	1.1	0.6	0.6	0.0	0.0
62.5°	2386.9	1871.8	48.8	10.9	5.2	1.1	0.6	0.0	0.0	0.0	0.0
64°	2418.5	1864.3	41.9	9.8	4.6	0.6	0.6	0.0	0.0	0.0	0.0
65°	2428.3	1846.5	37.9	8.6	4.0	0.6	0.6	0.0	0.0	0.0	0.0
67.5°	2398.4	1765.5	28.1	6.9	3.4	0.6	0.6	0.0	0.0	0.0	0.0
70°	2281.8	1612.7	20.7	5.7	2.3	0.0	0.6	0.0	0.0	0.0	0.0
72.5°	1866.0	1217.6	14.9	4.6	2.3	0.0	0.6	0.0	0.0	0.0	0.0
75°	1120.5	513.5	10.9	3.4	2.3	0.0	1.1	0.0	0.0	0.0	0.0
77.5°	338.3	165.4	8.0	2.9	2.9	0.0	1.7	0.6	0.0	0.0	0.0
80°	45.4	24.7	4.6	2.3	2.9	0.0	2.3	0.6	0.0	0.0	0.0
82.5°	16.7	8.0	2.9	2.3	2.9	0.0	2.3	1.7	0.6	0.6	0.0
85°	6.3	4.6	2.3	1.7	3.4	0.0	2.9	1.7	0.6	0.6	0.0
87.5°	2.9	2.3	1.7	1.7	3.4	0.0	2.9	2.3	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)