

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: P239615

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239615
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 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: 3400 lumens
Efficiency: N/A
Efficacy: 109.7 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



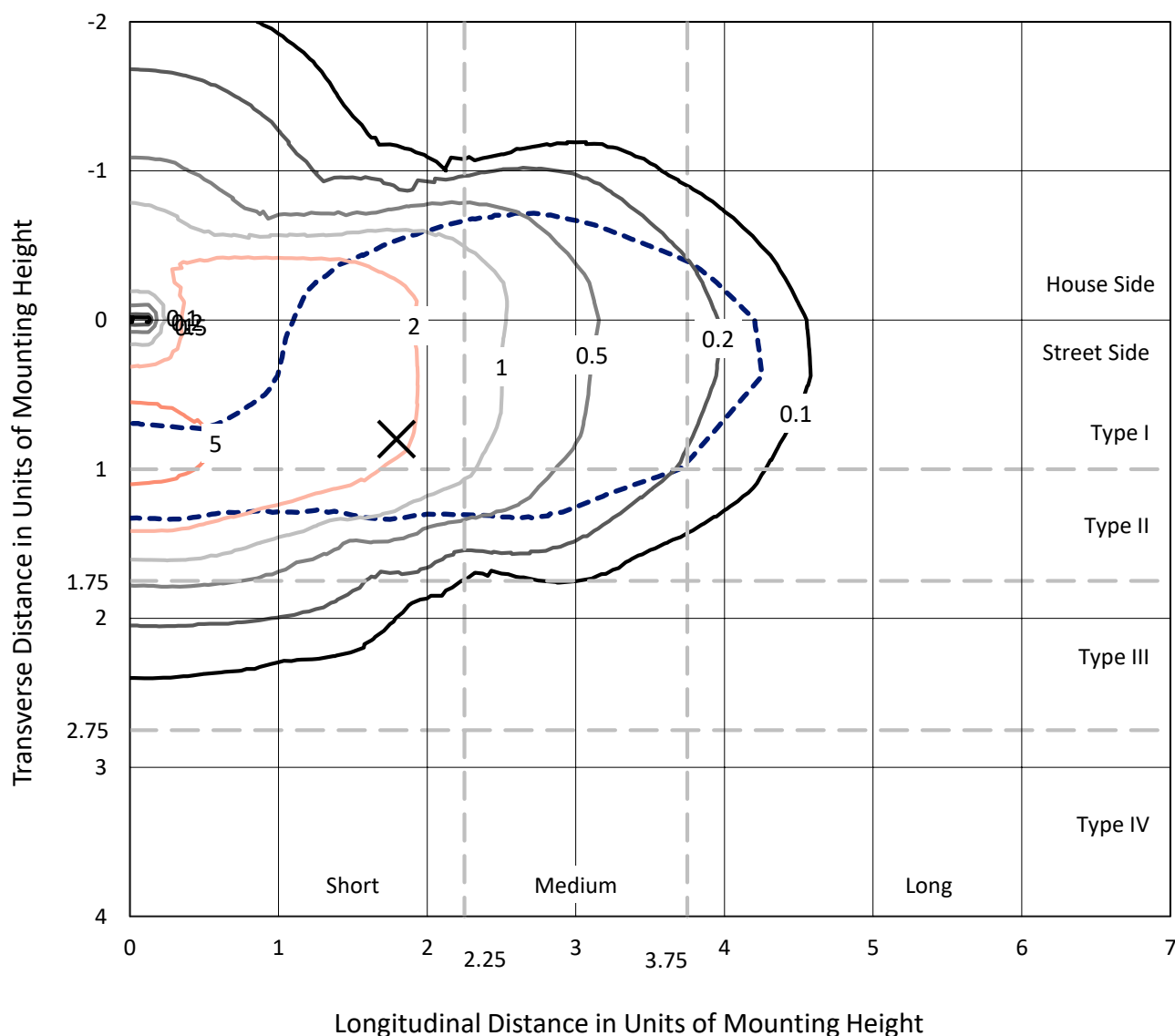
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

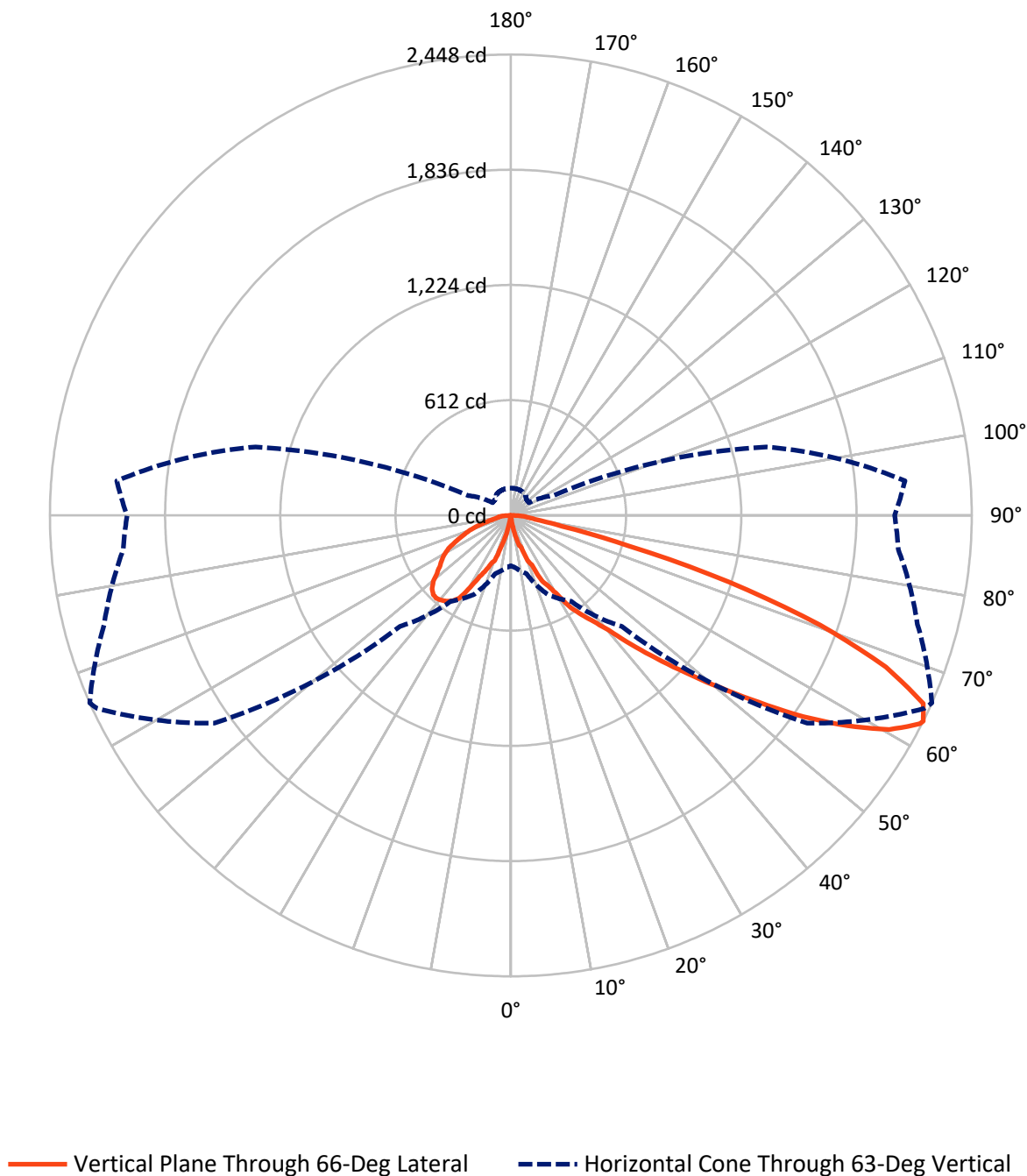


Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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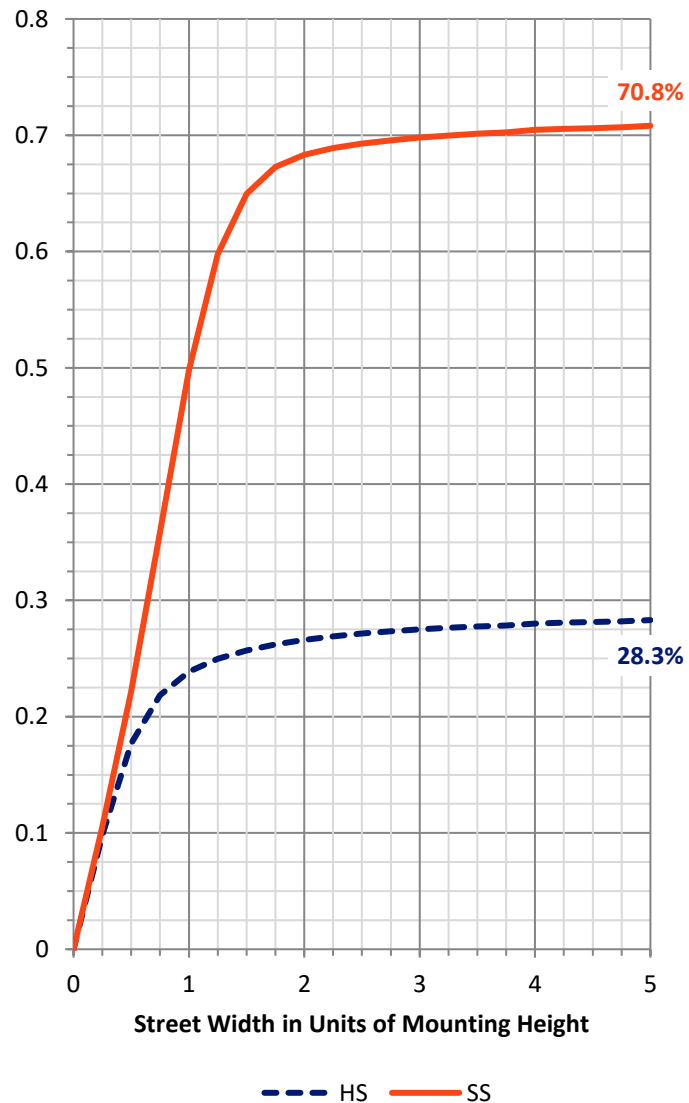
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	979.2	0.0	979.2
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	2420.8	0.0	2420.8
	% Fixture	71.2	0.0	71.2
Total	Lumens	3400.0	0.0	3400.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.1
10°-20°	44.9	1.3
20°-30°	165.1	4.9
30°-40°	375.6	11.0
40°-50°	676.4	19.9
50°-60°	883.1	26.0
60°-70°	784.6	23.1
70°-80°	398.5	11.7
80°-90°	68.5	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°	3400.0	100.0
0°-180°	3400.0	100.0

Coefficient of Utilization



