

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: P239838

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239838
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-AF24-100-D-U-5WQ-A
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 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: 7510 lumens
Efficiency: N/A
Efficacy: 78.2 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): 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

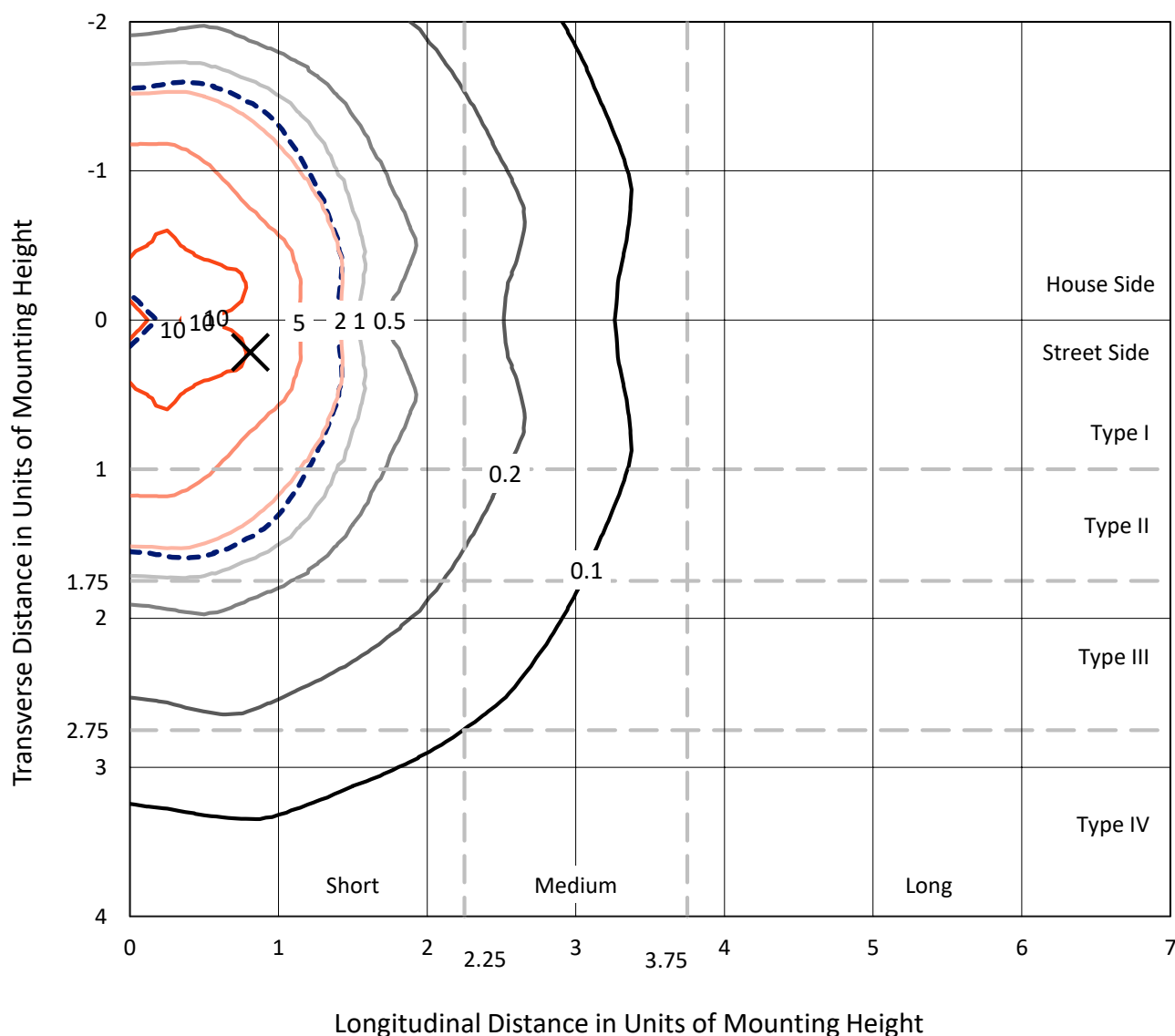


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

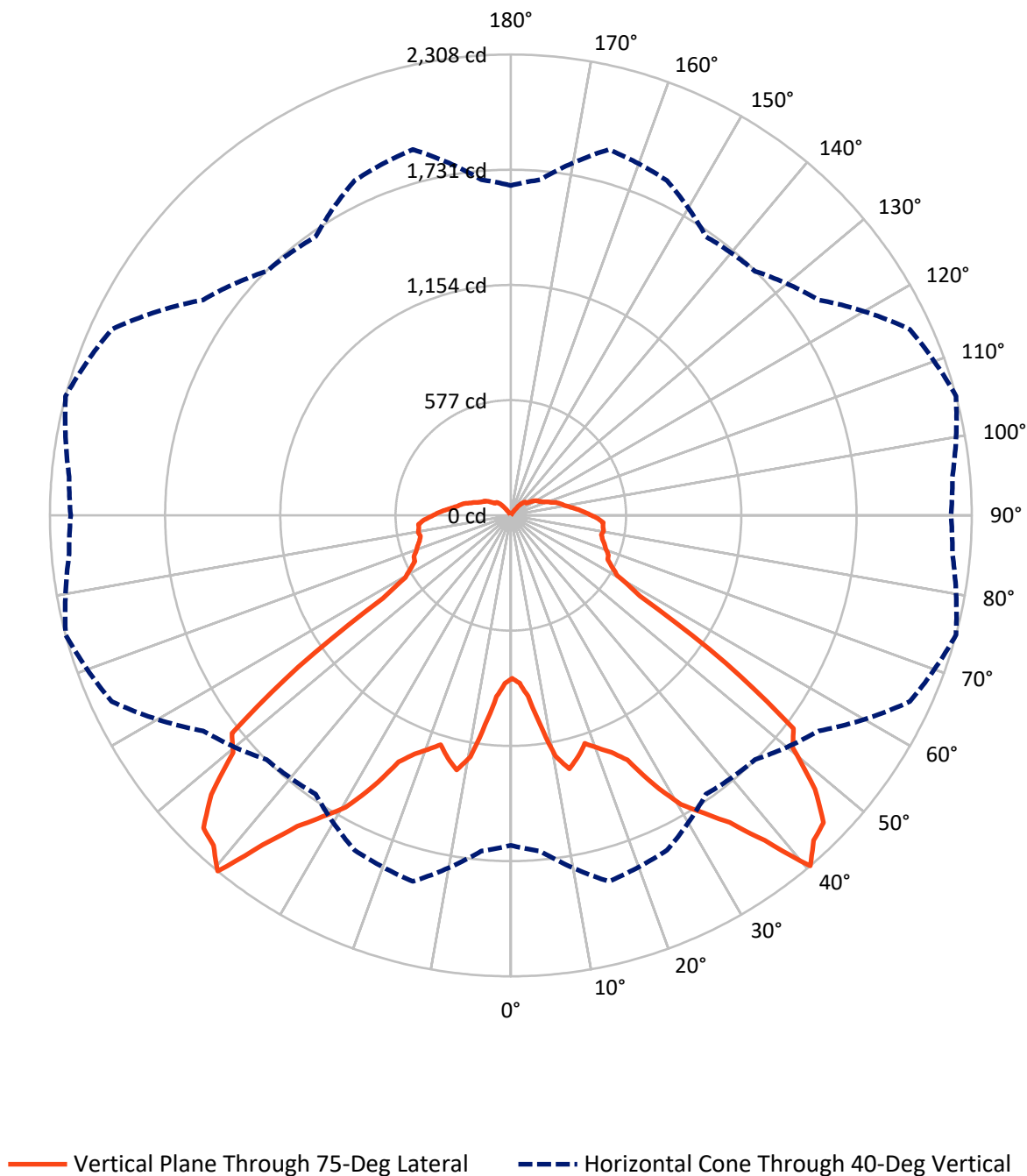


Based on 10 foot mounting height. Maximum calculated value = 13.7 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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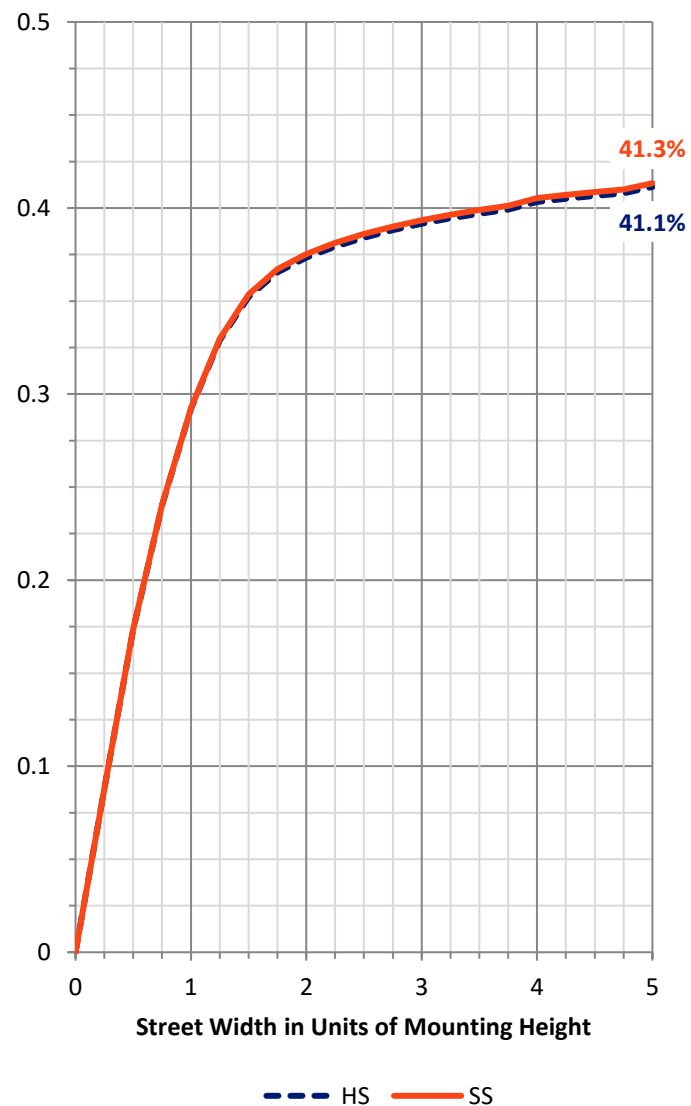
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3246.2	508.7	3755.0
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	3246.2	508.7	3755.0
	% Fixture	43.2	6.8	50.0
Total	Lumens	6492.5	1017.5	7510.0
	% Fixture	86.5	13.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	1.3
10°-20°	391.2	5.2
20°-30°	698.8	9.3
30°-40°	1106.2	14.7
40°-50°	1484.3	19.8
50°-60°	1181.4	15.7
60°-70°	542.2	7.2
70°-80°	494.3	6.6
80°-90°	497.9	6.6
90°-100°	382.9	5.1
100°-110°	267.3	3.6
