

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: P239606

Luminaire Tested: **UTLD-AF24-30-D-U-T2U-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239606
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-AF24-30-D-U-T2U-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 375mA 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: 3010 lumens
Efficiency: N/A
Efficacy: 97.1 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: B1 - U0 - G1

Input Watts (W): 31
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



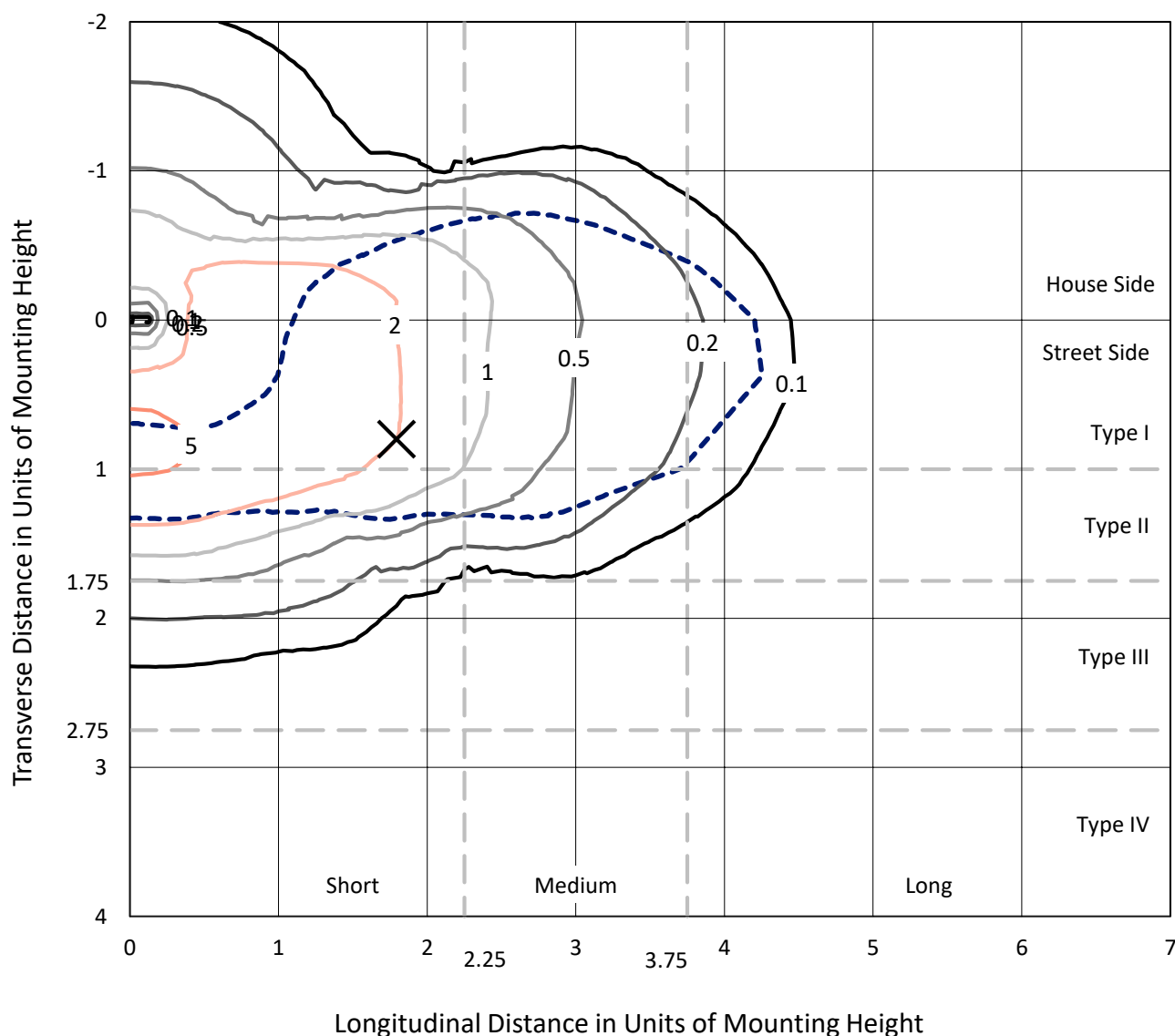
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

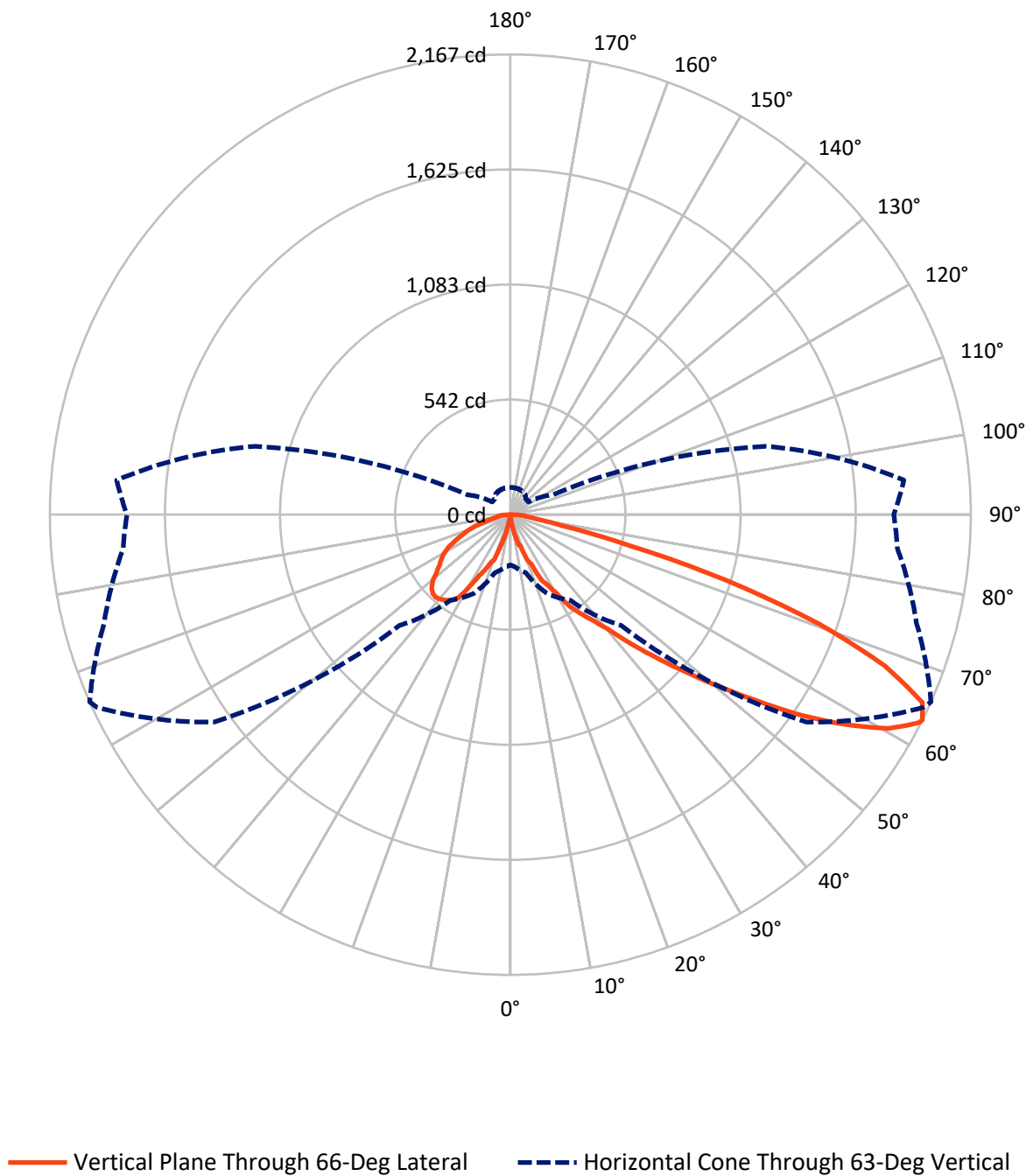


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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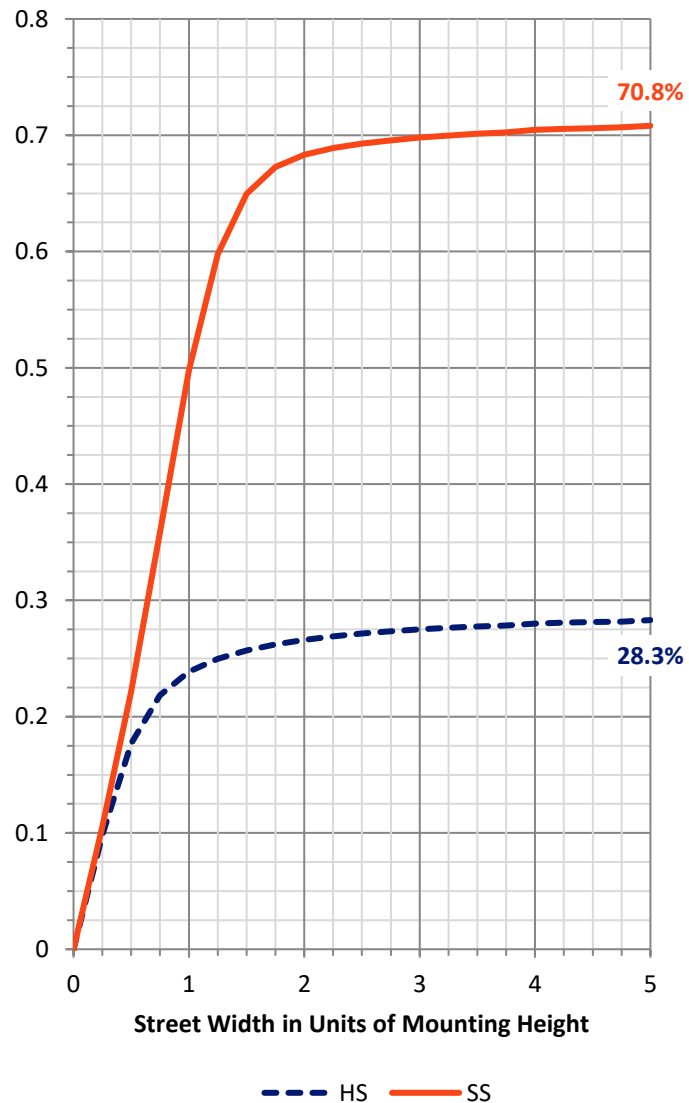
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	866.9	0.0	866.9
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	2143.1	0.0	2143.1
	% Fixture	71.2	0.0	71.2
Total	Lumens	3010.0	0.0	3010.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.1
10°-20°	39.7	1.3
20°-30°	146.1	4.9
30°-40°	332.6	11.0
40°-50°	598.8	19.9
50°-60°	781.8	26.0
