

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: P156868

Luminaire Tested: **AVS-E03-LED-E-U-T4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156868
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: AVS-E03-LED-E-U-T4-8030
Description: VISION SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7651.7 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

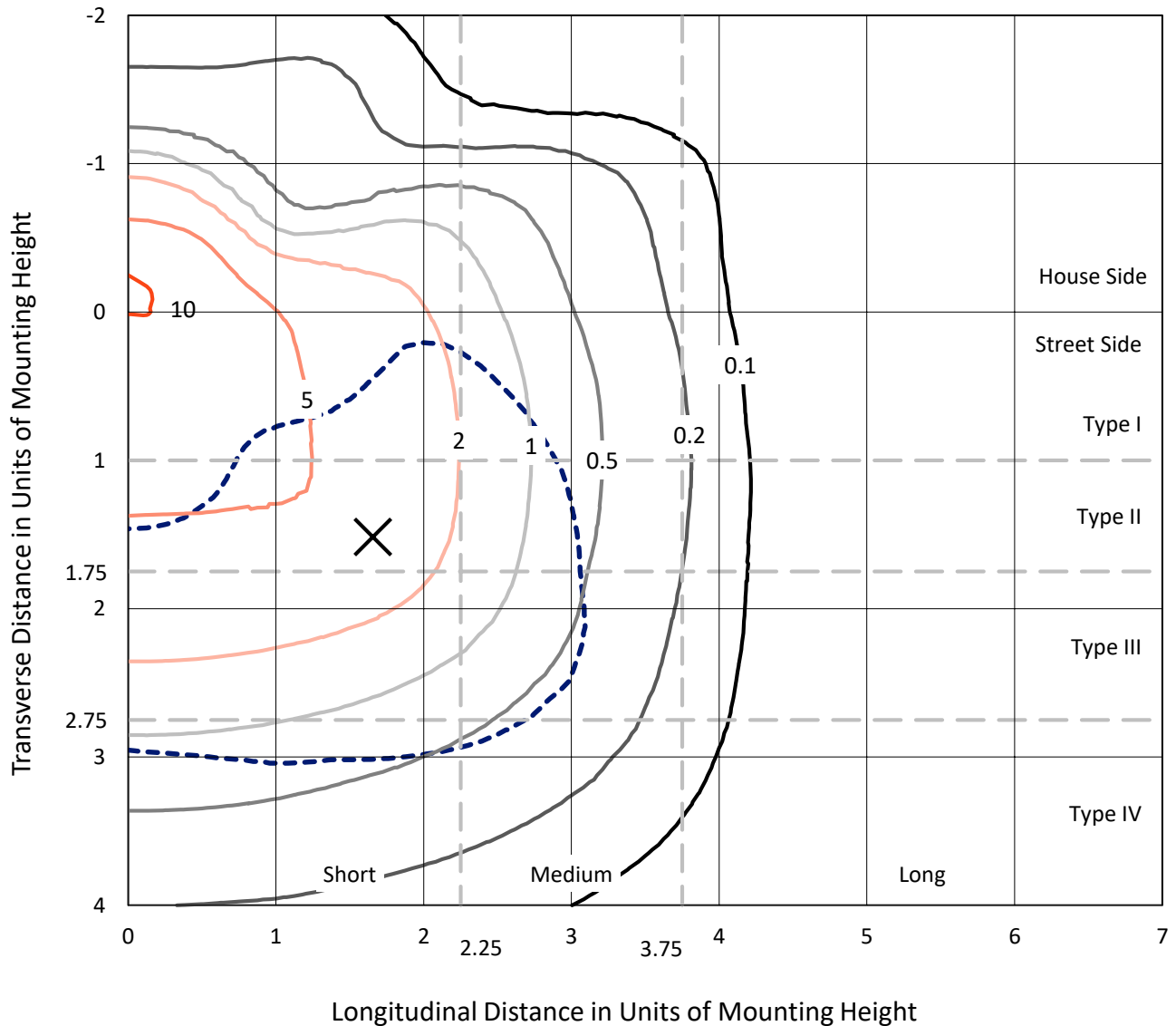
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

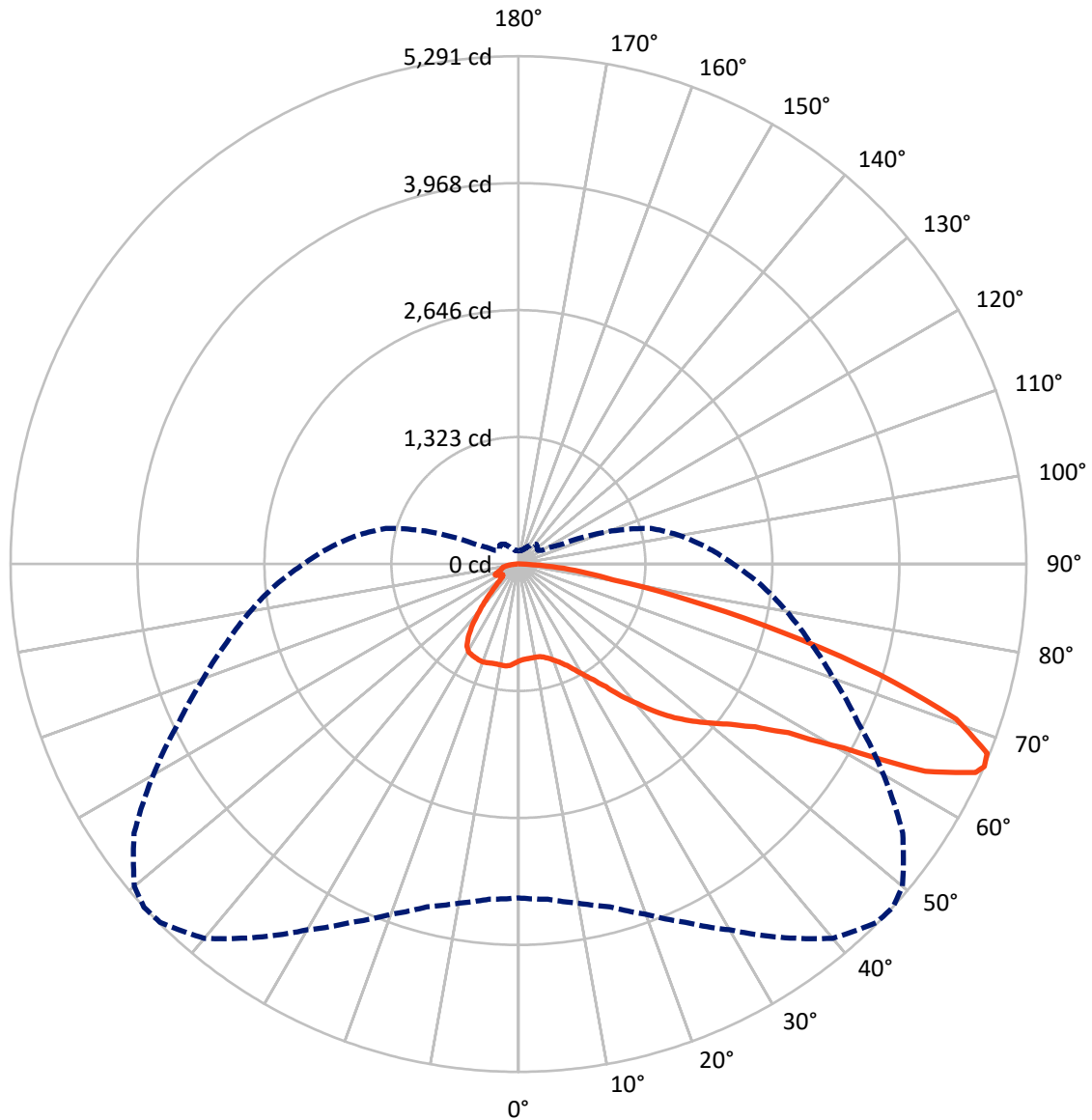


Based on 10 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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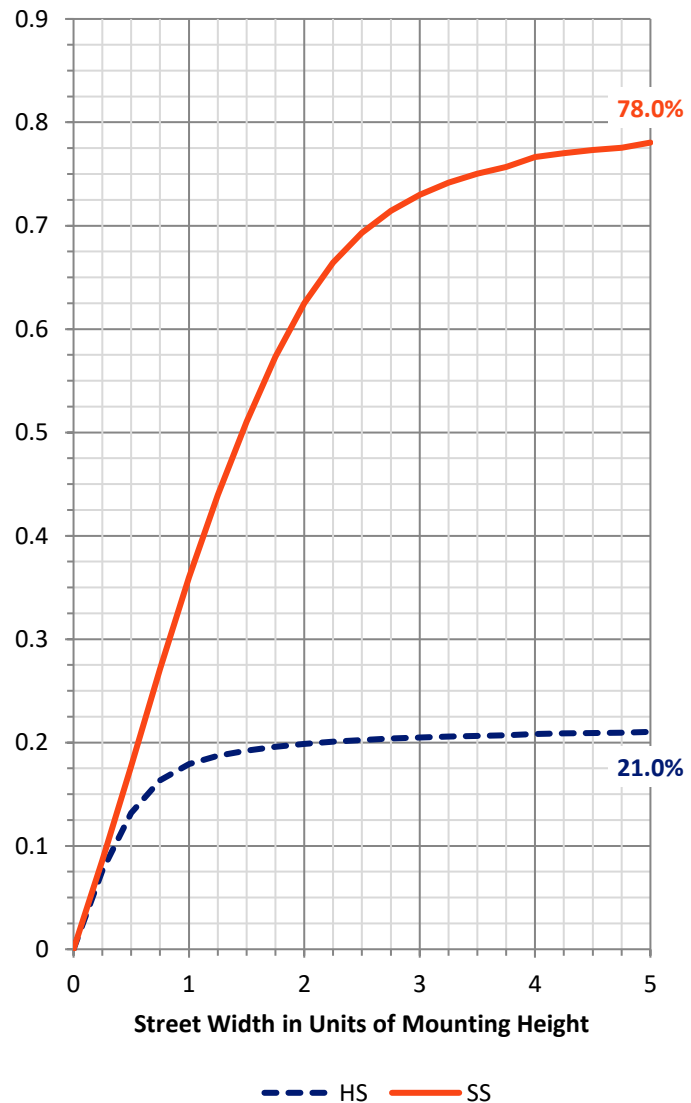
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1632.7	0.0	1632.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	6019.0	0.0	6019.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	7651.7	0.0	7651.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	1.3
10°-20°	297.4	3.9
20°-30°	512.2	6.7
30°-40°	774.9	10.1
40°-50°	1004.4	13.1
50°-60°	1384.7	18.1
60°-70°	2151.4	28.1
70°-80°	1251.0	16.3
80°-90°	177.9	2.3
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°	7651.7	100.0
0°-180°	7651.7	100.0



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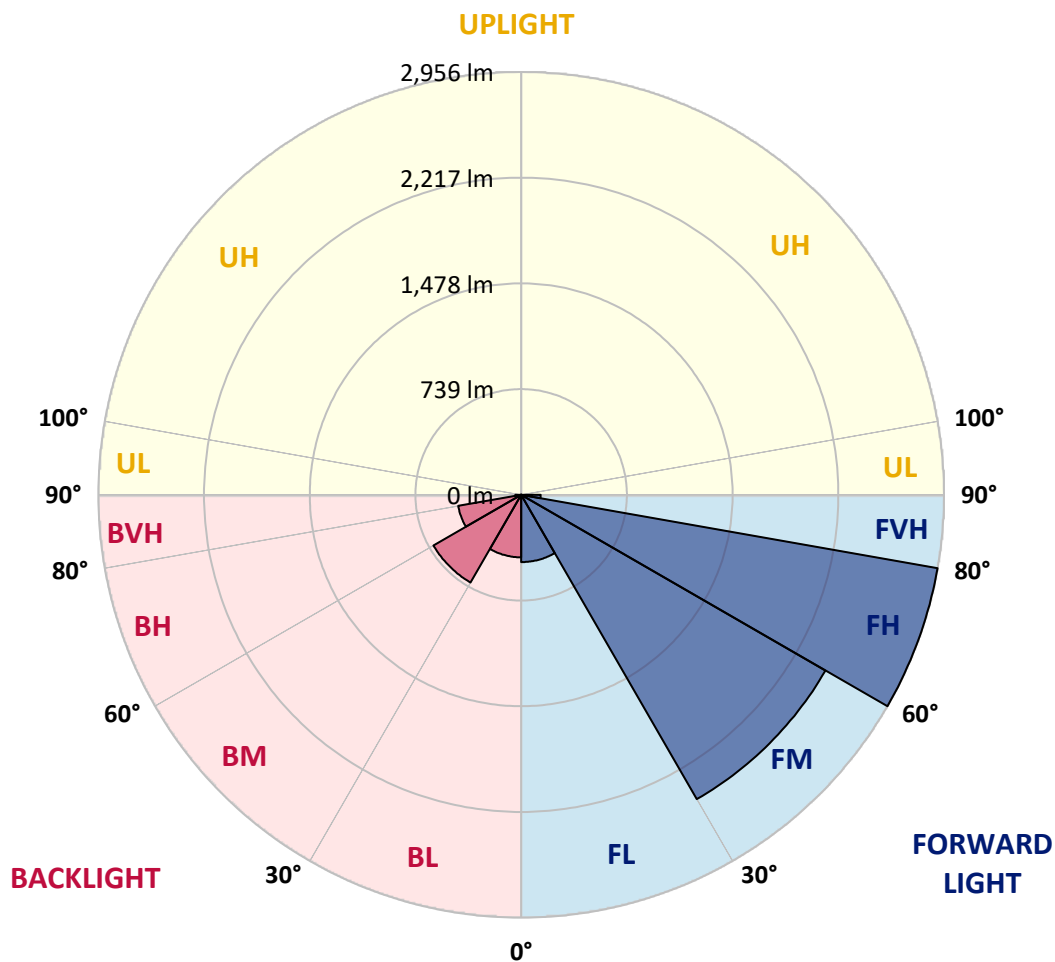
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	470.4	6.1			
FM	(30°-60°)	2456.2	32.1			
FH	(60°-80°)	2955.9	38.6			G2/5000
FVH	(80°-90°)	136.5	1.8			G2/225
BL	(0°-30°)	437.0	5.7	B1/500		
