

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: P239837

Luminaire Tested: **UTLD-AF24-90-D-U-5WQ-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239837
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-AF24-90-D-U-5WQ-A
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1180mA 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: 7494 lumens
Efficiency: N/A
Efficacy: 79.7 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 - G3

Input Watts (W): 94
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



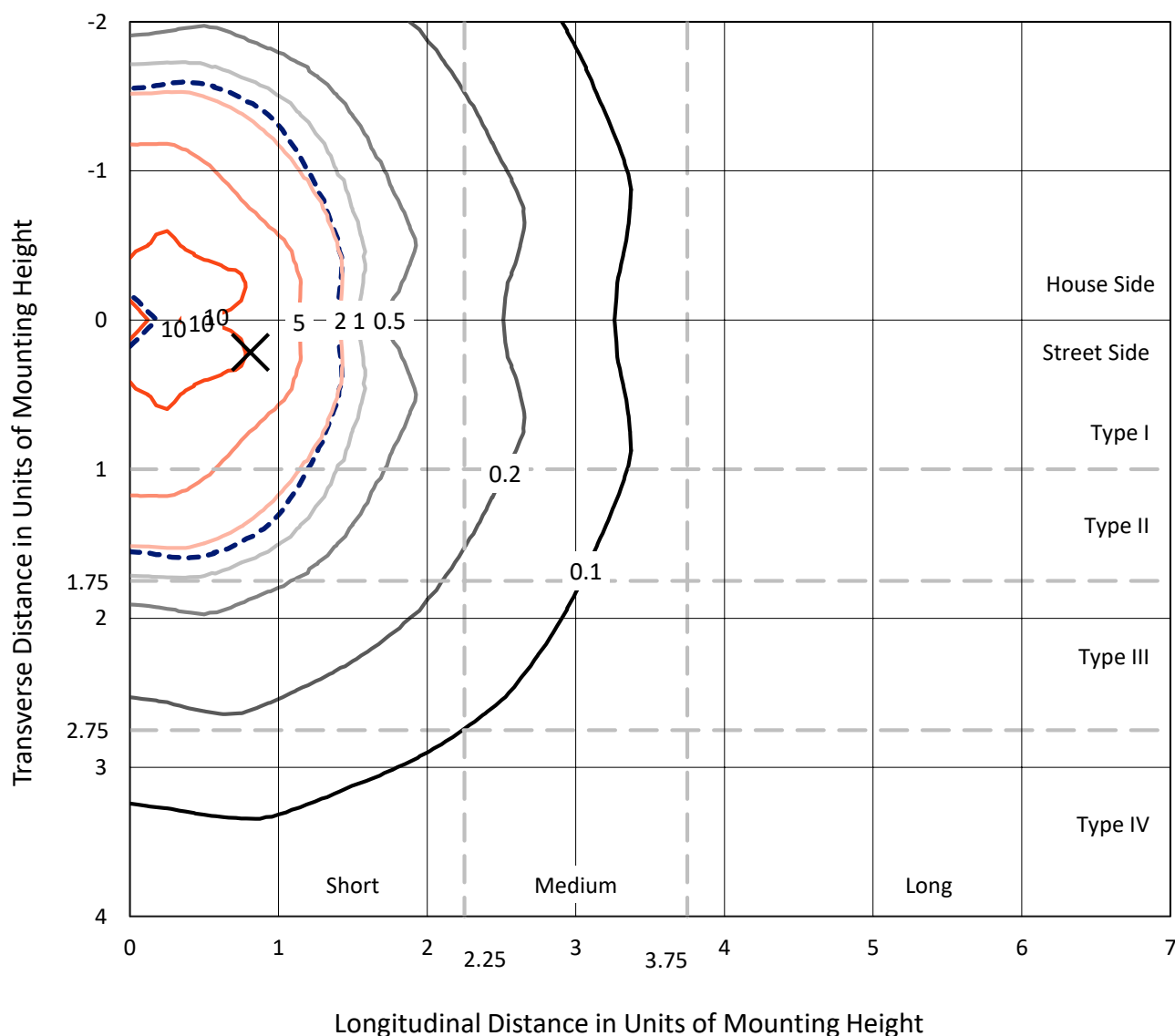
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

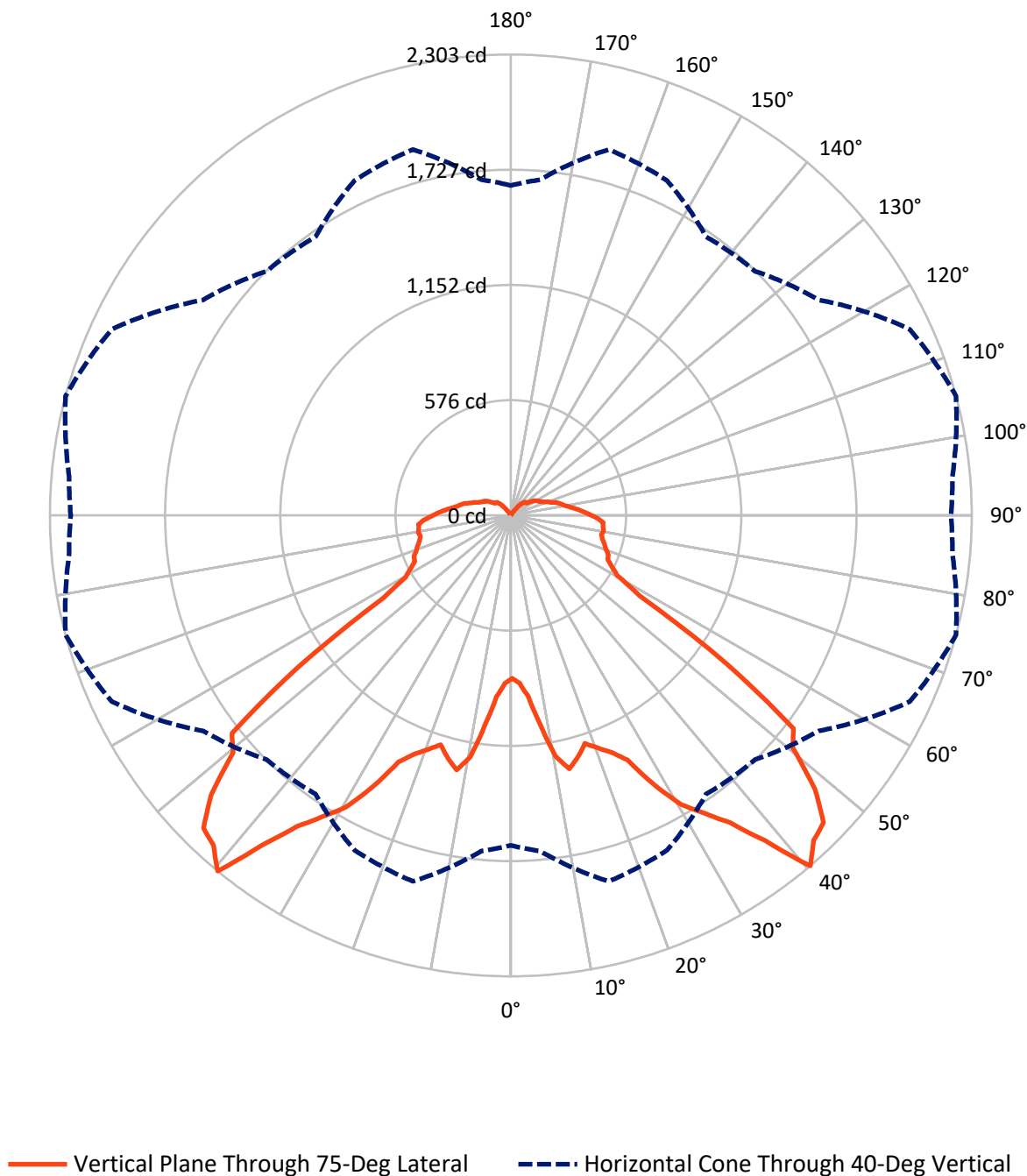


Based on 10 foot mounting height. Maximum calculated value = 13.7 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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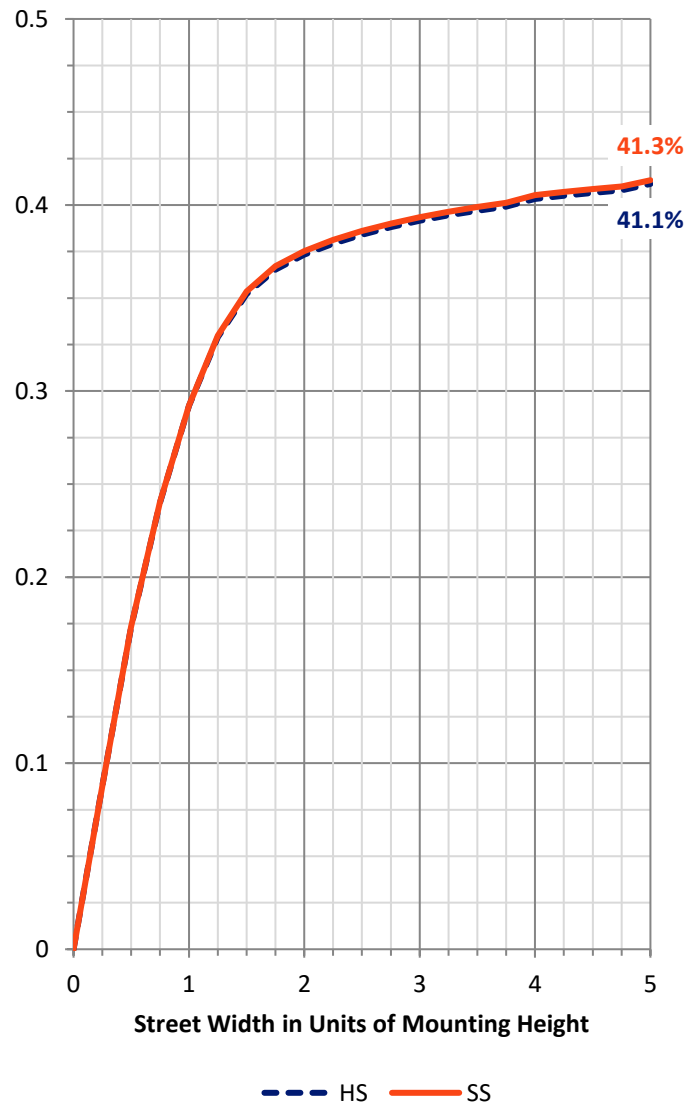
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3239.3	507.7	3747.0
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	3239.3	507.7	3747.0
	% Fixture	43.2	6.8	50.0
Total	Lumens	6478.7	1015.4	7494.0
	% Fixture	86.5	13.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.1	1.3
