

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: P266337

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-42-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-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 500mA 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: 2603.9 lumens
Efficiency: N/A
Efficacy: 65.1 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): 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

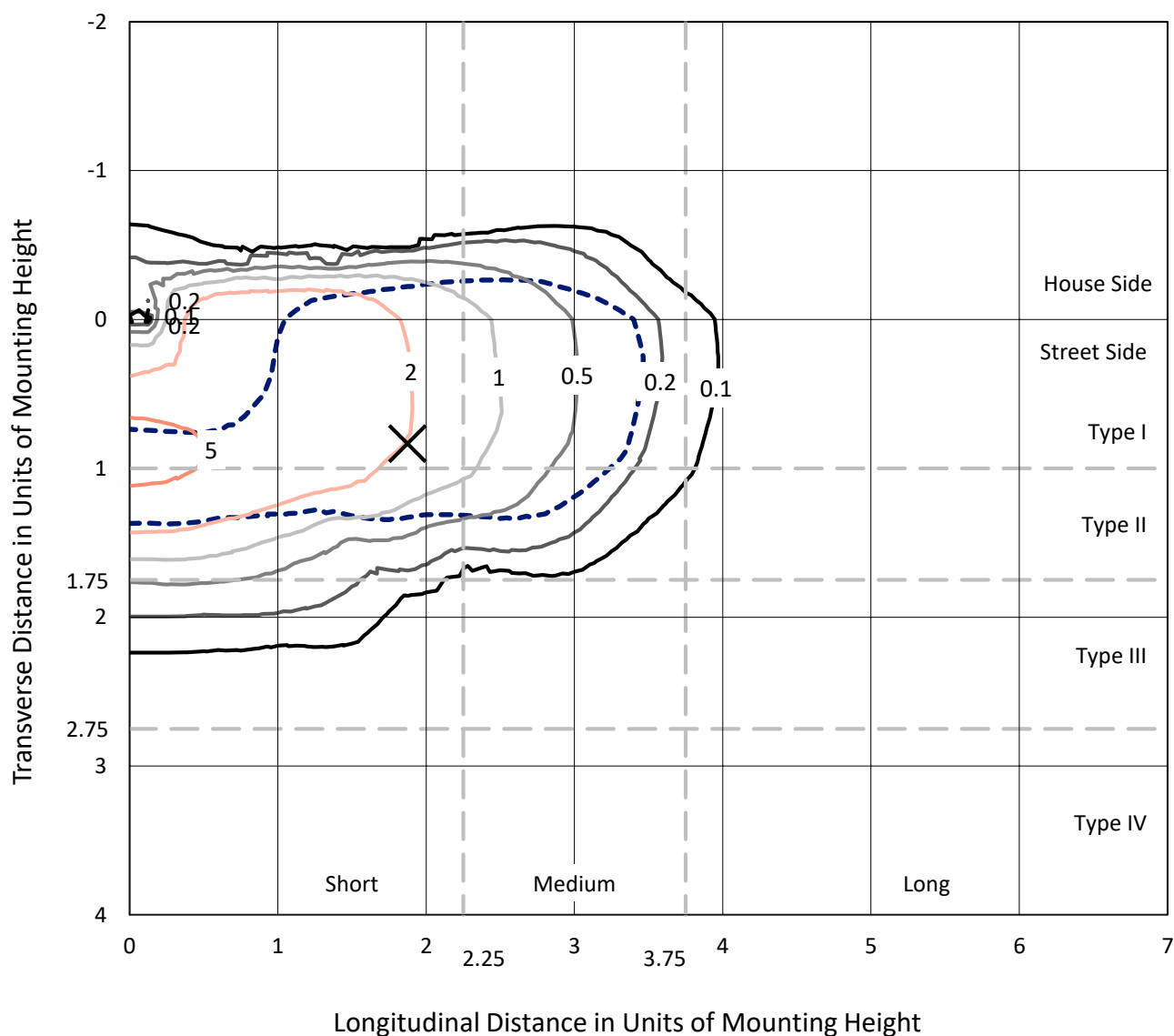


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

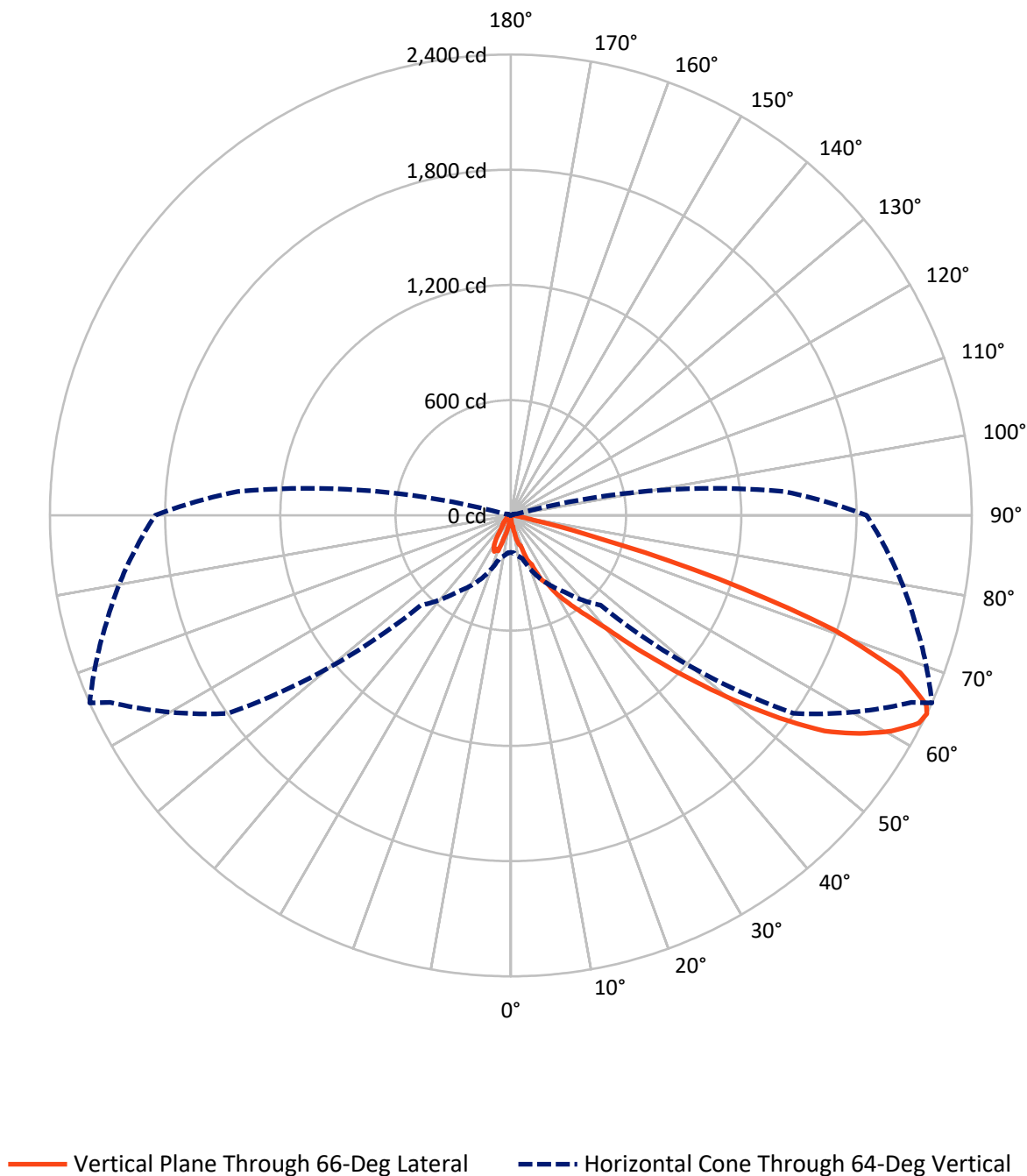


Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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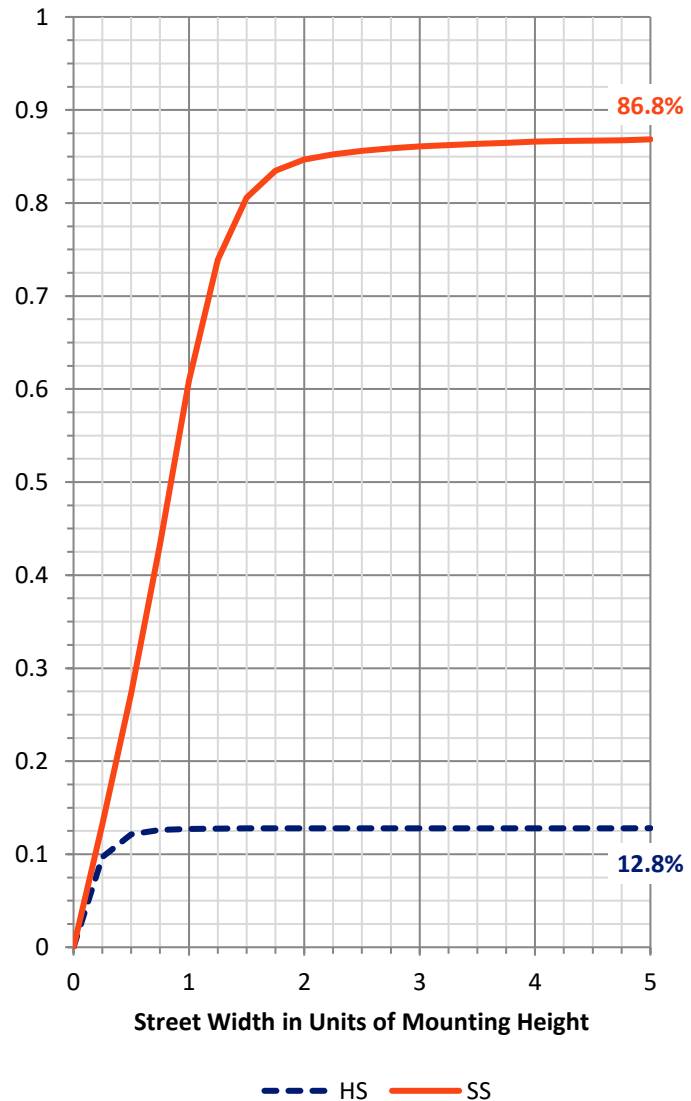
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	337.4	0.0	337.4
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	2266.5	0.0	2266.5
	% Fixture	87.0	0.0	87.0
Total	Lumens	2603.9	0.0	2603.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.1
10°-20°	34.0	1.3
20°-30°	105.6	4.1
30°-40°	265.2	10.2
40°-50°	575.3	22.1
