

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: P266472

Luminaire Tested: **UTLD-AF24-80-D-U-T2U-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266472
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-AF24-80-D-U-T2U-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 7006.8 lumens
Efficiency: N/A
Efficacy: 84.4 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): 83
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

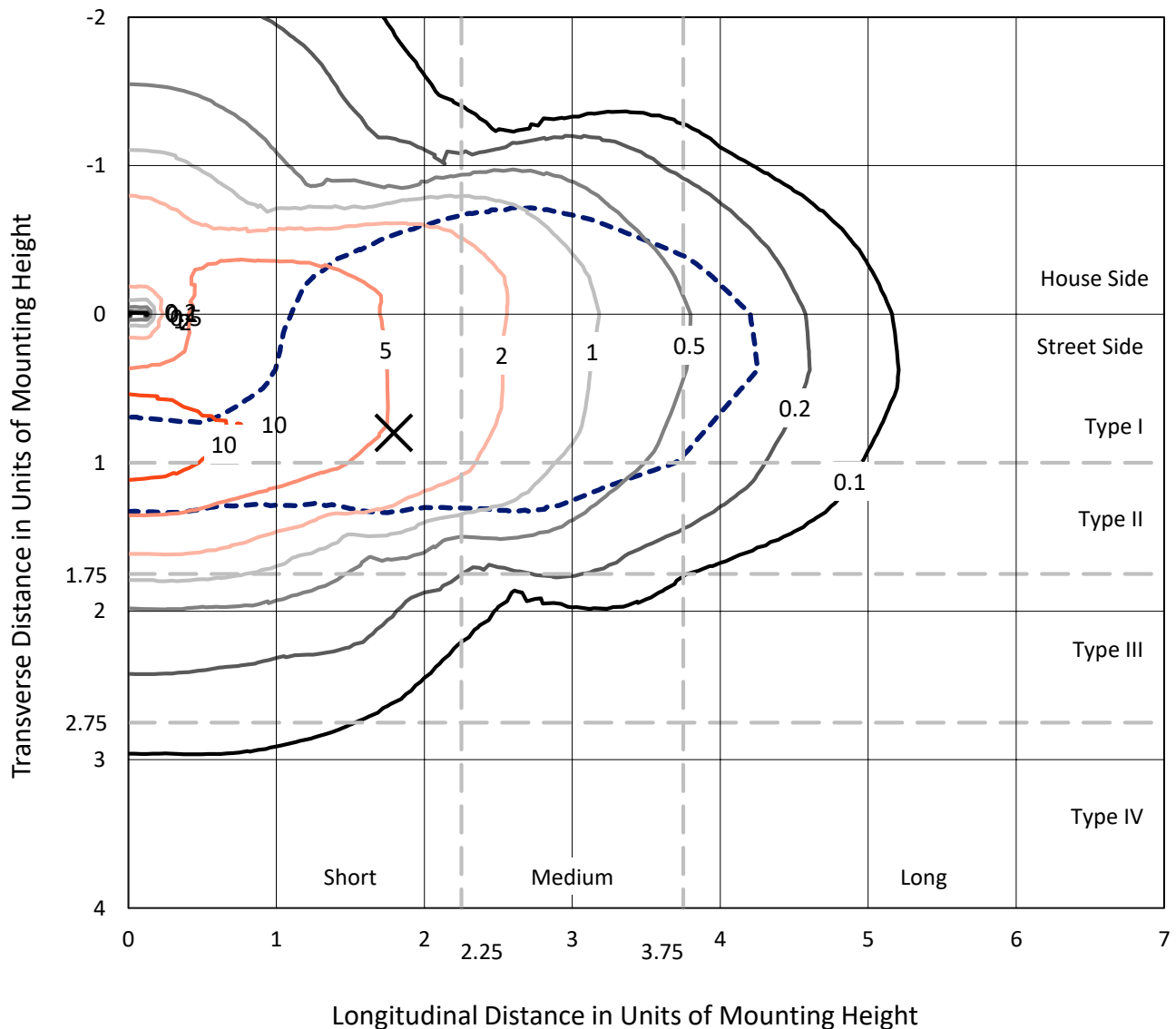


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

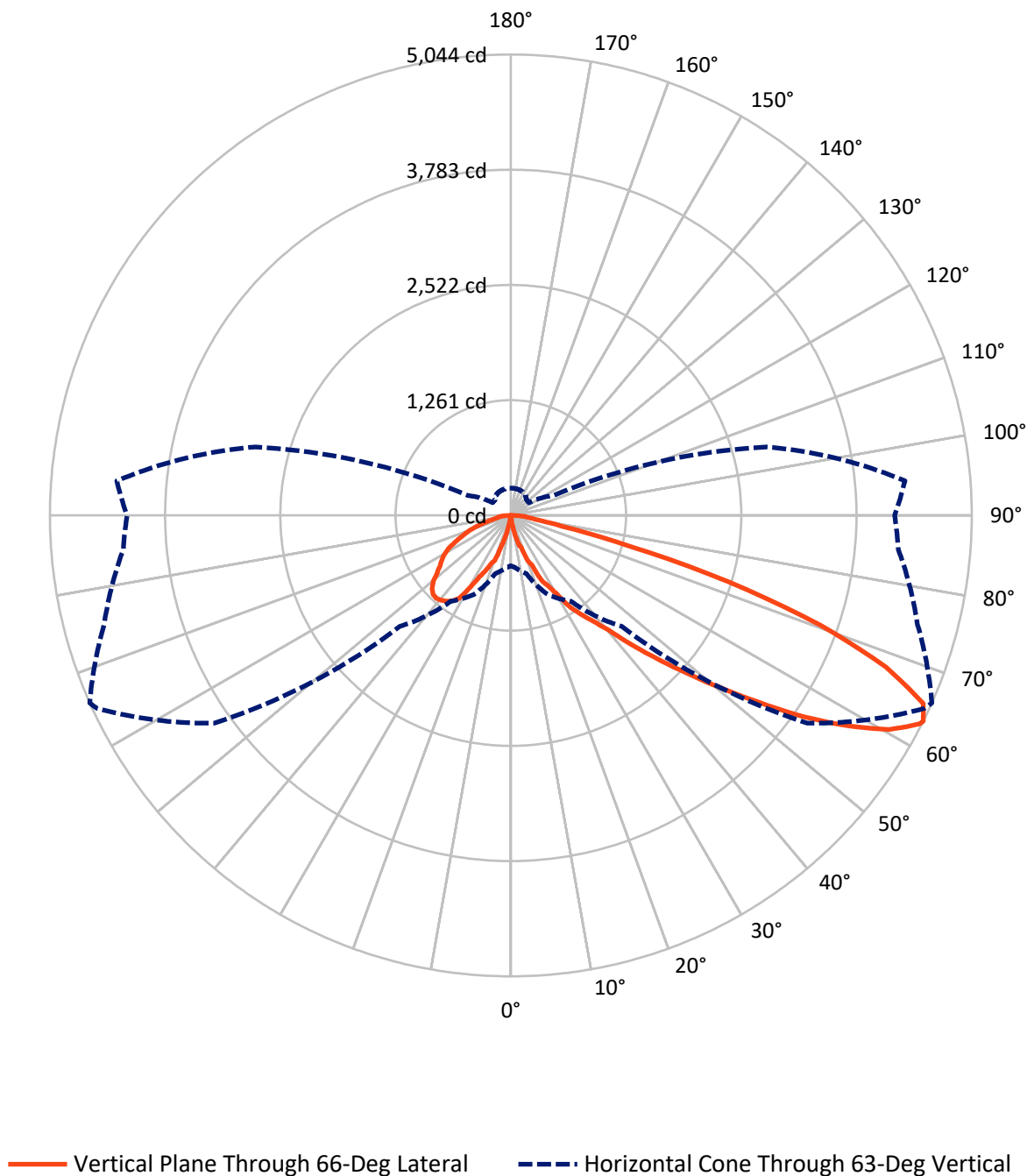


Based on 10 foot mounting height. Maximum calculated value = 14.5 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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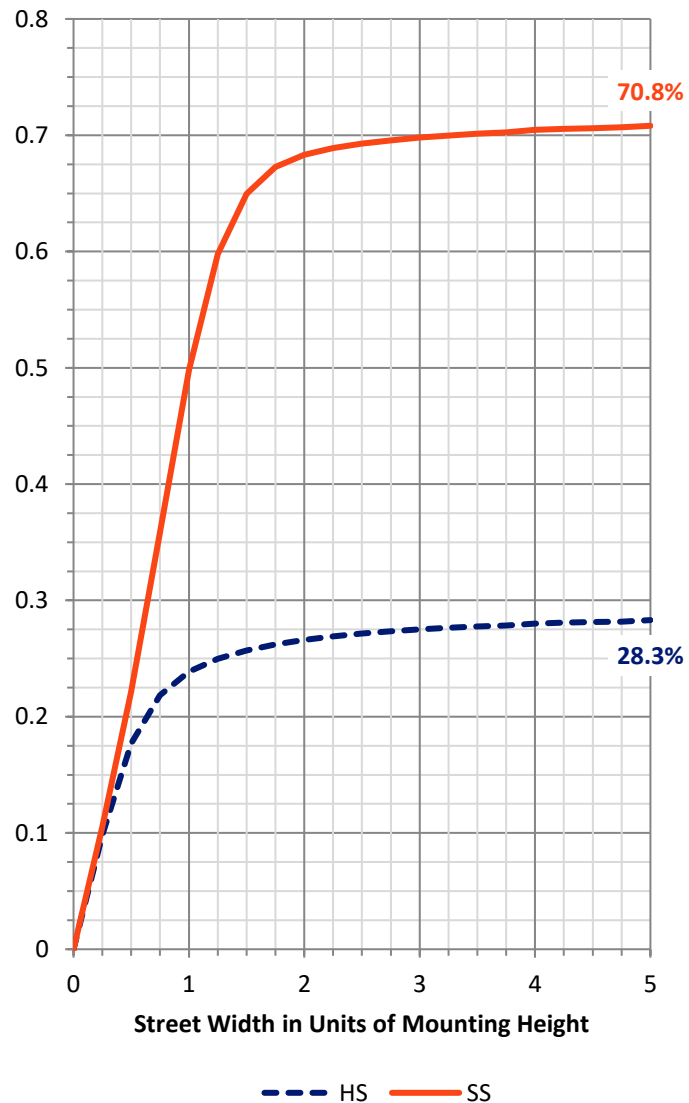
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2018.0	0.0	2018.0
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	4988.8	0.0	4988.8
	% Fixture	71.2	0.0	71.2
Total	Lumens	7006.8	0.0	7006.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	0.1
10°-20°	92.5	1.3
20°-30°	340.2	4.9
30°-40°	774.1	11.0
40°-50°	1394.0	19.9
50°-60°	1819.9	26.0
60°-70°	1616.9	23.1
70°-80°	821.3	11.7