BM	(30°-60°)	707.8	9.2	B1/1000		
BH	(60°-80°)	446.5	5.8	B1/500		G1/500
BVH	(80°-90°)	41.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1008.6	1008.6	1008.6	1008.6	1008.6	1008.6	1008.6	1008.6	1008.6	1008.6	1008.6
2.5°	990.1	993.4	990.9	991.7	991.7	992.5	992.5	993.4	992.5	995.0	996.8
5°	972.2	974.0	973.2	974.8	976.5	979.9	979.1	983.2	984.1	986.6	990.9
7.5°	965.5	963.8	964.7	967.3	968.9	970.6	972.2	975.6	978.1	984.1	987.5
10°	972.2	971.4	972.2	974.0	974.0	974.8	973.2	976.5	978.1	983.2	986.6
12.5°	1000.1	1000.1	998.4	998.4	996.8	995.0	990.9	988.3	987.5	988.3	990.1
15°	1044.9	1043.2	1039.8	1037.3	1033.9	1028.0	1022.1	1017.0	1013.7	1008.6	1006.8
17.5°	1088.7	1086.2	1082.8	1079.5	1075.2	1069.3	1060.1	1054.1	1044.9	1039.0	1035.5
20°	1139.4	1134.3	1130.2	1125.9	1117.4	1115.8	1106.4	1096.4	1085.4	1071.9	1070.2
22.5°	1205.2	1196.8	1191.7	1189.2	1180.7	1178.2	1163.0	1148.7	1135.1	1117.4	1113.3
25°	1271.9	1263.4	1260.9	1257.5	1251.6	1248.3	1233.9	1217.9	1200.1	1175.6	1170.6
27.5°	1336.9	1337.7	1331.0	1333.5	1331.8	1325.9	1311.6	1295.5	1282.1	1253.4	1247.5
30°	1417.9	1412.8	1409.4	1414.5	1408.6	1409.4	1396.8	1388.4	1366.4	1349.5	1337.7
32.5°	1502.3	1501.5	1506.5	1509.9	1509.0	1507.4	1497.2	1488.8	1469.4	1444.9	1439.9
35°	1617.9	1623.0	1627.3	1642.4	1642.4	1653.4	1643.2	1633.2	1610.4	1580.8	1570.7
37.5°	1696.4	1698.1	1715.0	1735.2	1760.5	1784.1	1791.0	1793.5	1784.1	1762.3	1747.0
40°	1768.2	1771.5	1798.5	1829.7	1866.9	1913.4	1941.1	1953.9	1956.4	1946.2	1913.4