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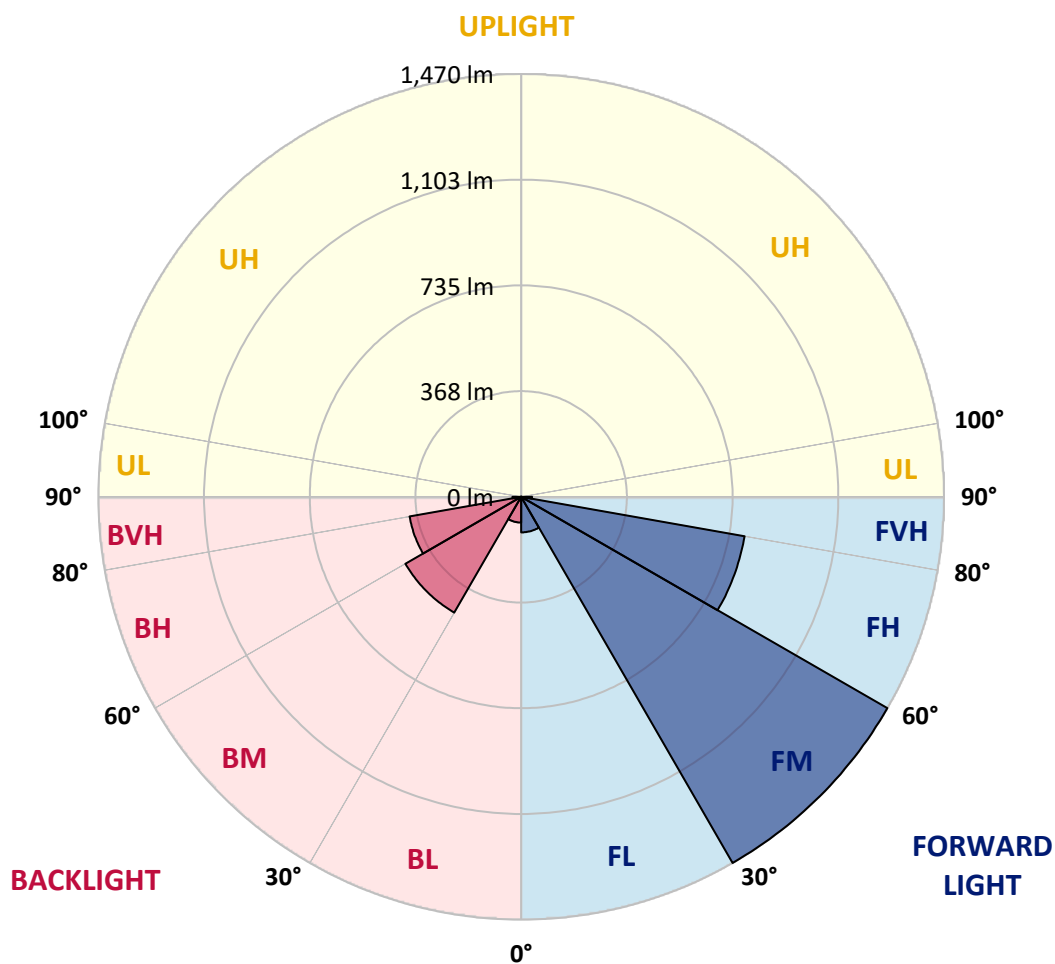
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	123.6	3.6			
FM	(30°-60°)	1470.2	43.2			
FH	(60°-80°)	789.0	23.2			G1/1800
FVH	(80°-90°)	38.0	1.1			G1/100
BL	(0°-30°)	89.6	2.6	B0/110		
BM	(30°-60°)	465.0	13.7	B1/1000		
BH	(60°-80°)	394.2	11.6	B1/500		G1/500
BVH	(80°-90°)	30.5	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°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
2.5°	8.6	8.6	7.4	5.8	4.7	3.9	2.7	1.9	1.9	1.2	0.8
5°	78.7	78.7	78.3	77.9	77.1	74.0	13.6	4.3	3.9	1.9	1.2
7.5°	80.2	79.8	79.8	79.0	78.7	77.1	75.9	29.6	24.9	4.3	2.3
10°	143.7	142.9	141.7	95.8	81.0	79.0	78.7	61.9	61.5	13.2	9.7
12.5°	149.9	150.3	149.1	148.0	144.8	90.7	86.8	112.1	114.1	131.2	102.0
15°	170.9	168.6	160.0	154.6	151.8	142.5	162.4	162.0	162.8	153.8	116.8
17.5°	242.6	241.8	239.8	225.0	167.0	214.1	204.8	174.4	176.8	201.7	201.7
20°	273.7	273.3	266.3	258.1	286.6	230.9	220.0	256.2	258.1	260.9	241.4
22.5°	411.2	410.8	394.0	302.9	322.0	289.7	291.2	292.0	285.0	281.1	302.1
25°	477.0	473.8	464.5	437.2	382.0	385.9	318.5	383.1	386.2	383.9	379.2