80°-90°	141.1	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°	7006.8	100.0
0°-180°	7006.8	100.0

Coefficient of Utilization



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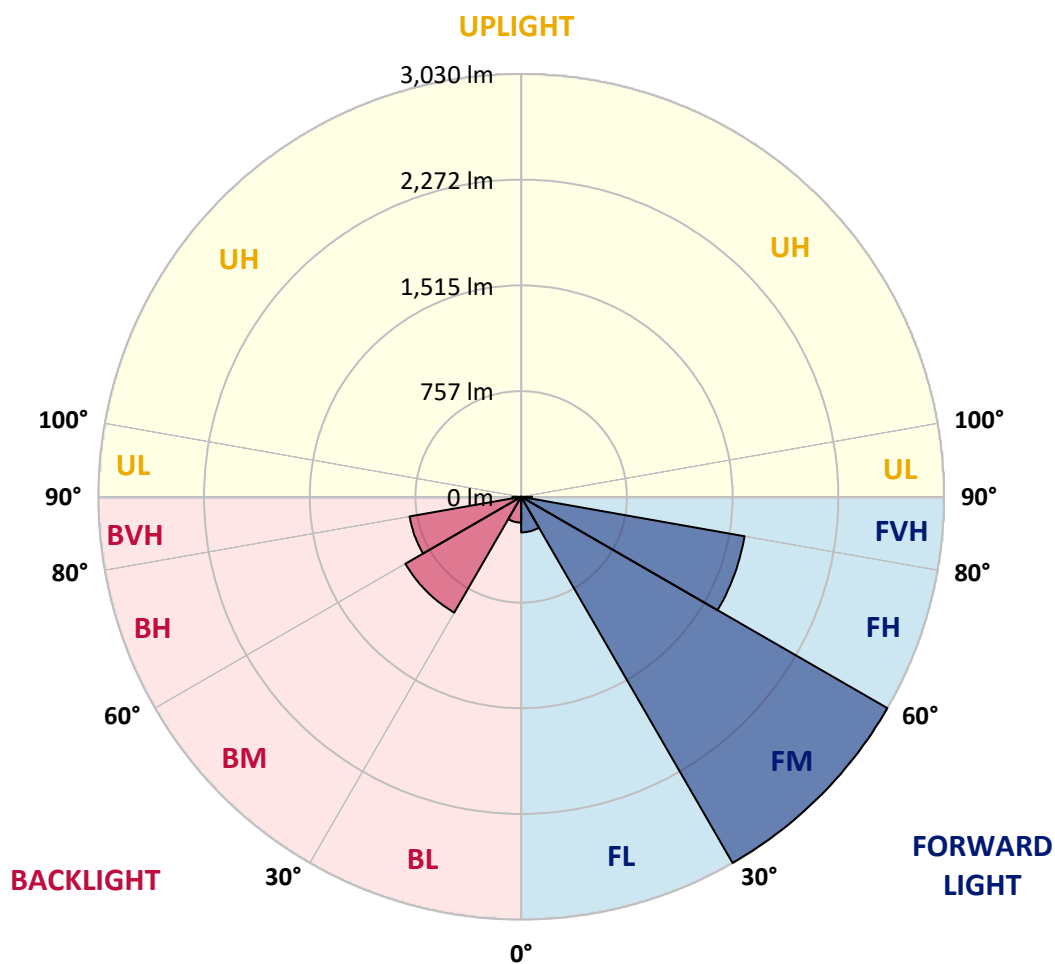
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	254.8	3.6			
FM	(30°-60°)	3029.8	43.2			
FH	(60°-80°)	1625.9	23.2			G1/1800
FVH	(80°-90°)	78.3	1.1			G1/100
BL	(0°-30°)	184.7	2.6	B1/500		
BM	(30°-60°)	958.2	13.7	B1/1000		
BH	(60°-80°)	812.3	11.6	B2/1000		G2/1000
BVH	(80°-90°)	62.8	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°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
2.5°	17.6	17.6	15.2	12.0	9.6	8.1	5.6	4.0	4.0	2.4	1.5
5°	162.1	162.1	161.2	160.4	158.9	152.4	28.0	8.9	8.1	4.0	2.4
7.5°	165.3	164.5	164.5	163.0	162.1	158.9	156.5	60.9	51.4	8.9	4.9
10°	296.1	294.5	292.0	197.4	166.8	163.0	162.1	127.6	126.8	27.3	20.0
12.5°	308.9	309.7	307.3	305.0	298.4	186.9	178.9	231.1	235.0	270.4	210.3
15°	352.2	347.5	329.8	318.5	312.9	293.7	334.6	333.8	335.3	316.9	240.7
17.5°	499.8	498.3	494.2	463.7	344.2	441.2	422.1	359.5	364.4	415.6	415.6
20°	564.0	563.2	548.9	531.9	590.5	475.8	453.4	527.9	531.9	537.6	497.5
22.5°	847.3	846.6	812.0	624.2	663.6	597.0	600.2	601.9	587.3	579.3	622.6