60°-70°	694.6	23.1
70°-80°	352.8	11.7
80°-90°	60.6	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°	3010.0	100.0
0°-180°	3010.0	100.0

Coefficient of Utilization



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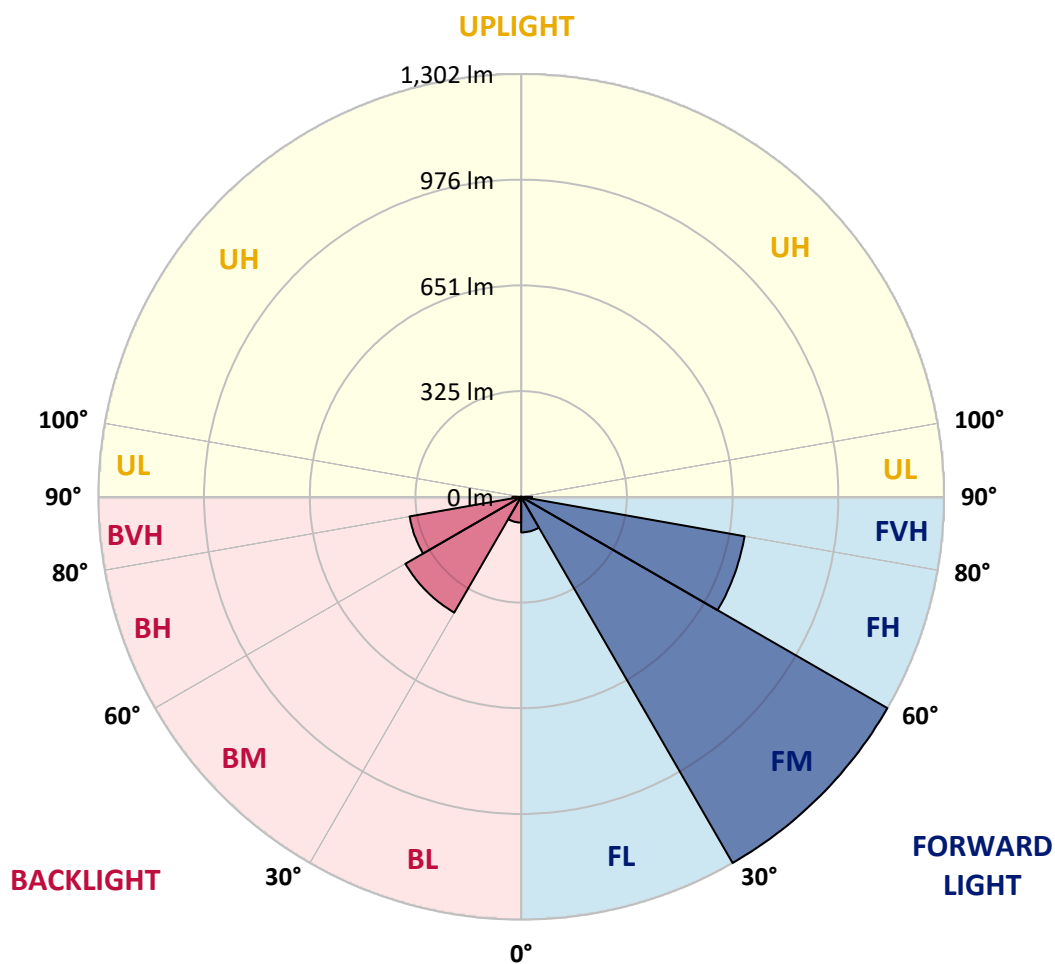
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	109.5	3.6			
FM	(30°-60°)	1301.5	43.2			
FH	(60°-80°)	698.5	23.2			G1/1800
FVH	(80°-90°)	33.6	1.1			G1/100
BL	(0°-30°)	79.3	2.6	B0/110		
BM	(30°-60°)	411.6	13.7	B1/1000		
BH	(60°-80°)	348.9	11.6	B1/500		G1/500
BVH	(80°-90°)	27.0	0.9			G1/100
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°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
2.5°	7.6	7.6	6.5	5.2	4.1	3.4	2.4	1.7	1.7	1.0	0.7
5°	69.6	69.6	69.3	68.9	68.2	65.5	12.1	3.8	3.4	1.7	1.0
7.5°	71.0	70.7	70.7	70.0	69.6	68.2	67.2	26.2	22.1	3.8	2.1
10°	127.2	126.5	125.5	84.8	71.7	70.0	69.6	54.8	54.5	11.7	8.6
12.5°	132.7	133.1	132.0	131.0	128.2	80.3	76.9	99.3	101.0	116.2	90.3
15°	151.3	149.3	141.7	136.8	134.4	126.2	143.7	143.4	144.1	136.2	103.4
17.5°	214.7	214.1	212.3	199.2	147.9	189.6	181.3	154.4	156.5	178.6	178.6
20°	242.3	242.0	235.8	228.5	253.7	204.4	194.8	226.8	228.5	230.9	213.7
