

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: P266528

Luminaire Tested: **UTLD-AF24-100-D-U-5WQ-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-14)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-100-D-U-5WQ-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1200mA 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: 6524.9 lumens
Efficiency: N/A
Efficacy: 68.0 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): 96
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

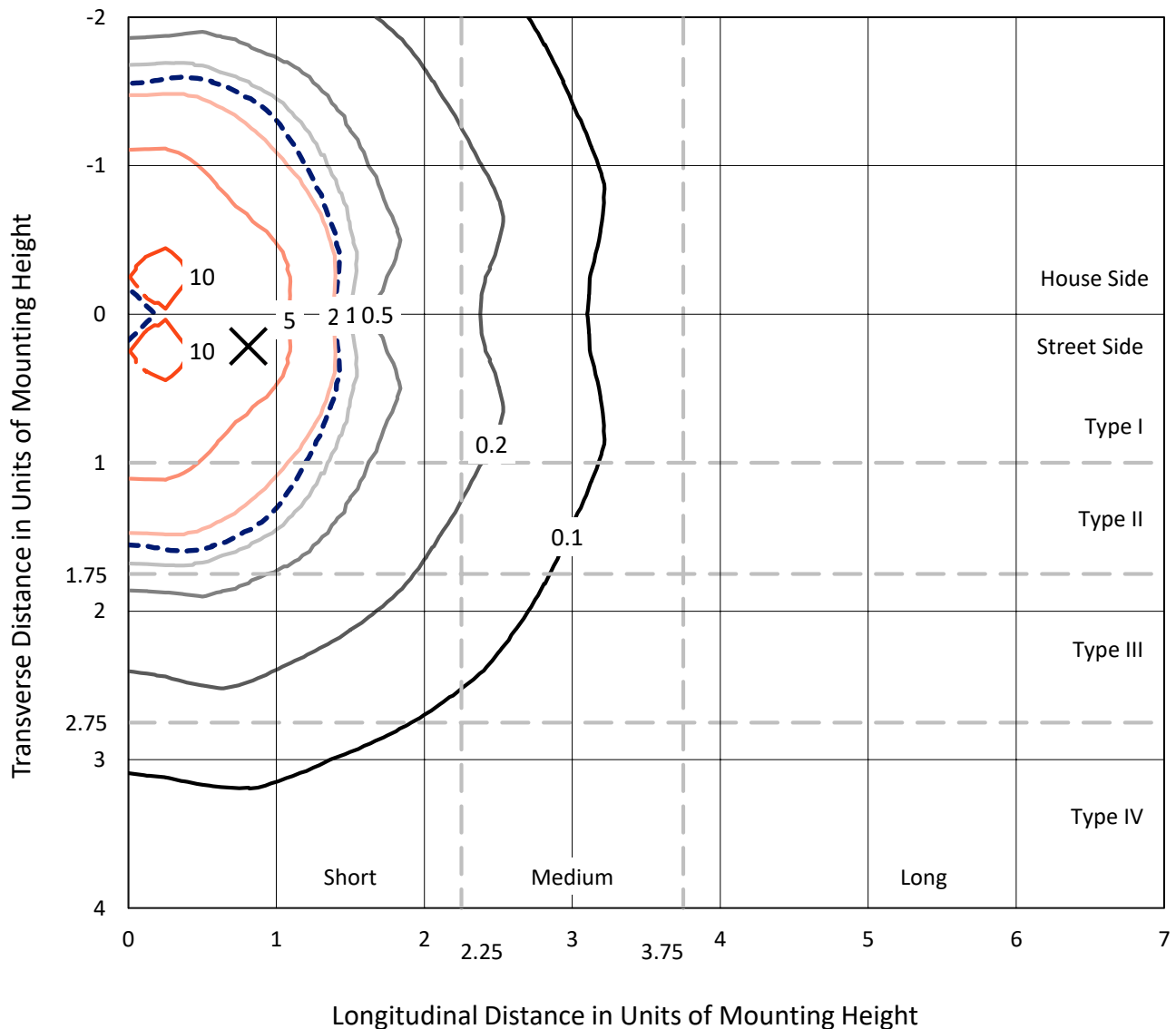


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

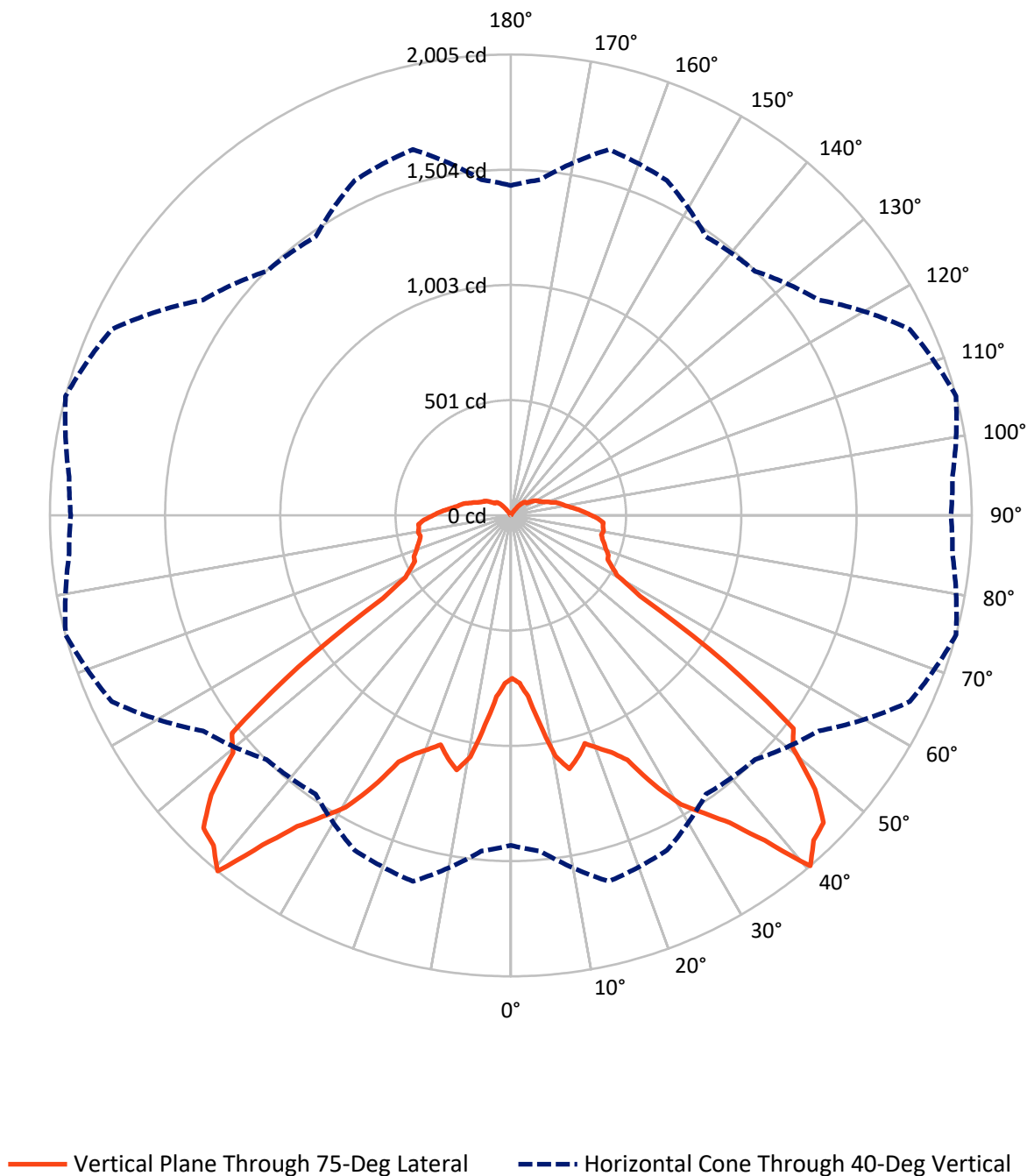


Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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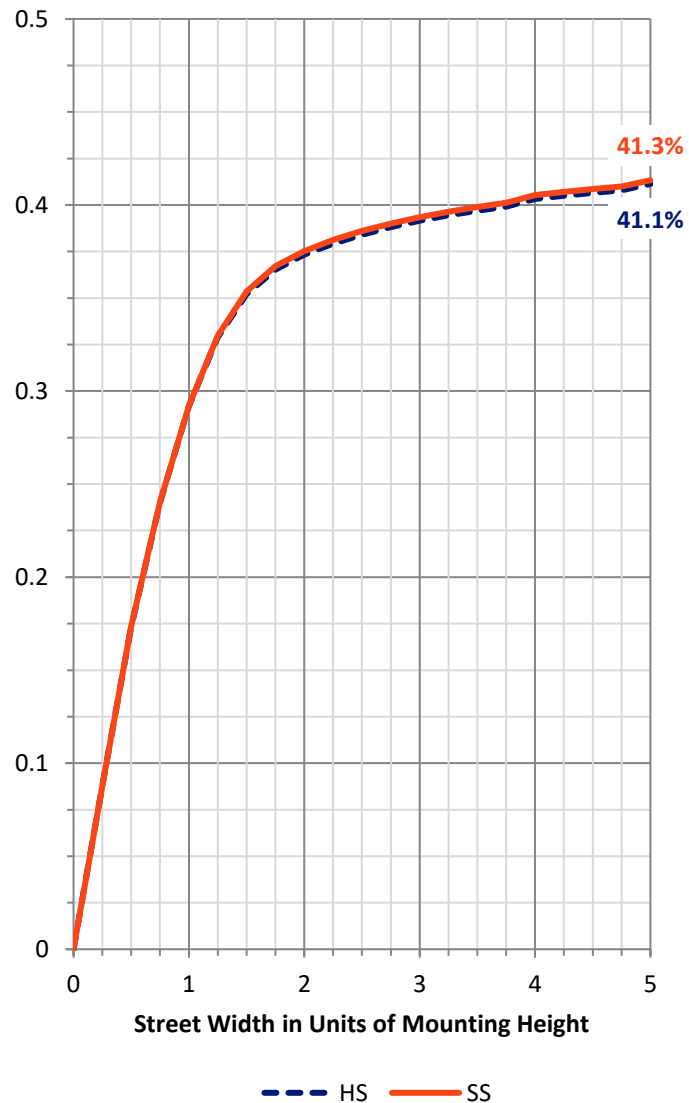
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2820.4	442.0	3262.5
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	2820.4	442.0	3262.5
	% Fixture	43.2	6.8	50.0
Total	Lumens	5640.8	884.1	6524.9
	% Fixture	86.5	13.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	1.3
10°-20°	339.9	5.2
20°-30°	607.1	9.3
30°-40°	961.1	14.7