25°	982.9	976.5	957.2	901.1	787.2	795.2	656.3	789.6	796.0	791.1	781.5
27.5°	1386.5	1387.3	1226.8	1063.1	966.0	894.7	902.6	876.2	875.4	860.9	899.6
30°	1616.1	1604.8	1548.6	1389.8	1153.1	1057.6	1013.5	1030.3	1004.7	1095.3	1088.0
32.5°	2156.8	2156.8	1962.6	1612.8	1389.8	1311.2	1177.9	1182.8	1202.0	1189.1	1207.6
35°	2537.3	2501.2	2309.4	2025.3	1575.8	1473.9	1394.6	1324.8	1332.7	1310.3	1328.0
37.5°	2940.8	2904.7	2692.8	2328.5	1904.9	1723.6	1576.7	1490.1	1469.9	1471.7	1485.3
40°	3254.5	3234.4	3104.5	2702.6	2229.9	1989.9	1790.1	1672.3	1650.5	1689.8	1734.0
42.5°	3473.6	3465.5	3388.5	3033.8	2613.3	2393.5	2095.0	1924.2	1928.1	1949.1	1993.2
45°	3561.1	3542.6	3540.2	3243.3	2959.2	2848.5	2493.9	2211.4	2225.9	2282.9	2291.7
47.5°	3465.5	3427.0	3496.8	3329.9	3246.6	3253.8	2949.7	2582.1	2567.6	2622.2	2617.4
50°	3115.7	3102.8	3237.0	3263.4	3388.5	3554.7	3449.5	2995.4	2953.6	2958.5	2925.5
52.5°	2573.3	2604.5	2781.2	2965.7	3321.9	3717.5	3896.5	3431.9	3395.8	3293.8	3230.5
55°	2068.5	2106.3	2297.2	2441.0	2984.1	3706.2	4223.0	3868.5	3888.5	3626.8	3508.9
57.5°	1514.2	1563.1	1816.6	1937.9	2444.8	3435.8	4389.1	4293.5	4342.5	3955.9	3773.7
60°	967.7	986.2	1242.0	1482.8	1779.0	2799.6	4373.0	4699.7	4758.2	4310.4	4020.1
