

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: P266336

Luminaire Tested: **UTLD-AF24-40-D-U-T2U-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266336
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-AF24-40-D-U-T2U-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 500mA 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: 3839.6 lumens
Efficiency: N/A
Efficacy: 96.0 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): 40
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



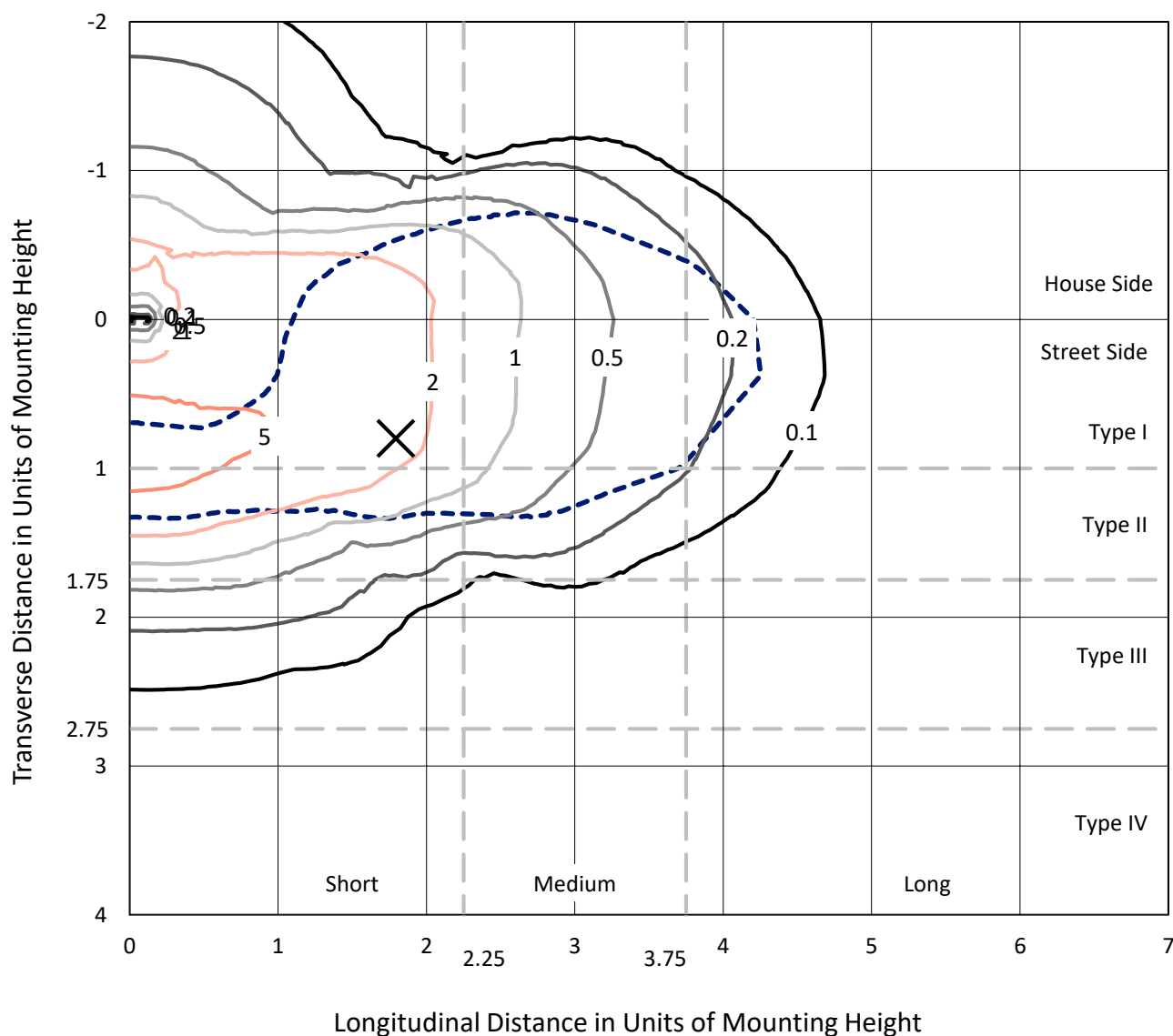
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

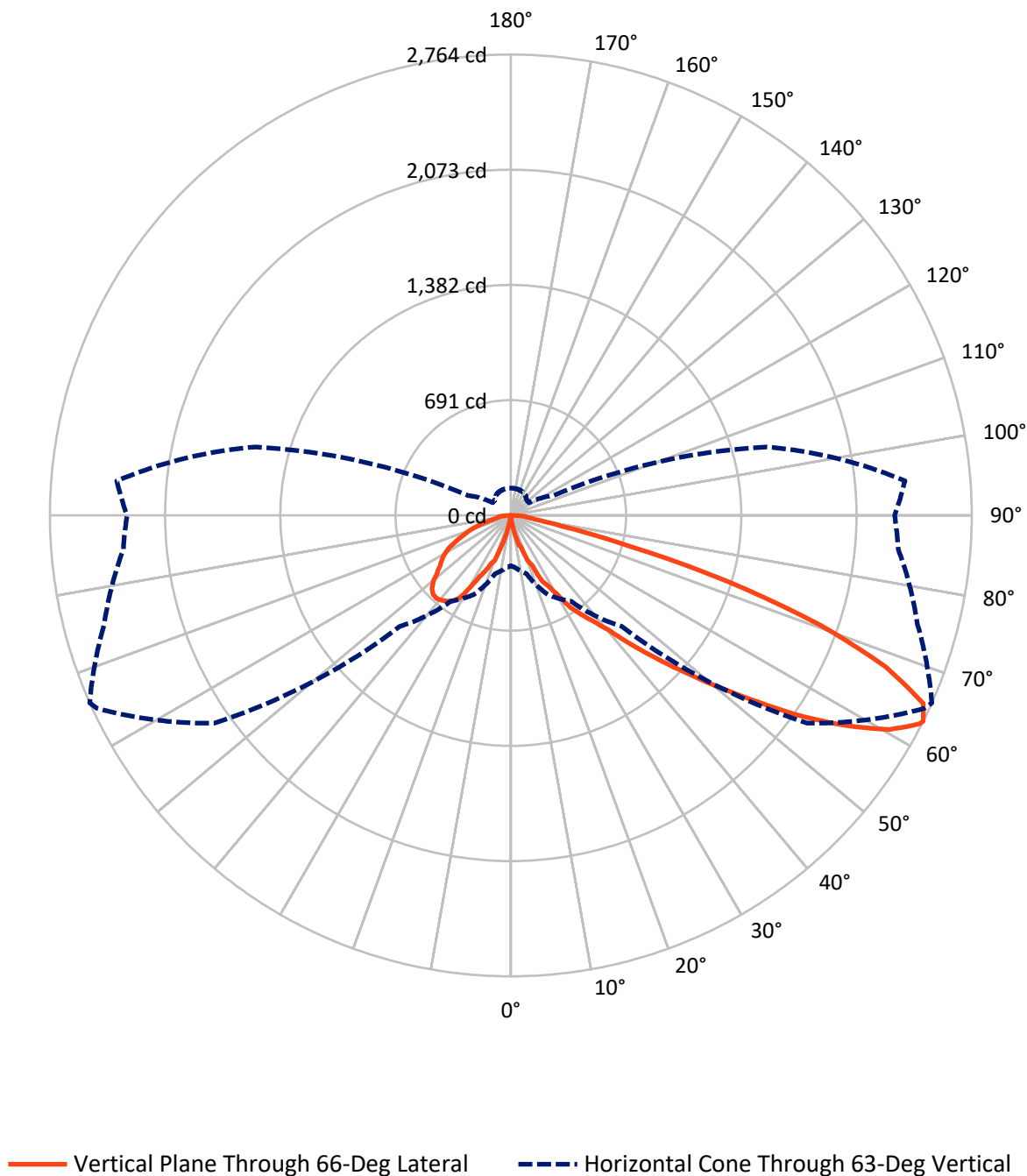


Based on 10 foot mounting height. Maximum calculated value = 8 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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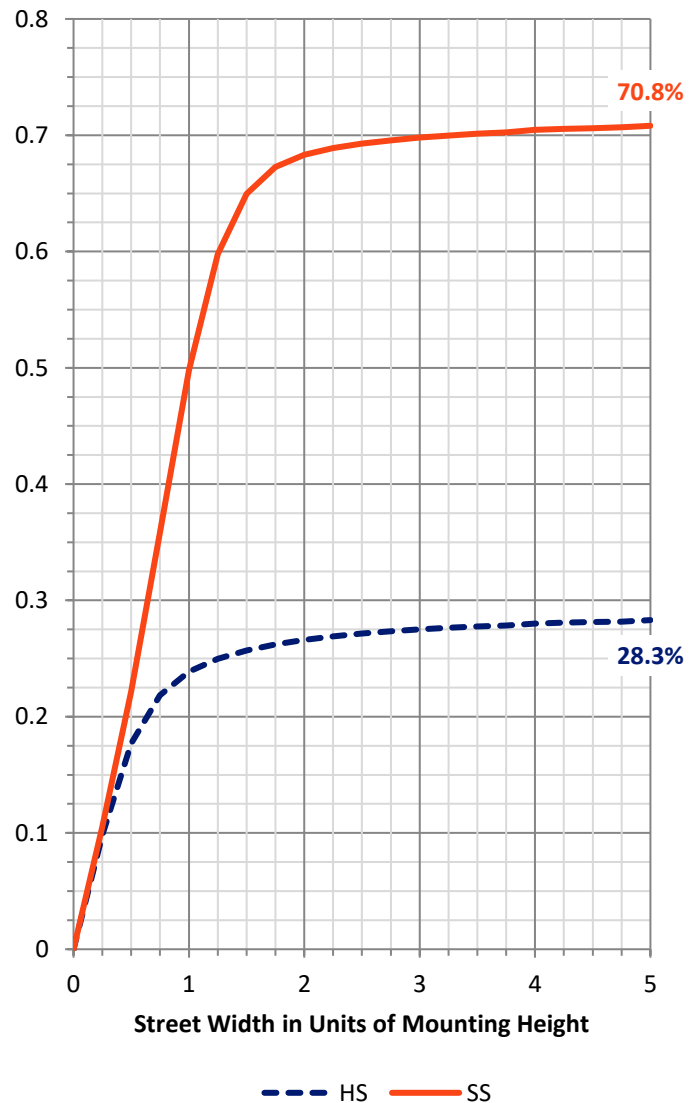
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1105.8	0.0	1105.8
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	2733.7	0.0	2733.7
	% Fixture	71.2	0.0	71.2
Total	Lumens	3839.6	0.0	3839.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	0.1
10°-20°	50.7	1.3
20°-30°	186.4	4.9
30°-40°	424.2	11.0
40°-50°	763.9	19.9
