

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: P239829

Luminaire Tested: **UTLD-AF24-100-D-U-5WQ-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239829
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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 6648 lumens
Efficiency: N/A
Efficacy: 69.3 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

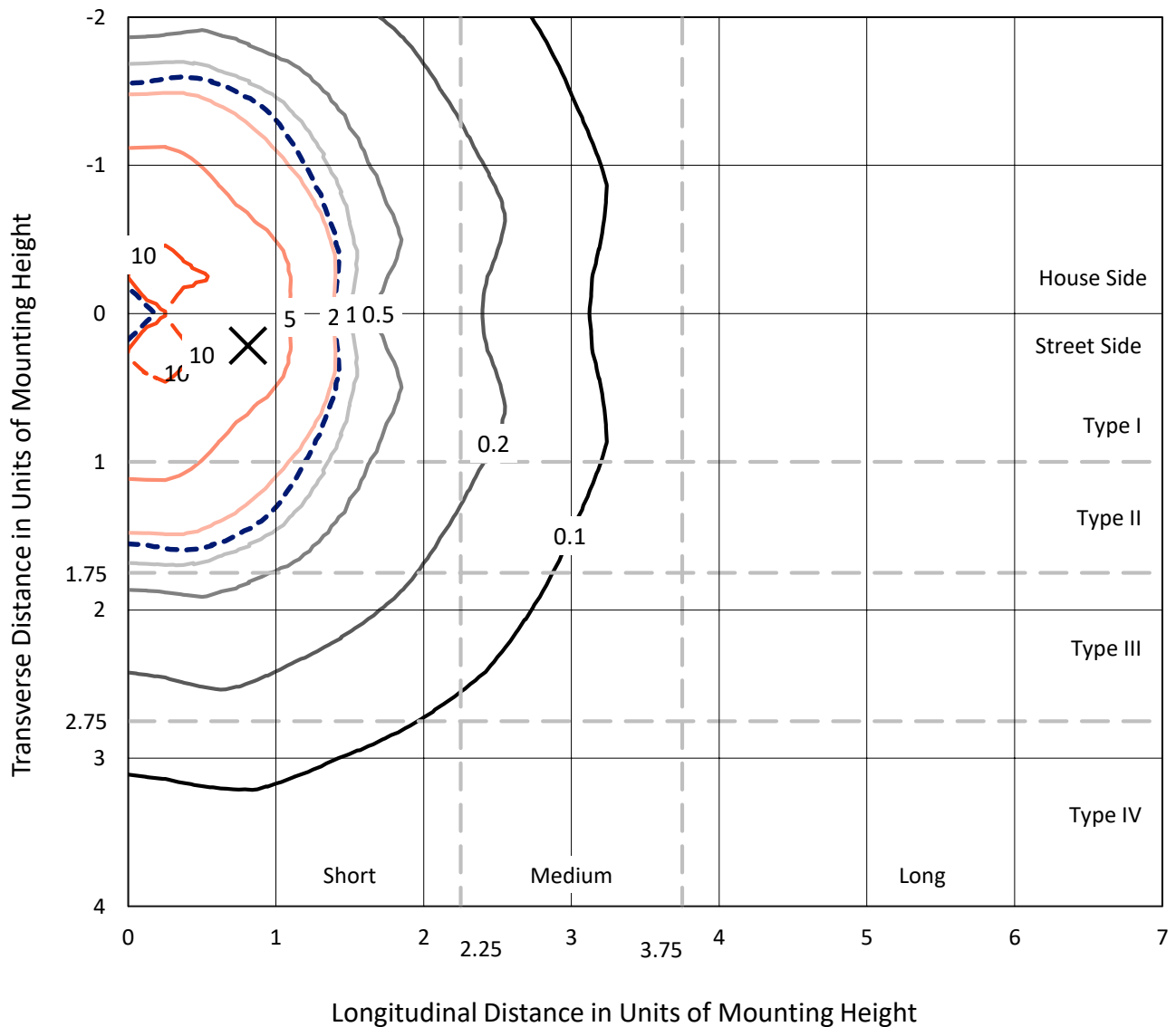


REPORT NUMBER: P239829

CATALOG NUMBER: UTLD-AF24-100-D-U-5WQ-A-7030

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

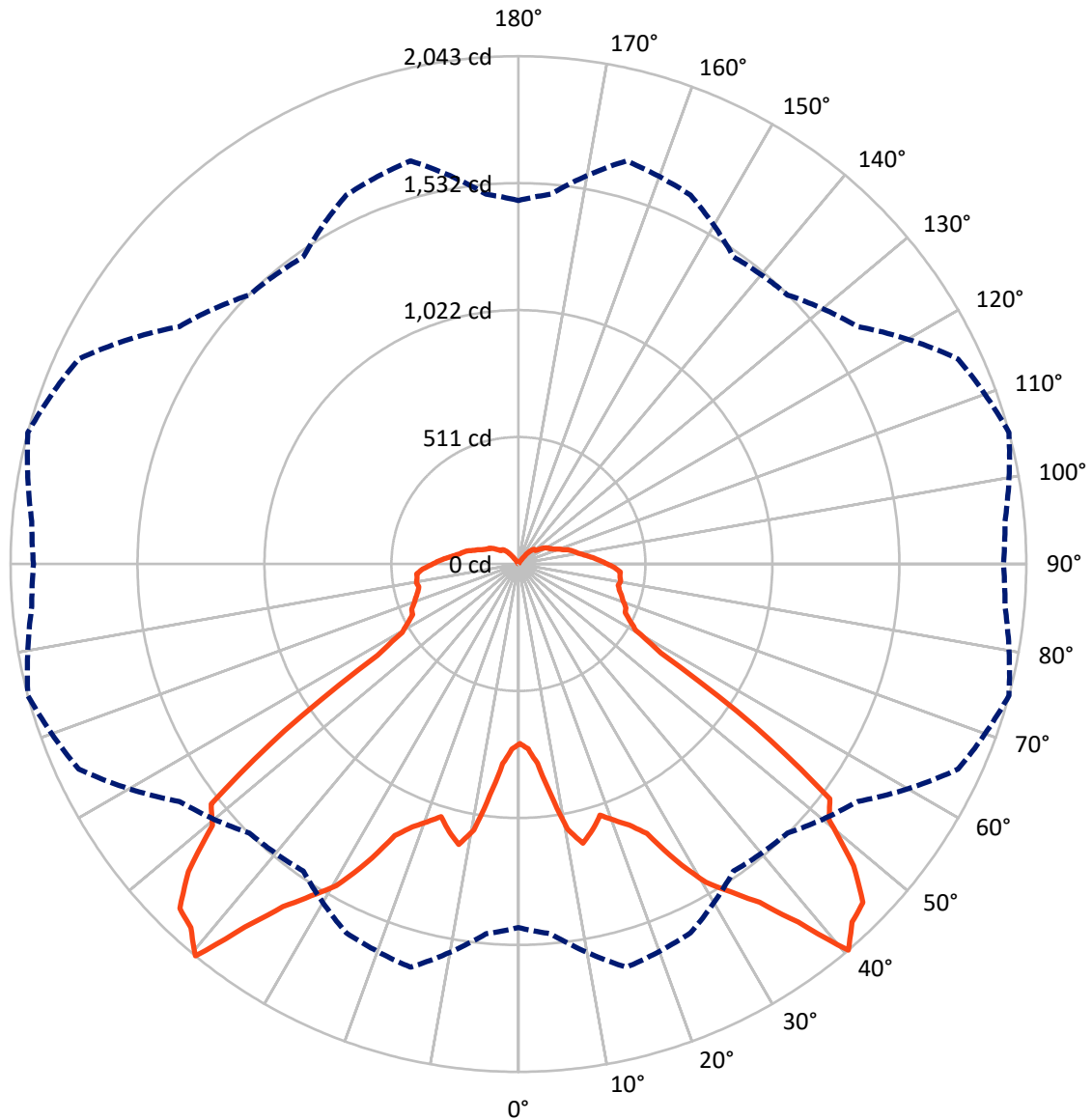


Based on 10 foot mounting height. Maximum calculated value = 12.1 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P239829

