

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: P239609

Luminaire Tested: **UTLD-AF24-60-D-U-T2U-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239609
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-AF24-60-D-U-T2U-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 800mA 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: 5831 lumens
Efficiency: N/A
Efficacy: 91.1 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: B2 - U0 - G2

Input Watts (W): 64
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

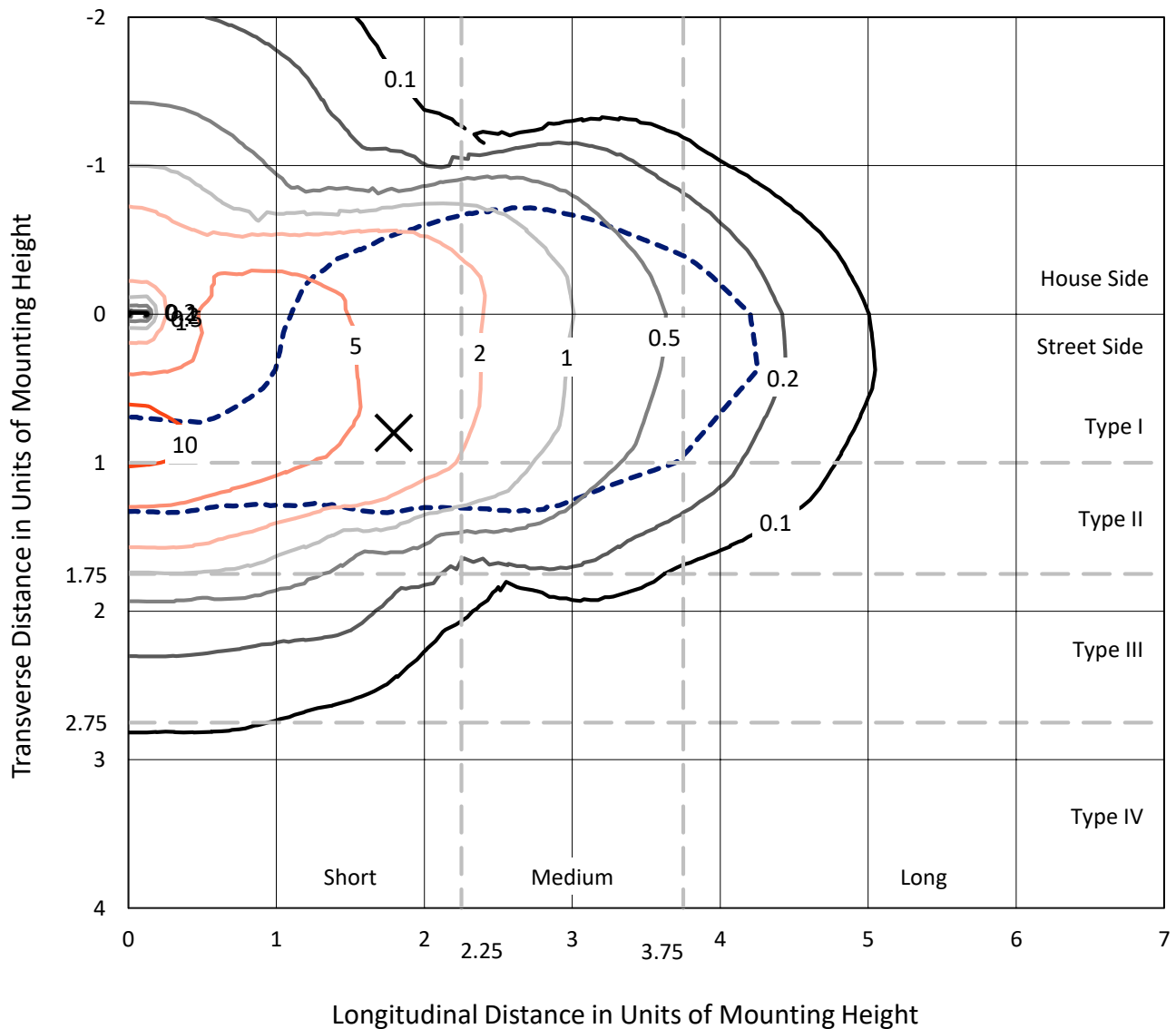


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

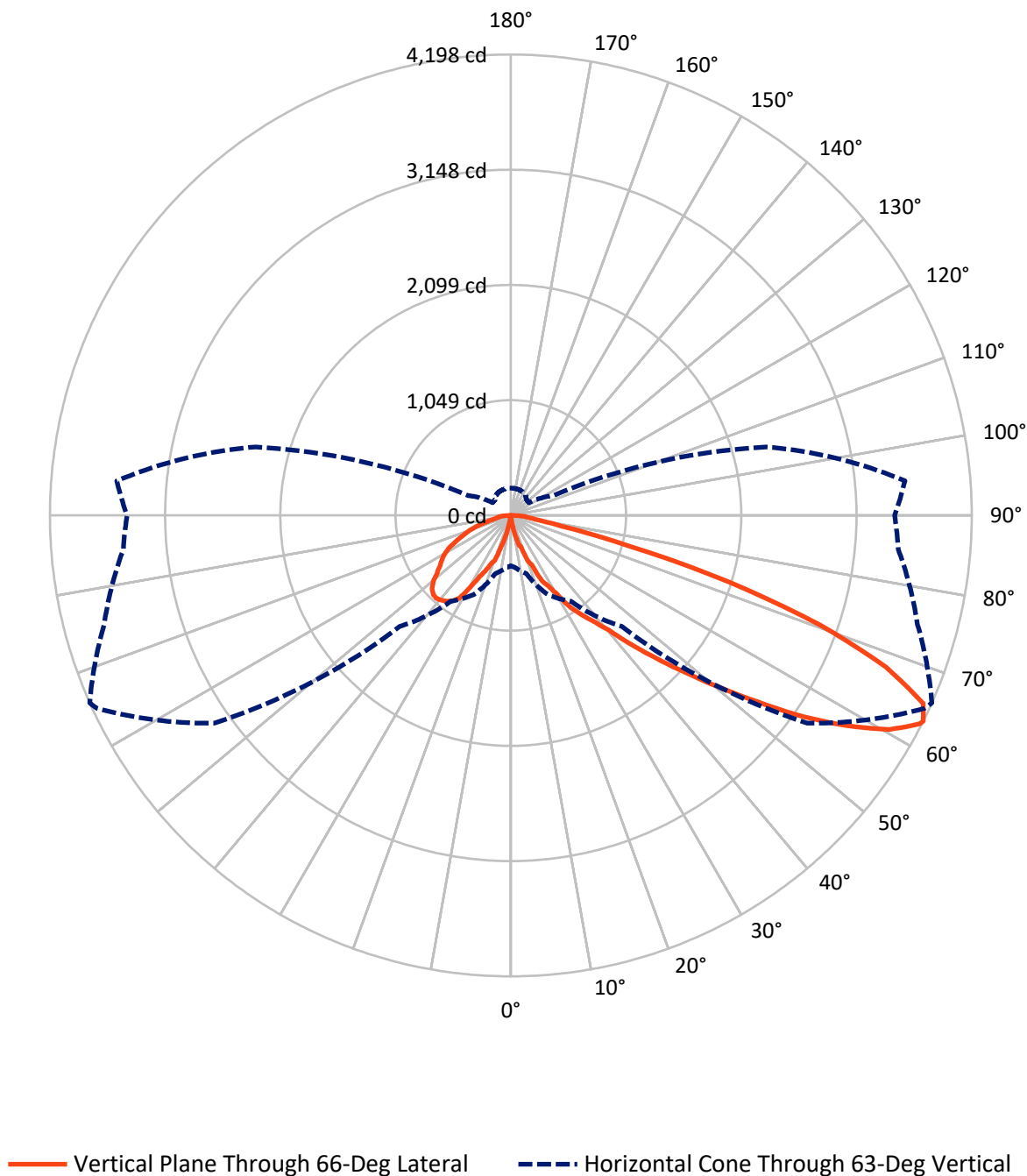


Based on 10 foot mounting height. Maximum calculated value = 12.1 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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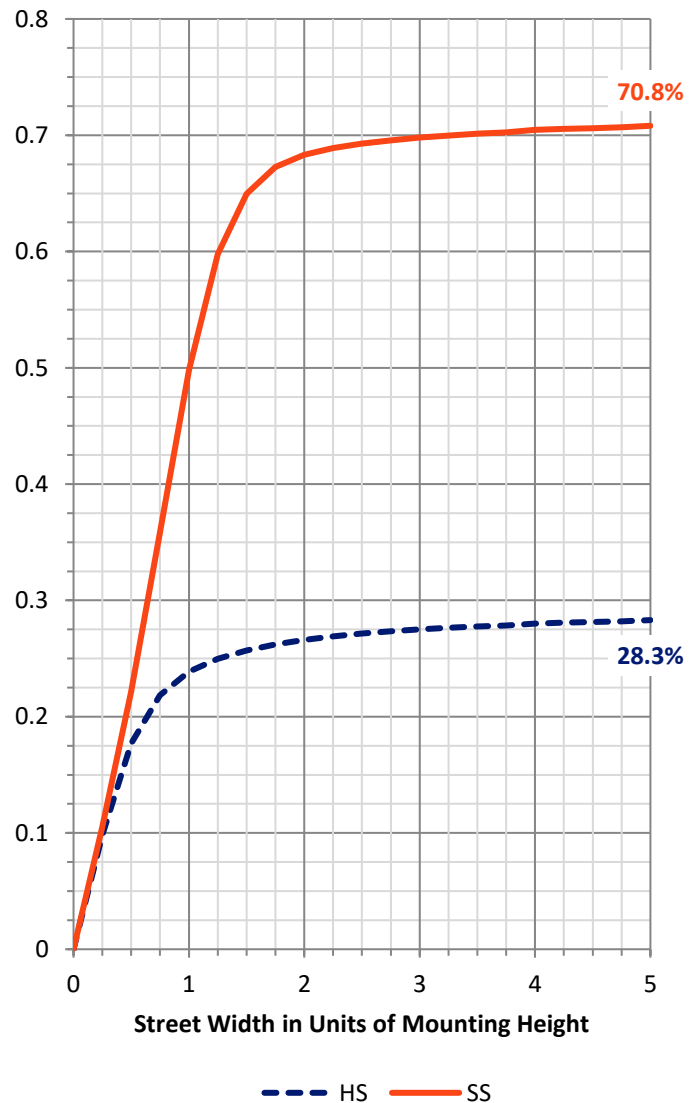
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1679.4	0.0	1679.4
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	4151.6	0.0	4151.6
	% Fixture	71.2	0.0	71.2
Total	Lumens	5831.0	0.0	5831.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.1
10°-20°	77.0	1.3
20°-30°	283.1	4.9
30°-40°	644.2	11.0