40°-50°	1289.6	19.8
50°-60°	1026.4	15.7
60°-70°	471.1	7.2
70°-80°	429.4	6.6
80°-90°	432.6	6.6
90°-100°	332.7	5.1
100°-110°	232.3	3.6
110°-120°	153.4	2.4
120°-130°	96.0	1.5
130°-140°	56.1	0.9
140°-150°	12.7	0.2
150°-160°	0.8	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	5640.8	86.5
0°-180°	6524.9	100.0

Coefficient of Utilization



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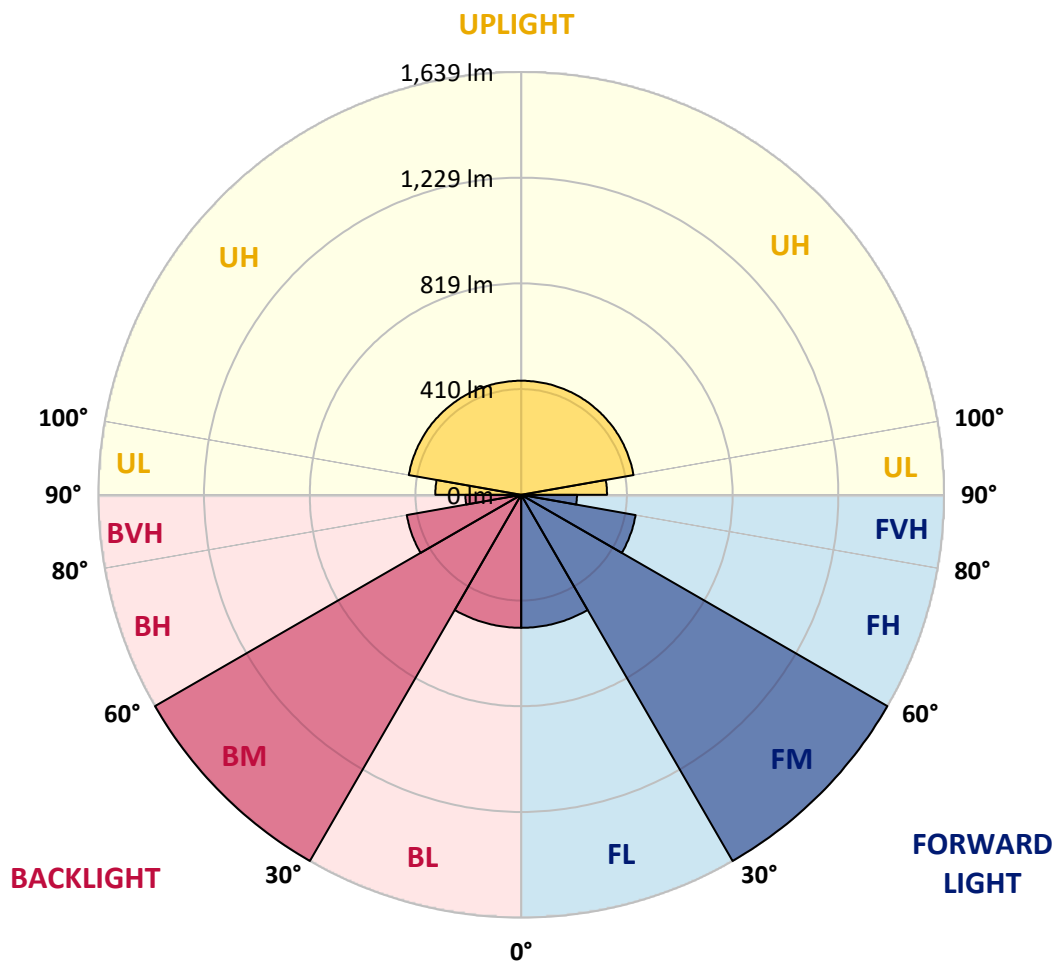
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	515.3	7.9			
FM	(30°-60°)	1638.5	25.1			
FH	(60°-80°)	450.3	6.9			G0/660
FVH	(80°-90°)	216.3	3.3			G2/225
BL	(0°-30°)	515.3	7.9	B2/1000		
BM	(30°-60°)	1638.5	25.1	B2/2500		
BH	(60°-80°)	450.3	6.9	B1/500		G0/660
BVH	(80°-90°)	216.3	3.3			G2/225
UL	(90°-100°)	332.7	5.1		U3/500	
UH	(100°-180°)	442.0	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°	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0	709.0
2.5°	728.0	728.0	728.0	726.4	728.0	729.9	731.6	731.6	730.7	728.0	726.4
5°	779.4	779.4	778.6	780.3	780.3	776.8	778.6	784.6	790.7	786.3	784.6
7.5°	903.7	901.0	894.9	889.7	883.7	883.7	896.7	904.6	918.3	920.1	915.8