50°-60°	997.2	26.0
60°-70°	886.0	23.1
70°-80°	450.1	11.7
80°-90°	77.3	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°	3839.6	100.0
0°-180°	3839.6	100.0

Coefficient of Utilization



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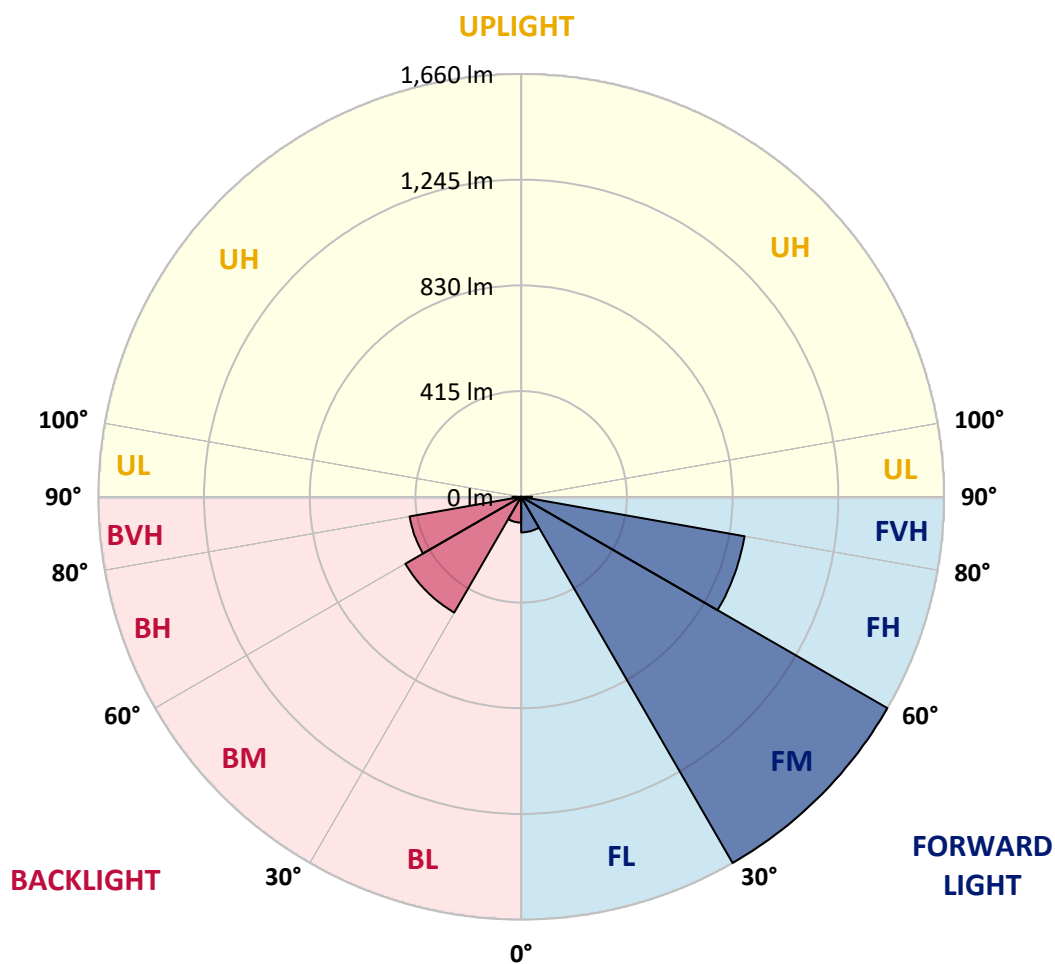
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	139.6	3.6			
FM	(30°-60°)	1660.2	43.2			
FH	(60°-80°)	891.0	23.2			G1/1800
FVH	(80°-90°)	42.9	1.1			G1/100
BL	(0°-30°)	101.2	2.6	B0/110		
BM	(30°-60°)	525.1	13.7	B1/1000		
BH	(60°-80°)	445.1	11.6	B1/500		G1/500
BVH	(80°-90°)	34.4	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°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
2.5°	9.7	9.7	8.4	6.6	5.3	4.4	3.1	2.2	2.2	1.3	0.9
5°	88.8	88.8	88.4	87.9	87.0	83.5	15.5	4.9	4.4	2.2	1.3
7.5°	90.5	90.1	90.1	89.2	88.8	87.0	85.8	33.3	28.1	4.9	2.6
10°	162.2	161.3	160.1	108.2	91.4	89.2	88.8	69.9	69.4	14.9	11.0
12.5°	169.3	169.7	168.4	167.1	163.6	102.4	98.1	126.7	128.8	148.2	115.3
15°	193.0	190.4	180.6	174.6	171.4	160.9	183.3	183.0	183.9	173.7	132.0
17.5°	274.0	273.1	270.8	254.1	188.6	241.9	231.3	197.0	199.7	227.8	227.8
20°	309.0	308.7	300.8	291.5	323.6	260.8	248.4	289.3	291.5	294.6	272.6
