

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: P157010

Luminaire Tested: **UTLD-E02-LED-E-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157010
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33667)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-E02-LED-E-U-RW
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5250.8 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B3 - U0 - G1

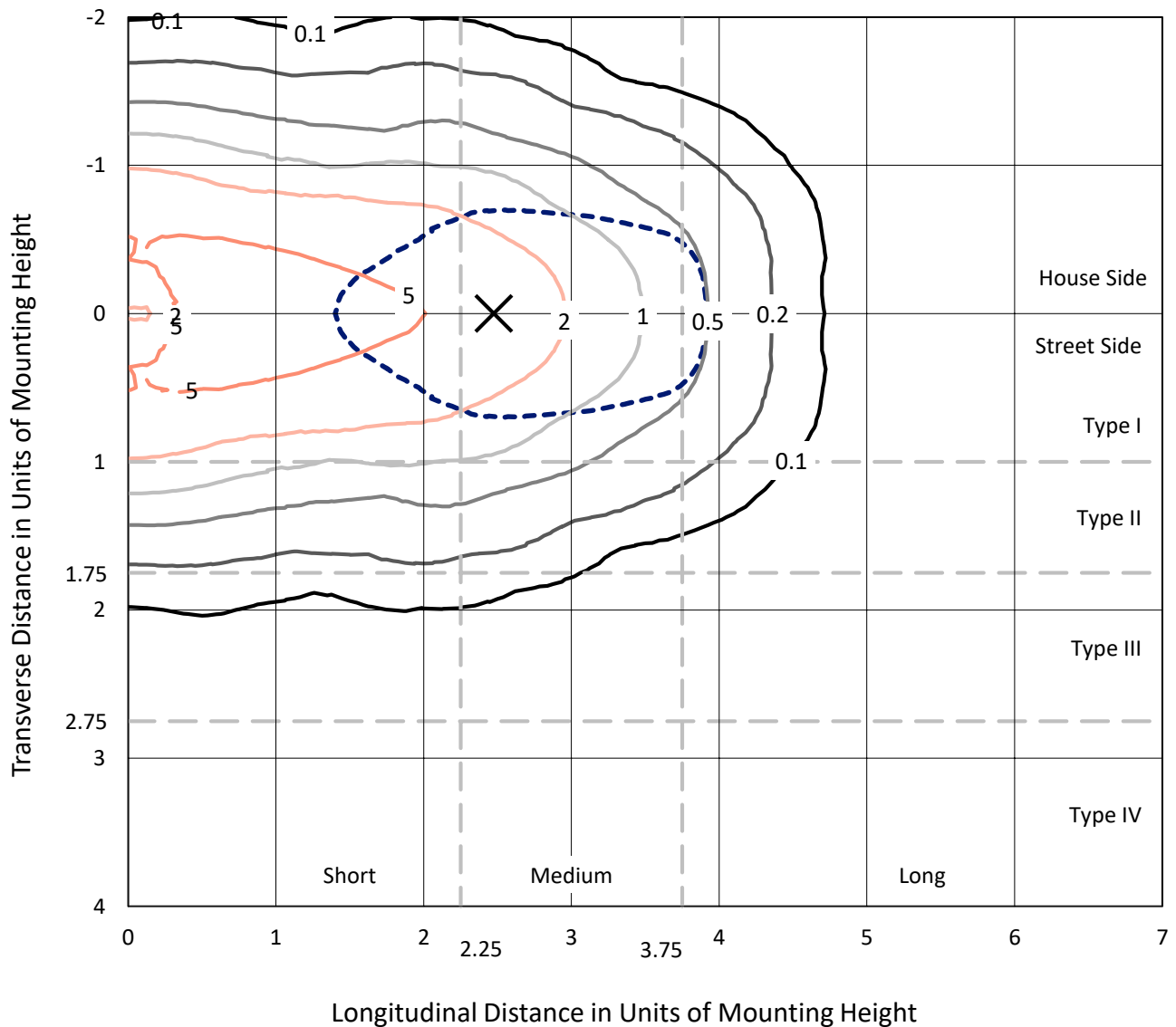
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

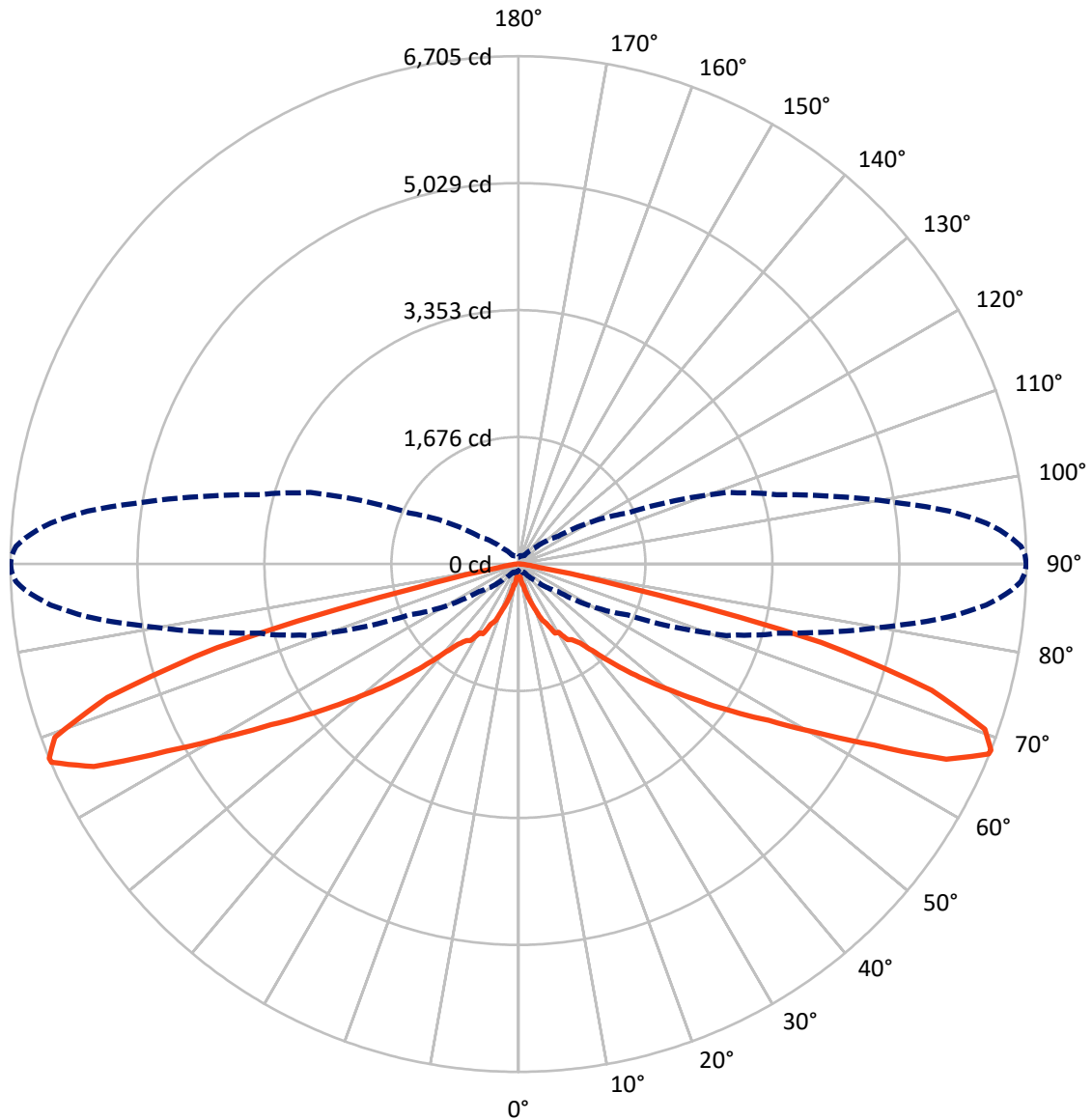


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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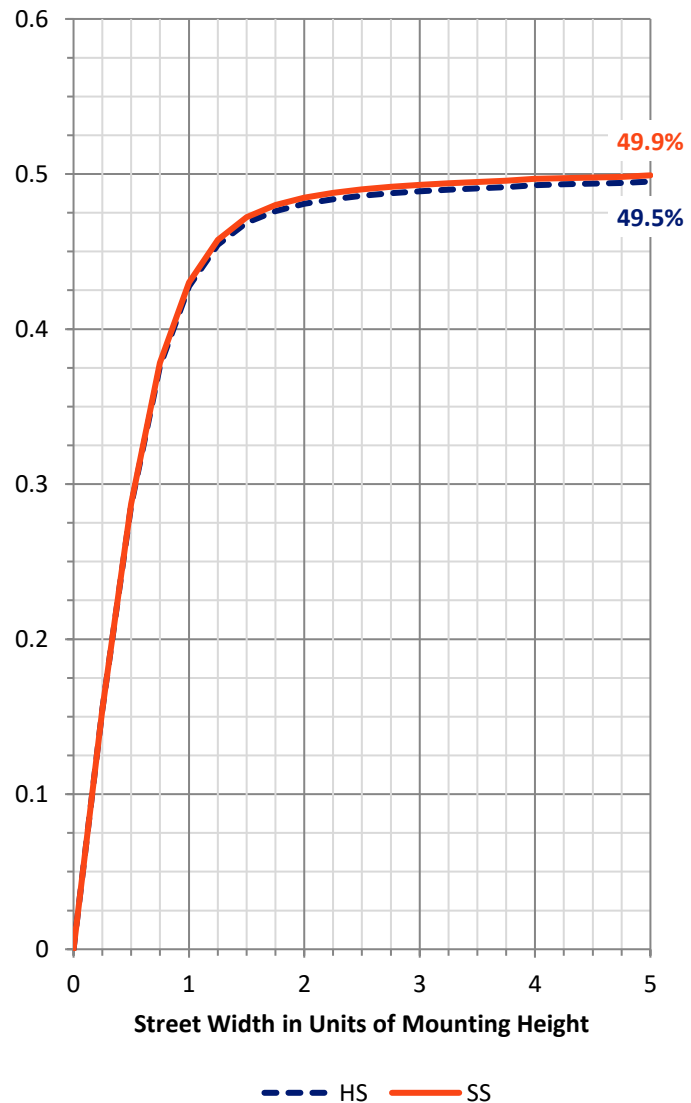
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2625.4	0.0	2625.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2625.4	0.0	2625.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	5250.8	0.0	5250.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.4	0.4
10°-20°	137.5	2.6
20°-30°	375.8	7.2
30°-40°	618.5	11.8
40°-50°	830.8	15.8
50°-60°	1043.7	19.9
60°-70°	1341.0	25.5
70°-80°	786.2	15.0
80°-90°	93.9	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5250.8	100.0
0°-180°	5250.8	100.0

Coefficient of Utilization



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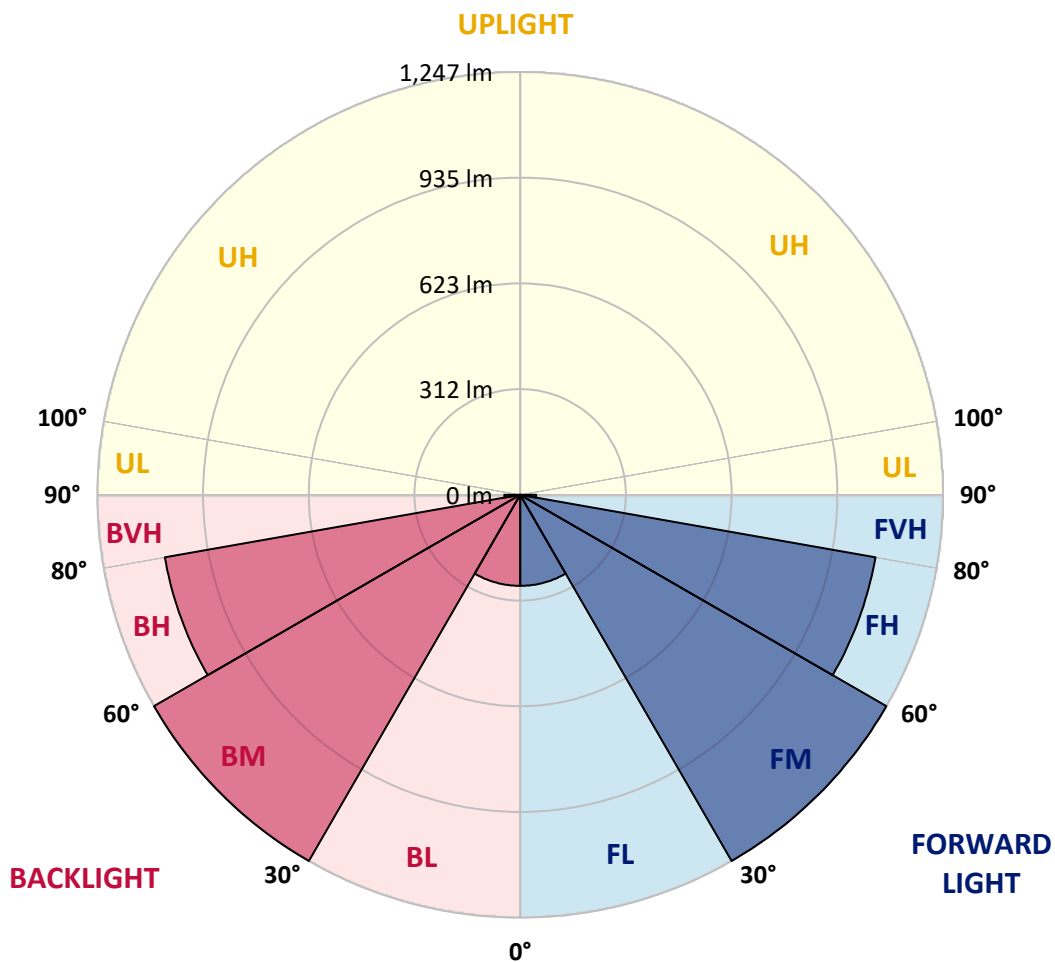
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	268.3	5.1			
FM	(30°-60°)	1246.5	23.7			
FH	(60°-80°)	1063.6	20.3			G1/1800