10°	1028.6	1032.2	1035.7	1035.7	1050.5	1066.9	1078.2	1074.8	1064.3	1056.5	1051.3
12.5°	1065.2	1067.8	1098.3	1174.8	1231.1	1277.2	1238.1	1179.0	1132.1	1101.7	1098.3
15°	1093.1	1100.0	1138.2	1233.8	1375.5	1413.7	1332.8	1182.4	1091.4	1047.9	1038.4
17.5°	1120.8	1128.6	1192.9	1331.1	1443.1	1433.7	1336.3	1175.6	1042.7	985.4	978.3
20°	1096.6	1105.2	1195.6	1380.7	1462.4	1416.3	1382.3	1231.1	1080.0	1013.9	1006.1
22.5°	1106.1	1114.7	1206.0	1385.8	1436.2	1438.8	1386.8	1296.3	1119.1	1043.6	1031.3
25°	1123.4	1130.3	1243.3	1424.9	1425.8	1418.9	1392.8	1343.2	1178.1	1106.1	1095.7
27.5°	1123.4	1129.4	1256.4	1408.5	1418.0	1402.3	1435.3	1453.5	1326.7	1262.5	1265.1
30°	1173.8	1177.3	1308.6	1406.7	1384.9	1397.1	1490.1	1545.8	1458.8	1355.5	1354.6
32.5°	1272.0	1288.4	1426.7	1466.7	1381.6	1392.8	1504.0	1601.3	1544.8	1420.6	1406.7
35°	1398.0	1402.3	1529.3	1518.8	1406.7	1400.5	1537.0	1689.1	1641.4	1518.8	1514.5
37.5°	1438.8	1445.0	1596.1	1568.4	1437.1	1442.3	1591.7	1795.9	1794.3	1696.0	1664.7
40°	1435.3	1465.8	1648.2	1607.3	1480.5	1502.2	1634.3	1915.8	2005.3	1928.9	1914.9
42.5°	1694.4	1710.0	1816.8	1669.1	1520.6	1520.6	1651.8	1892.4	1932.3	1786.4	1757.8
