

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: P239835

Luminaire Tested: **UTLD-AF24-70-D-U-5WQ-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-14)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-70-D-U-5WQ-A
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6332.9 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U4 - G2

Input Watts (W): 74
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

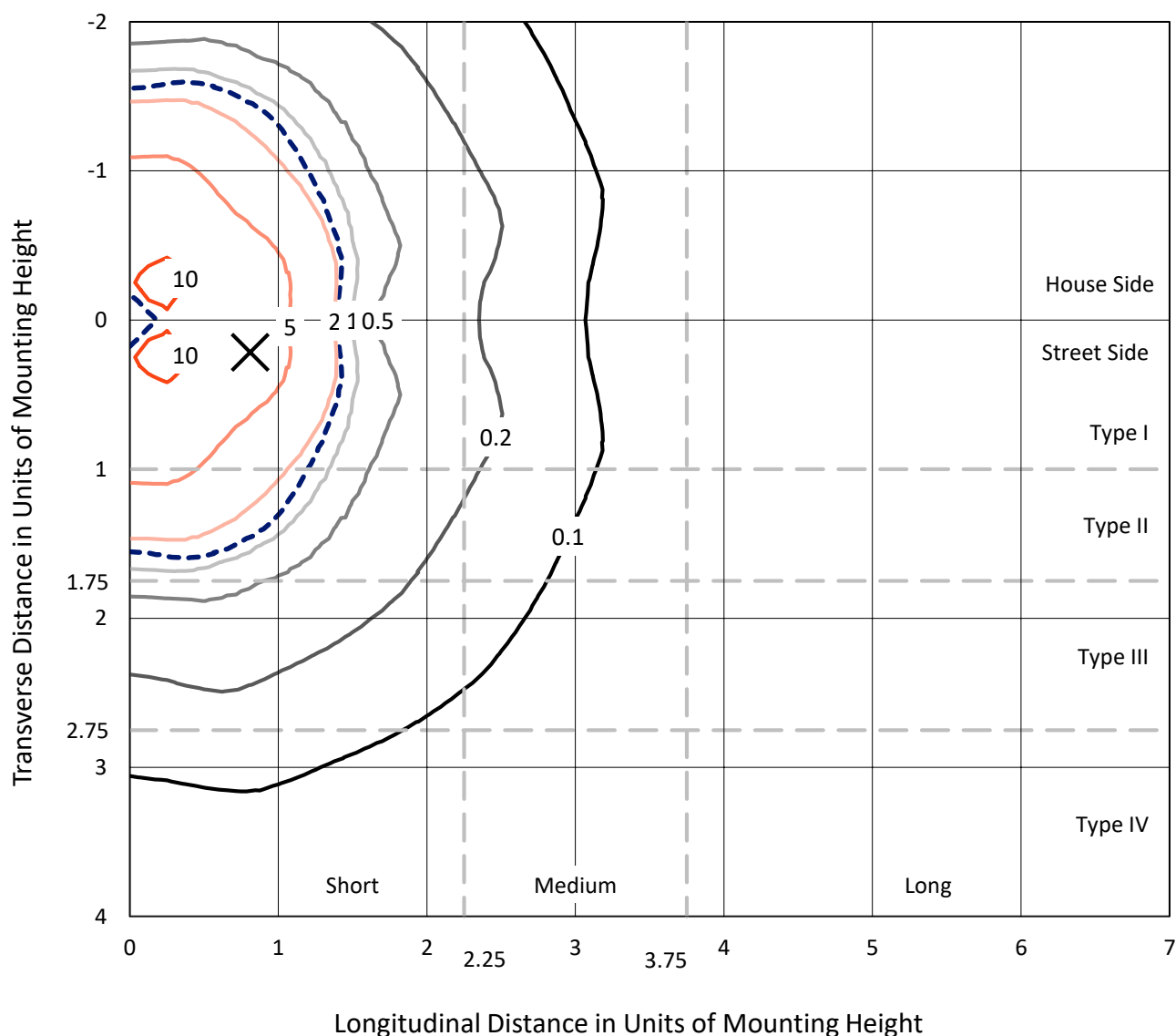


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

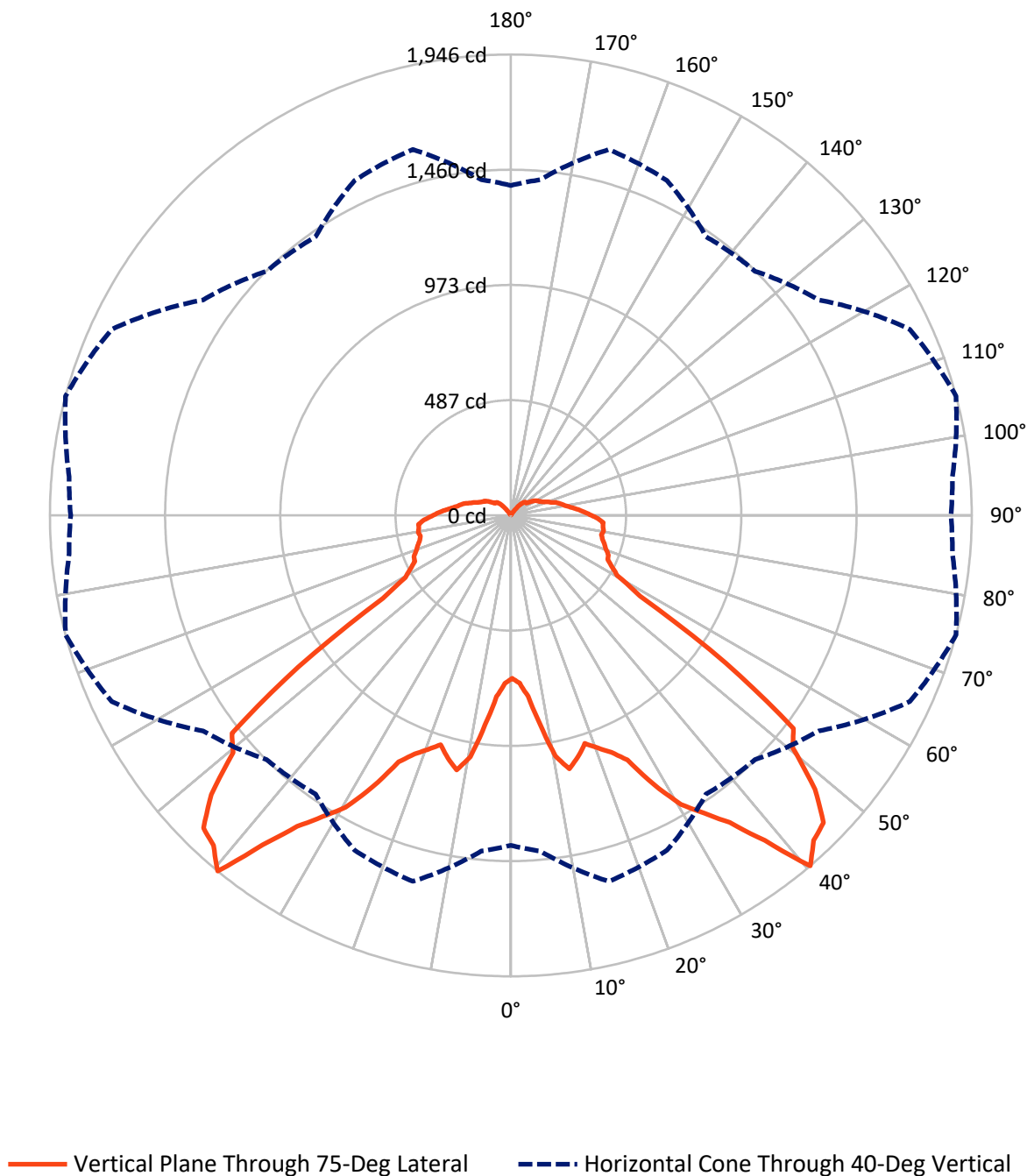


Based on 10 foot mounting height. Maximum calculated value = 11.5 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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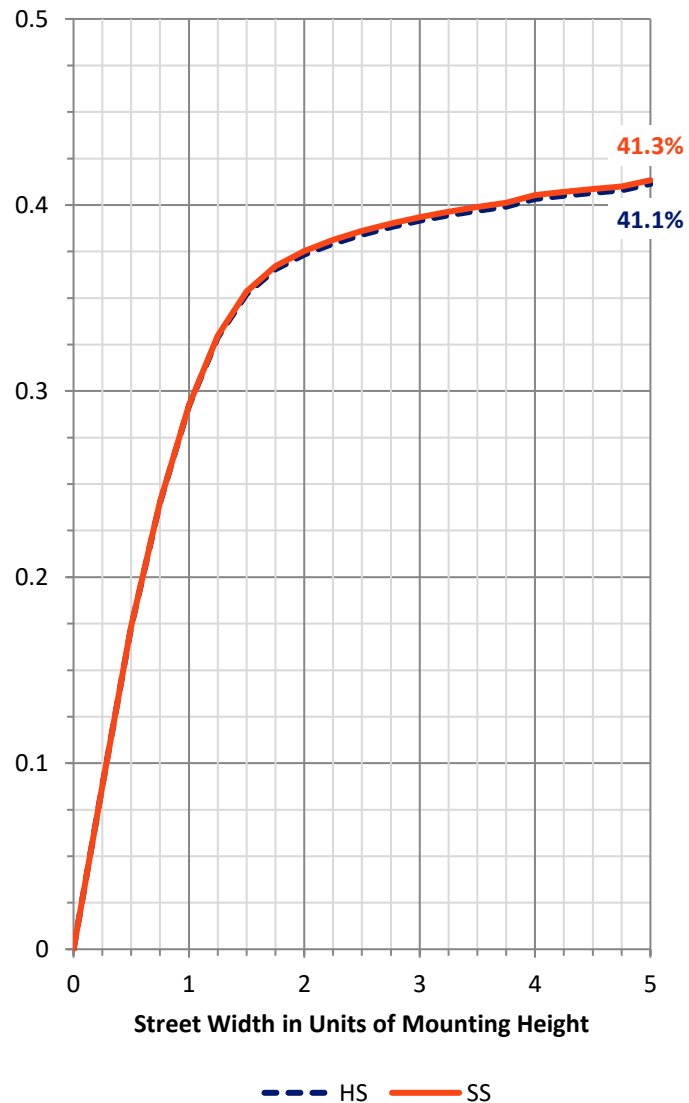
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2737.5	429.0	3166.5
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	2737.5	429.0	3166.5
	% Fixture	43.2	6.8	50.0
Total	Lumens	5474.9	858.0	6332.9
	% Fixture	86.5	13.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	1.3
10°-20°	329.9	5.2
20°-30°	589.2	9.3