110°-120°	176.6	2.4
120°-130°	110.4	1.5
130°-140°	64.6	0.9
140°-150°	14.7	0.2
150°-160°	0.9	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	6492.5	86.5
0°-180°	7510.0	100.0

Coefficient of Utilization



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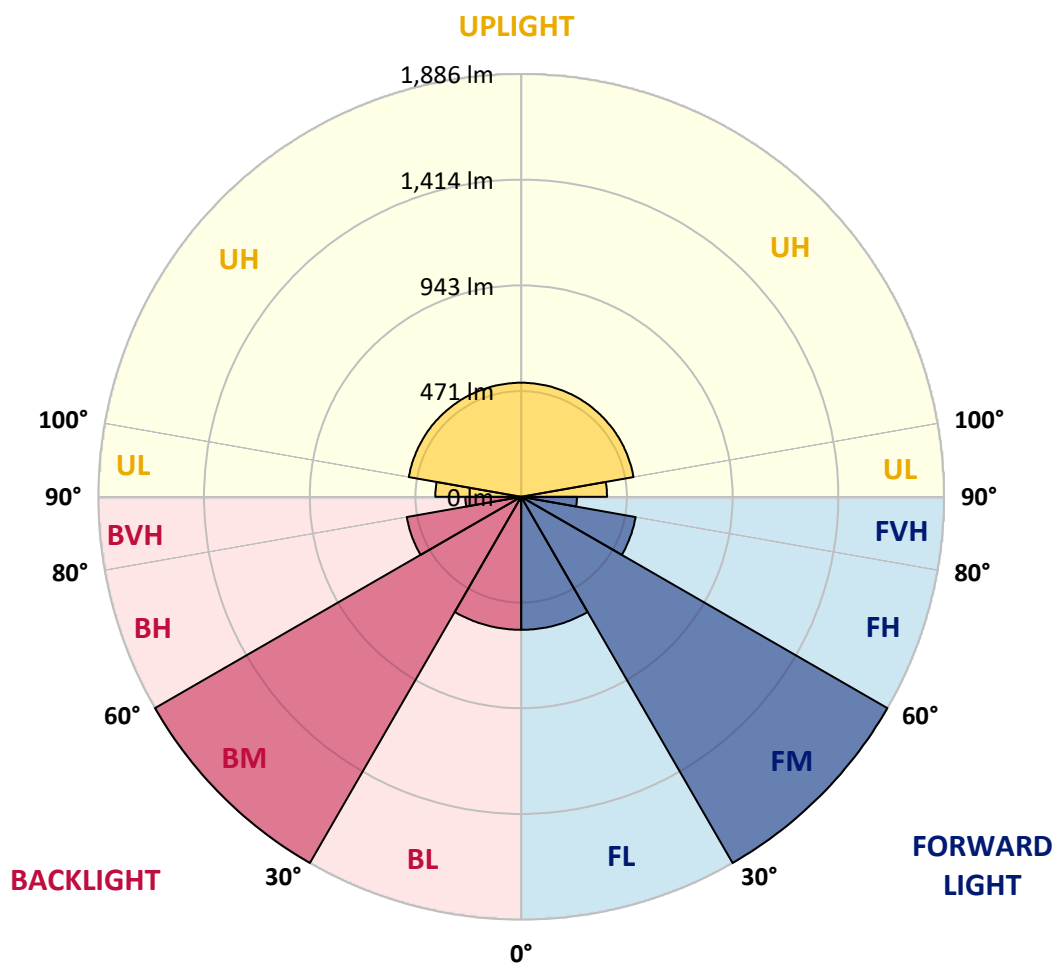
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	593.1	7.9			
FM	(30°-60°)	1885.9	25.1			
FH	(60°-80°)	518.2	6.9			G0/660
FVH	(80°-90°)	249.0	3.3			G3/500
BL	(0°-30°)	593.1	7.9	B2/1000		
BM	(30°-60°)	1885.9	25.1	B2/2500		
BH	(60°-80°)	518.2	6.9	B2/1000		G0/660
BVH	(80°-90°)	249.0	3.3			G3/500
UL	(90°-100°)	382.9	5.1		U3/500	
UH	(100°-180°)	508.7	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°	816.0	816.0	816.0	816.0	816.0	816.0	816.0	816.0	816.0	816.0	816.0
2.5°	838.0	838.0	838.0	836.0	838.0	840.0	842.0	842.0	841.0	838.0	836.0
5°	897.0	897.0	896.0	898.0	898.0	894.0	896.0	903.0	910.0	905.0	903.0
7.5°	1040.0	1037.0	1030.0	1024.0	1017.0	1017.0	1032.0	1041.0	1057.0	1059.0	1054.0
10°	1184.1	1188.1	1192.1	1192.1	1209.1	1228.1	1241.1	1237.1	1225.1	1216.1	1210.1
12.5°	1226.1	1229.1	1264.1	1352.1	1417.1	1470.1	1425.1	1357.1	1303.1	1268.1	1264.1
15°	1258.1	1266.1	1310.1	1420.1	1583.1	1627.1	1534.1	1361.1	1256.1	1206.1	1195.1
17.5°	1290.1	1299.1	1373.1	1532.1	1661.1	1650.1	1538.1	1353.1	1200.1	1134.0	1126.0
