

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: P156878

Luminaire Tested: **AVS-E04-LED-E-U-T4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156878
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-E04-LED-E-U-T4-8030
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10202.3 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 97.2
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



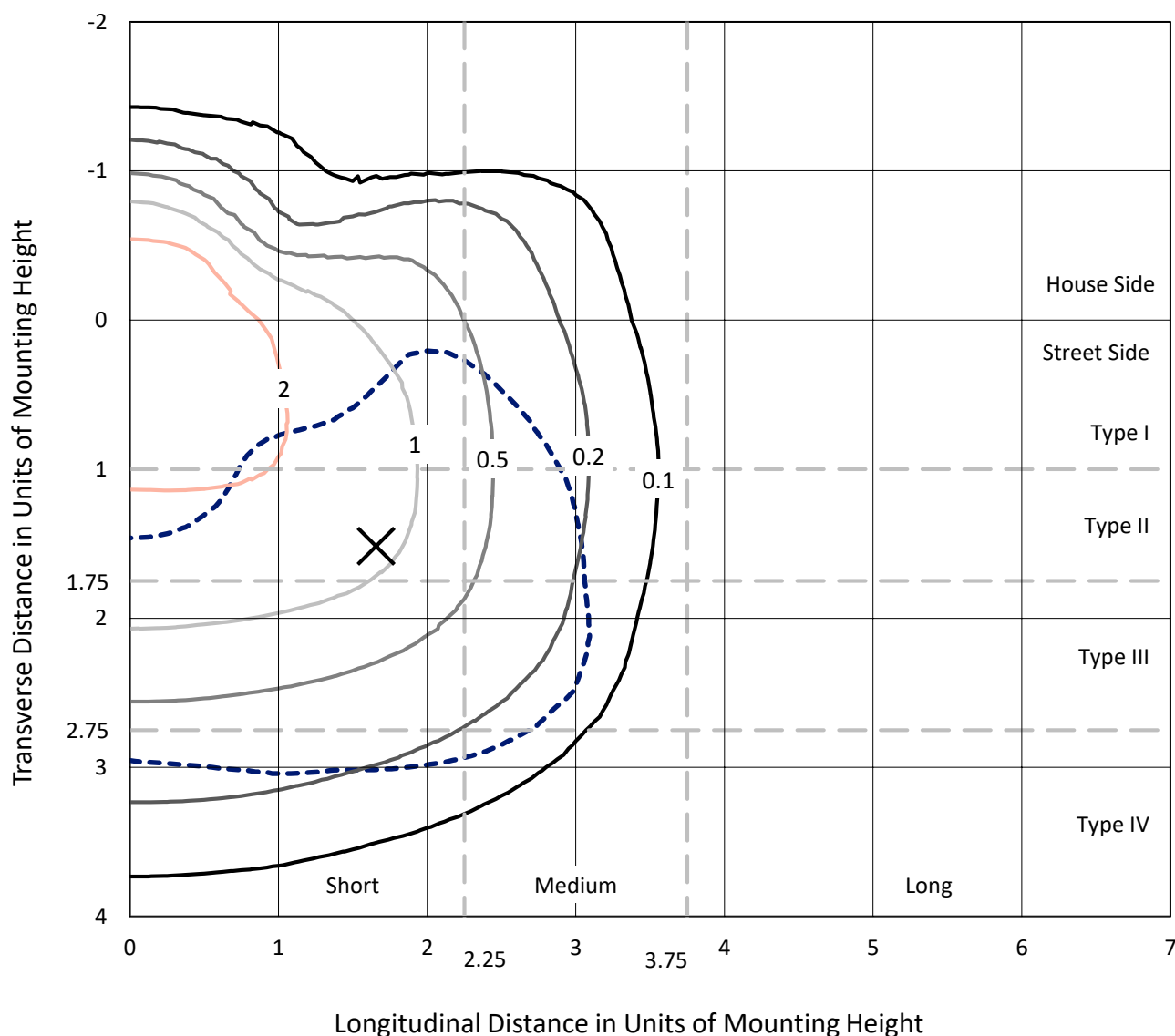
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

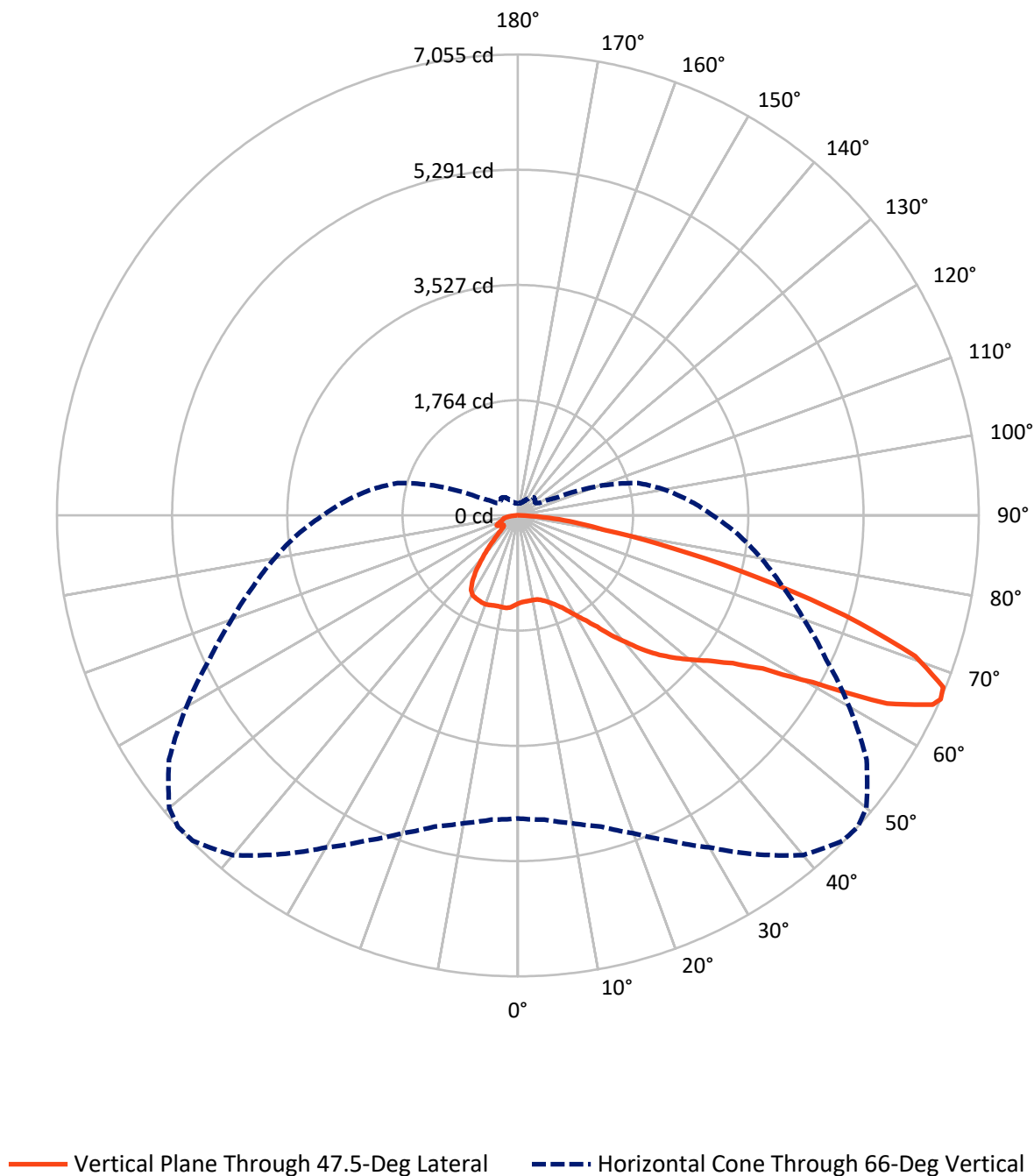


Based on 20 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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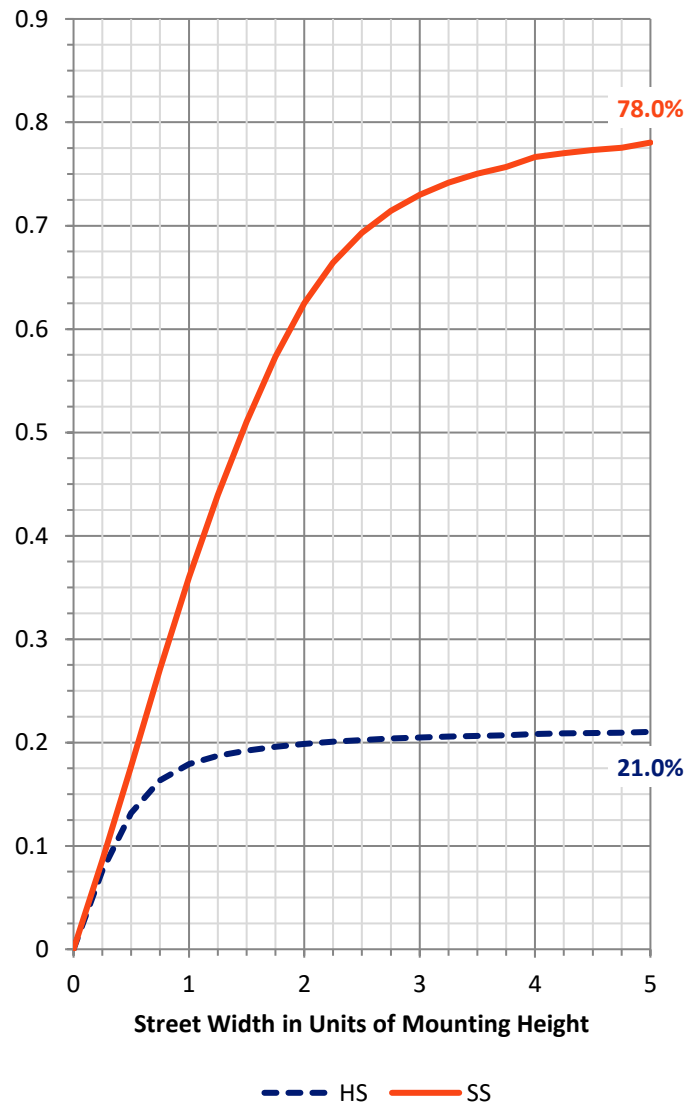
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2176.9	0.0	2176.9
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	8025.4	0.0	8025.4
	% Fixture	78.7	0.0	78.7
Total	Lumens	10202.3	0.0	10202.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	1.3
10°-20°	396.5	3.9
20°-30°	682.9	6.7
30°-40°	1033.2	10.1
40°-50°	1339.1	13.1
50°-60°	1846.3	18.1
60°-70°	2868.5	28.1
70°-80°	1668.0	16.3
80°-90°	237.2	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°	10202.3	100.0
0°-180°	10202.3	100.0

Coefficient of Utilization



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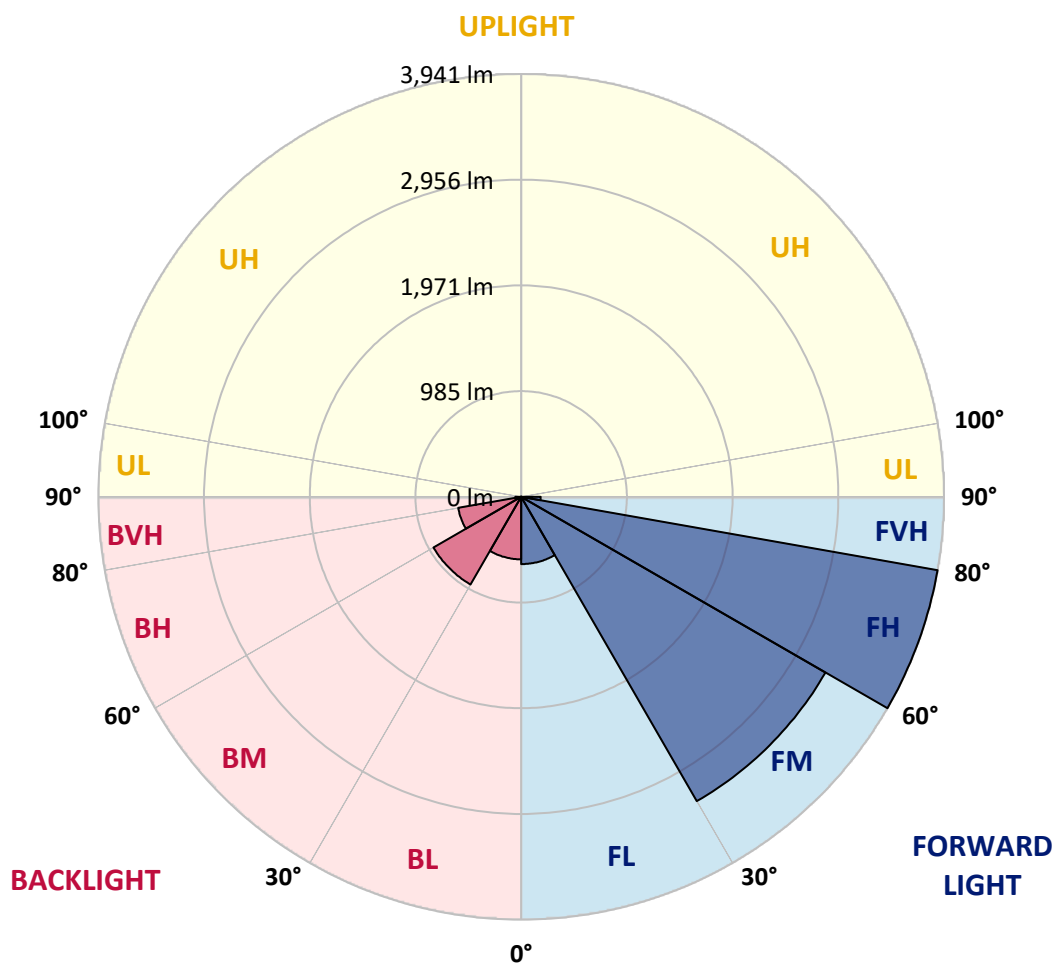
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	627.3	6.1			
FM	(30°-60°)	3274.9	32.1			
FH	(60°-80°)	3941.2	38.6			G2/5000
FVH	(80°-90°)	182.0	1.8			G2/225
