

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: P159554

Luminaire Tested: **VST-F05-LED-E-U-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159554
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33706)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F05-LED-E-U-T3-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (35) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11529.9 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 133.3
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

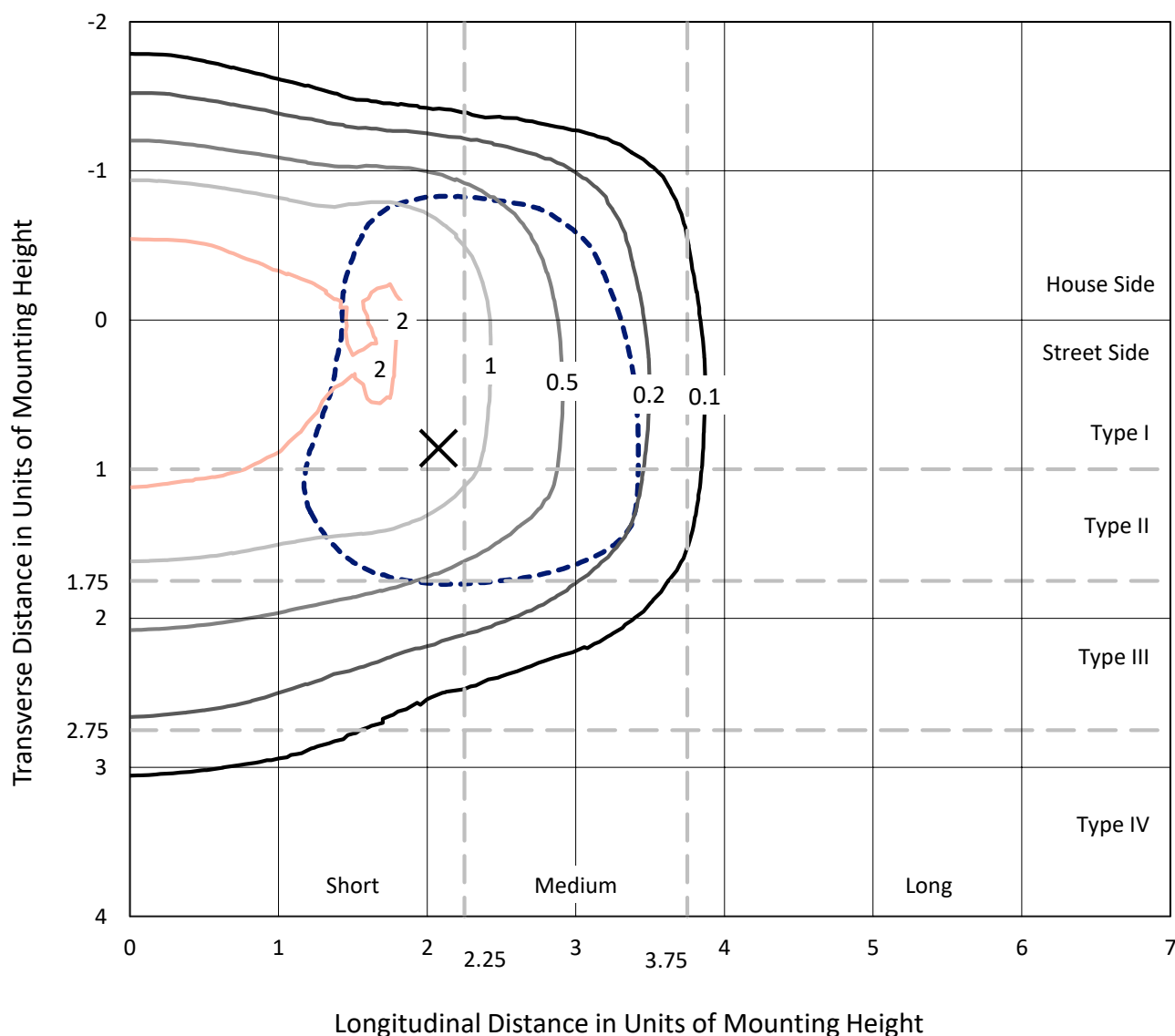


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

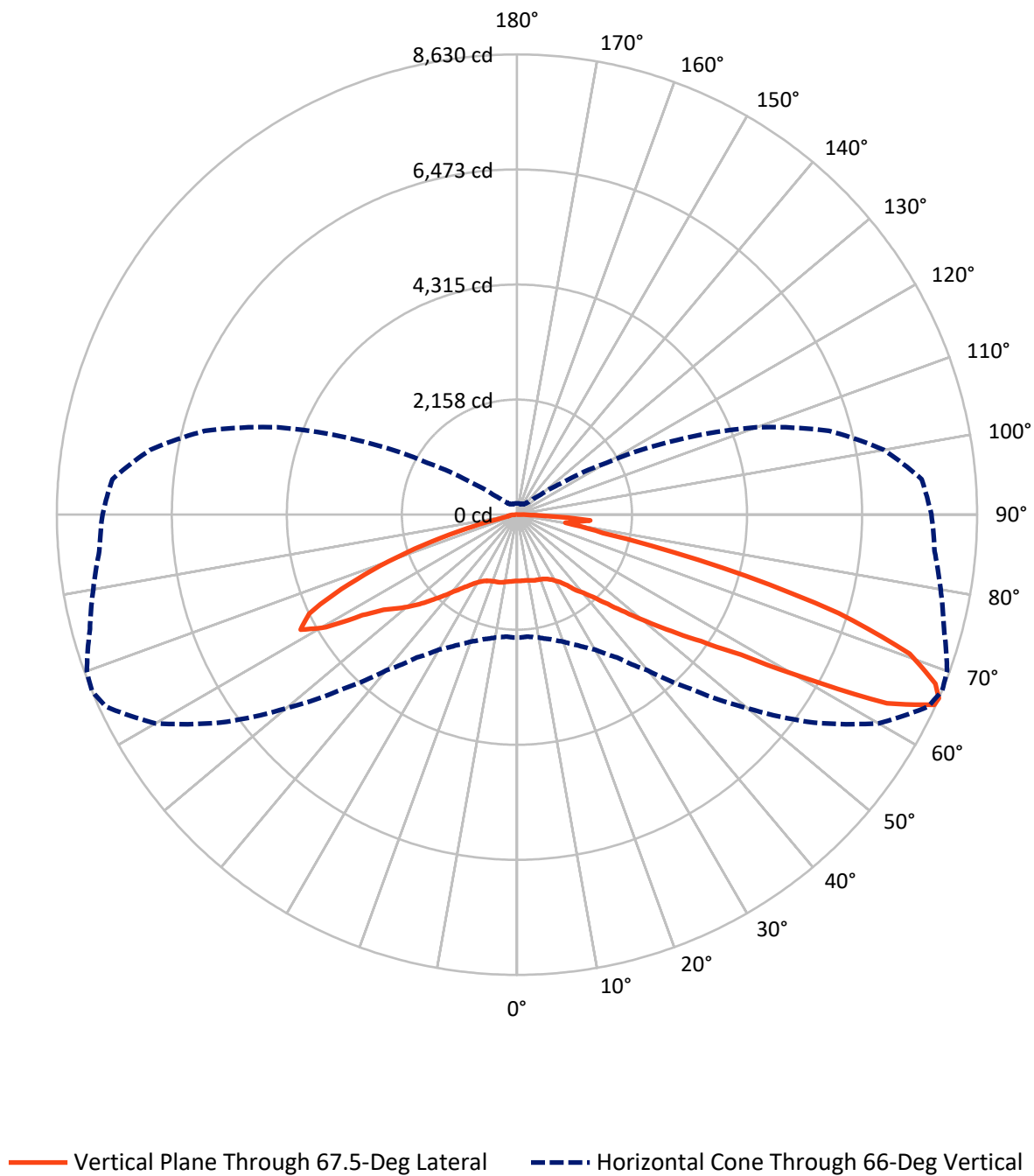


Based on 20 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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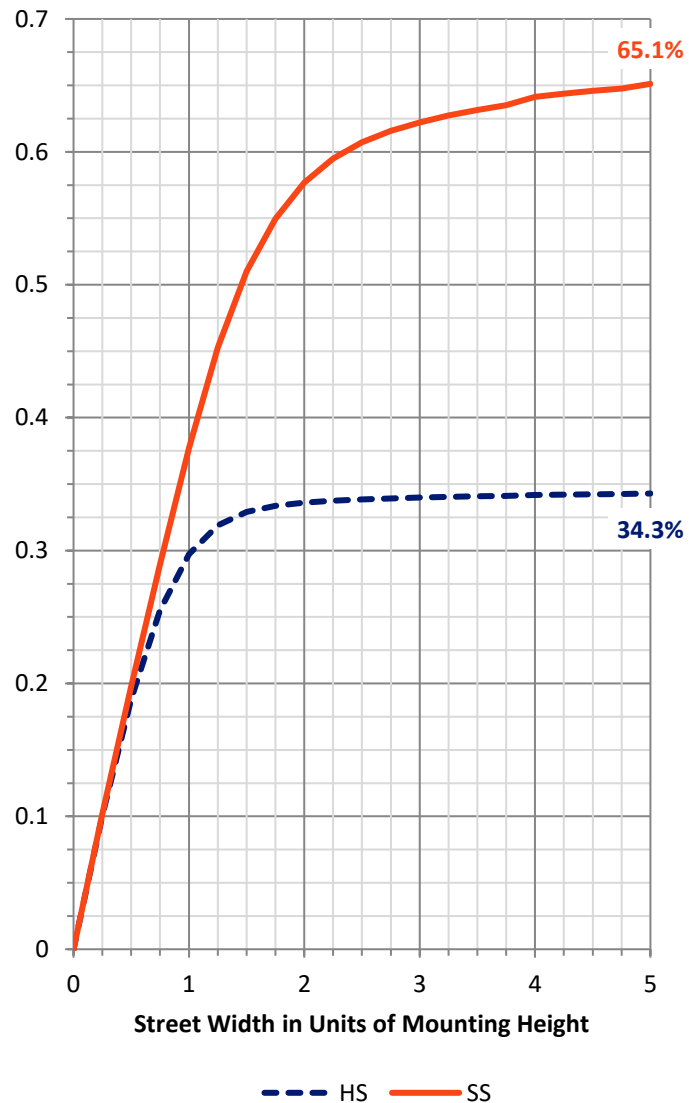
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3989.9	0.0	3989.9
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	7540.1	0.0	7540.1