20°	1262.1	1272.1	1376.1	1589.1	1683.1	1630.1	1591.1	1417.1	1243.1	1167.0	1158.0
22.5°	1273.1	1283.1	1388.1	1595.1	1653.1	1656.1	1596.1	1492.1	1288.1	1201.1	1187.1
25°	1293.1	1301.1	1431.1	1640.1	1641.1	1633.1	1603.1	1546.1	1356.1	1273.1	1261.1
27.5°	1293.1	1300.1	1446.1	1621.1	1632.1	1614.1	1652.1	1673.1	1527.1	1453.1	1456.1
30°	1351.1	1355.1	1506.1	1619.1	1594.1	1608.1	1715.1	1779.1	1679.1	1560.1	1559.1
32.5°	1464.1	1483.1	1642.1	1688.1	1590.1	1603.1	1731.1	1843.1	1778.1	1635.1	1619.1
35°	1609.1	1614.1	1760.1	1748.1	1619.1	1612.1	1769.1	1944.1	1889.1	1748.1	1743.1
37.5°	1656.1	1663.1	1837.1	1805.1	1654.1	1660.1	1832.1	2067.1	2065.1	1952.1	1916.1
40°	1652.1	1687.1	1897.1	1850.1	1704.1	1729.1	1881.1	2205.1	2308.1	2220.1	2204.1
42.5°	1950.1	1968.1	2091.1	1921.1	1750.1	1750.1	1901.1	2178.1	2224.1	2056.1	2023.1
45°	1981.1	1980.1	2115.1	1979.1	1762.1	1721.1	1830.1	2075.1	2195.1	2084.1	2035.1
47.5°	1917.1	1942.1	2110.1	1946.1	1740.1	1639.1	1708.1	1957.1	2050.1	1879.1	1840.1
50°	1848.1	1867.1	1995.1	1795.1	1631.1	1559.1	1611.1	1791.1	1828.1	1622.1	1592.1
52.5°	1659.1	1661.1	1813.1	1655.1	1536.1	1462.1	1504.1	1671.1	1772.1	1575.1	1554.1
55°	1406.1	1433.1	1626.1	1528.1	1424.1	1360.1	1368.1	1396.1	1307.1	1012.0	943.0
