

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: P156870

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156870
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
Description: VISION SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9066.1 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - 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

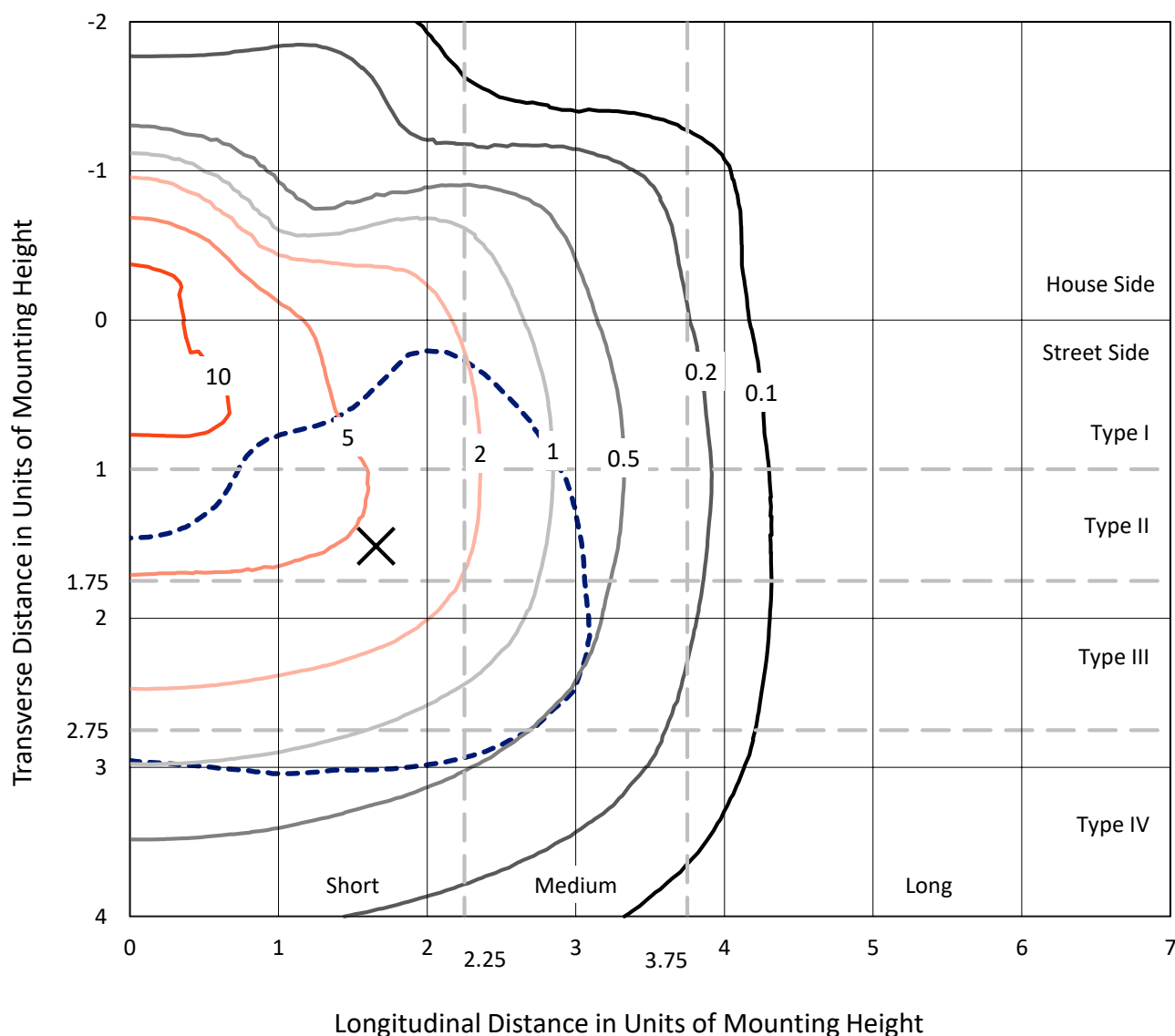


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

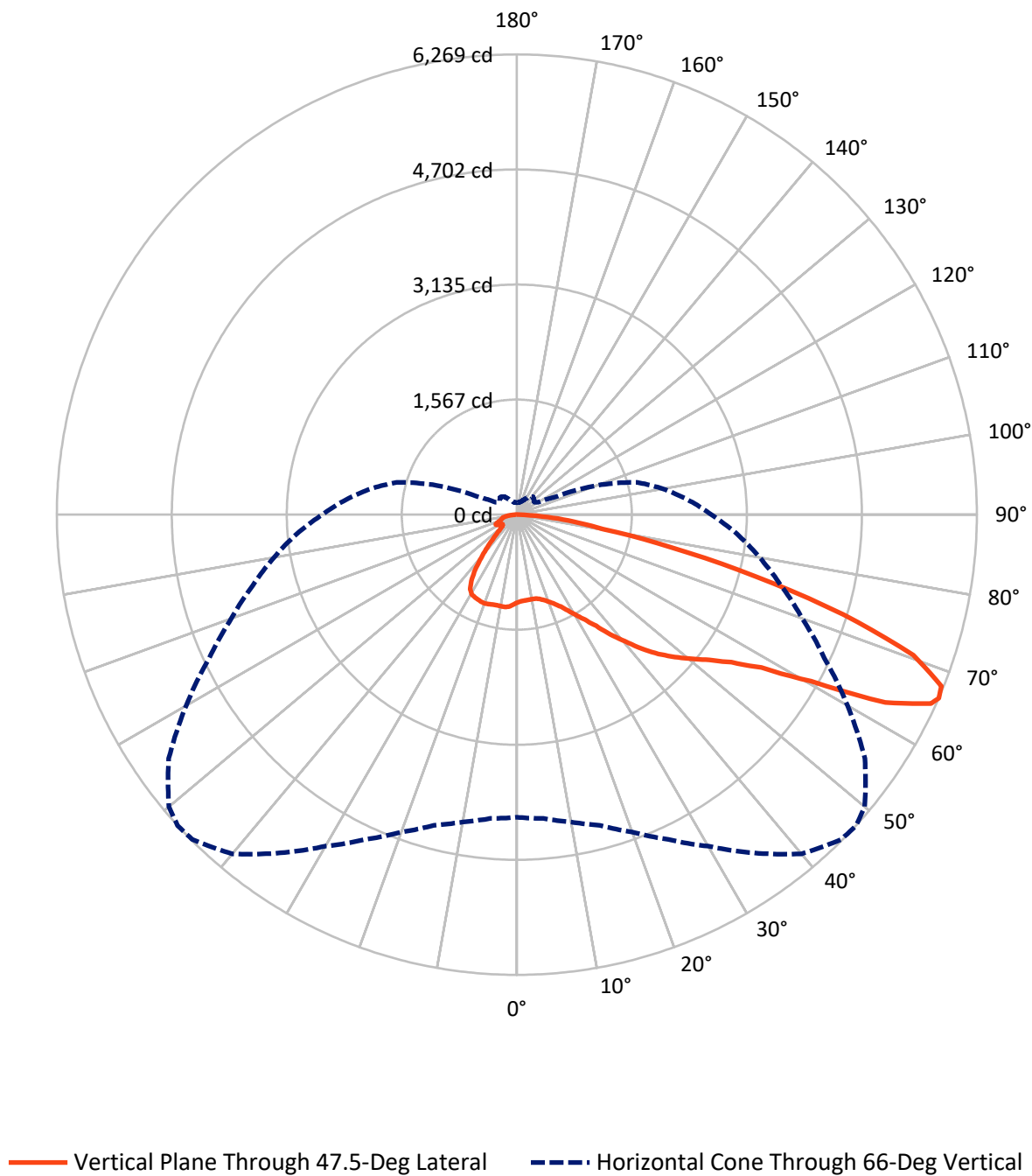


Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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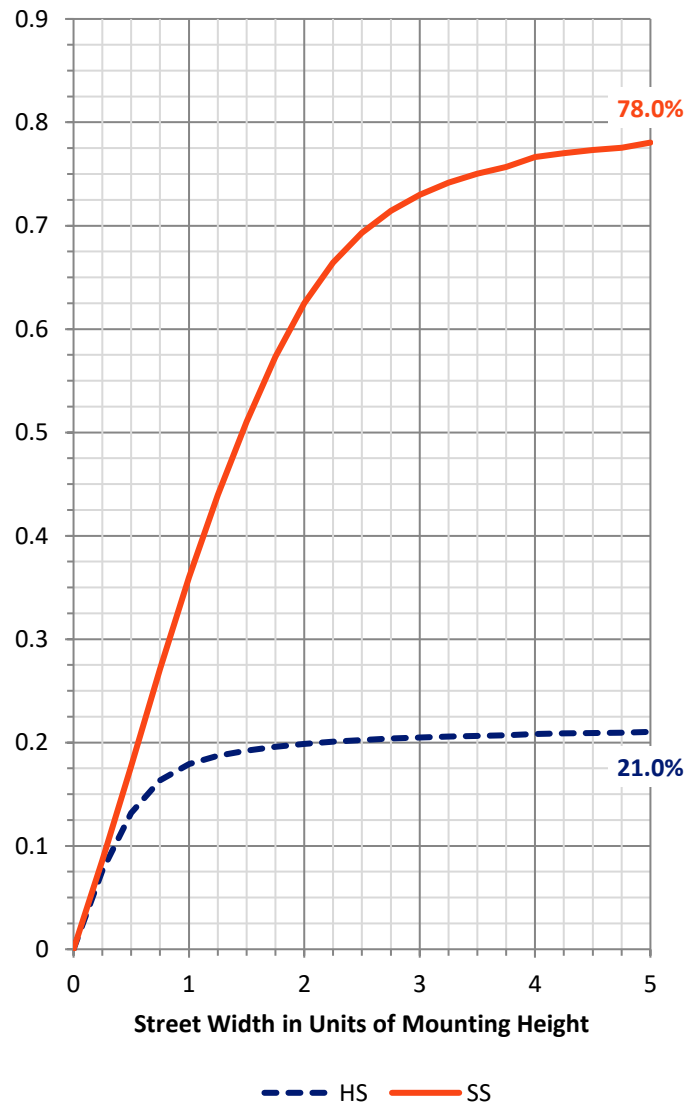
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1934.5	0.0	1934.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	7131.6	0.0	7131.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	9066.1	0.0	9066.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	1.3
10°-20°	352.3	3.9
20°-30°	606.8	6.7
30°-40°	918.1	10.1
40°-50°	1190.0	13.1
50°-60°	1640.7	18.1
60°-70°	2549.0	28.1
70°-80°	1482.3	16.3
80°-90°	210.8	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°	9066.1	100.0
0°-180°	9066.1	100.0

Coefficient of Utilization



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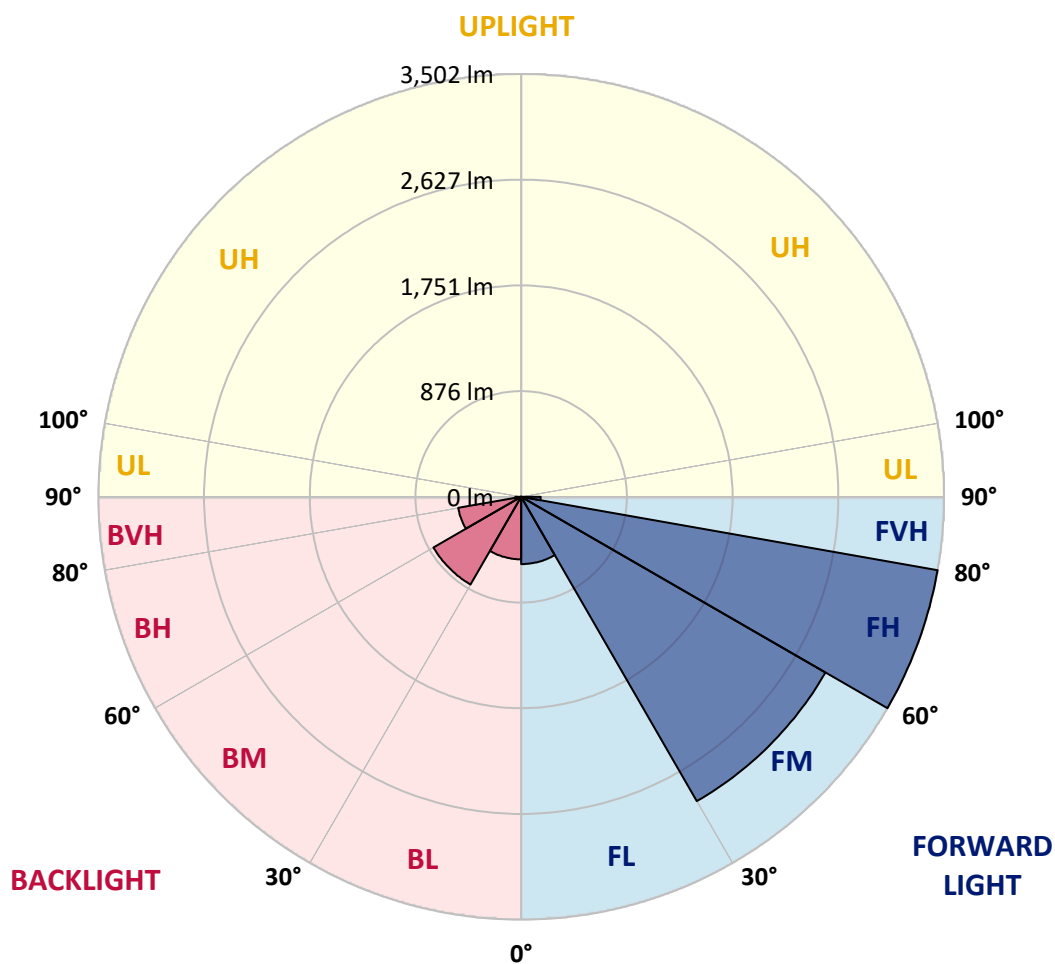
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	557.4	6.1			
FM	(30°-60°)	2910.2	32.1			
FH	(60°-80°)	3502.2	38.6			G2/5000
FVH	(80°-90°)	161.8	1.8			G2/225
BL	(0°-30°)	517.8	5.7	B2/1000		