	% Fixture	65.4	0.0	65.4
Total	Lumens	11529.9	0.0	11529.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	1.0
10°-20°	353.5	3.1
20°-30°	607.7	5.3
30°-40°	982.1	8.5
40°-50°	1627.6	14.1
50°-60°	2554.4	22.2
60°-70°	3492.4	30.3
70°-80°	1535.8	13.3
80°-90°	257.1	2.2
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°	11529.9	100.0
0°-180°	11529.9	100.0

Coefficient of Utilization



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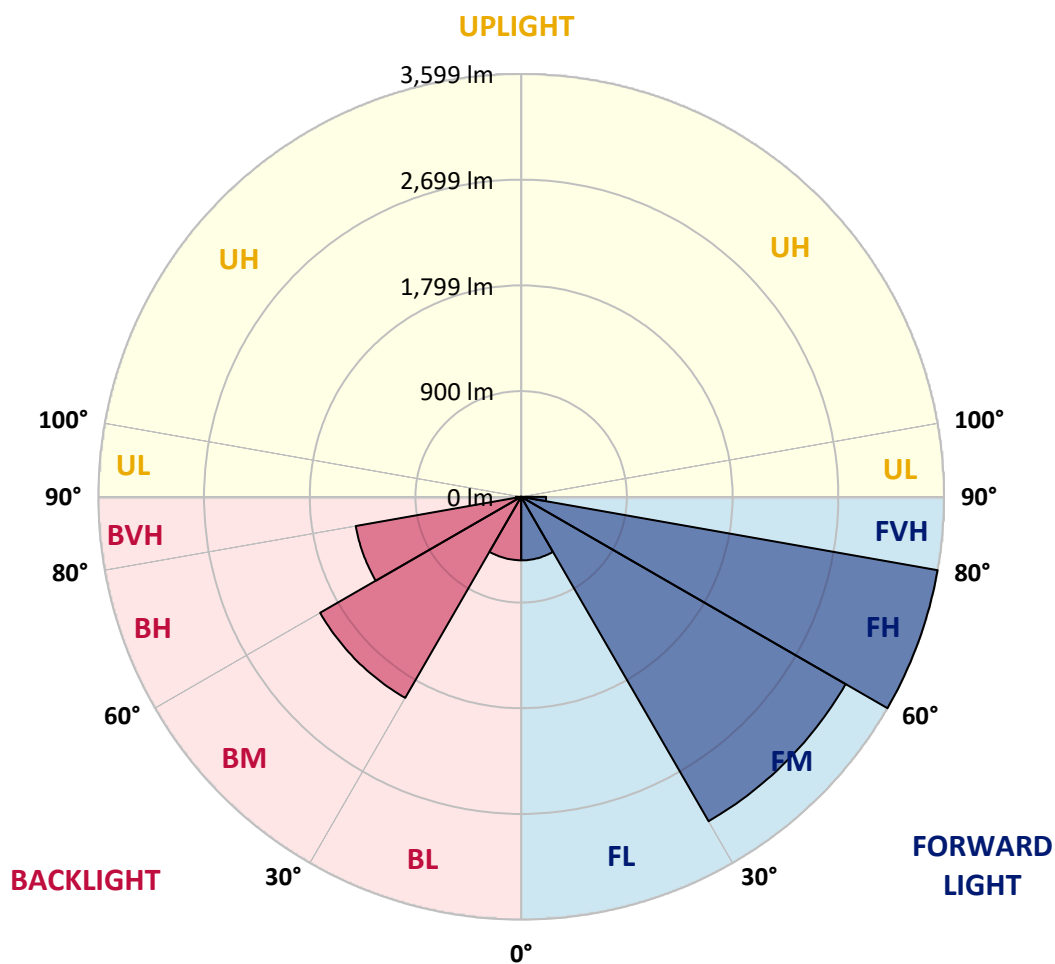
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	540.9	4.7			
FM	(30°-60°)	3188.4	27.7			
FH	(60°-80°)	3598.8	31.2			G2/5000
FVH	(80°-90°)	212.1	1.8			G2/225
BL	(0°-30°)	539.7	4.7	B2/1000		
BM	(30°-60°)	1975.8	17.1	B2/2500		
BH	(60°-80°)	1429.4	12.4	B3/2500		G3/2500
BVH	(80°-90°)	45.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1
2.5°	1241.8	1241.8	1242.6	1241.8	1241.8	1241.1	1244.1	1244.1	1244.1	1243.3	1245.6