45°	1721.2	1720.3	1837.7	1719.4	1530.9	1495.3	1590.0	1802.9	1907.1	1810.8	1768.1
47.5°	1665.5	1687.3	1833.4	1690.8	1511.8	1424.1	1484.0	1700.3	1781.2	1632.6	1598.8
50°	1605.7	1622.2	1733.4	1559.5	1417.2	1354.6	1399.6	1556.1	1588.4	1409.4	1383.2
52.5°	1441.4	1443.1	1575.3	1437.9	1334.6	1270.3	1306.8	1451.9	1539.7	1368.5	1350.2
55°	1221.7	1245.1	1412.8	1327.7	1237.2	1181.6	1188.5	1212.9	1135.5	879.4	819.3
57.5°	934.1	964.4	1159.9	1164.3	1094.8	1006.1	908.8	769.8	662.9	425.7	409.3
60°	636.0	662.1	809.8	846.3	874.1	772.5	629.1	549.1	532.6	369.3	357.0
62.5°	393.5	415.3	553.4	566.6	627.3	563.9	498.6	474.5	493.4	352.8	344.1
65°	364.1	378.8	480.5	461.4	476.1	472.7	444.0	439.6	463.0	344.1	338.0
67.5°	351.9	364.1	444.9	430.9	437.0	442.2	422.3	425.7	457.9	351.0	344.1
70°	345.8	358.9	433.5	424.0	430.1	435.3	423.1	417.9	438.8	353.7	344.1
72.5°	341.4	355.4	416.2	410.0	426.6	440.4	428.3	417.1	425.7	355.4	345.8
75°	333.6	347.6	400.6	404.0	429.2	445.6	430.1	412.7	411.9	351.9	340.5
77.5°	332.0	347.6	384.0	405.8	430.1	451.8	439.6	414.5	403.2	353.7	339.6
80°	329.3	346.7	391.9	419.7	437.0	448.3	443.1	425.7	409.3	366.7	351.9