40°-50°	1160.1	19.9
50°-60°	1514.5	26.0
60°-70°	1345.5	23.1
70°-80°	683.5	11.7
80°-90°	117.5	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°	5831.0	100.0
0°-180°	5831.0	100.0

Coefficient of Utilization



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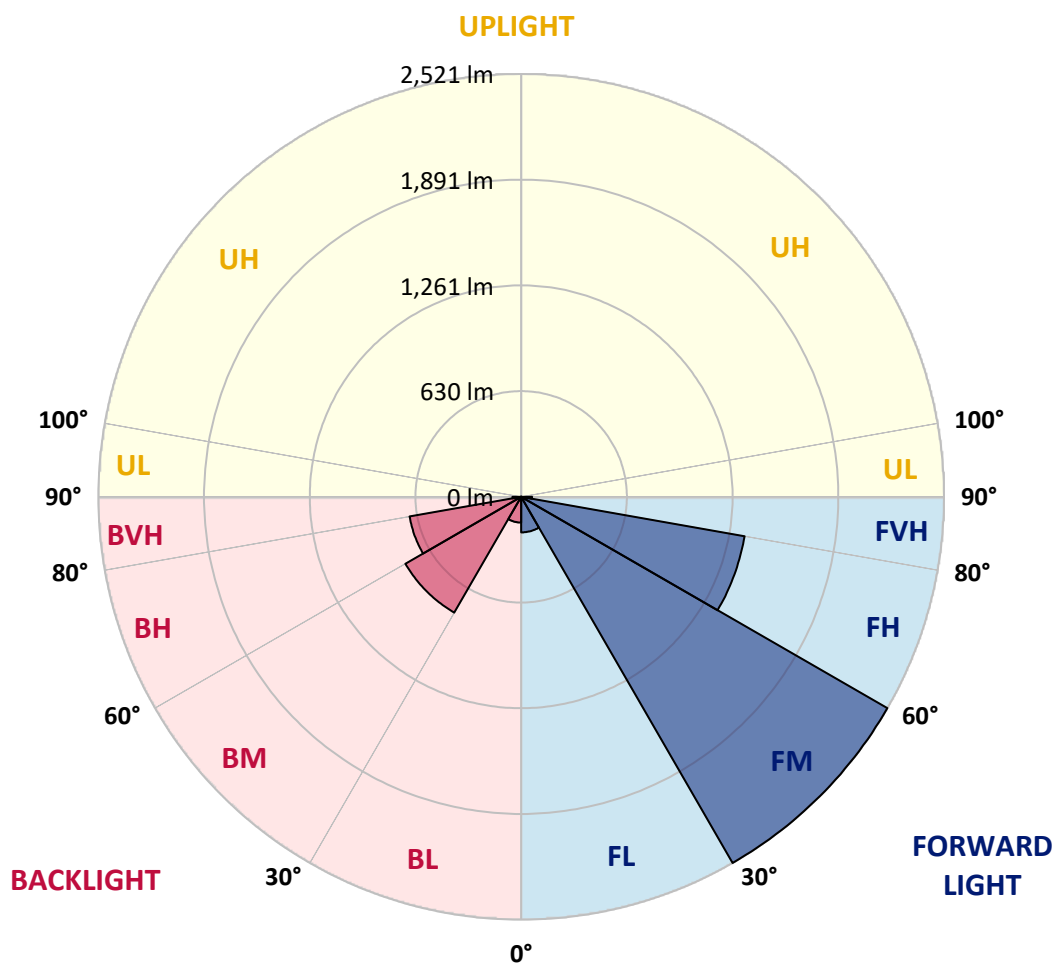
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	212.1	3.6			
FM	(30°-60°)	2521.3	43.2			
FH	(60°-80°)	1353.1	23.2			G1/1800
FVH	(80°-90°)	65.2	1.1			G1/100
BL	(0°-30°)	153.7	2.6	B1/500		
BM	(30°-60°)	797.4	13.7	B1/1000		
BH	(60°-80°)	676.0	11.6	B2/1000		G2/1000
BVH	(80°-90°)	52.3	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
2.5°	14.7	14.7	12.7	10.0	8.0	6.7	4.7	3.3	3.3	2.0	1.3
5°	134.9	134.9	134.2	133.6	132.2	126.9	23.4	7.3	6.7	3.3	2.0
7.5°	137.6	136.9	136.9	135.6	134.9	132.2	130.2	50.7	42.7	7.3	4.0
10°	246.4	245.1	243.1	164.3	138.9	135.6	134.9	106.2	105.5	22.7	16.7
12.5°	257.1	257.8	255.7	253.7	248.4	155.6	148.9	192.3	195.7	225.0	175.0
15°	293.1	289.1	274.4	265.1	260.4	244.4	278.5	277.8	279.1	263.8	200.3
17.5°	416.0	414.7	411.3	386.0	286.5	367.3	351.2	299.2	303.2	345.9	345.9
20°	469.4	468.8	456.7	442.7	491.5	396.0	377.3	439.4	442.7	447.4	414.0