5°	1238.8	1238.8	1239.6	1239.6	1240.3	1239.6	1241.8	1242.6	1242.6	1242.6	1244.8
7.5°	1231.3	1233.5	1232.0	1232.8	1233.5	1235.8	1238.8	1240.3	1241.8	1244.1	1244.8
10°	1215.4	1219.2	1218.5	1220.7	1221.5	1228.3	1230.5	1233.5	1238.8	1241.8	1244.1
12.5°	1193.6	1195.8	1196.6	1199.6	1202.6	1210.9	1216.9	1222.2	1229.8	1237.3	1244.8
15°	1176.2	1177.7	1177.7	1180.8	1185.3	1192.8	1200.4	1209.4	1220.7	1233.5	1245.6
17.5°	1181.5	1185.3	1182.3	1181.5	1183.0	1187.5	1194.3	1201.9	1215.4	1229.8	1244.1
20°	1216.2	1216.9	1215.4	1211.7	1208.7	1209.4	1209.4	1210.9	1219.2	1230.5	1241.8
22.5°	1244.8	1247.9	1247.1	1247.9	1247.1	1250.1	1248.6	1245.6	1242.6	1243.3	1248.6
25°	1269.7	1272.7	1272.7	1275.0	1278.8	1284.8	1289.3	1288.6	1284.1	1278.0	1275.8
27.5°	1310.4	1310.4	1310.4	1312.7	1318.0	1325.5	1333.1	1337.6	1341.4	1335.3	1322.5
30°	1374.5	1375.3	1373.0	1373.8	1377.5	1387.3	1396.4	1403.2	1410.7	1410.0	1393.4
32.5°	1444.7	1447.7	1446.9	1449.9	1455.2	1464.3	1474.1	1484.6	1494.4	1500.4	1489.9