82.5°	344.1	359.7	398.8	430.1	435.3	433.5	433.5	422.3	404.0	367.5	353.7
85°	362.3	374.5	415.3	433.5	429.2	417.9	412.7	411.9	403.2	377.1	365.8
87.5°	358.9	367.5	395.3	412.7	414.5	391.9	392.6	387.4	377.9	351.9	342.3
90°	335.3	341.4	372.7	391.0	379.8	361.5	353.7	343.2	344.1	320.6	313.7
92.5°	319.7	326.8	349.4	359.7	358.0	327.5	322.3	321.5	316.3	296.4	291.9
95°	298.9	303.3	322.3	336.2	327.5	296.4	291.1	286.6	287.5	279.8	280.6
97.5°	293.7	297.2	311.1	308.5	293.7	266.7	263.3	261.5	260.7	256.3	255.5
100°	282.3	282.3	286.6	279.0	261.5	241.6	236.3	237.2	238.1	232.8	231.1
102.5°	263.3	264.1	265.9	258.9	242.5	221.5	216.3	220.8	222.4	220.8	219.8
105°	249.4	248.6	249.4	241.6	223.3	205.1	199.0	203.3	207.7	208.5	206.8
107.5°	228.4	227.6	227.6	219.8	205.9	191.2	185.9	183.3	183.3	183.3	183.3
110°	198.0	199.0	199.0	195.6	188.6	179.8	173.0	167.8	169.4	168.5	170.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	184.2	184.2	182.4	179.8	173.0	164.2	156.3	152.9	151.2	150.2	151.2
115°	169.4	170.3	165.1	163.3	156.3	151.2	143.4	140.8	140.8	143.4	145.0
117.5°	156.3	156.3	152.9	148.6	142.6	138.2	134.7	132.9	132.9	136.5	136.5