22.5°	705.1	704.5	675.8	519.5	552.2	496.8	499.5	500.8	488.8	482.1	518.2
25°	818.0	812.7	796.6	749.9	655.1	661.7	546.2	657.1	662.4	658.4	650.4
27.5°	1153.9	1154.5	1021.0	884.8	804.0	744.5	751.2	729.2	728.5	716.5	748.5
30°	1344.8	1335.5	1288.8	1156.5	959.6	880.1	843.4	857.4	836.0	911.5	905.5
32.5°	1794.9	1794.9	1633.3	1342.2	1156.5	1091.1	980.3	984.3	1000.3	989.6	1005.0
35°	2111.4	2081.4	1921.8	1685.4	1311.5	1226.7	1160.5	1102.5	1109.1	1090.4	1105.1
37.5°	2447.3	2417.3	2241.0	1937.8	1585.2	1434.3	1312.1	1240.0	1223.3	1224.7	1236.0
40°	2708.4	2691.7	2583.5	2249.0	1855.7	1656.0	1489.8	1391.6	1373.6	1406.3	1443.0
42.5°	2890.7	2884.0	2819.9	2524.8	2174.9	1991.9	1743.5	1601.3	1604.6	1622.0	1658.7
45°	2963.5	2948.1	2946.1	2699.0	2462.7	2370.5	2075.4	1840.3	1852.3	1899.7	1907.1
47.5°	2884.0	2852.0	2910.1	2771.2	2701.7	2707.7	2454.6	2148.8	2136.8	2182.2	2178.2
50°	2592.9	2582.2	2693.7	2715.7	2819.9	2958.1	2870.7	2492.7	2458.0	2462.0	2434.6
52.5°	2141.5	2167.5	2314.4	2468.0	2764.5	3093.7	3242.6	2856.0	2825.9	2741.1	2688.4
55°	1721.5	1752.8	1911.8	2031.3	2483.4	3084.3	3514.4	3219.2	3235.9	3018.2	2920.1
57.5°	1260.0	1300.8	1511.8	1612.6	2034.6	2859.3	3652.6	3573.1	3613.9	3292.0	3140.4