30°-40°	932.8	14.7
40°-50°	1251.6	19.8
50°-60°	996.2	15.7
60°-70°	457.2	7.2
70°-80°	416.8	6.6
80°-90°	419.9	6.6
90°-100°	322.9	5.1
100°-110°	225.4	3.6
110°-120°	148.9	2.4
120°-130°	93.1	1.5
130°-140°	54.5	0.9
140°-150°	12.4	0.2
150°-160°	0.7	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	5474.9	86.5
0°-180°	6332.9	100.0

Coefficient of Utilization



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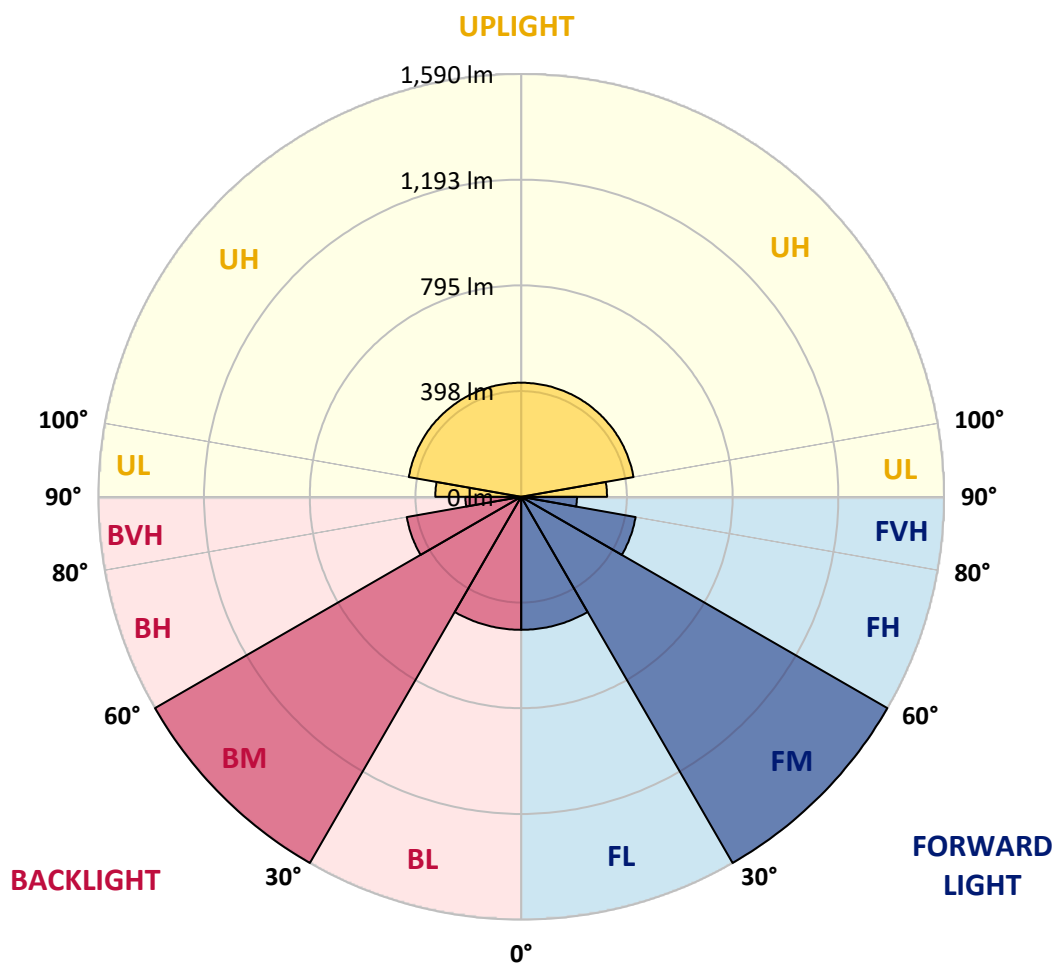
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	500.2	7.9			
FM	(30°-60°)	1590.3	25.1			
FH	(60°-80°)	437.0	6.9			G0/660
FVH	(80°-90°)	210.0	3.3			G2/225
BL	(0°-30°)	500.2	7.9	B2/1000		
BM	(30°-60°)	1590.3	25.1	B2/2500		
BH	(60°-80°)	437.0	6.9	B1/500		G0/660
BVH	(80°-90°)	210.0	3.3			G2/225
UL	(90°-100°)	322.9	5.1		U3/500	
UH	(100°-180°)	429.0	6.8		U3/500	

BUG Rating: B2-U4-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1
2.5°	706.7	706.7	706.7	705.0	706.7	708.4	710.1	710.1	709.2	706.7	705.0
5°	756.5	756.5	755.6	757.3	757.3	753.9	755.6	761.5	767.4	763.2	761.5
7.5°	877.0	874.5	868.6	863.6	857.6	857.6	870.3	877.9	891.4	893.1	888.9