42.5°	1839.9	1845.0	1872.8	1918.3	1969.8	2028.9	2077.9	2109.1	2126.8	2126.8	2107.5
45°	1923.4	1930.3	1960.6	2010.4	2070.3	2144.6	2212.1	2272.0	2300.7	2302.4	2283.8
47.5°	2022.2	2028.1	2063.5	2114.2	2175.9	2250.9	2336.2	2404.6	2457.7	2461.0	2445.9
50°	2149.6	2158.1	2187.7	2233.2	2296.5	2372.4	2457.7	2553.1	2608.8	2622.3	2606.2
52.5°	2318.4	2320.1	2344.6	2386.8	2448.4	2521.0	2611.3	2715.1	2788.5	2799.5	2773.4
55°	2551.4	2548.8	2564.9	2610.5	2656.9	2713.5	2807.2	2923.6	3005.5	3022.3	2995.3
57.5°	2867.9	2865.4	2878.9	2889.8	2976.8	3031.6	3123.6	3235.0	3314.4	3363.3	3316.9
60°	3358.2	3355.8	3377.6	3441.8	3506.7	3586.9	3676.4	3809.7	3921.1	3935.5	3889.9
62.5°	3713.6	3726.2	3774.3	3849.4	3981.1	4138.1	4301.9	4477.4	4706.1	4778.7	4756.7
65°	3589.5	3614.8	3681.5	3795.4	3971.0	4187.9	4444.5	4762.6	5069.0	5240.3	5235.2
66°	3478.1	3505.9	3587.8	3697.5	3883.2	4120.4	4400.5	4747.5	5090.2	5279.2	5291.0
67.5°	3275.5	3306.7	3386.9	3516.9	3697.5	3949.8	4251.2	4628.5	5015.9	5236.2	5267.4
70°	2881.3	2916.8	2975.0	3082.3	3260.3	3485.7	3803.0	4140.6	4546.5	4799.0	4836.9
72.5°	2408.7	2440.0	2505.0	2592.7	2738.8	2880.5	3129.5	3378.4	3668.8	3956.6	3928.8
75°	1729.3	1742.8	1781.7	1877.0	1955.5	2083.0	2283.0	2487.3	2685.6	2817.2	2835.9
77.5°	898.9	934.3	989.1	1094.6	1179.9	1294.7	1424.7	1578.2	1723.4	1844.1	1811.2
80°	588.3	603.4	652.4	706.4	768.9	842.3	929.2	986.6	1005.2	997.6	1005.2
82.5°	339.3	367.2	432.1	473.5	519.9	545.2	614.4	680.2	717.4	671.0	654.1