60°	805.3	820.7	1033.7	1234.0	1480.4	2329.8	3639.2	3911.0	3959.8	3587.2	3345.4
62.5°	502.8	519.5	589.0	868.7	1047.0	1579.2	3381.5	4135.4	4180.1	3798.8	3516.4
63°	458.1	477.4	548.9	794.0	954.2	1429.0	3296.0	4158.1	4197.5	3834.2	3541.7
65°	341.2	349.2	386.6	535.5	700.5	897.5	2699.0	4078.6	4128.0	3864.3	3551.8
67.5°	297.8	301.2	314.5	353.2	500.8	522.2	1572.6	3653.9	3684.6	3750.8	3425.6
70°	272.4	274.4	298.5	301.2	392.6	370.6	576.9	2870.7	2986.8	3520.4	3205.9
72.5°	236.4	239.1	267.1	293.1	304.5	294.5	311.8	1938.5	2078.7	3007.5	2964.8
75°	197.7	200.3	225.0	259.8	265.1	233.7	255.7	1015.6	1115.1	2204.9	2593.5
77.5°	162.3	164.3	186.3	210.3	243.7	179.6	207.7	382.6	474.1	1362.2	1867.0
80°	111.5	116.9	140.9	162.9	186.3	162.9	155.6	219.0	231.7	661.1	954.2
82.5°	84.8	86.1	109.5	118.9	131.5	160.9	122.2	164.9	174.3	307.8	309.8
85°	58.8	57.4	77.5	82.8	91.5	101.5	102.2	120.2	124.2	177.6	130.2
87.5°	26.7	25.4	42.1	40.7	46.1	50.1	72.8	66.1	67.4	111.5	70.1
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°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
2.5°	1.3	1.3	1.3	2.0	2.0	2.0	1.3	0.7	0.7	0.7	0.7
5°	1.3	1.3	1.3	2.0	2.0	2.7	3.3	3.3	4.0	4.7	4.7
7.5°	3.3	2.7	2.7	2.7	4.0	6.0	16.0	69.4	121.5	128.2	130.2