BM	(30°-60°)	838.6	9.2	B1/1000		
BH	(60°-80°)	529.1	5.8	B2/1000		G2/1000
BVH	(80°-90°)	49.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-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°	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0
2.5°	1173.0	1177.0	1174.0	1175.0	1175.0	1176.0	1176.0	1177.0	1176.0	1179.0	1181.0
5°	1152.0	1154.0	1153.0	1155.0	1157.0	1161.0	1160.0	1165.0	1166.0	1169.0	1174.0
7.5°	1144.0	1142.0	1143.0	1146.0	1148.0	1150.1	1152.0	1156.0	1159.0	1166.0	1169.9
10°	1152.0	1151.0	1152.0	1154.0	1154.0	1155.0	1153.0	1157.0	1159.0	1165.0	1169.0
12.5°	1185.0	1185.0	1183.0	1183.0	1181.0	1179.0	1174.0	1171.0	1169.9	1171.0	1173.0
15°	1238.0	1236.0	1232.0	1229.0	1225.0	1218.0	1211.0	1205.0	1201.0	1195.0	1193.0
17.5°	1289.9	1287.0	1283.0	1279.0	1274.0	1267.0	1256.0	1249.0	1238.0	1231.0	1227.0
20°	1350.1	1344.0	1339.0	1334.0	1324.0	1322.0	1311.0	1299.0	1286.0	1270.1	1268.0
22.5°	1428.0	1418.0	1412.0	1409.0	1399.0	1396.0	1378.0	1361.0	1345.0	1324.0	1319.0
25°	1507.0	1497.0	1494.0	1489.9	1483.0	1479.0	1462.0	1443.0	1422.0	1393.0	1387.0
27.5°	1584.0	1585.0	1577.0	1580.0	1578.0	1571.0	1554.0	1535.0	1519.0	1485.0	1478.0
30°	1680.0	1674.0	1670.1	1676.0	1669.0	1670.1	1655.0	1645.0	1619.0	1599.0	1585.0
32.5°	1780.0	1779.0	1785.0	1789.0	1788.0	1786.0	1774.0	1764.0	1741.0	1712.0	1706.0
35°	1917.0	1923.0	1928.0	1946.0	1946.0	1959.0	1947.0	1935.0	1908.0	1873.0	1861.0
37.5°	2009.9	2012.0	2032.0	2056.0	2086.0	2114.0	2122.0	2125.0	2114.0	2088.0	2070.1