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 40-Deg Vertical



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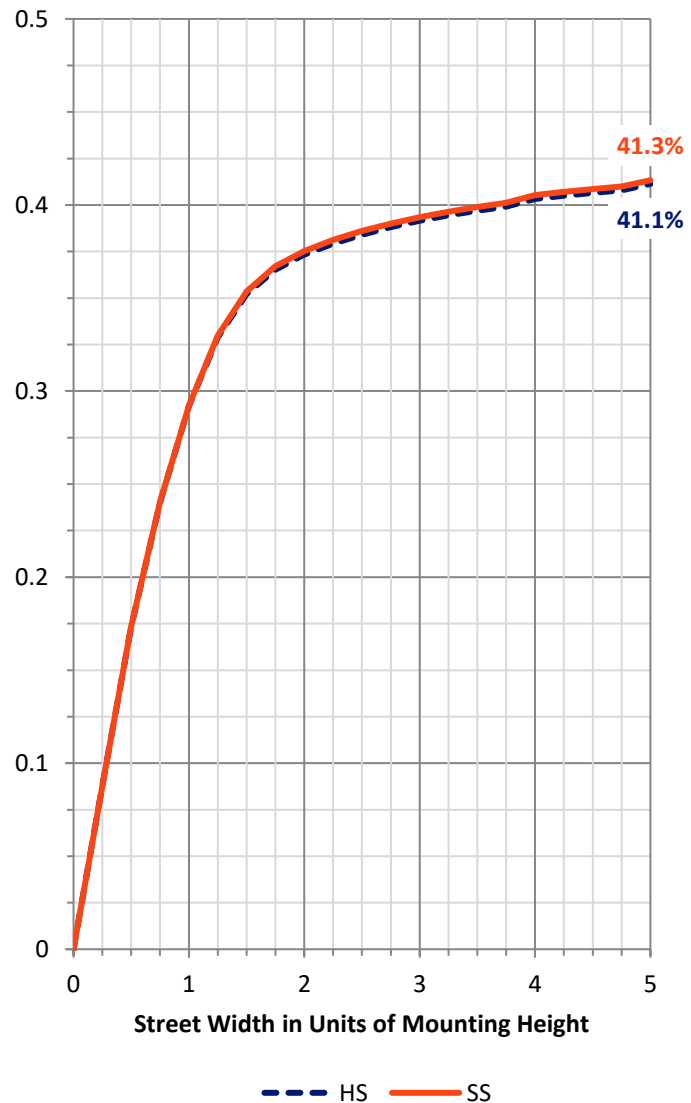
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2873.6	450.4	3324.0
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	2873.6	450.4	3324.0
	% Fixture	43.2	6.8	50.0
Total	Lumens	5747.3	900.7	6648.0
	% Fixture	86.5	13.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	1.3
10°-20°	346.3	5.2
20°-30°	618.5	9.3
30°-40°	979.2	14.7
40°-50°	1313.9	19.8
50°-60°	1045.8	15.7
60°-70°	480.0	7.2
70°-80°	437.5	6.6
80°-90°	440.8	6.6
90°-100°	339.0	5.1
100°-110°	236.7	3.6
110°-120°	156.3	2.4
120°-130°	97.8	1.5
130°-140°	57.2	0.9
140°-150°	13.0	0.2
150°-160°	0.8	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	5747.3	86.5
0°-180°	6648.0	100.0