FVH	(80°-90°)	46.9	0.9			G1/100
BL	(0°-30°)	268.3	5.1	B1/500		
BM	(30°-60°)	1246.5	23.7	B2/2500		
BH	(60°-80°)	1063.6	20.3	B3/2500		G1/1800
BVH	(80°-90°)	46.9	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	168.0	168.0	168.0	168.0	168.0	168.0	168.0	168.0	168.0	168.0	168.0
2.5°	220.0	223.0	212.5	220.0	223.0	226.0	227.0	211.5	209.0	206.5	204.0
5°	205.0	210.0	205.5	207.0	213.0	255.0	249.5	216.5	217.2	217.9	218.6
7.5°	303.5	309.0	293.0	269.5	263.5	217.5	202.5	244.5	238.8	233.1	227.4
10°	338.5	329.0	329.0	328.0	321.0	275.0	287.0	302.0	312.4	322.8	333.2
12.5°	442.5	443.5	428.5	388.0	369.5	425.0	391.0	328.0	326.0	324.0	322.0
15°	500.5	495.0	455.0	450.0	536.5	485.5	446.5	498.5	489.4	480.3	471.2
17.5°	562.0	564.0	560.0	514.5	560.5	552.5	574.5	546.0	537.3	528.6	519.9
20°	608.5	610.0	606.5	639.5	639.0	652.5	610.0	668.0	677.6	687.2	696.8
22.5°	645.0	648.5	647.5	688.0	728.0	704.0	796.0	785.5	782.5	779.5	776.5
25°	703.5	704.0	674.5	709.5	774.5	818.0	864.5	938.5	946.7	954.9	963.1
27.5°	718.0	721.0	691.0	752.0	779.5	897.5	1047.5	1026.0	1018.4	1010.8	1003.2
30°	713.0	719.5	737.5	768.0	836.5	943.5	1054.5	1134.0	1128.6	1123.2	1117.8
32.5°	729.5	734.5	717.0	751.5	836.5	967.5	1129.0	1168.0	1180.7	1193.4	1206.1
35°	706.5	711.5	704.5	738.0	818.0	934.5	1120.0	1293.0	1289.0	1285.0	1281.0
37.5°	693.5	693.0	691.0	724.5	804.0	925.5	1168.0	1324.5	1330.0	1335.5	1341.0
40°	660.0	664.5	663.5	694.0	768.0	912.0	1151.5	1367.5	1387.0	1406.5	1426.0
