

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: P266302

Luminaire Tested: **UTLD-AF24-30-D-U-T2U-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-13-U0)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-30-D-U-T2U-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 2954.3 lumens
Efficiency: N/A
Efficacy: 95.3 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



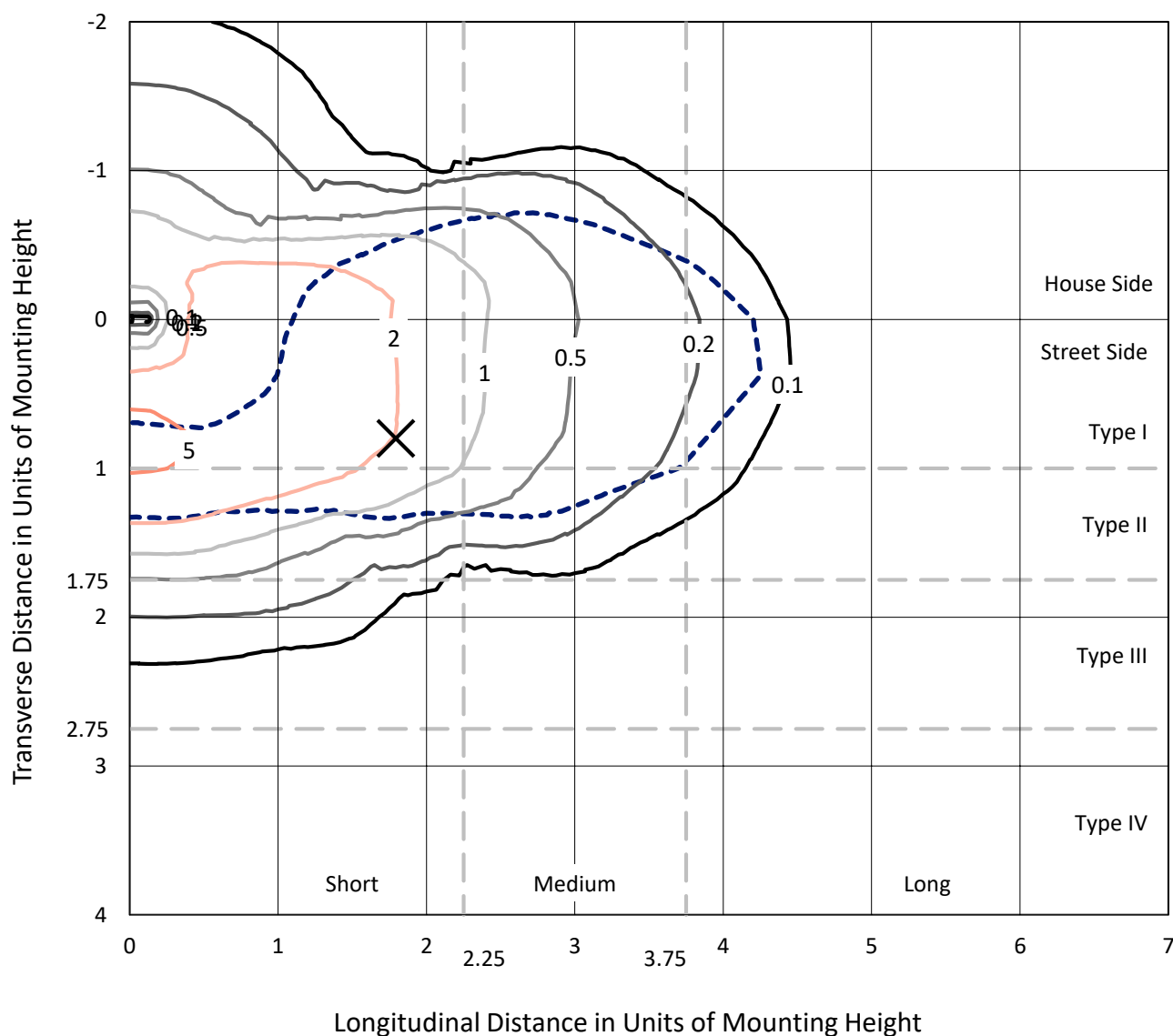
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

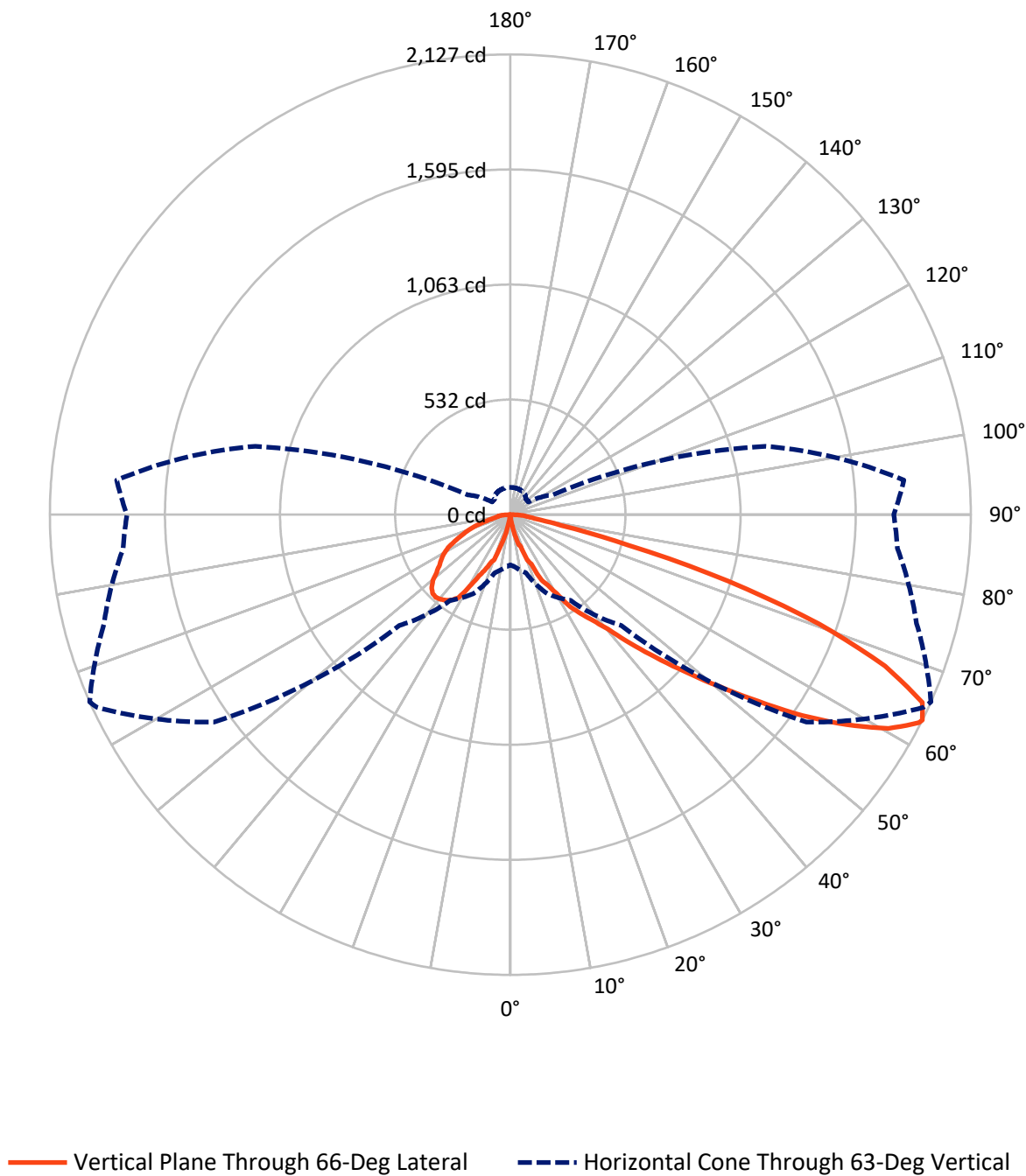


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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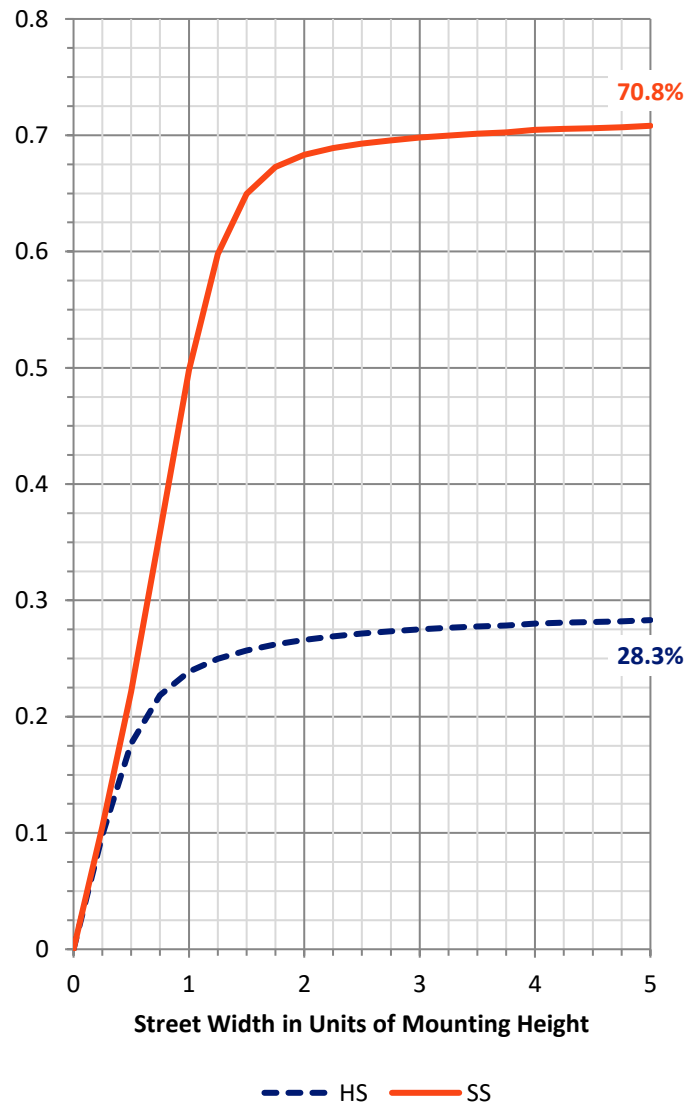
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	850.8	0.0	850.8
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	2103.4	0.0	2103.4
	% Fixture	71.2	0.0	71.2
Total	Lumens	2954.3	0.0	2954.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.1
10°-20°	39.0	1.3
20°-30°	143.4	4.9
30°-40°	326.4	11.0
40°-50°	587.7	19.9
50°-60°	767.3	26.0
60°-70°	681.7	23.1
70°-80°	346.3	11.7
80°-90°	59.5	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°	2954.3	100.0