22.5°	464.3	463.9	445.0	342.1	363.6	327.2	328.9	329.8	321.9	317.5	341.1
25°	538.7	535.1	524.6	493.8	431.4	435.8	359.7	432.7	436.1	433.5	428.2
27.5°	759.7	760.2	672.3	582.6	529.5	490.3	494.6	480.1	479.8	471.8	492.9
30°	885.5	879.4	848.5	761.6	631.9	579.5	555.3	564.6	550.5	600.2	596.3
32.5°	1181.9	1181.9	1075.5	883.8	761.6	718.5	645.5	648.0	658.6	651.6	661.7
35°	1390.2	1370.5	1265.4	1109.8	863.6	807.8	764.2	725.9	730.3	718.0	727.6
37.5°	1611.5	1591.6	1475.6	1276.0	1043.8	944.5	864.0	816.5	805.5	806.4	813.9
40°	1783.5	1772.4	1701.2	1480.9	1222.0	1090.5	980.9	916.4	904.5	926.1	950.1
42.5°	1903.5	1899.0	1856.8	1662.6	1432.1	1311.6	1148.0	1054.4	1056.5	1068.1	1092.2
45°	1951.4	1941.2	1939.9	1777.2	1621.6	1561.0	1366.6	1211.9	1219.7	1250.9	1255.8
47.5°	1899.0	1877.9	1916.2	1824.7	1779.1	1783.0	1616.3	1414.9	1407.0	1436.8	1434.2
50°	1707.4	1700.3	1773.8	1788.3	1856.8	1947.9	1890.3	1641.5	1618.6	1621.1	1603.1
52.5°	1410.1	1427.2	1524.0	1625.2	1820.3	2037.0	2135.1	1880.6	1860.7	1805.0	1770.2
55°	1133.5	1154.2	1258.9	1337.5	1635.3	2031.0	2314.2	2119.8	2130.8	1987.4	1922.8
57.5°	829.8	856.5	995.5	1061.8	1339.7	1882.8	2405.1	2352.8	2379.6	2167.7	2067.9