40°	2095.0	2099.0	2131.0	2168.0	2212.0	2267.0	2300.0	2315.0	2318.0	2306.0	2267.0
42.5°	2180.0	2186.0	2219.0	2273.0	2334.0	2404.0	2462.0	2499.0	2520.0	2520.0	2497.0
45°	2279.0	2287.0	2323.0	2382.0	2453.0	2541.0	2621.0	2692.0	2726.0	2728.0	2706.0
47.5°	2396.0	2403.0	2445.0	2505.0	2578.0	2667.0	2768.0	2849.0	2912.0	2916.0	2898.0
50°	2547.0	2557.0	2592.0	2646.0	2721.0	2811.0	2912.0	3025.0	3091.0	3107.0	3088.0
52.5°	2747.0	2749.0	2778.0	2828.0	2901.0	2987.0	3094.0	3217.0	3304.0	3317.0	3286.0
55°	3023.0	3020.0	3039.0	3093.0	3148.0	3215.0	3326.0	3464.0	3561.0	3581.0	3549.0
57.5°	3398.0	3395.0	3411.0	3424.0	3527.0	3592.0	3701.0	3833.0	3927.0	3985.0	3929.9
60°	3979.0	3976.0	4002.0	4078.0	4155.0	4249.9	4356.0	4514.0	4646.0	4663.0	4609.0
62.5°	4400.0	4415.0	4472.0	4561.0	4717.0	4903.0	5097.0	5305.0	5576.0	5662.0	5636.0
65°	4253.0	4283.0	4362.0	4497.0	4705.0	4962.0	5266.0	5643.0	6006.0	6209.0	6203.0
66°	4121.0	4154.0	4251.0	4381.0	4601.0	4882.0	5214.0	5625.0	6031.0	6255.0	6269.0
67.5°	3881.0	3918.0	4013.0	4167.0	4381.0	4680.0	5037.0	5484.0	5943.0	6204.0	6241.0
70°	3414.0	3456.0	3525.0	3652.0	3863.0	4129.9	4506.0	4906.0	5387.0	5686.0	5731.0
72.5°	2854.0	2891.0	2968.0	3072.0	3245.0	3413.0	3708.0	4003.0	4347.0	4688.0	4655.0
75°	2049.0	2065.0	2111.0	2224.0	2317.0	2468.0	2705.0	2947.0	3182.0	3338.0	3360.0
77.5°	1065.0	1107.0	1172.0	1297.0	1398.0	1534.0	1688.0	1870.1	2042.0	2185.0	2146.0
80°	697.0	715.0	773.0	837.0	911.0	998.0	1101.0	1169.0	1191.0	1182.0	1191.0