10°-20°	390.3	5.2
20°-30°	697.3	9.3
30°-40°	1103.8	14.7
40°-50°	1481.1	19.8
50°-60°	1178.9	15.7
60°-70°	541.1	7.2
70°-80°	493.2	6.6
80°-90°	496.9	6.6
90°-100°	382.1	5.1
100°-110°	266.8	3.6
110°-120°	176.2	2.4
120°-130°	110.2	1.5
130°-140°	64.4	0.9
140°-150°	14.6	0.2
150°-160°	0.9	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	6478.7	86.5
0°-180°	7494.0	100.0

Coefficient of Utilization



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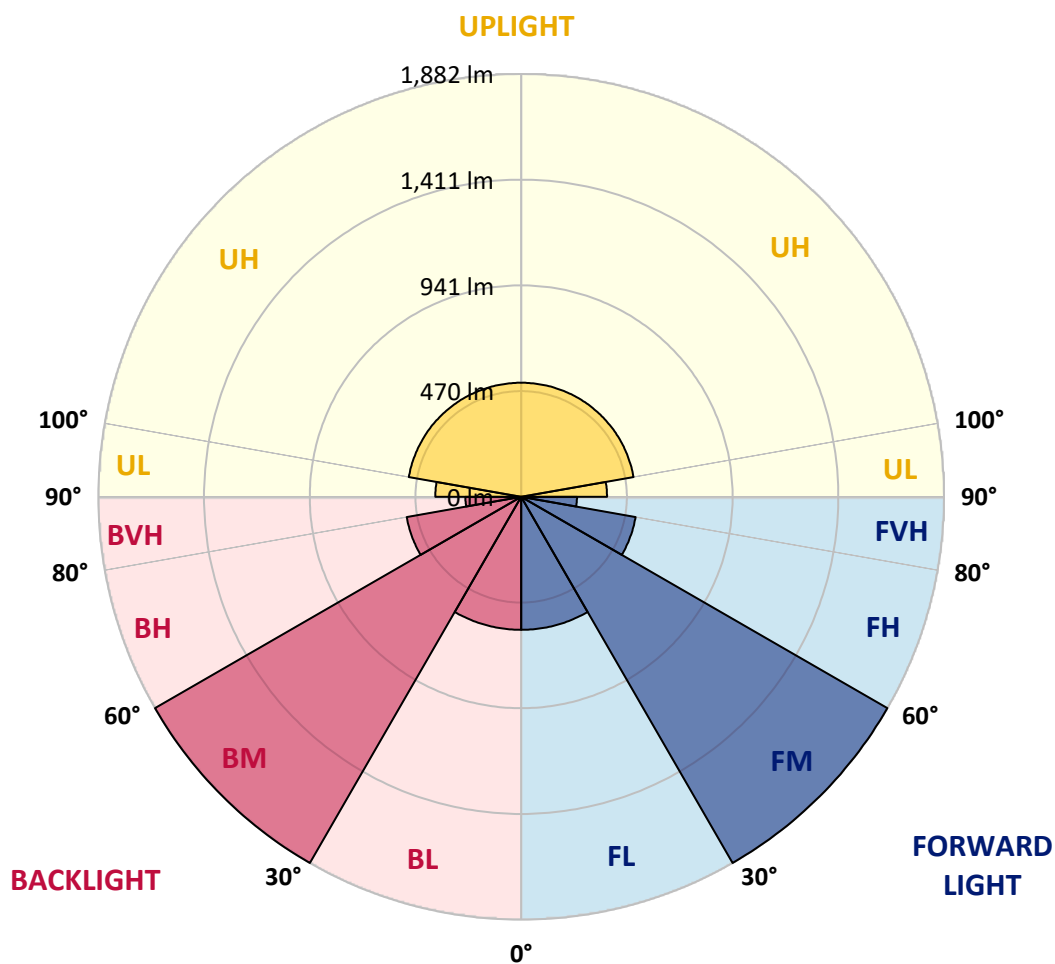
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	591.9	7.9			
FM	(30°-60°)	1881.9	25.1			
FH	(60°-80°)	517.1	6.9			G0/660
FVH	(80°-90°)	248.4	3.3			G3/500
BL	(0°-30°)	591.9	7.9	B2/1000		
BM	(30°-60°)	1881.9	25.1	B2/2500		
BH	(60°-80°)	517.1	6.9	B2/1000		G0/660
BVH	(80°-90°)	248.4	3.3			G3/500
UL	(90°-100°)	382.1	5.1		U3/500	
UH	(100°-180°)	507.7	6.8		U4/1000	

BUG Rating: B2-U4-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	814.3	814.3	814.3	814.3	814.3	814.3	814.3	814.3	814.3	814.3	814.3
2.5°	836.3	836.3	836.3	834.3	836.3	838.2	840.2	840.2	839.2	836.3	834.3
5°	895.1	895.1	894.1	896.1	896.1	892.1	894.1	901.1	908.1	903.1	901.1