42.5°	591.0	594.5	605.5	648.0	726.5	880.5	1138.0	1429.0	1454.0	1479.0	1504.0
45°	527.0	527.5	542.5	584.5	665.5	836.5	1139.5	1504.5	1531.1	1557.7	1584.3
47.5°	462.0	464.0	480.5	523.0	595.5	776.5	1133.5	1575.0	1609.6	1644.2	1678.8
50°	398.0	402.0	422.5	465.5	532.0	700.5	1105.0	1654.0	1697.1	1740.2	1783.3
52.5°	331.5	335.5	359.5	407.5	476.0	630.0	1041.0	1728.0	1784.6	1841.2	1897.8
55°	258.0	265.0	293.0	340.0	418.5	568.0	941.0	1795.0	1867.1	1939.2	2011.3
57.5°	189.0	193.0	221.0	270.0	355.5	511.0	832.0	1811.5	1902.8	1994.1	2085.4
60°	135.0	139.5	165.0	203.0	283.5	453.5	742.5	1768.0	1885.1	2002.2	2119.3
62.5°	111.0	114.5	137.0	156.0	217.0	391.5	680.5	1706.0	1859.7	2013.4	2167.1
65°	100.5	103.0	125.5	132.5	167.0	333.5	651.0	1687.0	1879.0	2071.0	2263.0
67.5°	92.0	96.0	116.5	120.0	142.0	301.5	641.0	1637.5	1849.5	2061.5	2273.5
68°	90.5	94.5	114.5	118.0	139.5	297.5	634.5	1594.5	1807.2	2019.9	2232.6
70°	85.5	89.0	107.0	110.5	136.0	278.0	563.5	1351.0	1549.4	1747.8	1946.2
72.5°	79.5	81.5	98.0	102.0	122.5	202.5	410.5	908.5	1075.4	1242.3	1409.2
75°	69.5	73.0	88.5	94.0	94.5	122.0	259.5	532.5	643.3	754.1	864.9
77.5°	60.0	63.5	77.0	93.5	78.0	85.0	166.5	316.5	366.5	416.5	466.5
80°	52.0	56.0	68.5	96.0	67.5	70.5	131.0	258.5	282.7	306.9	331.1
82.5°	40.0	44.5	60.0	87.0	56.0	57.0	106.0	246.0	264.2	282.4	300.6
85°	26.0	29.0	47.5	66.5	43.5	36.0	75.0	201.5	214.9	228.3	241.7
87.5°	12.5	19.0	33.0	34.5	26.5	19.5	41.5	122.5	132.6	142.7	152.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	168.0	168.0	168.0	168.0	168.0	168.0	168.0	168.0	168.0	168.0	168.0