REPORT NUMBER: P239829

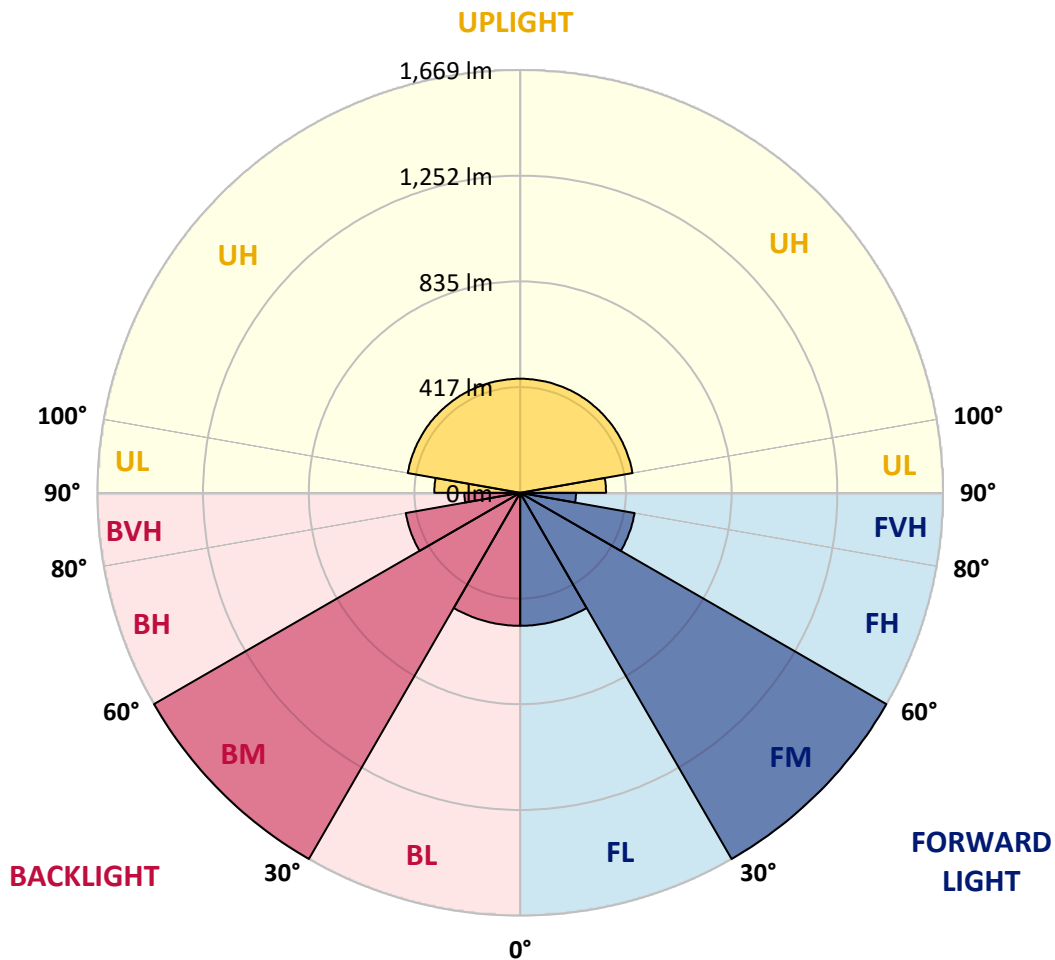
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	525.0	7.9			
FM	(30°-60°)	1669.4	25.1			
FH	(60°-80°)	458.8	6.9			G0/660
FVH	(80°-90°)	220.4	3.3			G2/225
BL	(0°-30°)	525.0	7.9	B2/1000		
BM	(30°-60°)	1669.4	25.1	B2/2500		
BH	(60°-80°)	458.8	6.9	B1/500		G0/660
BVH	(80°-90°)	220.4	3.3			G2/225
UL	(90°-100°)	339.0	5.1		U3/500	
UH	(100°-180°)	450.4	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°	722.4	722.4	722.4	722.4	722.4	722.4	722.4	722.4	722.4	722.4	722.4
2.5°	741.8	741.8	741.8	740.1	741.8	743.6	745.4	745.4	744.5	741.8	740.1
5°	794.1	794.1	793.2	795.0	795.0	791.4	793.2	799.4	805.6	801.2	799.4
7.5°	920.7	918.0	911.8	906.5	900.3	900.3	913.6	921.6	935.7	937.5	933.1
10°	1048.1	1051.7	1055.2	1055.2	1070.3	1087.1	1098.6	1095.1	1084.4	1076.5	1071.2
12.5°	1085.3	1088.0	1119.0	1196.9	1254.4	1301.3	1261.5	1201.3	1153.5	1122.5	1119.0
15°	1113.7	1120.7	1159.7	1257.1	1401.4	1440.3	1358.0	1204.8	1111.9	1067.6	1057.9
17.5°	1142.0	1149.9	1215.5	1356.2	1470.4	1460.7	1361.5	1197.8	1062.3	1003.9	996.8
20°	1117.2	1126.0	1218.1	1406.7	1489.9	1443.0	1408.4	1254.4	1100.4	1033.1	1025.1
22.5°	1126.9	1135.8	1228.7	1412.0	1463.3	1466.0	1412.9	1320.8	1140.2	1063.2	1050.8
25°	1144.6	1151.7	1266.8	1451.8	1452.7	1445.6	1419.1	1368.6	1200.4	1126.9	1116.3
27.5°	1144.6	1150.8	1280.1	1435.0	1444.7	1428.8	1462.4	1481.0	1351.8	1286.3	1288.9
30°	1196.0	1199.5	1333.2	1433.2	1411.1	1423.5	1518.2	1574.9	1486.3	1381.0	1380.1
32.5°	1296.0	1312.8	1453.6	1494.3	1407.6	1419.1	1532.4	1631.5	1574.0	1447.4	1433.2
35°	1424.4	1428.8	1558.1	1547.4	1433.2	1427.0	1566.0	1720.9	1672.3	1547.4	1543.0
37.5°	1466.0	1472.2	1626.2	1597.9	1464.2	1469.5	1621.8	1829.8	1828.1	1728.0	1696.2
