

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: P156885

Luminaire Tested: **AVS-F04-LED-E-U-T4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156885
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-F04-LED-E-U-T4
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9979.1 lumens
Efficiency: N/A
Efficacy: 97.6 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): 102.2
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

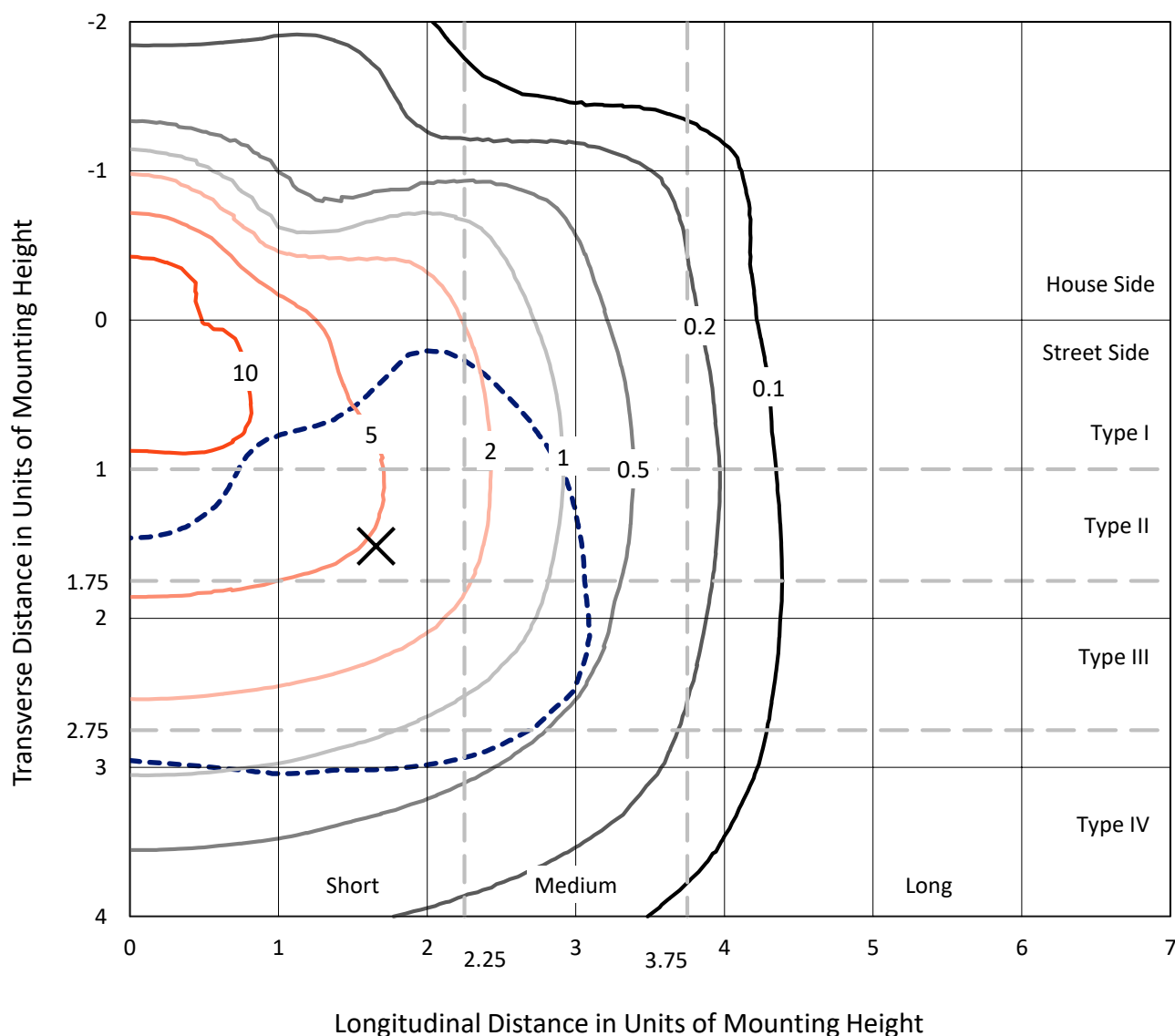


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

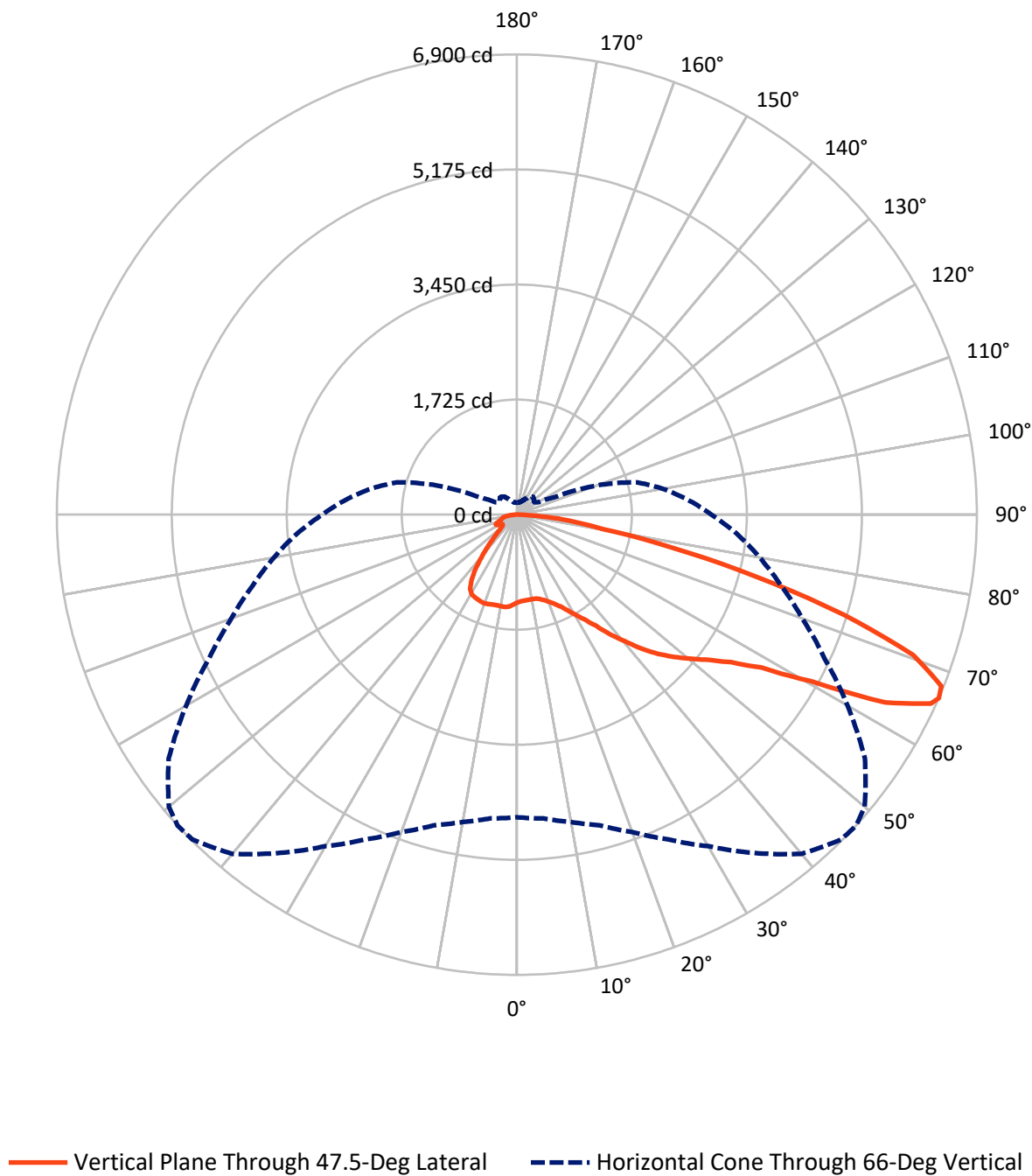


Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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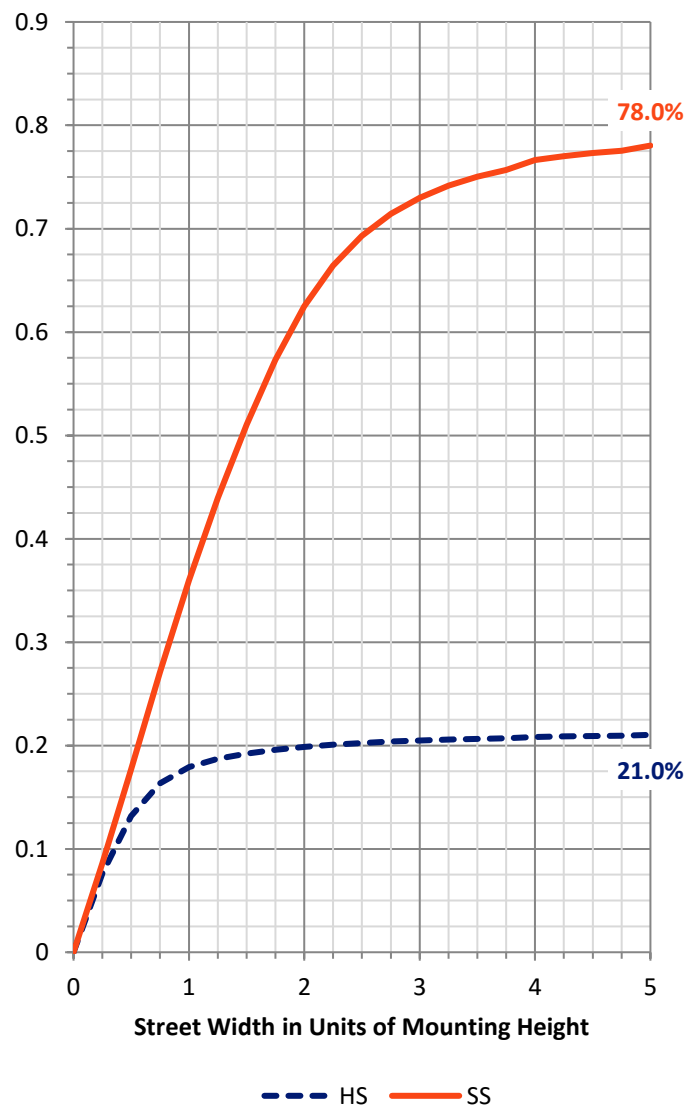
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2129.3	0.0	2129.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	7849.8	0.0	7849.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	9979.1	0.0	9979.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	1.3
10°-20°	387.8	3.9
20°-30°	668.0	6.7
30°-40°	1010.6	10.1
40°-50°	1309.9	13.1
50°-60°	1805.9	18.1
60°-70°	2805.7	28.1
70°-80°	1631.6	16.3
80°-90°	232.0	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°	9979.1	100.0
0°-180°	9979.1	100.0

Coefficient of Utilization



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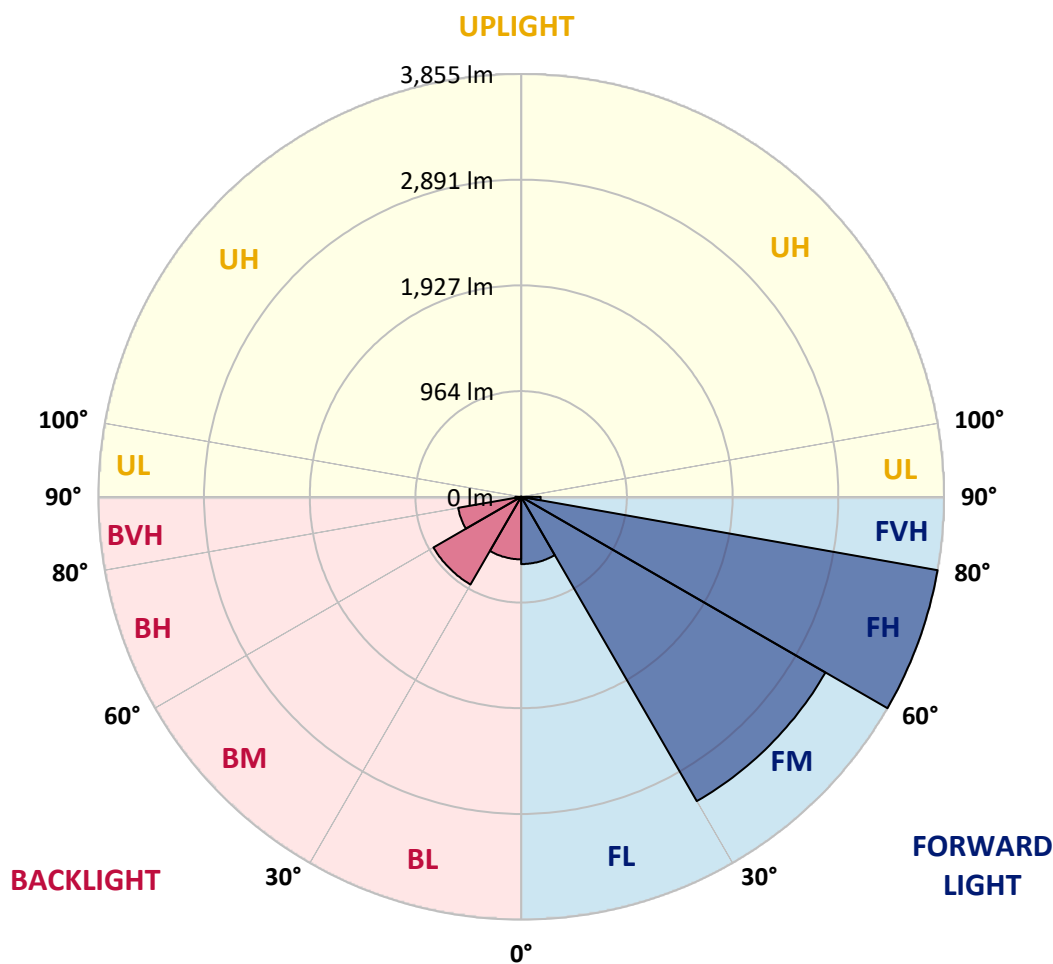
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	613.5	6.1			
FM	(30°-60°)	3203.3	32.1			
FH	(60°-80°)	3854.9	38.6			G2/5000