2.5°	201.5	199.0	198.0	194.0	190.5	188.0	185.5	183.0	180.0	177.5	177.5
5°	219.3	220.0	223.0	223.0	223.0	221.5	218.5	215.5	214.0	207.5	200.5
7.5°	221.7	216.0	204.5	203.0	207.0	212.5	214.0	216.0	217.5	216.5	215.5
10°	343.6	354.0	355.0	351.5	349.0	339.0	330.5	314.0	315.5	324.0	327.0
12.5°	320.0	318.0	324.5	342.5	362.0	364.5	366.5	364.0	356.0	342.0	328.0
15°	462.1	453.0	453.0	452.0	449.0	444.5	452.0	468.5	474.5	473.5	472.0
17.5°	511.2	502.5	496.5	476.0	463.0	458.5	455.0	457.5	462.0	481.0	494.5
20°	706.4	716.0	727.5	719.0	714.0	700.5	683.0	678.0	674.0	678.5	683.0
22.5°	773.5	770.5	776.0	748.0	800.5	790.0	799.5	817.5	806.5	798.5	791.0
25°	971.3	979.5	971.0	968.0	952.0	940.0	947.5	944.5	921.0	907.5	910.5
27.5°	995.6	988.0	976.0	970.5	968.0	987.0	1005.0	977.5	1032.0	1018.5	1040.5
30°	1112.4	1107.0	1090.0	1086.0	1099.5	1091.5	1072.5	1074.0	1077.5	1077.0	1066.0
32.5°	1218.8	1231.5	1221.0	1249.5	1238.5	1215.5	1218.5	1233.5	1229.5	1212.5	1206.0
35°	1277.0	1273.0	1296.0	1298.0	1274.0	1272.5	1284.0	1282.5	1269.0	1271.5	1272.0
37.5°	1346.5	1352.0	1374.0	1351.5	1354.0	1367.5	1369.0	1354.5	1356.0	1362.0	1368.0
40°	1445.5	1465.0	1449.5	1447.0	1468.0	1491.0	1477.0	1478.0	1490.0	1505.0	1491.5
42.5°	1529.0	1554.0	1548.5	1575.0	1607.0	1620.0	1629.0	1653.5	1679.5	1670.5	1702.5
45°	1610.9	1637.5	1662.0	1712.5	1745.5	1756.0	1806.5	1844.5	1857.5	1879.5	1921.0