35°	1535.1	1538.1	1538.9	1543.4	1549.5	1563.0	1576.6	1590.2	1600.7	1605.3	1603.0
37.5°	1683.7	1684.4	1681.4	1674.6	1676.9	1687.4	1703.3	1725.1	1731.9	1736.4	1747.0
40°	1906.1	1903.8	1891.8	1885.7	1882.0	1886.5	1883.5	1900.8	1916.7	1917.4	1916.7
42.5°	2176.0	2169.2	2157.9	2156.4	2154.9	2153.4	2145.1	2145.9	2160.2	2164.0	2159.4
45°	2444.4	2436.2	2427.9	2435.4	2426.4	2449.7	2456.5	2474.6	2476.9	2484.4	2473.1
47.5°	2664.6	2665.4	2665.4	2675.9	2694.0	2738.5	2778.5	2813.1	2826.0	2844.1	2846.3
50°	2831.2	2835.8	2850.1	2884.0	2922.5	2997.1	3064.2	3126.8	3183.4	3204.5	3260.3
52.5°	2928.5	2940.6	2970.7	3027.3	3095.9	3192.4	3298.0	3404.3	3502.3	3585.2	3651.6
55°	2911.2	2920.2	2973.0	3061.2	3168.3	3298.0	3445.8	3599.6	3752.6	3892.9	4001.4
57.5°	2799.6	2805.6	2858.4	2957.9	3091.4	3265.5	3474.4	3702.9	3917.8	4143.9	4329.4
60°	2653.3	2662.4	2711.4	2789.8	2929.3	3114.7	3356.8	3666.7	4009.7	4365.6	4712.5