FVH	(80°-90°)	178.1	1.8			G2/225
BL	(0°-30°)	570.0	5.7	B2/1000		
BM	(30°-60°)	923.0	9.2	B1/1000		
BH	(60°-80°)	582.4	5.8	B2/1000		G2/1000
BVH	(80°-90°)	53.9	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°	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3
2.5°	1291.1	1295.5	1292.2	1293.4	1293.4	1294.4	1294.4	1295.5	1294.4	1297.7	1299.9
5°	1268.0	1270.3	1269.1	1271.3	1273.5	1277.9	1276.8	1282.3	1283.4	1286.7	1292.2
7.5°	1259.2	1257.0	1258.1	1261.5	1263.6	1265.8	1268.0	1272.4	1275.8	1283.4	1287.8
10°	1268.0	1266.9	1268.0	1270.3	1270.3	1271.3	1269.1	1273.5	1275.8	1282.3	1286.7
12.5°	1304.4	1304.4	1302.2	1302.2	1299.9	1297.7	1292.2	1288.9	1287.8	1288.9	1291.1
15°	1362.7	1360.4	1356.1	1352.7	1348.4	1340.6	1333.0	1326.3	1322.0	1315.3	1313.2
17.5°	1419.9	1416.6	1412.2	1407.8	1402.3	1394.6	1382.5	1374.8	1362.7	1354.9	1350.6
20°	1485.9	1479.4	1473.9	1468.3	1457.3	1455.1	1443.0	1429.8	1415.5	1397.9	1395.6
22.5°	1571.8	1560.8	1554.2	1550.9	1539.9	1536.6	1516.8	1498.0	1480.4	1457.3	1451.8
25°	1658.8	1647.8	1644.5	1640.0	1632.3	1628.0	1609.2	1588.3	1565.2	1533.3	1526.6
27.5°	1743.5	1744.6	1735.9	1739.1	1736.9	1729.2	1710.5	1689.5	1671.9	1634.5	1626.8
30°	1849.2	1842.6	1838.1	1844.8	1837.1	1838.1	1821.7	1810.7	1782.1	1760.0	1744.6
32.5°	1959.3	1958.1	1964.8	1969.1	1968.1	1965.8	1952.6	1941.7	1916.3	1884.4	1877.8
35°	2110.1	2116.7	2122.2	2142.0	2142.0	2156.3	2143.1	2129.8	2100.1	2061.7	2048.4
37.5°	2212.4	2214.6	2236.6	2263.0	2296.1	2326.8	2335.6	2339.0	2326.8	2298.2	2278.4