47.5°	1713.4	1748.0	1800.0	1854.0	1873.5	1928.0	1987.5	2023.0	2047.5	2114.5	2134.0
50°	1826.4	1869.5	1938.0	1983.5	2021.5	2090.5	2159.5	2192.0	2271.5	2318.5	2358.0
52.5°	1954.4	2011.0	2079.0	2109.0	2174.5	2268.5	2311.5	2370.0	2458.5	2516.5	2611.0
55°	2083.4	2155.5	2202.5	2256.0	2333.0	2416.0	2457.5	2568.5	2633.0	2730.0	2857.5
57.5°	2176.7	2268.0	2305.0	2393.0	2483.0	2530.5	2622.5	2723.0	2801.5	2960.0	3089.5
60°	2236.4	2353.5	2429.0	2531.0	2618.0	2679.5	2806.0	2900.5	3039.5	3218.5	3373.0
62.5°	2320.8	2474.5	2611.5	2749.0	2799.5	2925.5	3054.0	3167.5	3390.0	3587.5	3785.0
65°	2455.0	2647.0	2844.5	2992.5	3093.0	3260.0	3395.5	3581.5	3831.5	4081.5	4309.0
67.5°	2485.5	2697.5	2938.5	3072.5	3237.0	3410.0	3549.5	3797.5	4046.5	4310.5	4581.5
68°	2445.3	2658.0	2903.5	3039.0	3211.5	3385.0	3529.5	3775.0	4024.0	4286.5	4563.0
70°	2144.6	2343.0	2570.0	2735.0	2934.5	3071.0	3259.0	3488.5	3723.5	3998.0	4278.0
72.5°	1576.1	1743.0	1959.5	2121.5	2334.5	2450.5	2637.5	2835.0	3067.5	3338.5	3617.5
75°	975.7	1086.5	1258.0	1403.5	1553.0	1664.0	1828.0	2008.0	2184.0	2399.0	2643.5
77.5°	516.5	566.5	667.5	739.5	817.0	869.0	922.0	1027.5	1076.0	1134.0	1211.5
80°	355.3	379.5	414.0	433.5	424.5	388.5	339.0	322.0	306.5	285.5	266.0
82.5°	318.8	337.0	359.5	378.0	379.0	345.0	283.0	237.5	205.5	174.5	150.5
85°	255.1	268.5	283.0	298.0	312.5	291.0	246.0	193.0	149.0	119.5	102.5
87.5°	162.9	173.0	182.5	200.0	207.5	201.5	179.0	142.0	105.5	81.0	67.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