10°	14.7	14.7	10.7	8.7	10.0	109.5	141.6	146.2	148.9	150.2	150.2
12.5°	182.3	203.7	190.3	102.2	110.2	136.2	151.6	154.9	158.9	193.0	199.7
15°	221.7	223.7	225.7	209.7	290.5	214.3	179.0	270.4	275.1	277.1	276.4
17.5°	336.5	342.6	316.5	281.8	308.5	319.2	260.4	285.1	289.8	293.8	293.8
20°	436.7	437.4	410.0	438.7	375.3	388.6	339.2	321.9	413.3	417.3	416.7
22.5°	538.2	546.2	452.1	468.1	493.5	412.0	428.7	382.0	402.0	402.0	401.3
25°	666.4	663.7	619.7	541.5	518.2	487.5	440.0	398.6	453.4	479.4	479.4
27.5°	789.9	751.9	645.7	623.0	594.3	511.5	434.7	457.4	444.7	448.1	447.4
30°	932.8	921.5	825.3	741.9	610.3	496.8	454.7	414.0	436.0	462.1	459.4
32.5°	1005.0	975.6	860.7	896.1	639.7	478.8	396.0	389.3	396.0	405.3	406.7
35°	1099.8	1051.7	938.9	945.5	644.4	420.0	352.6	348.6	385.3	402.7	404.7
37.5°	1222.0	1164.6	1069.7	967.6	605.0	370.6	312.5	334.5	347.2	355.2	352.6
40°	1378.9	1310.8	1240.0	973.6	538.9	319.9	290.5	308.5	320.5	322.5	322.5
42.5°	1571.2	1477.1	1415.0	970.2	452.7	293.1	275.8	289.8	305.2	303.8	302.5
45°	1798.3	1684.7	1557.9	947.5	368.6	278.5	268.4	277.8	289.1	284.5	282.5
47.5°	2043.3	1921.1	1684.1	901.5	313.8	267.8	264.4	264.4	277.1	275.8	275.1
50°	2291.7	2166.2	1816.3	830.7	283.8	258.4	251.1	259.8	274.4	271.8	270.4