0°-180°	2954.3	100.0

Coefficient of Utilization



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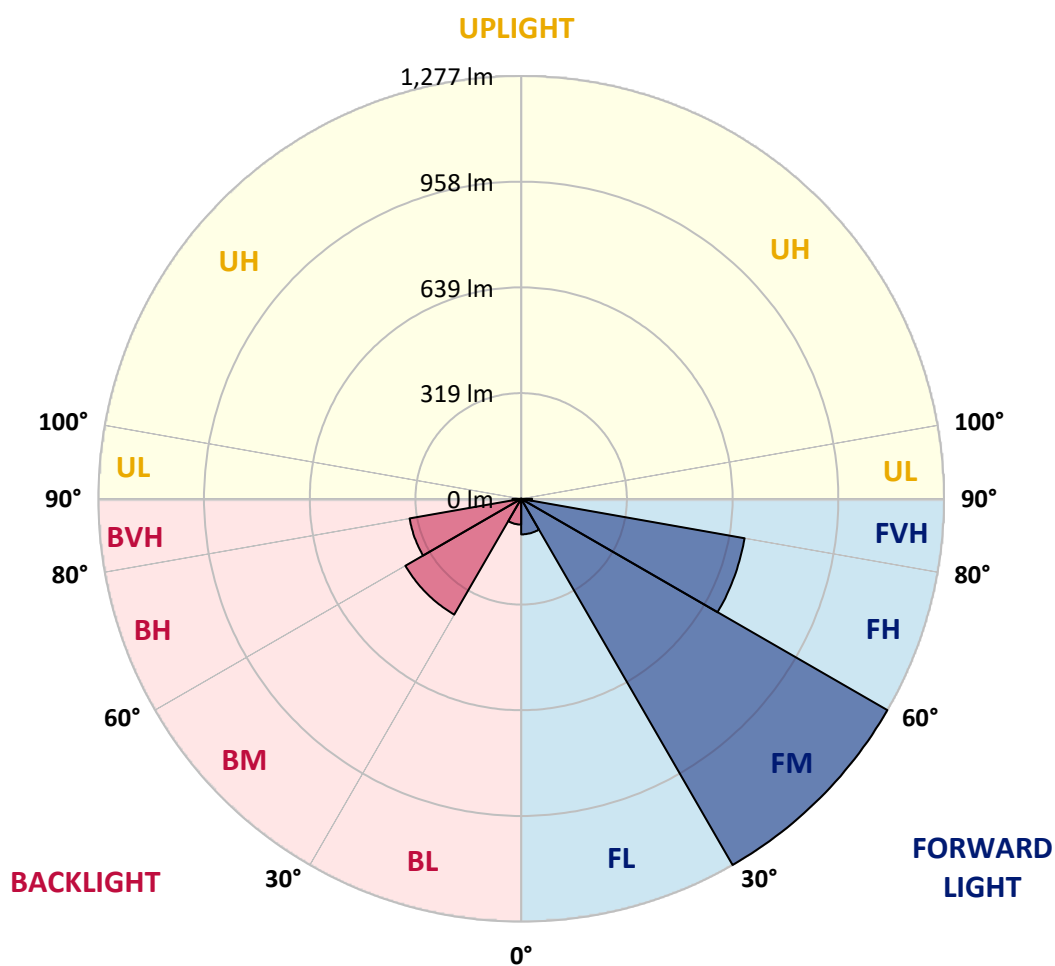
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	107.4	3.6			
FM	(30°-60°)	1277.4	43.2			
FH	(60°-80°)	685.5	23.2			G1/1800
FVH	(80°-90°)	33.0	1.1			G1/100
BL	(0°-30°)	77.9	2.6	B0/110		
BM	(30°-60°)	404.0	13.7	B1/1000		
BH	(60°-80°)	342.5	11.6	B1/500		G1/500
BVH	(80°-90°)	26.5	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°	7.5	7.5	6.4	5.1	4.0	3.4	2.3	1.6	1.6	1.0	0.7
5°	68.4	68.4	68.0	67.6	67.0	64.3	11.9	3.8	3.4	1.6	1.0
7.5°	69.7	69.3	69.3	68.7	68.4	67.0	65.9	25.7	21.6	3.8	2.1
10°	124.9	124.1	123.2	83.3	70.3	68.7	68.4	53.8	53.4	11.5	8.4
12.5°	130.3	130.7	129.5	128.5	125.9	78.8	75.5	97.5	99.2	114.1	88.7
15°	148.5	146.6	139.1	134.2	132.0	123.8	141.0	140.8	141.5	133.7	101.5
17.5°	210.7	210.2	208.3	195.6	145.2	186.0	178.0	151.5	153.6	175.3	175.3
20°	237.8	237.5	231.5	224.2	249.0	200.6	191.2	222.6	224.2	226.6	209.8
22.5°	357.3	356.9	342.3	263.3	279.8	251.7	253.1	253.7	247.7	244.2	262.6