62.5°	604.2	624.2	707.8	1043.9	1258.2	1897.7	4063.4	4969.2	5023.1	4564.8	4225.4
63°	550.4	573.7	659.5	954.1	1146.6	1717.1	3960.6	4996.6	5043.9	4607.3	4255.9
65°	410.0	419.7	464.7	643.5	841.7	1078.4	3243.3	4901.1	4960.4	4643.5	4267.9
67.5°	357.9	361.8	377.9	424.4	601.9	627.5	1889.7	4390.7	4427.7	4507.1	4116.4
70°	327.4	329.8	358.7	361.8	471.8	445.3	693.3	3449.5	3589.1	4230.3	3852.3
72.5°	284.0	287.3	321.0	352.2	365.9	353.8	374.8	2329.3	2497.8	3614.1	3562.7
75°	237.5	240.7	270.4	312.2	318.5	280.8	307.3	1220.4	1340.0	2649.6	3116.5
77.5°	195.0	197.4	223.9	252.8	292.8	215.9	249.5	459.8	569.7	1636.9	2243.4
80°	133.9	140.4	169.3	195.8	223.9	195.8	186.9	263.3	278.5	794.5	1146.6
82.5°	101.9	103.6	131.6	142.8	158.1	193.3	146.9	198.2	209.5	369.9	372.3
85°	70.5	69.0	93.1	99.5	110.0	122.0	122.8	144.4	149.3	213.4	156.5
87.5°	32.1	30.5	50.6	49.0	55.3	60.1	87.5	79.4	81.0	133.9	84.3
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°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
2.5°	1.5	1.5	1.5	2.4	2.4	2.4	1.5	0.8	0.8	0.8	0.8
5°	1.5	1.5	1.5	2.4	2.4	3.2	4.0	4.0	4.9	5.6	5.6
7.5°	4.0	3.2	3.2	3.2	4.9	7.2	19.3	83.5	146.1	154.1	156.5
10°	17.6	17.6	12.8	10.4	12.0	131.6	170.0	175.7	178.9	180.5	180.5