22.5°	364.0	363.7	348.8	268.2	285.1	256.5	257.8	258.5	252.3	248.9	267.5
25°	422.3	419.5	411.2	387.1	338.1	341.6	282.0	339.2	341.9	339.9	335.7
27.5°	595.6	596.0	527.0	456.7	415.0	384.3	387.8	376.4	376.1	369.9	386.4
30°	694.2	689.4	665.3	597.0	495.3	454.3	435.4	442.6	431.6	470.5	467.4
32.5°	926.5	926.5	843.1	692.8	597.0	563.2	506.0	508.1	516.4	510.8	518.8
35°	1089.9	1074.4	992.0	870.0	677.0	633.2	599.1	569.1	572.5	562.9	570.5
37.5°	1263.3	1247.8	1156.8	1000.3	818.3	740.4	677.3	640.1	631.5	632.2	638.0
40°	1398.1	1389.5	1333.6	1160.9	957.9	854.8	769.0	718.3	709.0	725.9	744.9
42.5°	1492.2	1488.7	1455.7	1303.3	1122.7	1028.2	900.0	826.6	828.3	837.3	856.2
45°	1529.8	1521.8	1520.8	1393.3	1271.2	1223.7	1071.3	950.0	956.2	980.7	984.5
47.5°	1488.7	1472.2	1502.2	1430.5	1394.6	1397.7	1267.1	1109.2	1103.0	1126.5	1124.4
50°	1338.5	1332.9	1390.5	1401.9	1455.7	1527.0	1481.9	1286.8	1268.8	1270.9	1256.8
52.5°	1105.4	1118.9	1194.7	1274.0	1427.0	1597.0	1673.8	1474.3	1458.8	1415.0	1387.7
55°	888.6	904.8	986.9	1048.6	1281.9	1592.2	1814.1	1661.8	1670.4	1558.0	1507.4
57.5°	650.4	671.5	780.4	832.4	1050.3	1476.0	1885.5	1844.5	1865.5	1699.4	1621.1