27.5°	672.8	673.2	595.3	515.9	468.8	434.1	438.0	425.2	424.8	417.8	436.5
30°	784.2	778.7	751.5	674.4	559.5	513.2	491.8	499.9	487.5	531.5	528.0
32.5°	1046.6	1046.6	952.4	782.6	674.4	636.2	571.6	573.9	583.3	577.0	586.0
35°	1231.2	1213.6	1120.6	982.7	764.7	715.3	676.7	642.8	646.7	635.8	644.4
37.5°	1427.0	1409.5	1306.7	1129.9	924.3	836.3	765.1	723.0	713.3	714.1	720.7
40°	1579.2	1569.5	1506.4	1311.4	1082.0	965.6	868.7	811.4	800.9	820.0	841.4
42.5°	1685.5	1681.6	1644.3	1472.2	1268.1	1161.5	1016.6	933.7	935.6	945.8	967.2
45°	1728.0	1719.0	1717.9	1573.8	1436.0	1382.2	1210.1	1073.1	1080.1	1107.7	1112.0
47.5°	1681.6	1663.0	1696.8	1615.8	1575.3	1578.8	1431.3	1253.0	1245.9	1272.4	1270.1
50°	1511.9	1505.6	1570.7	1583.5	1644.3	1724.9	1673.9	1453.5	1433.2	1435.6	1419.6
52.5°	1248.7	1263.9	1349.5	1439.1	1611.9	1803.9	1890.7	1665.3	1647.8	1598.3	1567.6
55°	1003.8	1022.1	1114.7	1184.4	1448.0	1798.4	2049.2	1877.1	1886.8	1759.9	1702.7
57.5°	734.7	758.5	881.5	940.3	1186.4	1667.2	2129.8	2083.5	2107.2	1919.5	1831.2
60°	469.6	478.5	602.7	719.5	863.2	1358.5	2122.0	2280.5	2308.9	2091.6	1950.7
62.5°	293.2	302.9	343.4	506.6	610.5	920.8	1971.7	2411.3	2437.4	2215.1	2050.4