25°	414.5	411.8	403.6	380.0	331.8	335.2	276.8	332.9	335.5	333.6	329.5
27.5°	584.5	584.9	517.2	448.3	407.3	377.2	380.6	369.5	369.2	363.1	379.3
30°	681.4	676.7	653.0	586.0	486.2	445.9	427.4	434.4	423.6	461.8	458.8
32.5°	909.4	909.4	827.5	679.9	586.0	552.7	496.7	498.6	506.9	501.3	509.2
35°	1069.7	1054.5	973.7	853.8	664.4	621.4	588.0	558.6	561.9	552.5	560.0
37.5°	1239.9	1224.7	1135.4	981.8	803.2	726.6	664.7	628.3	619.8	620.5	626.2
40°	1372.3	1363.7	1308.9	1139.4	940.2	838.9	754.8	705.0	695.8	712.4	731.1
42.5°	1464.5	1461.2	1428.8	1279.1	1102.0	1009.2	883.4	811.3	813.0	821.8	840.4
45°	1501.4	1493.6	1492.7	1367.5	1247.7	1201.0	1051.5	932.4	938.5	962.5	966.2
47.5°	1461.2	1445.0	1474.4	1404.1	1368.7	1371.8	1243.7	1088.7	1082.5	1105.6	1103.6
50°	1313.7	1308.2	1364.7	1375.9	1428.8	1498.7	1454.4	1262.9	1245.3	1247.3	1233.6
52.5°	1085.0	1098.2	1172.6	1250.4	1400.5	1567.5	1642.8	1447.0	1431.8	1388.8	1362.0
55°	872.2	888.1	968.6	1029.2	1258.2	1562.7	1780.5	1631.1	1639.4	1529.2	1479.5
57.5°	638.3	659.0	766.0	817.0	1030.8	1448.6	1850.6	1810.4	1830.9	1668.0	1591.1
60°	408.0	415.7	523.7	625.2	750.1	1180.4	1843.9	1981.5	2006.3	1817.5	1694.9