82.5°	402.0	435.0	512.0	561.0	616.0	646.0	728.0	806.0	849.9	795.0	775.0
85°	51.0	66.0	208.0	262.0	300.0	345.0	369.9	417.0	389.0	348.0	424.0
87.5°	11.0	9.9	14.0	30.1	31.0	26.0	49.0	52.0	32.0	16.0	20.0
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°	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0
2.5°	1183.0	1184.0	1186.0	1189.0	1191.0	1193.0	1195.0	1198.0	1200.0	1202.0	1206.0
5°	1178.0	1182.0	1186.0	1190.1	1195.0	1203.0	1208.0	1212.0	1216.0	1224.0	1227.0
7.5°	1175.0	1182.0	1188.0	1195.0	1203.0	1209.9	1219.0	1224.0	1230.1	1235.0	1241.0
10°	1173.0	1183.0	1189.0	1199.0	1208.0	1215.0	1225.0	1231.0	1238.0	1244.0	1247.0
12.5°	1177.0	1182.0	1188.0	1198.0	1209.0	1219.0	1230.1	1235.0	1241.0	1246.0	1247.0
15°	1194.0	1194.0	1195.0	1203.0	1214.0	1222.0	1231.0	1236.0	1239.0	1242.0	1242.0
17.5°	1225.0	1218.0	1213.0	1214.0	1221.0	1226.0	1231.0	1231.0	1229.0	1228.0	1226.0
20°	1261.0	1252.0	1242.0	1235.0	1233.0	1229.0	1226.0	1216.0	1208.0	1201.0	1196.0
22.5°	1313.0	1299.0	1285.0	1272.0	1260.0	1245.0	1228.0	1208.0	1189.0	1176.0	1168.0
25°	1377.0	1366.0	1349.0	1329.0	1314.0	1286.0	1264.0	1235.0	1211.0	1194.0	1180.0
27.5°	1468.0	1455.0	1439.0	1421.0	1399.0	1368.0	1341.0	1307.0	1278.0	1253.0	1235.0
30°	1581.0	1564.0	1552.0	1529.9	1515.0	1480.0	1453.0	1411.0	1355.0	1315.0	1289.9
32.5°	1697.0	1678.0	1668.0	1651.0	1634.0	1613.0	1572.0	1507.0	1435.0	1369.9	1327.0
35°	1852.0	1832.0	1814.0	1799.0	1774.0	1735.0	1699.0	1621.0	1522.0	1431.0	1359.0
37.5°	2047.0	2014.0	1969.0	1931.0	1887.0	1831.0	1776.0	1696.0	1583.0	1465.0	1369.0