12.5°	219.0	244.7	228.7	122.8	132.4	163.8	182.1	186.2	191.0	231.9	239.8
15°	266.3	268.9	271.2	252.0	349.0	257.5	215.1	324.9	330.5	333.0	332.3
17.5°	404.3	411.7	380.3	338.7	370.7	383.5	312.9	342.7	348.3	353.0	353.0
20°	524.8	525.6	492.7	527.1	450.9	466.9	407.7	386.8	496.8	501.6	500.6
22.5°	646.7	656.3	543.3	562.5	593.1	495.1	515.2	458.9	483.1	483.1	482.2
25°	800.7	797.5	744.7	650.7	622.6	585.8	528.8	479.1	544.8	576.2	576.2
27.5°	949.1	903.4	776.0	748.6	714.2	614.6	522.4	549.7	534.4	538.4	537.6
30°	1120.9	1107.3	991.8	891.5	733.3	597.0	546.3	497.5	524.0	555.2	552.1
32.5°	1207.6	1172.3	1034.3	1076.8	768.7	575.4	475.8	467.7	475.8	487.1	488.7
35°	1321.5	1263.7	1128.2	1136.1	774.2	504.7	423.7	418.9	462.9	483.8	486.3
37.5°	1468.4	1399.4	1285.5	1162.6	727.0	445.3	375.5	402.0	417.3	426.9	423.7
40°	1657.0	1575.1	1490.1	1170.0	647.6	384.4	349.0	370.7	385.2	387.6	387.6
42.5°	1888.1	1775.0	1700.3	1165.9	544.1	352.2	331.4	348.3	366.7	365.2	363.5
45°	2160.9	2024.4	1872.0	1138.6	443.0	334.6	322.6	333.8	347.5	341.9	339.4
47.5°	2455.3	2308.6	2023.6	1083.3	377.1	321.8	317.7	317.7	333.0	331.4	330.5
50°	2753.8	2603.0	2182.5	998.1	341.0	310.5	301.7	312.2	329.8	326.5	324.9