85°	43.0	55.8	175.5	221.1	253.2	291.2	312.2	351.9	328.3	293.7	357.8
87.5°	9.3	8.4	11.8	25.3	26.1	22.0	41.3	43.9	27.0	13.5	16.9
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1008.6	1008.6	1008.6	1008.6	1008.6	1008.6	1008.6	1008.6	1008.6	1008.6	1008.6
2.5°	998.4	999.3	1000.9	1003.5	1005.2	1006.8	1008.6	1011.1	1012.7	1014.5	1017.8
5°	994.2	997.6	1000.9	1004.4	1008.6	1015.3	1019.6	1022.9	1026.3	1033.1	1035.5
7.5°	991.7	997.6	1002.7	1008.6	1015.3	1021.2	1028.8	1033.1	1038.1	1042.3	1047.4
10°	990.1	998.4	1003.5	1011.9	1019.6	1025.5	1033.9	1039.0	1044.9	1049.9	1052.4
12.5°	993.4	997.6	1002.7	1011.1	1020.4	1028.8	1038.1	1042.3	1047.4	1051.6	1052.4
15°	1007.8	1007.8	1008.6	1015.3	1024.6	1031.4	1039.0	1043.2	1045.7	1048.2	1048.2
17.5°	1033.9	1028.0	1023.7	1024.6	1030.5	1034.7	1039.0	1039.0	1037.3	1036.4	1034.7
20°	1064.2	1056.7	1048.2	1042.3	1040.6	1037.3	1034.7	1026.3	1019.6	1013.7	1009.4
22.5°	1108.2	1096.4	1084.6	1073.6	1063.4	1050.8	1036.4	1019.6	1003.5	992.5	985.8
25°	1162.2	1152.8	1138.5	1121.7	1109.0	1085.4	1066.8	1042.3	1022.1	1007.8	996.0
27.5°	1239.0	1228.0	1214.5	1199.3	1180.7	1154.6	1131.8	1103.1	1078.7	1057.5	1042.3
30°	1334.3	1320.0	1309.8	1291.3	1278.7	1249.1	1226.3	1190.9	1143.6	1109.8	1088.7
32.5°	1432.2	1416.2	1407.8	1393.5	1379.1	1361.3	1326.7	1271.9	1211.1	1156.3	1120.0
35°	1563.1	1546.2	1531.0	1518.3	1497.2	1464.4	1434.0	1368.1	1284.6	1207.8	1146.9
37.5°	1727.7	1699.8	1661.9	1629.7	1592.6	1545.4	1499.0	1431.4	1336.1	1236.5	1155.4