40°	2255.0	2197.0	2133.0	2062.0	1986.0	1905.0	1842.0	1761.0	1634.0	1494.0	1362.0
42.5°	2472.0	2380.0	2291.0	2191.0	2085.0	1989.0	1907.0	1818.0	1672.0	1502.0	1334.0
45°	2687.0	2584.0	2449.0	2318.0	2184.0	2065.0	1973.0	1873.0	1707.0	1505.0	1297.0
47.5°	2865.0	2759.0	2605.0	2441.0	2282.0	2147.0	2039.0	1931.0	1754.0	1526.0	1288.0
50°	3053.0	2924.0	2753.0	2559.0	2379.0	2228.0	2113.0	2001.0	1820.0	1580.0	1317.0
52.5°	3258.0	3110.1	2910.1	2693.0	2496.0	2327.0	2202.0	2087.0	1904.0	1656.0	1372.0
55°	3508.0	3327.0	3110.1	2865.0	2654.0	2467.0	2329.0	2193.0	2004.0	1746.0	1441.0
57.5°	3889.9	3668.0	3424.0	3145.0	2911.0	2689.9	2525.0	2368.0	2159.0	1880.0	1535.0
60°	4581.0	4344.0	4027.0	3689.0	3414.0	3156.0	2914.0	2719.0	2462.0	2144.0	1743.0
62.5°	5571.0	5256.0	4833.0	4360.0	4000.0	3628.0	3355.0	3065.0	2746.0	2403.0	1988.0
65°	6121.0	5739.0	5173.0	4624.0	4161.0	3757.0	3409.9	3074.0	2720.0	2392.0	2045.0
66°	6189.0	5791.0	5203.0	4625.0	4139.0	3724.0	3359.0	3011.0	2649.0	2336.0	2021.0
67.5°	6161.0	5754.0	5148.0	4538.0	4044.0	3598.0	3221.0	2860.0	2499.0	2207.0	1941.0
70°	5702.0	5316.0	4721.0	4129.9	3661.0	3221.0	2861.0	2506.0	2175.0	1925.0	1729.0
72.5°	4735.0	4405.0	3888.0	3424.0	3056.0	2693.0	2388.0	2049.0	1769.0	1584.0	1468.0
75°	3418.0	3218.0	2747.0	2481.0	2158.0	1917.0	1621.0	1420.0	1219.0	1129.0	1109.0
77.5°	2159.0	1889.9	1591.0	1309.9	1077.0	893.0	695.0	590.1	492.0	482.0	582.0
80°	1093.0	984.0	758.0	604.0	508.0	411.0	325.0	246.0	172.0	207.0	248.0