60°	530.3	540.4	680.6	812.5	974.8	1534.0	2396.4	2575.4	2607.4	2362.1	2202.9
62.5°	331.0	342.1	387.8	572.0	689.4	1039.9	2226.5	2723.0	2752.4	2501.4	2315.4
63°	301.7	314.3	361.4	522.9	628.4	941.0	2170.3	2737.9	2763.9	2524.7	2332.1
65°	224.7	230.0	254.6	352.7	461.2	590.9	1777.2	2685.7	2718.2	2544.4	2338.7
67.5°	196.1	198.3	207.1	232.7	329.8	343.8	1035.4	2406.0	2426.2	2469.8	2255.6
70°	179.4	180.6	196.5	198.3	258.5	244.0	380.0	1890.3	1966.7	2318.0	2110.9
72.5°	155.6	157.5	175.9	193.0	200.5	193.9	205.4	1276.4	1368.7	1980.5	1952.2
75°	130.2	132.0	148.2	171.0	174.6	153.9	168.4	668.8	734.3	1451.9	1707.8
77.5°	106.9	108.2	122.7	138.5	160.4	118.2	136.7	252.0	312.3	897.0	1229.4
80°	73.4	77.0	92.7	107.3	122.7	107.3	102.4	144.2	152.6	435.3	628.4
82.5°	55.9	56.8	72.1	78.2	86.6	106.0	80.5	108.7	114.8	202.7	204.1
85°	38.6	37.8	51.1	54.5	60.2	66.8	67.3	79.1	81.7	117.0	85.8
87.5°	17.5	16.7	27.7	26.8	30.4	33.0	47.9	43.6	44.3	73.4	46.2
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°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
2.5°	0.9	0.9	0.9	1.3	1.3	1.3	0.9	0.4	0.4	0.4	0.4
5°	0.9	0.9	0.9	1.3	1.3	1.7	2.2	2.2	2.6	3.1	3.1
7.5°	2.2	1.7	1.7	1.7	2.6	4.0	10.6	45.8	79.9	84.4	85.8