40°	1462.4	1493.4	1679.3	1637.7	1508.5	1530.6	1665.2	1952.0	2043.2	1965.3	1951.1
42.5°	1726.3	1742.2	1851.1	1700.6	1549.2	1549.2	1682.9	1928.1	1968.8	1820.1	1790.9
45°	1753.7	1752.8	1872.3	1751.9	1559.8	1523.5	1620.0	1836.9	1943.1	1844.9	1801.5
47.5°	1697.0	1719.2	1867.9	1722.7	1540.3	1450.9	1512.0	1732.4	1814.8	1663.4	1628.9
50°	1636.0	1652.8	1766.1	1589.0	1443.9	1380.1	1426.1	1585.5	1618.3	1435.9	1409.3
52.5°	1468.6	1470.4	1605.0	1465.1	1359.8	1294.2	1331.4	1479.3	1568.7	1394.3	1375.7
55°	1244.7	1268.6	1439.4	1352.7	1260.6	1203.9	1211.0	1235.8	1157.0	895.9	834.8
57.5°	951.7	982.6	1181.8	1186.2	1115.4	1025.1	926.0	784.3	675.5	433.8	417.0
60°	648.0	674.6	825.1	862.2	890.6	787.0	640.9	559.5	542.7	376.2	363.8
62.5°	401.0	423.2	563.9	577.2	639.2	574.5	508.1	483.4	502.8	359.4	350.6
65°	370.9	386.0	489.5	470.1	485.1	481.6	452.4	447.9	471.8	350.6	344.4
67.5°	358.5	370.9	453.3	439.1	445.3	450.6	430.2	433.8	466.5	357.6	350.6
70°	352.3	365.6	441.7	432.0	438.2	443.5	431.1	425.8	447.1	360.3	350.6
72.5°	347.9	362.1	424.0	417.8	434.7	448.8	436.4	424.9	433.8	362.1	352.3
75°	339.9	354.1	408.1	411.6	437.3	454.1	438.2	420.5	419.6	358.5	347.0
77.5°	338.2	354.1	391.3	413.4	438.2	460.3	447.9	422.3	410.8	360.3	346.1
80°	335.5	353.2	399.3	427.6	445.3	456.8	451.5	433.8	417.0	373.6	358.5
82.5°	350.6	366.5	406.3	438.2	443.5	441.7	441.7	430.2	411.6	374.5	360.3
85°	369.2	381.5	423.2	441.7	437.3	425.8	420.5	419.6	410.8	384.2	372.7
87.5°	365.6	374.5	402.8	420.5	422.3	399.3	400.1	394.8	385.1	358.5	348.8
90°	341.7	347.9	379.8	398.4	386.9	368.3	360.3	349.7	350.6	326.7	319.6
92.5°	325.8	332.9	355.9	366.5	364.7	333.7	328.4	327.5	322.2	301.9	297.4