BL	(0°-30°)	582.7	5.7	B2/1000		
BM	(30°-60°)	943.7	9.2	B1/1000		
BH	(60°-80°)	595.4	5.8	B2/1000		G2/1000
BVH	(80°-90°)	55.2	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°	1344.8	1344.8	1344.8	1344.8	1344.8	1344.8	1344.8	1344.8	1344.8	1344.8	1344.8
2.5°	1320.0	1324.5	1321.1	1322.3	1322.3	1323.4	1323.4	1324.5	1323.4	1326.7	1329.0
5°	1296.4	1298.7	1297.5	1299.8	1302.0	1306.5	1305.4	1311.0	1312.1	1315.5	1321.1
7.5°	1287.4	1285.1	1286.2	1289.6	1291.9	1294.1	1296.4	1300.8	1304.2	1312.1	1316.6
10°	1296.4	1295.2	1296.4	1298.7	1298.7	1299.8	1297.5	1302.0	1304.2	1311.0	1315.5
12.5°	1333.5	1333.5	1331.3	1331.3	1329.0	1326.7	1321.1	1317.7	1316.6	1317.7	1320.0
15°	1393.2	1390.9	1386.4	1383.0	1378.5	1370.7	1362.8	1356.1	1351.5	1344.8	1342.5
17.5°	1451.7	1448.3	1443.8	1439.3	1433.7	1425.8	1413.4	1405.5	1393.2	1385.3	1380.7
20°	1519.2	1512.4	1506.8	1501.1	1489.9	1487.7	1475.3	1461.8	1447.2	1429.1	1426.9
22.5°	1606.9	1595.8	1588.9	1585.6	1574.3	1571.0	1550.7	1531.6	1513.6	1489.9	1484.2
25°	1695.9	1684.6	1681.2	1676.7	1668.8	1664.4	1645.2	1623.8	1600.2	1567.6	1560.8
27.5°	1782.5	1783.6	1774.6	1778.0	1775.8	1767.9	1748.7	1727.4	1709.3	1671.1	1663.2
30°	1890.6	1883.8	1879.3	1886.0	1878.1	1879.3	1862.4	1851.2	1821.9	1799.4	1783.6
32.5°	2003.1	2002.0	2008.7	2013.2	2012.1	2009.8	1996.3	1985.1	1959.2	1926.5	1919.8
35°	2157.2	2164.0	2169.6	2189.8	2189.8	2204.5	2191.0	2177.5	2147.2	2107.8	2094.2
37.5°	2261.9	2264.1	2286.6	2313.7	2347.5	2379.0	2388.0	2391.3	2379.0	2349.6	2329.4