62.5°	254.8	263.3	298.3	440.2	530.4	800.1	1713.2	2095.1	2117.8	1924.7	1781.6
63°	232.1	242.0	278.0	402.3	483.5	724.0	1669.9	2106.6	2126.6	1942.6	1794.5
65°	172.8	177.0	195.9	271.3	354.9	454.7	1367.5	2066.5	2091.4	1957.9	1799.5
67.5°	150.8	152.6	159.4	178.9	253.7	264.6	796.7	1851.2	1866.8	1900.4	1735.5
70°	138.0	139.1	151.3	152.6	199.0	187.7	292.3	1454.4	1513.3	1783.6	1624.2
72.5°	119.7	121.1	135.4	148.5	154.2	149.2	158.0	982.1	1053.2	1523.7	1502.1
75°	100.2	101.5	114.1	131.6	134.2	118.3	129.5	514.5	564.9	1117.1	1314.0
77.5°	82.3	83.3	94.4	106.5	123.4	91.0	105.2	193.9	240.1	690.2	945.9
80°	56.6	59.2	71.3	82.6	94.4	82.6	78.8	111.0	117.4	334.9	483.5
82.5°	42.9	43.7	55.4	60.2	66.7	81.6	62.0	83.5	88.4	155.9	156.9
85°	29.7	29.0	39.3	42.0	46.4	51.5	51.7	60.8	62.9	90.0	65.9
87.5°	13.6	12.8	21.3	20.7	23.4	25.4	36.9	33.4	34.1	56.6	35.6
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	1.3	1.6	1.6	2.1	2.3	2.3
7.5°	1.6	1.3	1.3	1.3	2.1	3.1	8.2	35.2	61.5	64.9	65.9
10°	7.5	7.5	5.4	4.4	5.1	55.4	71.8	74.1	75.5	76.1	76.1
12.5°	92.3	103.1	96.4	51.7	55.9	69.0	76.7	78.5	80.5	97.7	101.1