50°-60°	778.9	29.9
60°-70°	612.3	23.5
70°-80°	216.5	8.3
80°-90°	13.0	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°	2603.9	100.0
0°-180°	2603.9	100.0

Coefficient of Utilization



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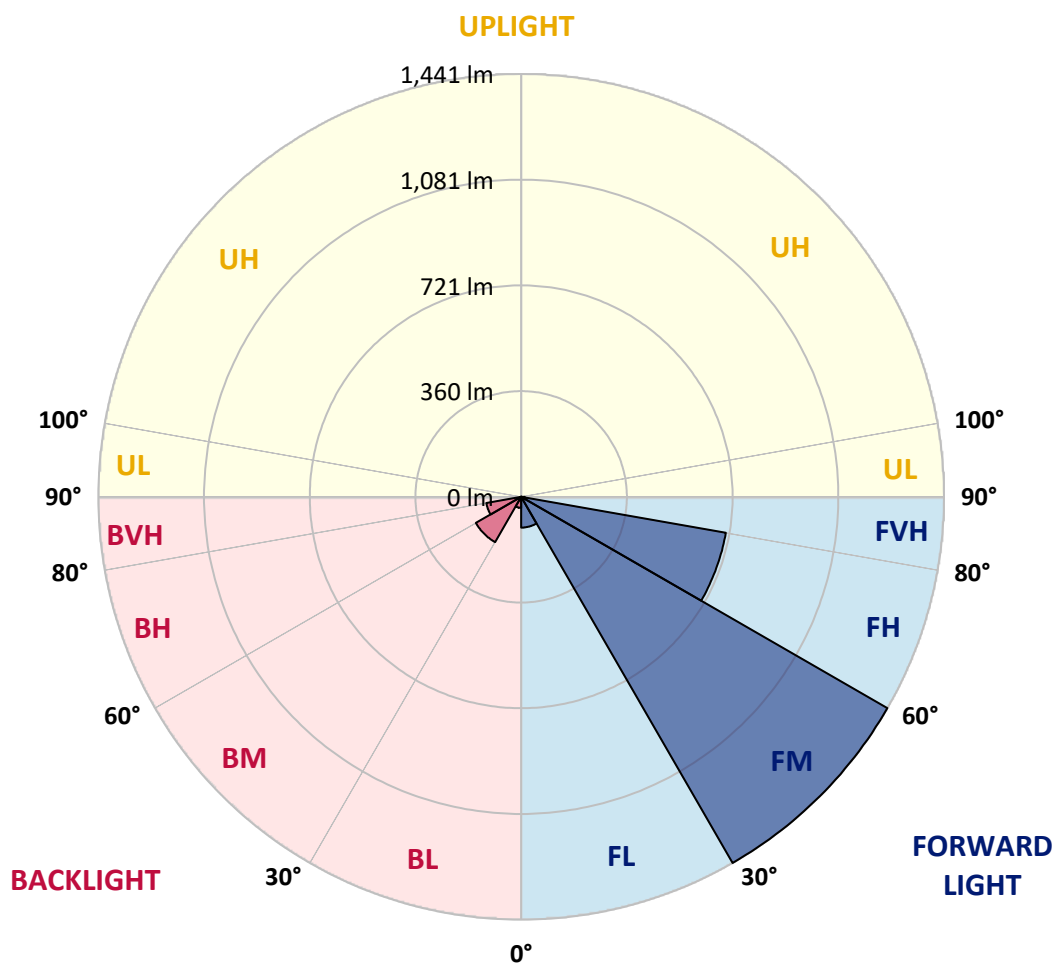
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	104.9	4.0			
FM	(30°-60°)	1441.2	55.3			
FH	(60°-80°)	708.2	27.2			G1/1800
FVH	(80°-90°)	12.1	0.5			G1/100
BL	(0°-30°)	37.7	1.4	B0/110		
BM	(30°-60°)	178.2	6.8	B0/220		
BH	(60°-80°)	120.6	4.6	B1/500		G1/500
BVH	(80°-90°)	0.9	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°	9.7	9.3	7.9	6.2	2.2	1.3	0.0	0.0	0.0	0.0	0.0
5°	78.2	78.7	79.1	79.1	79.1	78.7	30.0	2.2	1.7	0.0	0.0
7.5°	76.0	76.5	76.5	76.5	77.0	77.0	77.0	74.3	61.2	1.3	0.0
10°	143.8	144.3	145.0	105.6	78.7	75.6	75.6	61.5	59.4	7.9	3.1
12.5°	141.7	142.0	142.9	143.4	144.3	95.8	79.9	110.0	117.4	152.6	99.8
15°	163.6	171.0	154.4	144.6	144.6	135.9	160.9	155.6	156.0	158.7	102.4
17.5°	214.2	213.6	215.5	217.2	158.7	199.2	208.9	163.1	164.8	185.1	188.3