40°	2357.5	2362.1	2398.0	2439.7	2489.2	2551.1	2588.3	2605.1	2608.5	2595.0	2551.1
42.5°	2453.2	2460.0	2497.1	2557.8	2626.5	2705.3	2770.6	2812.2	2835.9	2835.9	2809.9
45°	2564.6	2573.6	2614.1	2680.5	2760.4	2859.5	2949.4	3029.3	3067.7	3069.8	3045.1
47.5°	2696.3	2704.1	2751.4	2819.0	2901.0	3001.2	3114.9	3206.0	3276.9	3281.5	3261.1
50°	2866.2	2877.4	2916.8	2977.6	3062.0	3163.3	3276.9	3404.1	3478.3	3496.4	3475.0
52.5°	3091.3	3093.5	3126.1	3182.4	3264.6	3361.3	3481.8	3620.2	3718.0	3732.6	3697.8
55°	3401.9	3398.4	3419.9	3480.6	3542.5	3617.9	3742.8	3898.1	4007.3	4029.7	3993.8
57.5°	3823.8	3820.4	3838.4	3853.1	3969.0	4042.2	4164.8	4313.4	4419.2	4484.5	4422.5
60°	4477.6	4474.3	4503.5	4589.0	4675.8	4782.6	4901.9	5079.7	5228.3	5247.4	5186.6
62.5°	4951.4	4968.3	5032.4	5132.5	5308.2	5517.4	5735.8	5969.8	6274.8	6371.6	6342.3
65°	4786.0	4819.8	4908.6	5060.5	5294.6	5583.8	5925.9	6350.2	6758.7	6987.2	6980.4
66°	4637.4	4674.6	4783.7	4930.1	5177.6	5493.8	5867.5	6329.9	6786.8	7038.9	7054.6
67.5°	4367.4	4409.0	4516.0	4689.2	4930.1	5266.5	5668.3	6171.3	6687.8	6981.5	7023.1
70°	3841.9	3889.1	3966.7	4109.6	4347.2	4647.6	5070.7	5520.8	6062.1	6398.5	6449.2
72.5°	3211.7	3253.3	3340.0	3457.0	3651.7	3840.7	4172.6	4504.7	4891.8	5275.5	5238.3
75°	2305.8	2323.8	2375.5	2502.7	2607.4	2777.3	3044.0	3316.4	3580.7	3756.4	3781.0
77.5°	1198.4	1245.7	1318.9	1459.6	1573.2	1726.2	1899.6	2104.4	2297.9	2458.9	2414.9
80°	784.4	804.6	869.8	941.9	1025.2	1123.1	1239.0	1315.5	1340.2	1330.2	1340.2
82.5°	452.3	489.5	576.2	631.3	693.2	726.9	819.3	907.0	956.5	894.6	872.1