82.5°	716.0	597.0	468.0	385.0	335.0	278.0	216.0	150.1	110.1	124.0	169.9
85°	387.0	329.9	266.0	209.9	169.9	152.0	102.0	72.0	71.0	76.0	97.0
87.5°	28.0	28.0	22.0	20.0	24.0	20.0	18.0	18.0	17.0	18.0	24.0
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°	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0
2.5°	1208.0	1211.0	1212.0	1217.0	1220.0	1222.0	1224.0	1224.0	1225.0	1228.0	1229.0
5°	1231.0	1236.0	1242.0	1246.0	1248.0	1254.0	1256.0	1256.0	1258.0	1262.0	1265.0
7.5°	1245.0	1252.0	1258.0	1260.0	1264.0	1266.0	1269.0	1271.0	1271.0	1275.0	1277.0
10°	1249.9	1254.0	1260.0	1260.0	1264.0	1264.0	1267.0	1268.0	1268.0	1272.0	1275.0
12.5°	1249.9	1252.0	1257.0	1257.0	1260.0	1261.0	1265.0	1268.0	1269.0	1274.0	1278.0
15°	1244.0	1246.0	1249.9	1251.0	1258.0	1262.0	1271.0	1277.0	1277.0	1282.0	1284.0
17.5°	1227.0	1232.0	1240.0	1248.0	1261.0	1270.1	1281.0	1286.0	1282.0	1279.0	1276.0
20°	1199.0	1208.0	1227.0	1247.0	1270.1	1282.0	1288.0	1283.0	1269.0	1255.0	1246.0
22.5°	1171.0	1189.0	1221.0	1251.0	1277.0	1285.0	1282.0	1264.0	1241.0	1224.0	1212.0
25°	1184.0	1205.0	1236.0	1263.0	1280.0	1278.0	1266.0	1241.0	1216.0	1194.0	1174.0
27.5°	1238.0	1261.0	1278.0	1287.0	1285.0	1271.0	1252.0	1224.0	1194.0	1165.0	1137.0
30°	1289.0	1301.0	1305.0	1298.0	1282.0	1259.0	1235.0	1203.0	1163.0	1127.0	1095.0
32.5°	1312.0	1300.0	1281.0	1262.0	1236.0	1216.0	1183.0	1148.0	1098.0	1055.0	1023.0
35°	1312.0	1264.0	1216.0	1176.0	1137.0	1112.0	1074.0	1027.0	981.0	945.0	920.0
37.5°	1283.0	1191.0	1112.0	1047.0	998.0	971.0	914.0	872.0	833.0	821.0	805.0