20°	221.6	222.5	220.4	223.8	262.6	209.3	208.9	248.9	247.2	247.6	222.9
22.5°	301.7	302.5	305.7	253.7	274.4	259.0	272.6	277.8	277.8	260.2	262.6
25°	324.5	322.8	325.8	321.1	323.2	313.1	294.6	354.9	371.5	355.3	353.6
27.5°	450.7	446.7	437.6	358.0	351.7	332.5	388.2	397.9	398.4	395.3	409.8
30°	533.9	535.1	509.7	466.5	391.3	382.9	429.2	464.9	477.1	517.6	505.2
32.5°	796.3	780.1	707.5	554.1	483.3	450.7	477.4	546.1	537.7	564.7	564.7
35°	1041.2	1012.7	902.3	746.6	565.6	502.2	567.2	588.4	604.6	627.5	635.5
37.5°	1285.7	1274.3	1159.2	947.6	728.6	587.0	640.2	680.6	678.8	708.9	724.3
40°	1503.0	1488.4	1412.3	1198.7	923.0	715.4	743.2	783.1	780.1	836.9	857.9
42.5°	1664.7	1655.0	1605.5	1389.0	1163.0	933.5	897.0	914.1	925.2	985.9	1007.4
45°	1753.2	1736.1	1721.5	1540.4	1371.9	1195.1	1100.7	1079.9	1093.1	1153.0	1167.8
47.5°	1734.3	1713.2	1733.8	1630.6	1555.8	1423.9	1368.8	1299.8	1290.1	1367.1	1339.0
50°	1586.5	1573.3	1637.5	1630.6	1661.2	1613.4	1672.3	1531.2	1515.7	1558.7	1509.6
52.5°	1324.9	1324.9	1424.3	1489.3	1659.4	1749.2	1936.9	1777.7	1752.8	1744.8	1639.2