0°	168.0	168.0	168.0	168.0	168.0	168.0	168.0	168.0	168.0	168.0	168.0
2.5°	172.5	172.5	171.5	170.5	169.0	168.0	167.5	168.0	167.5	167.0	167.0
5°	195.0	188.5	182.5	179.0	175.0	173.0	175.0	171.0	169.5	168.5	169.0
7.5°	215.5	214.5	212.5	203.5	190.0	178.0	172.5	170.5	170.5	170.0	170.0
10°	328.0	325.0	320.0	314.5	310.0	296.5	280.5	274.5	270.5	270.0	269.0
12.5°	330.5	336.5	338.5	338.5	334.0	331.5	316.0	299.0	289.5	289.0	288.0
15°	460.0	439.5	444.0	451.0	450.0	449.5	450.5	430.0	416.5	414.5	414.0
17.5°	492.0	501.5	477.5	529.0	502.0	531.5	517.5	546.0	524.0	533.5	536.0
20°	696.5	694.0	690.5	680.5	679.0	687.5	696.5	689.0	667.5	656.0	649.0
22.5°	796.0	812.0	819.0	816.5	807.0	802.5	801.0	795.5	792.5	797.5	802.0
25°	916.0	909.0	917.0	916.5	908.0	901.5	912.0	918.5	917.5	892.0	874.0
27.5°	1037.5	1024.0	1021.5	1022.5	1031.5	1029.5	1032.0	1026.5	1017.0	1023.5	1032.0
30°	1055.0	1049.5	1057.0	1048.5	1051.5	1047.0	1039.5	1034.0	1057.0	1053.5	1045.0
32.5°	1203.5	1209.0	1192.5	1188.5	1188.0	1173.0	1174.0	1185.5	1180.0	1187.5	1189.0
35°	1274.0	1259.0	1254.5	1245.0	1230.5	1244.0	1239.0	1237.5	1236.5	1235.5	1229.0
37.5°	1355.5	1366.5	1353.5	1338.5	1354.5	1346.5	1341.0	1339.5	1337.0	1328.0	1326.0
40°	1503.0	1515.0	1504.5	1524.0	1520.5	1525.0	1515.0	1511.0	1501.0	1506.0	1502.0
42.5°	1706.5	1710.0	1740.5	1761.5	1760.5	1760.5	1754.5	1754.0	1734.0	1736.0	1745.0
45°	1928.0	1970.0	1996.5	2021.5	2030.5	2033.5	2022.5	2033.5	2018.0	2000.0	2017.0