60°	415.7	423.6	533.6	637.0	764.2	1202.6	1878.6	2018.9	2044.1	1851.7	1726.9
62.5°	259.6	268.2	304.0	448.5	540.5	815.2	1745.5	2134.7	2157.8	1961.0	1815.2
63°	236.5	246.5	283.3	409.8	492.6	737.7	1701.4	2146.4	2166.8	1979.2	1828.3
65°	176.1	180.3	199.6	276.4	361.6	463.3	1393.3	2105.4	2130.9	1994.8	1833.4
67.5°	153.7	155.5	162.4	182.3	258.5	269.6	811.8	1886.2	1902.0	1936.2	1768.3
70°	140.6	141.7	154.1	155.5	202.7	191.3	297.8	1481.9	1541.8	1817.2	1654.9
72.5°	122.0	123.4	137.9	151.3	157.2	152.0	161.0	1000.7	1073.0	1552.5	1530.5
75°	102.0	103.4	116.2	134.1	136.8	120.6	132.0	524.3	575.6	1138.2	1338.8
77.5°	83.8	84.8	96.2	108.6	125.8	92.7	107.2	197.5	244.7	703.2	963.8
80°	57.6	60.3	72.7	84.1	96.2	84.1	80.3	113.1	119.6	341.2	492.6
82.5°	43.8	44.5	56.5	61.4	67.9	83.1	63.1	85.1	90.0	158.9	159.9
85°	30.3	29.6	40.0	42.7	47.2	52.4	52.7	62.0	64.1	91.7	67.2
87.5°	13.8	13.1	21.7	21.0	23.8	25.9	37.6	34.1	34.8	57.6	36.2
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°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
2.5°	0.7	0.7	0.7	1.0	1.0	1.0	0.7	0.3	0.3	0.3	0.3
5°	0.7	0.7	0.7	1.0	1.0	1.4	1.7	1.7	2.1	2.4	2.4
7.5°	1.7	1.4	1.4	1.4	2.1	3.1	8.3	35.8	62.7	66.2	67.2