10°	998.5	1001.9	1005.2	1005.2	1019.6	1035.6	1046.5	1043.2	1033.1	1025.5	1020.4
12.5°	1033.9	1036.4	1065.9	1140.2	1195.0	1239.7	1201.7	1144.4	1098.8	1069.3	1065.9
15°	1060.9	1067.6	1104.7	1197.5	1335.0	1372.1	1293.6	1147.7	1059.2	1017.0	1007.8
17.5°	1087.9	1095.5	1157.9	1292.0	1400.7	1391.5	1297.0	1141.0	1012.0	956.3	949.6
20°	1064.3	1072.7	1160.4	1340.0	1419.3	1374.6	1341.7	1195.0	1048.2	984.1	976.6
22.5°	1073.5	1082.0	1170.5	1345.1	1394.0	1396.5	1345.9	1258.2	1086.2	1012.8	1001.0
25°	1090.4	1097.1	1206.8	1383.0	1383.9	1377.1	1351.8	1303.8	1143.5	1073.5	1063.4
27.5°	1090.4	1096.3	1219.4	1367.0	1376.3	1361.1	1393.2	1410.9	1287.7	1225.3	1227.9
30°	1139.3	1142.7	1270.0	1365.3	1344.2	1356.0	1446.3	1500.3	1415.9	1315.6	1314.7
32.5°	1234.6	1250.6	1384.7	1423.5	1340.9	1351.8	1459.8	1554.2	1499.4	1378.8	1365.3
35°	1356.9	1361.1	1484.2	1474.1	1365.3	1359.4	1491.8	1639.4	1593.0	1474.1	1469.9
37.5°	1396.5	1402.4	1549.2	1522.2	1394.8	1399.9	1544.9	1743.1	1741.4	1646.1	1615.8
40°	1393.2	1422.7	1599.8	1560.1	1437.0	1458.1	1586.3	1859.5	1946.4	1872.2	1858.7