7.5°	1037.8	1034.8	1027.8	1021.9	1014.9	1014.9	1029.8	1038.8	1054.8	1056.8	1051.8
10°	1181.5	1185.5	1189.5	1189.5	1206.5	1225.4	1238.4	1234.4	1222.4	1213.5	1207.5
12.5°	1223.4	1226.4	1261.4	1349.2	1414.0	1466.9	1422.0	1354.2	1300.3	1265.4	1261.4
15°	1255.4	1263.4	1307.3	1417.0	1579.7	1623.6	1530.8	1358.2	1253.4	1203.5	1192.5
17.5°	1287.3	1296.3	1370.1	1528.8	1657.5	1646.6	1534.8	1350.2	1197.5	1131.6	1123.6
20°	1259.4	1269.3	1373.1	1585.7	1679.5	1626.6	1587.7	1414.0	1240.4	1164.6	1155.6
22.5°	1270.3	1280.3	1385.1	1591.7	1649.5	1652.5	1592.7	1488.9	1285.3	1198.5	1184.5
25°	1290.3	1298.3	1428.0	1636.6	1637.6	1629.6	1599.7	1542.8	1353.2	1270.3	1258.4
27.5°	1290.3	1297.3	1443.0	1617.6	1628.6	1610.6	1648.6	1669.5	1523.8	1450.0	1453.0
30°	1348.2	1352.2	1502.9	1615.6	1590.7	1604.6	1711.4	1775.3	1675.5	1556.7	1555.7
32.5°	1460.9	1479.9	1638.6	1684.5	1586.7	1599.7	1727.4	1839.2	1774.3	1631.6	1615.6
35°	1605.6	1610.6	1756.3	1744.3	1615.6	1608.6	1765.3	1939.9	1885.1	1744.3	1739.4
37.5°	1652.5	1659.5	1833.2	1801.2	1650.5	1656.5	1828.2	2062.7	2060.7	1947.9	1912.0
40°	1648.6	1683.5	1893.0	1846.1	1700.4	1725.4	1877.1	2200.4	2303.2	2215.4	2199.4