63°	267.1	278.4	320.1	462.9	556.4	833.2	1921.9	2424.5	2447.5	2235.7	2065.2
65°	199.0	203.6	225.4	312.3	408.4	523.3	1573.8	2378.2	2407.0	2253.2	2071.0
67.5°	173.7	175.6	183.4	206.0	292.0	304.5	916.9	2130.6	2148.5	2187.0	1997.4
70°	158.9	160.0	174.0	175.6	228.9	216.1	336.4	1673.9	1741.6	2052.7	1869.3
72.5°	137.8	139.4	155.7	170.9	177.5	171.7	181.8	1130.3	1212.1	1753.7	1728.8
75°	115.3	116.8	131.2	151.5	154.6	136.3	149.1	592.2	650.2	1285.7	1512.3
77.5°	94.6	95.8	108.6	122.6	142.1	104.7	121.1	223.1	276.4	794.3	1088.6
80°	65.0	68.1	82.2	95.0	108.6	95.0	90.7	127.7	135.1	385.5	556.4
82.5°	49.4	50.2	63.9	69.3	76.7	93.8	71.3	96.2	101.6	179.5	180.7
85°	34.3	33.5	45.2	48.3	53.3	59.2	59.6	70.1	72.4	103.6	75.9
87.5°	15.6	14.8	24.5	23.8	26.9	29.2	42.4	38.5	39.3	65.0	40.9
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°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
2.5°	0.8	0.8	0.8	1.2	1.2	1.2	0.8	0.4	0.4	0.4	0.4
5°	0.8	0.8	0.8	1.2	1.2	1.6	1.9	1.9	2.3	2.7	2.7
7.5°	1.9	1.6	1.6	1.6	2.3	3.5	9.3	40.5	70.9	74.8	75.9
10°	8.6	8.6	6.2	5.1	5.8	63.9	82.5	85.3	86.8	87.6	87.6
12.5°	106.3	118.8	111.0	59.6	64.2	79.4	88.4	90.3	92.7	112.5	116.4