52.5°	3049.0	2913.6	2306.0	880.2	318.5	300.9	295.4	308.9	324.9	321.8	321.0
55°	3321.2	3233.7	2438.4	786.3	295.4	284.0	295.4	306.5	319.3	316.2	316.2
57.5°	3601.9	3576.3	2603.7	711.7	276.0	271.2	292.0	302.5	312.9	311.4	311.4
60°	3883.6	3954.2	2755.5	632.2	260.8	255.9	285.7	297.7	306.5	305.8	305.8
62.5°	4155.6	4286.4	2874.9	539.3	246.3	243.9	277.7	291.3	298.4	300.2	300.2
63°	4199.8	4328.9	2892.6	511.9	243.1	242.4	276.0	289.7	296.1	298.4	298.4
65°	4281.6	4432.4	2920.7	421.2	229.4	233.5	267.2	284.0	288.0	293.7	292.0
67.5°	4207.8	4333.8	2837.2	324.9	212.5	220.7	253.5	271.9	276.0	284.0	280.0
70°	4042.6	4034.5	2554.8	264.8	199.9	207.0	238.3	258.4	260.0	268.1	260.0
72.5°	3731.2	3448.8	2013.2	224.7	186.9	193.3	222.3	241.6	242.4	245.5	237.5
75°	3118.9	2682.3	1209.9	194.2	170.9	175.7	204.6	220.7	223.0	218.3	214.2
77.5°	2129.5	1686.7	551.2	170.0	156.5	157.3	183.0	197.4	198.2	187.7	187.7
80°	1024.6	790.4	229.4	152.4	142.0	138.8	160.4	171.8	170.9	158.9	154.1
82.5°	324.2	288.9	170.9	133.2	126.8	119.6	139.6	144.4	145.3	146.1	117.1
85°	129.1	133.9	132.4	110.0	106.7	90.6	111.5	117.9	115.5	97.0	82.6
87.5°	67.5	82.6	81.0	73.8	76.3	57.9	77.1	73.8	75.4	50.6	39.3
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)