55°	1055.8	1062.9	1155.9	1250.1	1514.8	1785.7	2158.2	2004.3	1982.3	1877.5	1737.0
57.5°	763.7	771.7	905.0	983.6	1242.3	1660.8	2242.6	2150.7	2141.9	1984.0	1827.1
60°	447.6	466.5	607.8	740.1	897.0	1337.1	2209.1	2251.4	2279.4	2069.8	1893.0
62.5°	263.8	271.7	321.1	501.8	620.0	909.9	2026.2	2301.5	2383.4	2142.4	1944.4
64°	192.5	196.5	231.8	363.3	485.4	661.0	1796.3	2301.5	2399.6	2181.4	1958.6
65°	157.5	159.2	183.9	290.6	410.7	505.7	1580.4	2282.1	2378.1	2200.8	1955.4
67.5°	128.0	129.3	135.5	166.2	282.7	277.8	934.3	2111.0	2186.7	2221.9	1908.0
70°	115.3	116.5	127.1	129.7	208.9	185.1	301.2	1735.2	1786.2	2112.9	1806.9
72.5°	87.6	91.0	110.0	126.2	144.6	138.5	144.3	1069.8	1129.2	1609.0	1541.8
75°	59.7	63.3	81.7	107.3	111.7	104.3	108.7	410.7	459.9	836.0	930.0
77.5°	38.3	38.6	51.1	77.9	99.8	71.2	82.3	115.6	134.6	283.1	289.8
80°	25.1	26.0	30.8	49.6	68.1	59.4	50.6	62.4	63.3	83.5	44.3
82.5°	15.5	14.9	20.2	30.8	41.9	50.1	31.3	40.5	42.2	49.2	19.0
85°	6.6	7.0	12.8	19.9	26.0	24.2	19.4	24.7	25.5	32.6	11.0
87.5°	2.6	2.6	7.5	11.0	11.4	11.4	11.9	13.1	13.1	20.2	7.0