40°	2306.0	2310.4	2345.6	2386.3	2434.7	2495.3	2531.6	2548.1	2551.4	2538.2	2495.3
42.5°	2399.5	2406.1	2442.5	2501.9	2569.0	2646.1	2709.9	2750.7	2773.8	2773.8	2748.5
45°	2508.5	2517.3	2556.9	2621.9	2700.0	2796.9	2885.0	2963.1	3000.5	3002.7	2978.4
47.5°	2637.3	2645.0	2691.2	2757.2	2837.6	2935.5	3046.7	3135.9	3205.3	3209.6	3189.8
50°	2803.5	2814.5	2853.1	2912.4	2995.0	3094.1	3205.3	3329.6	3402.3	3419.9	3399.0
52.5°	3023.6	3025.8	3057.7	3112.7	3193.2	3287.8	3405.6	3540.9	3636.7	3651.0	3616.9
55°	3327.5	3324.1	3345.1	3404.5	3465.0	3538.8	3660.9	3812.8	3919.6	3941.7	3906.4
57.5°	3740.2	3736.9	3754.5	3768.8	3882.2	3953.7	4073.7	4219.0	4322.5	4386.3	4325.7
60°	4379.7	4376.4	4405.0	4488.7	4573.4	4677.9	4794.6	4968.6	5113.9	5132.5	5073.2
62.5°	4843.1	4859.6	4922.3	5020.3	5192.0	5396.7	5610.3	5839.2	6137.5	6232.1	6203.5
65°	4681.2	4714.3	4801.2	4949.8	5178.8	5461.7	5796.3	6211.3	6610.8	6834.2	6827.7
66°	4536.0	4572.3	4679.1	4822.2	5064.4	5373.6	5739.1	6191.4	6638.3	6884.9	6900.3
67.5°	4271.8	4312.5	4417.1	4586.6	4822.2	5151.3	5544.2	6036.3	6541.5	6828.7	6869.4
70°	3757.8	3804.0	3880.0	4019.8	4252.0	4545.9	4959.8	5400.0	5929.4	6258.5	6308.1
72.5°	3141.3	3182.1	3266.8	3381.3	3571.8	3756.7	4081.3	4406.1	4784.8	5160.1	5123.7
75°	2255.3	2273.0	2323.6	2448.0	2550.4	2716.5	2977.4	3243.7	3502.4	3674.1	3698.3
77.5°	1172.2	1218.4	1290.1	1427.6	1538.8	1688.5	1858.0	2058.3	2247.7	2405.1	2362.1
80°	767.2	787.0	850.9	921.2	1002.7	1098.5	1211.9	1286.7	1311.0	1301.0	1311.0