42.5°	1945.9	1963.9	2086.6	1917.0	1746.3	1746.3	1897.0	2173.5	2219.4	2051.7	2018.8
45°	1976.9	1975.9	2110.6	1974.9	1758.3	1717.4	1826.2	2070.7	2190.4	2079.6	2030.8
47.5°	1913.0	1937.9	2105.6	1941.9	1736.4	1635.6	1704.4	1952.9	2045.7	1875.1	1836.2
50°	1844.1	1863.1	1990.8	1791.3	1627.6	1555.7	1607.6	1787.3	1824.2	1618.6	1588.7
52.5°	1655.5	1657.5	1809.2	1651.5	1532.8	1458.9	1500.9	1667.5	1768.3	1571.7	1550.8
55°	1403.1	1430.0	1622.6	1524.8	1421.0	1357.2	1365.1	1393.1	1304.3	1009.9	941.0
57.5°	1072.8	1107.7	1332.2	1337.2	1257.4	1155.6	1043.8	884.1	761.4	489.0	470.0
60°	730.5	760.4	930.1	972.0	1003.9	887.1	722.5	630.7	611.7	424.1	410.1
62.5°	452.1	477.0	635.7	650.6	720.5	647.6	572.8	544.9	566.8	405.2	395.2
65°	418.1	435.1	551.8	529.9	546.9	542.9	509.9	504.9	531.9	395.2	388.2
67.5°	404.2	418.1	510.9	495.0	501.9	507.9	485.0	489.0	525.9	403.2	395.2
70°	397.2	412.1	498.0	487.0	494.0	500.0	486.0	480.0	503.9	406.2	395.2
72.5°	392.2	408.1	478.0	471.0	490.0	505.9	492.0	479.0	489.0	408.1	397.2
75°	383.2	399.2	460.0	464.0	493.0	511.9	494.0	474.0	473.0	404.2	391.2
77.5°	381.2	399.2	441.1	466.0	494.0	518.9	504.9	476.0	463.0	406.2	390.2
80°	378.2	398.2	450.1	482.0	501.9	514.9	508.9	489.0	470.0	421.1	404.2