57.5°	1075.0	1110.0	1335.1	1340.1	1260.1	1158.0	1046.0	886.0	763.0	490.0	471.0
60°	732.0	762.0	932.0	974.0	1006.0	889.0	724.0	632.0	613.0	425.0	411.0
62.5°	453.0	478.0	637.0	652.0	722.0	649.0	574.0	546.0	568.0	406.0	396.0
65°	419.0	436.0	553.0	531.0	548.0	544.0	511.0	506.0	533.0	396.0	389.0
67.5°	405.0	419.0	512.0	496.0	503.0	509.0	486.0	490.0	527.0	404.0	396.0
70°	398.0	413.0	499.0	488.0	495.0	501.0	487.0	481.0	505.0	407.0	396.0
72.5°	393.0	409.0	479.0	472.0	491.0	507.0	493.0	480.0	490.0	409.0	398.0
75°	384.0	400.0	461.0	465.0	494.0	513.0	495.0	475.0	474.0	405.0	392.0
77.5°	382.0	400.0	442.0	467.0	495.0	520.0	506.0	477.0	464.0	407.0	391.0
80°	379.0	399.0	451.0	483.0	503.0	516.0	510.0	490.0	471.0	422.0	405.0
82.5°	396.0	414.0	459.0	495.0	501.0	499.0	499.0	486.0	465.0	423.0	407.0
85°	417.0	431.0	478.0	499.0	494.0	481.0	475.0	474.0	464.0	434.0	421.0
87.5°	413.0	423.0	455.0	475.0	477.0	451.0	452.0	446.0	435.0	405.0	394.0
90°	386.0	393.0	429.0	450.0	437.0	416.0	407.0	395.0	396.0	369.0	361.0
92.5°	368.0	376.0	402.0	414.0	412.0	377.0	371.0	370.0	364.0	341.0	336.0
95°	344.0	349.0	371.0	387.0	377.0	341.0	335.0	330.0	331.0	322.0	323.0
97.5°	338.0	342.0	358.0	355.0	338.0	307.0	303.0	301.0	300.0	295.0	294.0
100°	325.0	325.0	330.0	321.0	301.0	278.0	272.0	273.0	274.0	268.0	266.0