40°	1903.2	1854.2	1800.2	1740.3	1676.2	1607.8	1554.6	1486.2	1379.1	1260.9	1149.5
42.5°	2086.3	2008.7	1933.6	1849.2	1759.7	1678.7	1609.5	1534.4	1411.2	1267.7	1125.9
45°	2267.8	2180.8	2066.9	1956.4	1843.3	1742.8	1665.2	1580.8	1440.7	1270.2	1094.6
47.5°	2418.0	2328.6	2198.5	2060.2	1926.0	1812.0	1720.9	1629.7	1480.3	1288.0	1087.0
50°	2576.7	2467.9	2323.5	2159.8	2007.9	1880.4	1783.3	1688.8	1536.1	1333.5	1111.5
52.5°	2749.7	2624.8	2456.1	2272.8	2106.6	1963.9	1858.4	1761.5	1606.9	1397.6	1157.9
55°	2960.7	2808.0	2624.8	2418.0	2240.0	2082.2	1965.7	1850.9	1691.4	1473.6	1216.2
57.5°	3283.1	3095.8	2889.8	2654.3	2456.9	2270.4	2131.1	1998.5	1822.2	1586.7	1295.5
60°	3866.3	3666.3	3398.8	3113.5	2881.3	2663.6	2459.4	2294.8	2077.9	1809.5	1471.1
62.5°	4701.9	4436.1	4079.0	3679.8	3376.0	3062.0	2831.6	2586.8	2317.6	2028.1	1677.8
65°	5166.1	4843.6	4366.0	3902.6	3511.8	3170.9	2878.0	2594.4	2295.6	2018.9	1726.0
66°	5223.4	4887.6	4391.3	3903.4	3493.3	3143.0	2834.9	2541.2	2235.8	1971.6	1705.7
67.5°	5199.8	4856.4	4344.9	3830.1	3413.1	3036.7	2718.4	2413.8	2109.1	1862.7	1638.1
70°	4812.4	4486.6	3984.5	3485.7	3089.8	2718.4	2414.6	2115.0	1835.6	1624.7	1459.3
72.5°	3996.3	3717.8	3281.5	2889.8	2579.3	2272.8	2015.4	1729.3	1493.1	1336.9	1239.0
75°	2884.8	2716.0	2318.4	2094.0	1821.3	1617.9	1368.1	1198.4	1028.8	952.8	936.0
77.5°	1822.2	1595.1	1342.8	1105.6	909.0	753.7	586.5	497.9	415.2	406.8	491.2
80°	922.5	830.5	639.8	509.7	428.7	346.8	274.3	207.7	145.2	174.7	209.3
82.5°	604.2	503.8	395.0	325.0	282.7	234.6	182.3	126.6	92.8	104.7	143.5