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	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.4	0.4	0.0	0.0	1.7	40.5	58.0	58.0
10°	3.1	2.6	0.0	0.4	0.4	20.2	64.7	64.7	63.3	62.4	62.1
12.5°	99.0	113.8	109.1	47.0	36.6	57.6	61.2	54.1	48.4	45.8	44.8
15°	118.2	117.9	114.8	93.2	130.7	58.5	46.6	56.2	48.4	41.9	41.9
17.5°	197.0	186.8	156.0	126.7	118.2	79.1	47.0	32.1	26.4	24.7	24.7
20°	234.4	230.0	201.0	195.2	108.2	65.0	33.0	22.0	25.1	28.1	28.1
22.5°	288.0	285.8	211.0	185.9	107.7	39.5	26.4	26.4	26.0	24.7	24.7
25°	346.0	348.3	297.7	197.0	73.4	33.0	27.3	22.8	20.2	22.0	22.4
27.5°	422.2	366.7	299.9	181.5	50.1	30.8	23.3	22.0	21.6	20.8	20.8
30°	508.4	496.5	383.8	151.3	38.3	27.7	22.0	19.4	17.2	18.1	18.1
32.5°	567.6	531.2	376.8	114.4	33.0	24.2	19.0	16.3	16.7	17.2	16.7
35°	627.5	586.1	380.0	73.4	29.5	19.9	15.5	14.6	14.1	15.8	15.8
37.5°	712.4	660.1	374.2	46.2	24.7	16.3	13.1	12.8	13.1	13.7	13.7
40°	816.6	756.7	360.6	34.8	20.2	13.1	11.0	10.6	11.4	11.4	11.4
42.5°	941.5	862.4	324.9	30.4	17.2	10.6	8.9	8.9	9.7	9.7	9.7
45°	1090.5	991.1	279.6	26.8	14.6	8.9	7.0	7.5	7.9	7.9	7.9