82.5°	442.5	478.8	563.5	617.5	678.0	711.1	801.3	887.2	935.5	875.0	853.1
85°	56.2	72.6	228.9	288.4	330.3	379.8	407.3	459.0	428.2	383.0	466.7
87.5°	12.1	11.0	15.4	33.1	34.1	28.6	53.9	57.2	35.2	17.6	22.0
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°	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3
2.5°	1302.2	1303.2	1305.4	1308.7	1311.0	1313.2	1315.3	1318.7	1320.8	1323.0	1327.5
5°	1296.6	1301.0	1305.4	1309.8	1315.3	1324.1	1329.6	1334.1	1338.4	1347.3	1350.6
7.5°	1293.4	1301.0	1307.7	1315.3	1324.1	1331.8	1341.8	1347.3	1353.9	1359.4	1366.0
10°	1291.1	1302.2	1308.7	1319.7	1329.6	1337.3	1348.4	1354.9	1362.7	1369.2	1372.5
12.5°	1295.5	1301.0	1307.7	1318.7	1330.8	1341.8	1353.9	1359.4	1366.0	1371.5	1372.5
15°	1314.2	1314.2	1315.3	1324.1	1336.3	1345.1	1354.9	1360.4	1363.7	1367.0	1367.0
17.5°	1348.4	1340.6	1335.1	1336.3	1343.9	1349.4	1354.9	1354.9	1352.7	1351.7	1349.4
20°	1388.0	1378.0	1367.0	1359.4	1357.2	1352.7	1349.4	1338.4	1329.6	1322.0	1316.5
22.5°	1445.2	1429.8	1414.4	1400.1	1386.8	1370.4	1351.7	1329.6	1308.7	1294.4	1285.6
25°	1515.6	1503.5	1484.9	1462.8	1446.3	1415.5	1391.3	1359.4	1333.0	1314.2	1298.9
27.5°	1615.9	1601.6	1583.9	1564.1	1539.9	1505.8	1476.1	1438.7	1406.7	1379.2	1359.4
30°	1740.2	1721.5	1708.3	1684.0	1667.6	1629.0	1599.3	1553.1	1491.4	1447.5	1419.9
32.5°	1867.9	1846.9	1836.0	1817.3	1798.5	1775.4	1730.3	1658.8	1579.5	1508.0	1460.6
35°	2038.4	2016.5	1996.7	1980.2	1952.6	1909.7	1870.1	1784.2	1675.2	1575.1	1495.9
37.5°	2253.2	2216.8	2167.3	2125.5	2077.0	2015.3	1954.8	1866.7	1742.4	1612.5	1506.8