85°	326.6	278.5	224.5	177.2	143.5	128.3	86.1	60.7	59.9	64.1	81.9
87.5°	23.6	23.6	18.5	16.9	20.2	16.9	15.2	15.2	14.3	15.2	20.2
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1008.6	1008.6	1008.6	1008.6	1008.6	1008.6	1008.6	1008.6	1008.6	1008.6	1008.6
2.5°	1019.6	1022.1	1022.9	1027.2	1029.6	1031.4	1033.1	1033.1	1033.9	1036.4	1037.3
5°	1039.0	1043.2	1048.2	1051.6	1053.3	1058.3	1060.1	1060.1	1061.8	1065.1	1067.7
7.5°	1050.8	1056.7	1061.8	1063.4	1066.8	1068.5	1071.0	1072.7	1072.7	1076.1	1077.8
10°	1055.0	1058.3	1063.4	1063.4	1066.8	1066.8	1069.3	1070.2	1070.2	1073.6	1076.1
12.5°	1055.0	1056.7	1060.9	1060.9	1063.4	1064.2	1067.7	1070.2	1071.0	1075.2	1078.7
15°	1049.9	1051.6	1055.0	1055.9	1061.8	1065.1	1072.7	1077.8	1077.8	1082.0	1083.7
17.5°	1035.5	1039.8	1046.5	1053.3	1064.2	1071.9	1081.1	1085.4	1082.0	1079.5	1076.9
20°	1011.9	1019.6	1035.5	1052.4	1071.9	1082.0	1087.0	1082.8	1071.0	1059.2	1051.6
22.5°	988.3	1003.5	1030.5	1055.9	1077.8	1084.6	1082.0	1066.8	1047.4	1033.1	1022.9
25°	999.3	1017.0	1043.2	1066.0	1080.3	1078.7	1068.5	1047.4	1026.3	1007.8	990.9
27.5°	1044.9	1064.2	1078.7	1086.2	1084.6	1072.7	1056.7	1033.1	1007.8	983.2	959.6
30°	1087.9	1098.0	1101.5	1095.5	1082.0	1062.6	1042.3	1015.3	981.6	951.2	924.1
32.5°	1107.4	1097.2	1081.1	1065.1	1043.2	1026.3	998.4	968.9	926.7	890.4	863.4
35°	1107.4	1066.8	1026.3	992.5	959.6	938.5	906.4	866.7	828.0	797.6	776.5
37.5°	1082.8	1005.2	938.5	883.6	842.3	819.5	771.4	736.0	703.0	693.0	679.4