42.5°	1644.5	1659.6	1763.4	1620.0	1475.8	1475.8	1603.1	1836.7	1875.5	1733.8	1706.0
45°	1670.6	1669.8	1783.6	1668.9	1485.9	1451.3	1543.3	1749.9	1851.1	1757.5	1716.1
47.5°	1616.6	1637.7	1779.4	1641.1	1467.4	1382.2	1440.4	1650.4	1728.8	1584.6	1551.7
50°	1558.4	1574.5	1682.4	1513.7	1375.4	1314.7	1358.6	1510.4	1541.6	1367.9	1342.6
52.5°	1399.1	1400.7	1528.9	1395.7	1295.3	1232.9	1268.3	1409.2	1494.3	1328.2	1310.5
55°	1185.7	1208.5	1371.2	1288.6	1200.9	1146.9	1153.6	1177.3	1102.2	853.4	795.2
57.5°	906.6	936.1	1125.8	1130.0	1062.6	976.6	882.1	747.2	643.4	413.2	397.2
60°	617.3	642.6	786.0	821.4	848.4	749.7	610.6	533.0	516.9	358.4	346.6
62.5°	382.0	403.1	537.2	549.8	608.9	547.3	484.1	460.4	479.0	342.4	334.0
65°	353.3	367.7	466.4	447.8	462.1	458.8	430.9	426.7	449.5	334.0	328.0
67.5°	341.5	353.3	431.8	418.3	424.2	429.2	409.8	413.2	444.4	340.7	334.0
70°	335.6	348.3	420.8	411.5	417.4	422.5	410.7	405.6	425.9	343.2	334.0
72.5°	331.4	344.9	403.9	398.0	414.1	427.6	415.8	404.8	413.2	344.9	335.6
75°	323.8	337.3	388.8	392.1	416.6	432.6	417.4	400.6	399.7	341.5	330.6
77.5°	322.1	337.3	372.7	393.8	417.4	438.5	426.7	402.3	391.3	343.2	329.7