15°	112.3	113.4	114.4	106.2	147.1	108.5	90.6	137.0	139.3	140.3	140.0
17.5°	170.5	173.6	160.3	142.8	156.2	161.8	132.0	144.4	146.9	148.8	148.8
20°	221.3	221.6	207.7	222.3	190.1	196.9	171.8	163.0	209.5	211.5	211.1
22.5°	272.6	276.8	229.1	237.2	250.0	208.8	217.2	193.6	203.6	203.6	203.3
25°	337.7	336.2	314.0	274.3	262.6	246.9	223.0	201.9	229.6	242.9	242.9
27.5°	400.3	380.9	327.2	315.7	301.1	259.2	220.3	231.8	225.4	227.0	226.6
30°	472.6	466.8	418.2	375.9	309.2	251.7	230.3	209.8	221.0	234.1	232.8
32.5°	509.2	494.2	436.0	454.1	324.1	242.5	200.6	197.3	200.6	205.4	206.0
35°	557.2	532.9	475.7	479.1	326.4	212.8	178.7	176.5	195.2	204.1	205.1
37.5°	619.1	590.0	541.9	490.3	306.5	187.7	158.3	169.5	175.9	180.0	178.7
40°	698.6	664.0	628.3	493.3	273.1	162.1	147.1	156.2	162.5	163.4	163.4
42.5°	796.1	748.4	716.8	491.6	229.3	148.5	139.7	146.9	154.6	153.9	153.3
45°	911.2	853.6	789.3	480.1	186.8	141.0	136.1	140.8	146.6	144.1	143.1
47.5°	1035.2	973.4	853.2	456.7	159.0	135.6	133.9	133.9	140.3	139.7	139.3
50°	1161.1	1097.5	920.3	420.9	143.8	131.0	127.2	131.6	139.1	137.7	137.0
52.5°	1285.6	1228.4	972.3	371.1	134.2	126.9	124.4	130.3	137.0	135.6	135.4