47.5°	1254.6	1132.8	222.1	23.3	12.2	7.0	5.7	5.7	6.2	6.2	6.2
50°	1406.2	1249.7	175.0	20.8	10.2	5.7	4.4	4.4	4.4	4.4	4.4
52.5°	1518.0	1326.6	127.5	18.1	8.9	4.4	3.1	3.1	3.1	3.1	3.1
55°	1609.0	1377.6	92.3	15.5	7.0	3.6	2.2	1.7	2.2	1.7	1.7
57.5°	1689.0	1409.8	66.5	12.8	5.7	2.2	0.9	0.9	0.9	0.9	0.9
60°	1761.5	1426.9	49.2	10.6	4.9	1.3	0.9	0.4	0.4	0.0	0.0
62.5°	1827.5	1433.1	37.4	8.4	4.0	0.9	0.4	0.0	0.0	0.0	0.0
64°	1851.6	1427.3	32.1	7.5	3.6	0.4	0.4	0.0	0.0	0.0	0.0
65°	1859.1	1413.8	29.0	6.6	3.1	0.4	0.4	0.0	0.0	0.0	0.0
67.5°	1836.2	1351.7	21.6	5.3	2.6	0.4	0.4	0.0	0.0	0.0	0.0
70°	1747.1	1234.7	15.8	4.4	1.7	0.0	0.4	0.0	0.0	0.0	0.0
72.5°	1428.7	932.3	11.4	3.6	1.7	0.0	0.4	0.0	0.0	0.0	0.0
75°	857.9	393.1	8.4	2.6	1.7	0.0	0.9	0.0	0.0	0.0	0.0
77.5°	259.0	126.7	6.2	2.2	2.2	0.0	1.3	0.4	0.0	0.0	0.0
80°	34.8	19.0	3.6	1.7	2.2	0.0	1.7	0.4	0.0	0.0	0.0
82.5°	12.8	6.2	2.2	1.7	2.2	0.0	1.7	1.3	0.4	0.4	0.0
85°	4.9	3.6	1.7	1.3	2.6	0.0	2.2	1.3	0.4	0.4	0.0
87.5°	2.2	1.7	1.3	1.3	2.6	0.0	2.2	1.7	0.4	0.4	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)