82.5°	395.2	413.1	458.0	494.0	500.0	498.0	498.0	485.0	464.0	422.1	406.2
85°	416.1	430.1	477.0	498.0	493.0	480.0	474.0	473.0	463.0	433.1	420.1
87.5°	412.1	422.1	454.0	474.0	476.0	450.1	451.1	445.1	434.1	404.2	393.2
90°	385.2	392.2	428.1	449.1	436.1	415.1	406.2	394.2	395.2	368.2	360.2
92.5°	367.2	375.2	401.2	413.1	411.1	376.2	370.2	369.2	363.2	340.3	335.3
95°	343.3	348.3	370.2	386.2	376.2	340.3	334.3	329.3	330.3	321.3	322.3
97.5°	337.3	341.3	357.3	354.3	337.3	306.4	302.4	300.4	299.4	294.4	293.4
100°	324.3	324.3	329.3	320.3	300.4	277.4	271.4	272.4	273.4	267.4	265.4
102.5°	302.4	303.4	305.4	297.4	278.4	254.5	248.5	253.5	255.5	253.5	252.5
105°	286.4	285.4	286.4	277.4	256.5	235.5	228.5	233.5	238.5	239.5	237.5
107.5°	262.5	261.5	261.5	252.5	236.5	219.5	213.6	210.6	210.6	210.6	210.6
110°	227.5	228.5	228.5	224.5	216.5	206.6	198.6	192.6	194.6	193.6	195.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	211.6	211.6	209.6	206.6	198.6	188.6	179.6	175.6	173.6	172.6	173.6
115°	194.6	195.6	189.6	187.6	179.6	173.6	164.7	161.7	161.7	164.7	166.7
117.5°	179.6	179.6	175.6	170.6	163.7	158.7	154.7	152.7	152.7	156.7	156.7