85°	57.4	74.3	234.1	294.8	337.6	388.2	416.4	469.2	437.7	391.6	477.1
87.5°	12.3	11.3	15.8	33.8	34.9	29.2	55.1	58.5	36.0	18.0	22.5
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1344.8	1344.8	1344.8	1344.8	1344.8	1344.8	1344.8	1344.8	1344.8	1344.8	1344.8
2.5°	1331.3	1332.3	1334.6	1338.0	1340.2	1342.5	1344.8	1348.2	1350.4	1352.6	1357.1
5°	1325.6	1330.2	1334.6	1339.2	1344.8	1353.8	1359.4	1363.9	1368.4	1377.4	1380.7
7.5°	1322.3	1330.2	1336.9	1344.8	1353.8	1361.7	1371.8	1377.4	1384.1	1389.7	1396.5
10°	1320.0	1331.3	1338.0	1349.2	1359.4	1367.3	1378.5	1385.3	1393.2	1399.9	1403.3
12.5°	1324.5	1330.2	1336.9	1348.2	1360.5	1371.8	1384.1	1389.7	1396.5	1402.2	1403.3
15°	1343.6	1343.6	1344.8	1353.8	1366.1	1375.1	1385.3	1390.9	1394.3	1397.6	1397.6
17.5°	1378.5	1370.7	1365.0	1366.1	1374.0	1379.7	1385.3	1385.3	1383.0	1381.9	1379.7
20°	1419.1	1408.9	1397.6	1389.7	1387.6	1383.0	1379.7	1368.4	1359.4	1351.5	1345.9
22.5°	1477.5	1461.8	1446.0	1431.4	1417.9	1401.0	1381.9	1359.4	1338.0	1323.4	1314.4
25°	1549.5	1537.2	1518.0	1495.5	1478.7	1447.2	1422.4	1389.7	1362.8	1343.6	1327.9
27.5°	1652.0	1637.3	1619.4	1599.1	1574.3	1539.5	1509.0	1470.8	1438.1	1410.1	1389.7
30°	1779.2	1760.0	1746.5	1721.8	1704.9	1665.5	1635.1	1587.9	1524.8	1479.8	1451.7
32.5°	1909.6	1888.3	1877.0	1857.9	1838.8	1815.1	1769.0	1695.9	1614.8	1541.7	1493.3
35°	2084.1	2061.6	2041.3	2024.5	1996.3	1952.4	1911.9	1824.1	1712.7	1610.4	1529.3
37.5°	2303.5	2266.4	2215.8	2173.0	2123.5	2060.4	1998.5	1908.5	1781.3	1648.6	1540.5