102.5°	303.0	304.0	306.0	298.0	279.0	255.0	249.0	254.0	256.0	254.0	253.0
105°	287.0	286.0	287.0	278.0	257.0	236.0	229.0	234.0	239.0	240.0	238.0
107.5°	263.0	262.0	262.0	253.0	237.0	220.0	214.0	211.0	211.0	211.0	211.0
110°	228.0	229.0	229.0	225.0	217.0	207.0	199.0	193.0	195.0	194.0	196.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	212.0	212.0	210.0	207.0	199.0	189.0	180.0	176.0	174.0	173.0	174.0
115°	195.0	196.0	190.0	188.0	180.0	174.0	165.0	162.0	162.0	165.0	167.0
117.5°	180.0	180.0	176.0	171.0	164.0	159.0	155.0	153.0	153.0	157.0	157.0
120°	163.0	163.0	159.0	153.0	150.0	143.0	144.0	143.0	146.0	151.0	152.0
122.5°	144.0	144.0	140.0	135.0	137.0	132.0	130.0	126.0	132.0	138.0	139.0
125°	128.0	127.0	123.0	117.0	125.0	125.0	120.0	107.0	115.0	120.0	121.0
127.5°	117.0	116.0	111.0	105.0	115.0	121.0	110.0	97.0	101.0	106.0	108.0
130°	111.0	110.0	105.0	98.0	101.0	115.0	99.0	93.0	98.0	103.0	103.0
132.5°	107.0	106.0	102.0	95.0	90.0	105.0	89.0	91.0	98.0	103.0	103.0
135°	99.0	99.0	94.0	84.0	72.0	77.0	72.0	82.0	90.0	94.0	95.0
137.5°	85.0	85.0	81.0	72.0	58.0	55.0	57.0	70.0	79.0	83.0	83.0
140°	67.0	66.0	62.0	54.0	38.0	26.0	37.0	53.0	62.0	66.0	66.0
142.5°	47.0	46.0	41.0	33.0	20.0	9.0	20.0	32.0	41.0	45.0	46.0
145°	30.0	30.0	26.0	20.0	10.0	3.0	8.0	19.0	25.0	29.0	29.0
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)