80°	319.6	336.5	380.3	407.3	424.2	435.1	430.1	413.2	397.2	355.9	341.5
82.5°	334.0	349.1	387.1	417.4	422.5	420.8	420.8	409.8	392.1	356.7	343.2
85°	351.7	363.5	403.1	420.8	416.6	405.6	400.6	399.7	391.3	366.0	355.0
87.5°	348.3	356.7	383.7	400.6	402.3	380.3	381.2	376.1	366.8	341.5	332.3
90°	325.5	331.4	361.8	379.5	368.5	350.8	343.2	333.1	334.0	311.2	304.4
92.5°	310.3	317.1	339.0	349.1	347.4	317.9	312.9	312.0	307.0	287.6	283.4
95°	290.1	294.3	312.9	326.4	317.9	287.6	282.5	278.3	279.1	271.5	272.4
97.5°	285.0	288.4	301.9	299.4	285.0	258.9	255.5	253.8	253.0	248.8	247.9
100°	274.1	274.1	278.3	270.7	253.8	234.4	229.4	230.2	231.1	226.0	224.3
102.5°	255.5	256.4	258.1	251.3	235.3	215.0	210.0	214.2	215.9	214.2	213.4
105°	242.0	241.2	242.0	234.4	216.7	199.0	193.1	197.3	201.6	202.4	200.7
107.5°	221.8	220.9	220.9	213.4	199.9	185.5	180.5	177.9	177.9	177.9	177.9
110°	192.3	193.1	193.1	189.7	183.0	174.6	167.8	162.8	164.4	163.6	165.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	178.8	178.8	177.1	174.6	167.8	159.4	151.8	148.4	146.7	145.9	146.7
115°	164.4	165.3	160.2	158.5	151.8	146.7	139.1	136.6	136.6	139.1	140.8