15°	129.3	130.4	131.6	122.3	169.4	125.0	104.3	157.7	160.4	161.6	161.2
17.5°	196.2	199.7	184.6	164.3	179.9	186.1	151.8	166.3	169.0	171.3	171.3
20°	254.6	255.0	239.1	255.8	218.8	226.6	197.8	187.7	241.0	243.3	243.0
22.5°	313.8	318.5	263.6	272.9	287.7	240.2	250.0	222.7	234.4	234.4	234.0
25°	388.6	387.0	361.3	315.8	302.1	284.2	256.6	232.4	264.4	279.6	279.6
27.5°	460.6	438.4	376.5	363.3	346.5	298.2	253.5	266.7	259.3	261.3	260.9
30°	543.9	537.3	481.2	432.6	355.9	289.7	265.2	241.4	254.3	269.4	267.9
32.5°	586.0	568.9	501.9	522.5	373.0	279.2	230.9	227.0	230.9	236.3	237.1
35°	641.3	613.2	547.4	551.3	375.7	244.9	205.6	203.2	224.7	234.8	236.0
37.5°	712.5	679.0	623.8	564.2	352.8	216.1	182.2	195.1	202.5	207.1	205.6
40°	804.0	764.3	723.0	567.7	314.2	186.5	169.4	179.9	186.9	188.1	188.1
42.5°	916.2	861.3	825.1	565.7	264.0	170.9	160.8	169.0	177.9	177.2	176.4
45°	1048.5	982.4	908.4	552.5	214.9	162.4	156.5	162.0	168.6	165.9	164.7
47.5°	1191.4	1120.2	982.0	525.6	183.0	156.1	154.2	154.2	161.6	160.8	160.4
50°	1336.3	1263.1	1059.1	484.4	165.5	150.7	146.4	151.5	160.0	158.5	157.7