47.5°	2176.5	2233.0	2268.5	2294.0	2306.5	2304.5	2315.0	2310.0	2302.5	2315.0	2311.0
50°	2450.5	2500.0	2552.5	2574.0	2581.0	2598.0	2617.0	2632.5	2639.5	2625.5	2635.0
52.5°	2698.0	2776.0	2837.0	2869.0	2900.0	2923.5	2956.5	2987.0	2998.5	3009.0	3010.0
55°	2965.0	3068.0	3137.5	3193.0	3244.5	3289.0	3339.0	3378.5	3410.5	3433.0	3436.0
57.5°	3218.5	3333.5	3424.0	3530.0	3593.0	3679.0	3744.0	3808.0	3868.0	3882.0	3893.0
60°	3537.5	3679.0	3826.5	3931.5	4057.0	4191.5	4279.5	4370.0	4405.5	4472.0	4509.0
62.5°	3976.5	4141.5	4349.0	4508.0	4682.0	4849.0	4999.0	5111.0	5165.0	5237.5	5264.0
65°	4554.5	4814.0	5029.5	5283.5	5500.5	5703.0	5881.5	6039.0	6115.0	6200.5	6210.0
67.5°	4852.0	5134.0	5436.0	5725.5	5959.5	6194.5	6367.0	6516.5	6635.0	6680.5	6697.0
68°	4840.5	5124.0	5439.0	5730.0	5970.0	6199.5	6373.5	6524.5	6639.0	6689.0	6705.0
70°	4596.0	4869.0	5232.5	5514.0	5763.0	6011.0	6176.5	6327.0	6425.5	6482.0	6534.0
72.5°	3898.0	4220.5	4538.5	4803.0	5070.5	5275.0	5401.0	5568.0	5616.5	5684.0	5705.0
75°	2870.0	3149.0	3373.0	3538.0	3730.0	3870.5	3981.5	3981.5	4045.5	4056.5	4128.0
77.5°	1323.5	1341.5	1377.5	1351.5	1374.5	1413.0	1366.0	1312.5	1347.0	1255.5	1337.0
80°	274.0	258.0	266.0	257.0	259.0	263.0	270.5	266.5	266.0	262.0	267.0
82.5°	137.0	135.5	136.0	136.5	136.5	136.5	137.0	137.0	138.0	136.0	136.0
85°	92.5	88.5	89.0	87.0	86.0	85.5	82.5	79.5	81.0	80.0	76.0
87.5°	60.0	55.5	53.5	51.0	48.5	46.5	44.0	41.0	37.5	36.5	35.0
90°	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)