40°	2482.1	2418.2	2347.8	2269.6	2186.0	2096.8	2027.5	1938.3	1798.5	1644.5	1499.2
42.5°	2720.9	2619.7	2521.7	2411.6	2294.9	2189.3	2099.1	2001.0	1840.4	1653.3	1468.3
45°	2957.6	2844.2	2695.6	2551.4	2403.9	2273.0	2171.7	2061.7	1878.9	1656.6	1427.6
47.5°	3153.5	3036.8	2867.4	2686.8	2511.8	2363.2	2244.4	2125.5	1930.7	1679.7	1417.7
50°	3360.4	3218.4	3030.3	2816.7	2618.5	2452.3	2325.8	2202.5	2003.3	1739.1	1449.6
52.5°	3586.1	3423.2	3203.0	2964.1	2747.4	2561.3	2423.7	2297.2	2095.8	1822.8	1510.2
55°	3861.2	3662.1	3423.2	3153.5	2921.2	2715.4	2563.5	2413.9	2205.8	1921.9	1586.1
57.5°	4281.8	4037.4	3768.8	3461.7	3204.1	2960.9	2779.3	2606.4	2376.4	2069.3	1689.5
60°	5042.3	4781.5	4432.5	4060.5	3757.8	3473.8	3207.5	2992.8	2709.9	2359.9	1918.5
62.5°	6132.0	5785.3	5319.7	4799.1	4402.8	3993.4	3692.8	3373.7	3022.5	2645.0	2188.2
65°	6737.4	6316.9	5693.9	5089.6	4580.0	4135.3	3753.4	3383.5	2993.9	2632.8	2250.9
66°	6812.2	6374.2	5726.9	5090.8	4555.8	4099.0	3697.2	3314.2	2915.8	2571.2	2224.6
67.5°	6781.5	6333.5	5666.4	4995.0	4451.2	3960.3	3545.4	3148.0	2750.7	2429.2	2136.5
70°	6276.2	5851.3	5196.4	4545.9	4029.6	3545.4	3149.1	2758.3	2394.0	2118.9	1903.1
72.5°	5211.8	4848.6	4279.5	3768.8	3363.7	2964.1	2628.5	2255.3	1947.2	1743.5	1615.9
75°	3762.2	3542.1	3023.6	2730.9	2375.3	2110.1	1784.2	1563.0	1341.8	1242.7	1220.7
77.5°	2376.4	2080.3	1751.2	1441.9	1185.5	982.9	765.0	649.4	541.6	530.6	640.6
80°	1203.1	1083.1	834.3	664.9	559.2	452.4	357.7	270.8	189.3	227.9	273.0