40°	1230.1	1094.0	980.0	895.0	833.0	793.0	736.0	707.0	692.0	686.0	683.0
42.5°	1159.0	986.0	834.0	729.0	662.0	617.0	579.0	561.0	560.0	559.0	559.0
45°	1083.0	870.1	692.0	567.0	508.0	468.0	449.9	443.0	449.0	448.0	449.0
47.5°	1036.0	782.0	562.0	429.0	384.0	358.0	349.0	352.0	357.0	355.0	355.0
50°	1030.1	737.0	475.0	334.0	300.0	287.0	285.0	285.0	288.0	286.0	285.0
52.5°	1052.0	729.9	430.1	287.0	260.0	249.0	247.0	246.0	245.0	239.0	234.0
55°	1089.9	746.0	417.0	275.0	247.0	235.0	232.0	230.1	226.0	218.0	209.0
57.5°	1166.0	796.0	429.0	281.0	251.0	241.0	238.0	238.0	230.1	217.0	204.0
60°	1349.0	923.0	478.0	304.0	270.1	260.0	262.0	261.0	249.0	230.1	209.9
62.5°	1585.0	1089.0	542.0	336.0	294.0	292.0	302.0	300.0	280.0	251.0	222.0
65°	1694.0	1167.0	560.0	343.0	299.0	308.0	328.0	326.0	301.0	261.0	224.0
66°	1696.0	1167.0	552.0	337.0	292.0	303.0	323.0	322.0	297.0	257.0	220.0
67.5°	1655.0	1135.0	529.0	325.0	278.0	286.0	304.0	303.0	280.0	247.0	212.0
70°	1501.0	1016.0	470.1	304.0	259.0	255.0	261.0	257.0	242.0	219.0	195.0
72.5°	1286.0	853.0	409.9	288.0	246.0	230.1	226.0	223.0	211.0	198.0	183.0
75°	1013.0	675.0	360.0	276.0	234.0	213.0	206.0	202.0	194.0	185.0	173.0
77.5°	625.0	483.0	314.0	260.0	225.0	204.0	199.0	193.0	181.0	169.9	161.0
80°	279.0	299.0	258.0	227.0	201.0	182.0	174.0	165.0	153.0	146.0	141.0
82.5°	186.0	193.0	187.0	169.9	152.0	137.0	125.0	125.0	123.0	117.0	115.0
85°	119.0	120.0	116.0	105.0	98.0	89.0	84.0	85.0	89.0	88.0	87.0