95°	304.5	309.0	328.4	342.6	333.7	301.9	296.6	292.1	293.0	285.1	285.9
97.5°	299.2	302.8	316.9	314.3	299.2	271.8	268.2	266.5	265.6	261.2	260.3
100°	287.7	287.7	292.1	284.2	266.5	246.1	240.8	241.7	242.6	237.2	235.5
102.5°	268.2	269.1	270.9	263.8	247.0	225.7	220.4	224.9	226.6	224.9	224.0
105°	254.1	253.2	254.1	246.1	227.5	208.9	202.7	207.2	211.6	212.5	210.7
107.5°	232.8	231.9	231.9	224.0	209.8	194.8	189.4	186.8	186.8	186.8	186.8
110°	201.8	202.7	202.7	199.2	192.1	183.2	176.2	170.9	172.6	171.7	173.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	187.7	187.7	185.9	183.2	176.2	167.3	159.3	155.8	154.0	153.1	154.0
115°	172.6	173.5	168.2	166.4	159.3	154.0	146.1	143.4	143.4	146.1	147.8
117.5°	159.3	159.3	155.8	151.4	145.2	140.8	137.2	135.4	135.4	139.0	139.0
120°	144.3	144.3	140.8	135.4	132.8	126.6	127.5	126.6	129.2	133.7	134.6
122.5°	127.5	127.5	123.9	119.5	121.3	116.9	115.1	111.5	116.9	122.2	123.1
125°	113.3	112.4	108.9	103.6	110.7	110.7	106.2	94.7	101.8	106.2	107.1
127.5°	103.6	102.7	98.3	93.0	101.8	107.1	97.4	85.9	89.4	93.8	95.6
130°	98.3	97.4	93.0	86.8	89.4	101.8	87.6	82.3	86.8	91.2	91.2
132.5°	94.7	93.8	90.3	84.1	79.7	93.0	78.8	80.6	86.8	91.2	91.2
135°	87.6	87.6	83.2	74.4	63.7	68.2	63.7	72.6	79.7	83.2	84.1
137.5°	75.2	75.2	71.7	63.7	51.3	48.7	50.5	62.0	69.9	73.5	73.5
140°	59.3	58.4	54.9	47.8	33.6	23.0	32.8	46.9	54.9	58.4	58.4
142.5°	41.6	40.7	36.3	29.2	17.7	8.0	17.7	28.3	36.3	39.8	40.7
145°	26.6	26.6	23.0	17.7	8.9	2.7	7.1	16.8	22.1	25.7	25.7
147.5°	16.8	16.8	14.2	9.7	2.7	1.8	2.7	8.0	13.3	15.9	16.8
150°	9.7	9.7	7.1	3.5	1.8	0.9	1.8	2.7	5.3	8.0	8.0
152.5°	3.5	2.7	1.8	1.8	0.9	0.9	0.9	1.8	1.8	2.7	2.7
155°	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
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)