120°	141.7	141.7	138.2	132.9	130.3	124.2	125.1	124.2	126.8	131.2	132.1
122.5°	125.1	125.1	121.6	117.3	119.0	114.8	112.9	109.5	114.8	120.0	120.8
125°	111.2	110.3	106.9	101.7	108.7	108.7	104.3	93.0	99.9	104.3	105.1
127.5°	101.7	100.8	96.5	91.3	99.9	105.1	95.6	84.4	87.8	92.0	93.9
130°	96.5	95.6	91.3	85.2	87.8	99.9	86.0	80.8	85.2	89.6	89.6
132.5°	93.0	92.0	88.7	82.6	78.2	91.3	77.3	79.1	85.2	89.6	89.6
135°	86.0	86.0	81.7	73.0	62.5	67.0	62.5	71.2	78.2	81.7	82.6
137.5°	73.8	73.8	70.3	62.5	50.3	47.8	49.5	60.8	68.6	72.1	72.1
140°	58.2	57.3	53.9	46.9	33.0	22.5	32.2	46.1	53.9	57.3	57.3
142.5°	40.9	40.0	35.7	28.7	17.3	7.8	17.3	27.8	35.7	39.0	40.0
145°	26.1	26.1	22.5	17.3	8.8	2.6	6.9	16.4	21.6	25.2	25.2
147.5°	16.4	16.4	14.0	9.5	2.6	1.7	2.6	7.8	13.0	15.6	16.4
150°	9.5	9.5	6.9	3.5	1.7	0.9	1.7	2.6	5.2	7.8	7.8
152.5°	3.5	2.6	1.7	1.7	0.9	0.9	0.9	1.7	1.7	2.6	2.6
155°	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7
157.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
160°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
162.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.9	0.9	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)