40°	1038.1	923.3	827.2	755.3	703.0	669.3	621.1	596.7	584.0	579.0	576.5
42.5°	978.1	832.1	703.9	615.2	558.8	520.7	488.7	473.5	472.6	471.8	471.8
45°	914.1	734.3	584.0	478.5	428.7	395.0	379.8	373.9	379.0	378.1	379.0
47.5°	874.4	660.0	474.3	362.1	324.0	302.2	294.5	297.1	301.3	299.6	299.6
50°	869.3	622.1	400.9	281.9	253.2	242.2	240.5	240.5	243.1	241.3	240.5
52.5°	887.9	616.1	362.9	242.2	219.5	210.2	208.5	207.7	206.7	201.8	197.5
55°	920.0	629.6	351.9	232.1	208.5	198.3	195.9	194.1	190.8	184.0	176.4
57.5°	984.1	671.8	362.1	237.2	211.8	203.4	200.8	200.8	194.1	183.1	172.1
60°	1138.5	779.0	403.4	256.6	227.9	219.5	221.1	220.3	210.2	194.1	177.2
62.5°	1337.7	919.1	457.4	283.6	248.1	246.4	254.9	253.2	236.3	211.8	187.4
65°	1429.7	985.0	472.6	289.5	252.3	260.0	276.8	275.1	254.0	220.3	189.0
66°	1431.4	985.0	465.9	284.5	246.4	255.8	272.6	271.8	250.7	216.9	185.7
67.5°	1396.8	957.9	446.4	274.3	234.6	241.3	256.6	255.8	236.3	208.5	179.0
70°	1266.8	857.5	396.7	256.6	218.5	215.2	220.3	216.9	204.2	184.9	164.6
72.5°	1085.4	719.9	346.0	243.1	207.7	194.1	190.8	188.2	178.0	167.2	154.4
75°	854.9	569.7	303.8	233.0	197.5	179.8	173.9	170.5	163.7	156.2	146.0
77.5°	527.5	407.7	265.0	219.5	189.9	172.1	168.0	162.9	152.7	143.5	135.9
80°	235.4	252.3	217.7	191.6	169.6	153.6	146.8	139.3	129.1	123.2	119.0
82.5°	157.0	162.9	157.8	143.5	128.3	115.6	105.5	105.5	103.8	98.8	97.1
85°	100.4	101.2	97.9	88.6	82.7	75.1	70.9	71.7	75.1	74.3	73.5
87.5°	22.8	22.8	27.0	25.3	29.5	31.2	33.8	36.3	41.3	41.3	43.9