117.5°	151.8	151.8	148.4	144.2	138.3	134.1	130.7	129.0	129.0	132.4	132.4
120°	137.5	137.5	134.1	129.0	126.5	120.6	121.4	120.6	123.1	127.3	128.2
122.5°	121.4	121.4	118.1	113.8	115.5	111.3	109.6	106.3	111.3	116.4	117.2
125°	107.9	107.1	103.7	98.7	105.4	105.4	101.2	90.2	97.0	101.2	102.0
127.5°	98.7	97.8	93.6	88.5	97.0	102.0	92.8	81.8	85.2	89.4	91.1
130°	93.6	92.8	88.5	82.6	85.2	97.0	83.5	78.4	82.6	86.9	86.9
132.5°	90.2	89.4	86.0	80.1	75.9	88.5	75.1	76.7	82.6	86.9	86.9
135°	83.5	83.5	79.3	70.8	60.7	64.9	60.7	69.2	75.9	79.3	80.1
137.5°	71.7	71.7	68.3	60.7	48.9	46.4	48.1	59.0	66.6	70.0	70.0
140°	56.5	55.7	52.3	45.5	32.0	21.9	31.2	44.7	52.3	55.7	55.7
142.5°	39.6	38.8	34.6	27.8	16.9	7.6	16.9	27.0	34.6	37.9	38.8
145°	25.3	25.3	21.9	16.9	8.4	2.5	6.7	16.0	21.1	24.5	24.5
147.5°	16.0	16.0	13.5	9.3	2.5	1.7	2.5	7.6	12.6	15.2	16.0
150°	9.3	9.3	6.7	3.4	1.7	0.8	1.7	2.5	5.1	7.6	7.6
152.5°	3.4	2.5	1.7	1.7	0.8	0.8	0.8	1.7	1.7	2.5	2.5
155°	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
162.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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)