40°	2537.6	2472.3	2400.3	2320.4	2234.9	2143.7	2072.8	1981.7	1838.8	1681.2	1532.6
42.5°	2781.8	2678.2	2578.1	2465.6	2346.3	2238.2	2146.0	2045.8	1881.6	1690.3	1501.1
45°	3023.7	2907.9	2756.0	2608.5	2457.7	2323.8	2220.2	2107.8	1920.9	1693.6	1459.6
47.5°	3224.0	3104.8	2931.5	2746.9	2568.0	2416.1	2294.5	2173.0	1973.8	1717.2	1449.4
50°	3435.6	3290.5	3098.0	2879.7	2677.1	2507.3	2377.8	2251.8	2048.1	1778.0	1482.1
52.5°	3666.3	3499.8	3274.7	3030.5	2808.8	2618.7	2477.9	2348.5	2142.6	1863.5	1543.9
55°	3947.7	3743.9	3499.8	3224.0	2986.6	2776.2	2620.8	2467.9	2255.1	1964.8	1621.6
57.5°	4377.5	4127.7	3853.1	3539.2	3275.9	3027.2	2841.5	2664.8	2429.5	2115.6	1727.4
60°	5155.1	4888.4	4531.7	4151.3	3841.9	3551.5	3279.2	3059.8	2770.6	2412.6	1961.5
62.5°	6269.1	5914.7	5438.7	4906.4	4501.2	4082.7	3775.4	3449.1	3090.2	2704.1	2237.1
65°	6888.1	6458.2	5821.2	5203.5	4682.5	4227.9	3837.3	3459.3	3060.8	2691.8	2301.2
66°	6964.7	6516.7	5855.0	5204.6	4657.7	4190.7	3780.0	3388.4	2980.9	2628.7	2274.3
67.5°	6933.1	6475.1	5793.2	5106.7	4550.8	4048.9	3624.7	3218.4	2812.2	2483.6	2184.2
70°	6416.6	5982.2	5312.6	4647.6	4119.8	3624.7	3219.6	2820.1	2447.6	2166.2	1945.7
72.5°	5328.4	4957.0	4375.2	3853.1	3439.0	3030.5	2687.3	2305.8	1990.7	1782.5	1652.0
75°	3846.3	3621.2	3091.3	2791.9	2428.4	2157.2	1824.1	1597.9	1371.8	1270.5	1248.0
77.5°	2429.5	2126.8	1790.4	1474.2	1212.0	1004.9	782.1	663.9	553.7	542.4	654.9
80°	1229.9	1107.4	853.0	679.7	571.7	462.5	365.7	276.8	193.6	233.0	279.1
82.5°	805.7	671.8	526.6	433.3	377.0	312.8	243.1	168.8	123.8	139.6	191.3