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):

	160°	165°	170°	175°	180°
0°	1008.6	1008.6	1008.6	1008.6	1008.6
2.5°	1038.1	1039.8	1041.5	1039.0	1039.8
5°	1067.7	1066.8	1071.0	1068.5	1070.2
7.5°	1076.9	1077.8	1081.1	1081.1	1082.0
10°	1077.8	1079.5	1083.7	1086.2	1087.9
12.5°	1082.0	1085.4	1092.1	1093.8	1093.8
15°	1085.4	1087.0	1091.3	1093.0	1094.6
17.5°	1073.6	1070.2	1071.9	1072.7	1071.9
20°	1044.0	1040.6	1039.8	1036.4	1038.1
22.5°	1011.9	1002.7	996.8	990.1	990.1
25°	973.2	958.8	946.9	935.1	937.7
27.5°	936.8	918.2	906.4	898.9	897.2
30°	901.3	882.0	871.0	861.8	861.8
32.5°	842.3	828.8	814.4	808.5	807.7
35°	760.4	752.0	740.2	737.6	733.5
37.5°	668.4	665.9	655.8	654.9	650.7
40°	572.2	573.9	570.6	568.8	566.3
42.5°	476.1	484.5	482.8	482.0	480.2
45°	384.0	389.9	390.8	393.3	397.5
47.5°	302.2	303.8	305.5	304.7	305.5
50°	236.3	232.1	231.3	228.7	231.3
52.5°	190.8	184.0	180.6	177.2	175.5
55°	168.0	161.2	157.8	156.2	154.4
57.5°	162.1	155.3	150.3	146.8	146.0
60°	163.7	153.6	146.8	142.6	141.8
62.5°	168.0	154.4	145.2	140.9	140.1
65°	167.2	152.7	144.4	139.3	138.4
66°	164.6	151.1	142.6	138.4	137.6
67.5°	160.3	148.5	140.9	137.6	135.9
70°	152.7	145.2	139.3	135.0	133.4
72.5°	146.0	140.1	135.0	130.8	129.9
75°	138.4	133.4	128.3	124.9	124.0
77.5°	129.1	124.0	120.7	118.1	117.3
80°	114.0	110.6	107.2	103.8	103.8
82.5°	94.5	92.0	88.6	86.1	85.3
85°	72.5	72.5	70.1	67.6	66.6
87.5°	43.0	42.2	42.2	39.7	39.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)