10°	9.7	9.7	7.0	5.7	6.6	72.1	93.2	96.3	98.1	99.0	99.0
12.5°	120.1	134.0	125.4	67.3	72.6	89.7	99.8	102.0	104.7	127.1	131.4
15°	146.0	147.3	148.6	138.1	191.2	141.2	117.9	178.0	181.2	182.4	182.0
17.5°	221.6	225.6	208.3	185.6	203.1	210.2	171.4	187.7	190.8	193.4	193.4
20°	287.5	287.9	270.0	288.9	247.2	255.8	223.4	211.9	272.1	274.8	274.3
22.5°	354.4	359.7	297.7	308.2	324.9	271.3	282.2	251.5	264.7	264.7	264.2
25°	438.8	437.0	408.0	356.5	341.1	321.0	289.8	262.6	298.5	315.8	315.8
27.5°	520.2	495.1	425.2	410.3	391.3	336.9	286.2	301.2	292.8	295.1	294.6
30°	614.3	606.7	543.5	488.5	401.9	327.2	299.4	272.6	287.1	304.3	302.5
32.5°	661.7	642.4	566.8	590.0	421.2	315.2	260.8	256.3	260.8	266.8	267.8
35°	724.2	692.6	618.3	622.6	424.3	276.6	232.1	229.5	253.7	265.1	266.4
37.5°	804.6	766.9	704.5	637.1	398.4	244.0	205.8	220.3	228.7	233.9	232.1
40°	907.9	863.1	816.5	641.1	354.8	210.7	191.2	203.1	211.0	212.4	212.4
42.5°	1034.6	972.7	931.7	638.9	298.1	193.0	181.5	190.8	201.0	200.1	199.2
45°	1184.1	1109.3	1025.9	624.0	242.7	183.3	176.7	183.0	190.4	187.2	185.9
47.5°	1345.5	1265.1	1108.9	593.6	206.7	176.2	174.1	174.1	182.4	181.5	181.2
50°	1509.1	1426.4	1196.0	547.0	186.8	170.1	165.3	171.0	180.6	178.9	178.0