85°	435.5	371.4	299.4	236.3	191.3	171.1	114.8	81.0	79.9	85.5	109.1
87.5°	31.5	31.5	24.8	22.5	27.0	22.5	20.2	20.2	19.2	20.2	27.0
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°	1344.8	1344.8	1344.8	1344.8	1344.8	1344.8	1344.8	1344.8	1344.8	1344.8	1344.8
2.5°	1359.4	1362.8	1363.9	1369.5	1372.8	1375.1	1377.4	1377.4	1378.5	1381.9	1383.0
5°	1385.3	1390.9	1397.6	1402.2	1404.4	1411.2	1413.4	1413.4	1415.6	1420.1	1423.5
7.5°	1401.0	1408.9	1415.6	1417.9	1422.4	1424.7	1428.1	1430.3	1430.3	1434.8	1437.0
10°	1406.6	1411.2	1417.9	1417.9	1422.4	1422.4	1425.8	1426.9	1426.9	1431.4	1434.8
12.5°	1406.6	1408.9	1414.5	1414.5	1417.9	1419.1	1423.5	1426.9	1428.1	1433.7	1438.1
15°	1399.9	1402.2	1406.6	1407.8	1415.6	1420.1	1430.3	1437.0	1437.0	1442.7	1444.9
17.5°	1380.7	1386.4	1395.4	1404.4	1419.1	1429.1	1441.6	1447.2	1442.7	1439.3	1436.0
20°	1349.2	1359.4	1380.7	1403.3	1429.1	1442.7	1449.4	1443.8	1428.1	1412.2	1402.2
22.5°	1317.7	1338.0	1374.0	1407.8	1437.0	1446.0	1442.7	1422.4	1396.5	1377.4	1363.9
25°	1332.3	1356.1	1390.9	1421.2	1440.4	1438.1	1424.7	1396.5	1368.4	1343.6	1321.1
27.5°	1393.2	1419.1	1438.1	1448.3	1446.0	1430.3	1408.9	1377.4	1343.6	1311.0	1279.5
30°	1450.6	1464.0	1468.5	1460.6	1442.7	1416.8	1389.7	1353.8	1308.7	1268.2	1232.2
32.5°	1476.4	1462.9	1441.6	1420.1	1390.9	1368.4	1331.3	1291.9	1235.6	1187.3	1151.2
35°	1476.4	1422.4	1368.4	1323.4	1279.5	1251.4	1208.6	1155.8	1103.9	1063.4	1035.3
37.5°	1443.8	1340.2	1251.4	1178.2	1123.1	1092.6	1028.5	981.2	937.4	923.9	905.9