87.5°	27.0	27.0	32.0	30.1	35.0	37.0	40.0	43.0	49.0	49.0	52.0
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°	1195.0	1195.0	1195.0	1195.0	1195.0
2.5°	1230.1	1232.0	1234.0	1231.0	1232.0
5°	1265.0	1264.0	1269.0	1266.0	1268.0
7.5°	1276.0	1277.0	1281.0	1281.0	1282.0
10°	1277.0	1279.0	1284.0	1287.0	1289.0
12.5°	1282.0	1286.0	1294.0	1296.0	1296.0
15°	1286.0	1288.0	1293.0	1295.0	1297.0
17.5°	1272.0	1268.0	1270.1	1271.0	1270.1
20°	1237.0	1233.0	1232.0	1228.0	1230.1
22.5°	1199.0	1188.0	1181.0	1173.0	1173.0
25°	1153.0	1136.0	1122.0	1108.0	1111.0
27.5°	1109.9	1088.0	1074.0	1065.0	1063.0
30°	1068.0	1045.0	1032.0	1021.0	1021.0
32.5°	998.0	982.0	965.0	958.0	957.0
35°	901.0	891.0	877.0	874.0	869.0
37.5°	792.0	789.0	777.0	776.0	771.0
40°	678.0	680.0	676.0	674.0	671.0
42.5°	564.0	574.0	572.0	571.0	569.0
45°	455.0	462.0	463.0	466.0	471.0
47.5°	358.0	360.0	362.0	361.0	362.0
50°	280.0	275.0	274.0	271.0	274.0
52.5°	226.0	218.0	214.0	209.9	208.0
55°	199.0	191.0	187.0	185.0	183.0
57.5°	192.0	184.0	178.0	174.0	173.0
60°	194.0	182.0	174.0	169.0	168.0
62.5°	199.0	183.0	172.0	167.0	166.0
65°	198.0	181.0	171.0	165.0	164.0
66°	195.0	179.0	169.0	164.0	163.0
67.5°	190.1	176.0	167.0	163.0	161.0
70°	181.0	172.0	165.0	160.0	158.0
72.5°	173.0	166.0	160.0	155.0	154.0
75°	164.0	158.0	152.0	148.0	147.0
77.5°	153.0	147.0	143.0	140.0	139.0
80°	135.0	131.0	127.0	123.0	123.0
82.5°	112.0	109.0	105.0	102.0	101.0
85°	86.0	86.0	83.0	80.0	79.0
87.5°	51.0	49.9	49.9	47.0	47.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)