82.5°	788.1	657.1	515.1	423.7	368.7	306.0	237.7	165.1	121.0	136.5	187.2
85°	426.0	363.2	292.7	231.2	187.2	167.4	112.2	79.3	78.1	83.6	106.7
87.5°	30.8	30.8	24.2	22.0	26.4	22.0	19.8	19.8	18.8	19.8	26.4
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°	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3
2.5°	1329.6	1333.0	1334.1	1339.6	1342.9	1345.1	1347.3	1347.3	1348.4	1351.7	1352.7
5°	1354.9	1360.4	1367.0	1371.5	1373.7	1380.3	1382.5	1382.5	1384.7	1389.1	1392.4
7.5°	1370.4	1378.0	1384.7	1386.8	1391.3	1393.5	1396.8	1399.0	1399.0	1403.4	1405.6
10°	1375.9	1380.3	1386.8	1386.8	1391.3	1391.3	1394.6	1395.6	1395.6	1400.1	1403.4
12.5°	1375.9	1378.0	1383.6	1383.6	1386.8	1388.0	1392.4	1395.6	1396.8	1402.3	1406.7
15°	1369.2	1371.5	1375.9	1377.0	1384.7	1389.1	1399.0	1405.6	1405.6	1411.1	1413.3
17.5°	1350.6	1356.1	1364.9	1373.7	1388.0	1397.9	1409.9	1415.5	1411.1	1407.8	1404.5
20°	1319.7	1329.6	1350.6	1372.5	1397.9	1411.1	1417.7	1412.2	1396.8	1381.3	1371.5
22.5°	1288.9	1308.7	1343.9	1377.0	1405.6	1414.4	1411.1	1391.3	1366.0	1347.3	1334.1
25°	1303.2	1326.3	1360.4	1390.2	1408.9	1406.7	1393.5	1366.0	1338.4	1314.2	1292.2
27.5°	1362.7	1388.0	1406.7	1416.6	1414.4	1399.0	1378.0	1347.3	1314.2	1282.3	1251.5
30°	1418.8	1432.0	1436.4	1428.7	1411.1	1385.8	1359.4	1324.1	1280.1	1240.5	1205.3
32.5°	1444.1	1430.9	1409.9	1389.1	1360.4	1338.4	1302.2	1263.6	1208.6	1161.2	1126.0
35°	1444.1	1391.3	1338.4	1294.4	1251.5	1223.9	1182.2	1130.5	1079.8	1040.2	1012.6
37.5°	1412.2	1311.0	1223.9	1152.4	1098.5	1068.8	1006.0	959.8	916.9	903.6	886.1