40°	1384.1	1231.1	1102.8	1007.2	937.4	892.3	828.2	795.6	778.8	772.0	768.6
42.5°	1304.2	1109.5	938.5	820.3	745.0	694.3	651.6	631.3	630.2	629.0	629.0
45°	1218.8	979.1	778.8	638.0	571.7	526.6	506.4	498.5	505.3	504.1	505.3
47.5°	1165.8	880.0	632.4	482.8	432.1	402.9	392.7	396.1	401.8	399.5	399.5
50°	1159.1	829.3	534.5	375.9	337.6	323.0	320.7	320.7	324.0	321.9	320.7
52.5°	1183.8	821.5	483.9	323.0	292.5	280.2	277.9	276.8	275.8	268.9	263.3
55°	1226.6	839.5	469.2	309.4	277.9	264.5	261.0	258.9	254.3	245.3	235.2
57.5°	1312.1	895.8	482.8	316.2	282.5	271.2	267.9	267.9	258.9	244.1	229.5
60°	1518.0	1038.7	537.9	342.1	303.8	292.5	294.8	293.7	280.2	258.9	236.3
62.5°	1783.6	1225.5	609.9	378.1	330.9	328.6	339.9	337.6	315.1	282.5	249.8
65°	1906.3	1313.3	630.2	386.0	336.5	346.6	369.1	366.8	338.8	293.7	252.0
66°	1908.5	1313.3	621.1	379.3	328.6	340.9	363.5	362.4	334.2	289.2	247.6
67.5°	1862.4	1277.2	595.3	365.7	312.8	321.9	342.1	340.9	315.1	277.9	238.5
70°	1689.1	1143.3	528.9	342.1	291.5	286.9	293.7	289.2	272.3	246.4	219.5
72.5°	1447.2	959.9	461.3	324.0	276.8	258.9	254.3	251.0	237.4	222.8	205.9
75°	1140.0	759.6	405.1	310.6	263.3	239.7	231.8	227.4	218.3	208.2	194.7
77.5°	703.3	543.5	353.4	292.5	253.2	229.5	223.9	217.2	203.7	191.3	181.1
80°	314.0	336.5	290.4	255.4	226.2	204.8	195.9	185.7	172.1	164.2	158.7
82.5°	209.3	217.2	210.5	191.3	171.1	154.2	140.6	140.6	138.4	131.7	129.4
85°	133.9	135.0	130.6	118.1	110.3	100.1	94.5	95.6	100.1	99.1	97.9
87.5°	30.4	30.4	36.0	33.8	39.4	41.7	45.0	48.4	55.1	55.1	58.5