52.5°	1670.8	1596.6	1263.6	482.3	174.6	164.8	161.9	169.3	178.0	176.2	175.9
55°	1819.8	1771.9	1336.1	430.8	161.9	155.6	161.9	168.0	175.0	173.3	173.3
57.5°	1973.8	1959.7	1426.8	390.0	151.3	148.6	160.1	165.7	171.4	170.6	170.6
60°	2128.2	2166.8	1510.0	346.4	142.9	140.2	156.6	163.1	168.0	167.5	167.5
62.5°	2277.2	2348.9	1575.4	295.5	134.9	133.7	152.2	159.5	163.6	164.4	164.4
63°	2301.4	2372.2	1585.1	280.5	133.2	132.8	151.3	158.7	162.2	163.6	163.6
65°	2346.3	2428.8	1600.5	230.9	125.8	128.0	146.5	155.6	157.8	160.9	160.1
67.5°	2305.8	2374.8	1554.7	178.0	116.5	120.9	139.0	149.1	151.3	155.6	153.4
70°	2215.2	2210.8	1400.0	145.0	109.5	113.5	130.7	141.7	142.4	146.9	142.4
72.5°	2044.6	1889.9	1103.2	123.1	102.4	106.0	121.8	132.3	132.8	134.6	130.2
75°	1709.0	1469.8	663.0	106.4	93.7	96.3	112.1	120.9	122.2	119.7	117.4
77.5°	1167.0	924.3	302.1	93.2	85.8	86.1	100.3	108.2	108.7	102.9	102.9
80°	561.5	433.2	125.8	83.5	77.9	76.0	87.9	94.1	93.7	87.0	84.4
82.5°	177.7	158.3	93.7	73.0	69.4	65.5	76.5	79.1	79.6	79.9	64.1
85°	70.7	73.4	72.6	60.2	58.5	49.6	61.2	64.7	63.3	53.2	45.3
87.5°	36.9	45.3	44.3	40.5	41.9	31.7	42.2	40.5	41.3	27.7	21.6
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)