52.5°	2537.5	2424.6	1919.1	732.5	265.1	250.4	245.7	257.1	270.4	267.8	267.1
55°	2763.8	2691.0	2029.3	654.4	245.7	236.4	245.7	255.1	265.8	263.1	263.1
57.5°	2997.5	2976.2	2166.8	592.3	229.7	225.7	243.1	251.7	260.4	259.1	259.1
60°	3231.9	3290.7	2293.1	526.2	217.0	213.0	237.7	247.7	255.1	254.4	254.4
62.5°	3458.3	3567.1	2392.5	448.7	205.0	203.0	231.0	242.4	248.4	249.7	249.7
63°	3495.0	3602.5	2407.2	426.0	202.3	201.7	229.7	241.1	246.4	248.4	248.4
65°	3563.1	3688.7	2430.6	350.6	191.0	194.3	222.4	236.4	239.7	244.4	243.1
67.5°	3501.7	3606.5	2361.2	270.4	177.0	183.6	211.0	226.4	229.7	236.4	233.0
70°	3364.1	3357.4	2126.1	220.4	166.3	172.3	198.3	215.0	216.4	223.0	216.4
72.5°	3105.0	2870.0	1675.4	187.0	155.6	160.9	185.0	201.0	201.7	204.3	197.7
75°	2595.5	2232.3	1007.0	161.6	142.2	146.2	170.3	183.6	185.6	181.6	178.3
77.5°	1772.2	1403.6	458.7	141.6	130.2	130.9	152.2	164.3	164.9	156.3	156.3
80°	852.7	657.7	191.0	126.9	118.2	115.5	133.6	142.9	142.2	132.2	128.2
82.5°	269.8	240.4	142.2	110.8	105.5	99.5	116.2	120.2	120.9	121.5	97.5
85°	107.5	111.5	110.2	91.5	88.8	75.5	92.8	98.2	96.2	80.8	68.8
87.5°	56.1	68.8	67.4	61.4	63.4	48.1	64.1	61.4	62.8	42.1	32.7
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)