52.5°	1479.6	1413.8	1119.0	427.1	154.6	146.0	143.3	149.9	157.7	156.1	155.7
55°	1611.6	1569.1	1183.3	381.6	143.3	137.8	143.3	148.7	155.0	153.4	153.4
57.5°	1747.8	1735.4	1263.5	345.4	133.9	131.6	141.7	146.8	151.8	151.1	151.1
60°	1884.5	1918.8	1337.1	306.8	126.5	124.2	138.6	144.5	148.7	148.3	148.3
62.5°	2016.5	2080.0	1395.1	261.6	119.5	118.4	134.7	141.3	144.8	145.6	145.6
63°	2037.9	2100.6	1403.6	248.4	118.0	117.6	133.9	140.6	143.7	144.8	144.8
65°	2077.6	2150.8	1417.3	204.4	111.4	113.3	129.7	137.8	139.8	142.5	141.7
67.5°	2041.8	2102.9	1376.8	157.7	103.2	107.1	123.0	132.0	133.9	137.8	135.9
70°	1961.6	1957.7	1239.7	128.5	97.0	100.5	115.6	125.4	126.2	130.0	126.2
72.5°	1810.5	1673.5	976.9	109.0	90.7	93.8	107.9	117.2	117.6	119.1	115.3
75°	1513.4	1301.6	587.2	94.2	82.9	85.3	99.3	107.1	108.2	105.9	104.0
77.5°	1033.4	818.4	267.5	82.5	75.9	76.3	88.8	95.8	96.2	91.1	91.1
80°	497.2	383.5	111.4	74.0	68.9	67.4	77.9	83.3	82.9	77.1	74.8
82.5°	157.3	140.2	82.9	64.6	61.5	58.0	67.7	70.1	70.5	70.9	56.8
85°	62.7	65.0	64.2	53.3	51.8	44.0	54.1	57.2	56.1	47.1	40.1
87.5°	32.7	40.1	39.3	35.8	37.0	28.0	37.4	35.8	36.6	24.5	19.1
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)