10°	7.6	7.6	5.5	4.5	5.2	56.5	73.1	75.5	76.9	77.6	77.6
12.5°	94.1	105.1	98.2	52.7	56.9	70.3	78.2	80.0	82.0	99.6	103.1
15°	114.4	115.5	116.5	108.2	149.9	110.6	92.4	139.6	142.0	143.0	142.7
17.5°	173.7	176.8	163.4	145.5	159.2	164.8	134.4	147.2	149.6	151.7	151.7
20°	225.4	225.8	211.6	226.5	193.7	200.6	175.1	166.1	213.4	215.4	215.1
22.5°	277.8	282.0	233.4	241.6	254.7	212.7	221.3	197.2	207.5	207.5	207.2
25°	344.0	342.6	319.9	279.5	267.5	251.6	227.2	205.8	234.0	247.5	247.5
27.5°	407.8	388.1	333.3	321.6	306.8	264.0	224.4	236.1	229.6	231.3	230.9
30°	481.5	475.7	426.0	383.0	315.1	256.5	234.7	213.7	225.1	238.5	237.2
32.5°	518.8	503.6	444.3	462.6	330.2	247.1	204.4	201.0	204.4	209.2	209.9
35°	567.7	542.9	484.6	488.1	332.6	216.8	182.0	179.9	198.9	207.9	208.9
37.5°	630.8	601.2	552.2	499.5	312.3	191.3	161.3	172.7	179.2	183.4	182.0
40°	711.8	676.6	640.1	502.6	278.2	165.1	149.9	159.2	165.5	166.5	166.5
42.5°	811.1	762.5	730.4	500.8	233.7	151.3	142.4	149.6	157.5	156.8	156.1
45°	928.3	869.7	804.2	489.1	190.3	143.7	138.6	143.4	149.3	146.8	145.8
47.5°	1054.8	991.7	869.3	465.3	162.0	138.2	136.5	136.5	143.0	142.4	142.0
50°	1183.0	1118.2	937.6	428.8	146.5	133.4	129.6	134.1	141.7	140.3	139.6