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):

	160°	165°	170°	175°	180°
0°	1344.8	1344.8	1344.8	1344.8	1344.8
2.5°	1384.1	1386.4	1388.6	1385.3	1386.4
5°	1423.5	1422.4	1428.1	1424.7	1426.9
7.5°	1436.0	1437.0	1441.6	1441.6	1442.7
10°	1437.0	1439.3	1444.9	1448.3	1450.6
12.5°	1442.7	1447.2	1456.2	1458.4	1458.4
15°	1447.2	1449.4	1455.0	1457.3	1459.6
17.5°	1431.4	1426.9	1429.1	1430.3	1429.1
20°	1392.0	1387.6	1386.4	1381.9	1384.1
22.5°	1349.2	1336.9	1329.0	1320.0	1320.0
25°	1297.5	1278.3	1262.6	1246.8	1250.3
27.5°	1249.1	1224.4	1208.6	1198.4	1196.2
30°	1201.9	1176.0	1161.3	1148.9	1148.9
32.5°	1123.1	1105.1	1085.9	1078.0	1076.9
35°	1013.9	1002.7	986.9	983.5	977.9
37.5°	891.3	887.9	874.4	873.3	867.7
40°	763.0	765.2	760.7	758.4	755.1
42.5°	634.7	645.9	643.7	642.6	640.3
45°	512.0	519.9	521.0	524.4	530.1
47.5°	402.9	405.1	407.4	406.2	407.4
50°	315.1	309.4	308.3	305.0	308.3
52.5°	254.3	245.3	240.8	236.3	234.1
55°	223.9	214.9	210.5	208.2	205.9
57.5°	216.1	207.0	200.3	195.9	194.7
60°	218.3	204.8	195.9	190.2	189.0
62.5°	223.9	205.9	193.6	188.0	186.8
65°	222.8	203.7	192.4	185.7	184.6
66°	219.5	201.5	190.2	184.6	183.4
67.5°	213.8	198.0	188.0	183.4	181.1
70°	203.7	193.6	185.7	180.0	177.8
72.5°	194.7	186.8	180.0	174.4	173.3
75°	184.6	177.8	171.1	166.5	165.4
77.5°	172.1	165.4	160.9	157.5	156.4
80°	151.9	147.5	142.9	138.4	138.4
82.5°	126.0	122.7	118.1	114.8	113.7
85°	96.8	96.8	93.4	90.1	88.9
87.5°	57.4	56.3	56.3	52.8	52.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)