55°	1400.3	1363.4	1028.1	331.6	124.4	119.7	124.4	129.3	134.7	133.3	133.3
57.5°	1518.7	1507.8	1097.8	300.0	116.4	114.4	123.2	127.6	132.0	131.2	131.2
60°	1637.4	1667.3	1161.8	266.5	110.0	107.9	120.5	125.6	129.3	128.8	128.8
62.5°	1752.1	1807.3	1212.2	227.4	103.8	102.9	117.0	122.8	125.9	126.5	126.5
63°	1770.6	1825.1	1219.5	215.9	102.4	102.1	116.4	122.1	124.9	125.9	125.9
65°	1805.2	1868.8	1231.4	177.7	96.7	98.5	112.6	119.7	121.5	123.8	123.2
67.5°	1774.2	1827.2	1196.3	137.0	89.7	93.1	106.9	114.8	116.4	119.7	118.0
70°	1704.4	1701.0	1077.2	111.6	84.3	87.2	100.5	109.0	109.7	112.9	109.7
72.5°	1573.1	1454.0	848.8	94.7	78.8	81.6	93.8	101.9	102.1	103.6	100.2
75°	1314.9	1131.0	510.1	81.8	72.0	74.1	86.2	93.1	94.1	92.0	90.3
77.5°	897.9	711.2	232.4	71.8	65.9	66.4	77.2	83.3	83.5	79.2	79.2
80°	432.1	333.2	96.7	64.3	59.8	58.5	67.6	72.5	72.0	67.0	64.9
82.5°	136.7	121.8	72.0	56.1	53.4	50.5	58.8	60.8	61.3	61.5	49.3
85°	54.4	56.6	55.9	46.4	44.9	38.3	47.0	49.8	48.7	41.0	34.9
87.5°	28.4	34.9	34.1	31.1	32.1	24.3	32.5	31.1	31.8	21.3	16.6
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)