40°	1353.9	1204.1	1078.7	985.1	916.9	872.8	810.2	778.2	761.7	755.1	751.8
42.5°	1275.8	1085.3	918.0	802.4	728.7	679.2	637.3	617.5	616.4	615.3	615.3
45°	1192.0	957.6	761.7	624.1	559.2	515.1	495.3	487.6	494.2	493.2	494.2
47.5°	1140.3	860.7	618.5	472.2	422.7	394.1	384.1	387.5	393.0	390.8	390.8
50°	1133.7	811.2	522.8	367.7	330.3	315.9	313.7	313.7	317.0	314.8	313.7
52.5°	1157.9	803.5	473.3	315.9	286.2	274.1	271.9	270.8	269.6	263.1	257.5
55°	1199.8	821.1	459.0	302.7	271.9	258.7	255.3	253.2	248.8	240.0	230.1
57.5°	1283.4	876.2	472.2	309.3	276.3	265.3	262.0	262.0	253.2	238.9	224.6
60°	1484.9	1016.0	526.1	334.6	297.2	286.2	288.4	287.3	274.1	253.2	231.2
62.5°	1744.6	1198.7	596.6	369.8	323.6	321.5	332.4	330.3	308.2	276.3	244.4
65°	1864.6	1284.6	616.4	377.5	329.1	339.1	361.0	358.9	331.3	287.3	246.5
66°	1866.7	1284.6	607.6	371.0	321.5	333.5	355.5	354.4	326.9	282.9	242.2
67.5°	1821.7	1249.3	582.3	357.7	306.0	314.8	334.6	333.5	308.2	271.9	233.4
70°	1652.1	1118.3	517.3	334.6	285.1	280.7	287.3	282.9	266.3	241.0	214.6
72.5°	1415.5	938.9	451.3	317.0	270.8	253.2	248.8	245.5	232.2	217.9	201.5
75°	1115.0	743.0	396.3	303.8	257.5	234.4	226.7	222.4	213.6	203.6	190.5
77.5°	688.0	531.6	345.6	286.2	247.7	224.6	219.1	212.4	199.3	187.2	177.2
80°	307.0	329.1	283.9	249.8	221.2	200.3	191.5	181.7	168.4	160.7	155.2
82.5°	204.8	212.4	205.8	187.2	167.4	150.8	137.6	137.6	135.3	128.8	126.6
85°	131.0	132.1	127.7	115.5	107.9	97.9	92.4	93.6	97.9	96.9	95.8
87.5°	29.7	29.7	35.2	33.1	38.5	40.7	44.0	47.4	53.9	53.9	57.2