52.5°	1309.8	1251.6	990.7	378.1	136.8	129.3	126.8	132.7	139.6	138.2	137.9
55°	1426.7	1389.1	1047.5	337.8	126.8	122.0	126.8	131.7	137.2	135.8	135.8
57.5°	1547.3	1536.3	1118.5	305.7	118.6	116.5	125.5	130.0	134.4	133.7	133.7
60°	1668.3	1698.7	1183.7	271.6	112.0	110.0	122.7	127.9	131.7	131.3	131.3
62.5°	1785.2	1841.4	1235.0	231.6	105.8	104.8	119.3	125.1	128.2	128.9	128.9
63°	1804.1	1859.6	1242.6	219.9	104.4	104.1	118.6	124.4	127.2	128.2	128.2
65°	1839.3	1904.1	1254.7	181.0	98.6	100.3	114.8	122.0	123.7	126.2	125.5
67.5°	1807.6	1861.7	1218.8	139.6	91.3	94.8	108.9	116.9	118.6	122.0	120.3
70°	1736.6	1733.1	1097.5	113.7	85.8	88.9	102.4	111.0	111.7	115.1	111.7
72.5°	1602.8	1481.5	864.8	96.5	80.3	83.1	95.5	103.8	104.1	105.5	102.0
75°	1339.8	1152.3	519.8	83.4	73.4	75.5	87.9	94.8	95.8	93.8	92.0
77.5°	914.8	724.6	236.8	73.1	67.2	67.6	78.6	84.8	85.1	80.7	80.7
80°	440.2	339.5	98.6	65.5	61.0	59.6	68.9	73.8	73.4	68.2	66.2
82.5°	139.3	124.1	73.4	57.2	54.5	51.4	60.0	62.0	62.4	62.7	50.3
85°	55.5	57.6	56.9	47.2	45.8	39.0	47.9	50.7	49.6	41.7	35.5
87.5°	29.0	35.5	34.8	31.7	32.7	24.8	33.1	31.7	32.4	21.7	16.9
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)