120°	162.7	162.7	158.7	152.7	149.7	142.7	143.7	142.7	145.7	150.7	151.7
122.5°	143.7	143.7	139.7	134.7	136.7	131.7	129.7	125.7	131.7	137.7	138.7
125°	127.7	126.7	122.7	116.8	124.7	124.7	119.7	106.8	114.8	119.7	120.7
127.5°	116.8	115.8	110.8	104.8	114.8	120.7	109.8	96.8	100.8	105.8	107.8
130°	110.8	109.8	104.8	97.8	100.8	114.8	98.8	92.8	97.8	102.8	102.8
132.5°	106.8	105.8	101.8	94.8	89.8	104.8	88.8	90.8	97.8	102.8	102.8
135°	98.8	98.8	93.8	83.8	71.8	76.8	71.8	81.8	89.8	93.8	94.8
137.5°	84.8	84.8	80.8	71.8	57.9	54.9	56.9	69.9	78.8	82.8	82.8
140°	66.9	65.9	61.9	53.9	37.9	25.9	36.9	52.9	61.9	65.9	65.9
142.5°	46.9	45.9	40.9	32.9	20.0	9.0	20.0	31.9	40.9	44.9	45.9
145°	29.9	29.9	25.9	20.0	10.0	3.0	8.0	19.0	24.9	28.9	28.9
147.5°	19.0	19.0	16.0	11.0	3.0	2.0	3.0	9.0	15.0	18.0	19.0
150°	11.0	11.0	8.0	4.0	2.0	1.0	2.0	3.0	6.0	9.0	9.0
152.5°	4.0	3.0	2.0	2.0	1.0	1.0	1.0	2.0	2.0	3.0	3.0
155°	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
157.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
160°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
162.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	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)