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):

	160°	165°	170°	175°	180°
0°	1315.3	1315.3	1315.3	1315.3	1315.3
2.5°	1353.9	1356.1	1358.2	1354.9	1356.1
5°	1392.4	1391.3	1396.8	1393.5	1395.6
7.5°	1404.5	1405.6	1409.9	1409.9	1411.1
10°	1405.6	1407.8	1413.3	1416.6	1418.8
12.5°	1411.1	1415.5	1424.4	1426.5	1426.5
15°	1415.5	1417.7	1423.2	1425.4	1427.6
17.5°	1400.1	1395.6	1397.9	1399.0	1397.9
20°	1361.6	1357.2	1356.1	1351.7	1353.9
22.5°	1319.7	1307.7	1299.9	1291.1	1291.1
25°	1269.1	1250.4	1235.0	1219.6	1222.9
27.5°	1221.8	1197.5	1182.2	1172.2	1170.1
30°	1175.5	1150.3	1136.0	1123.8	1123.8
32.5°	1098.5	1080.9	1062.2	1054.5	1053.4
35°	991.7	980.7	965.3	962.0	956.5
37.5°	871.7	868.5	855.2	854.1	848.6
40°	746.3	748.5	744.0	741.9	738.5
42.5°	620.8	631.8	629.6	628.5	626.3
45°	500.8	508.5	509.6	513.0	518.4
47.5°	394.1	396.3	398.4	397.3	398.4
50°	308.2	302.7	301.6	298.2	301.6
52.5°	248.8	240.0	235.5	231.2	228.9
55°	219.1	210.3	205.8	203.6	201.5
57.5°	211.3	202.5	196.0	191.5	190.5
60°	213.6	200.3	191.5	186.0	184.9
62.5°	219.1	201.5	189.3	183.8	182.7
65°	217.9	199.3	188.2	181.7	180.5
66°	214.6	197.0	186.0	180.5	179.4
67.5°	209.1	193.7	183.8	179.4	177.2
70°	199.3	189.3	181.7	176.1	173.9
72.5°	190.5	182.7	176.1	170.6	169.5
75°	180.5	173.9	167.4	162.9	161.8
77.5°	168.4	161.8	157.4	154.1	153.0
80°	148.6	144.1	139.8	135.3	135.3
82.5°	123.3	120.0	115.5	112.2	111.2
85°	94.6	94.6	91.4	88.1	86.9
87.5°	56.2	55.0	55.0	51.7	51.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)