62.5°	2559.8	2557.5	2600.5	2670.6	2775.4	2943.6	3176.6	3543.8	4018.8	4620.5	5305.9
65°	2404.5	2397.7	2442.2	2522.1	2636.0	2798.8	3019.7	3372.6	3923.8	4717.0	5688.9
66°	2308.0	2294.4	2338.9	2419.6	2533.4	2706.8	2918.7	3267.1	3808.4	4622.7	5648.2
67.5°	2139.1	2132.3	2153.4	2216.7	2301.2	2464.1	2685.0	3035.6	3535.5	4339.2	5349.6
70°	1738.7	1723.6	1740.2	1768.9	1801.3	1841.3	1977.0	2255.2	2678.2	3457.1	4309.8
72.5°	1184.5	1177.0	1207.9	1251.6	1338.3	1379.1	1432.6	1477.8	1627.1	2179.0	3006.2
75°	901.0	905.5	944.8	1017.1	1128.7	1249.4	1367.0	1410.0	1360.2	1317.2	1706.3
77.5°	505.2	531.6	579.1	671.1	789.4	959.8	1164.9	1391.1	1504.2	1476.3	1380.6
80°	208.1	204.3	227.7	278.2	318.9	458.4	701.2	984.7	1302.9	1504.2	1472.5
82.5°	58.1	59.6	76.9	98.8	127.4	162.1	253.3	407.2	663.5	1032.2	1351.2
85°	18.1	18.1	24.9	36.9	43.7	50.5	64.1	105.6	180.2	359.7	729.1
87.5°	3.8	3.8	5.3	10.6	11.3	11.3	14.3	19.6	17.3	15.8	70.9
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1
2.5°	1243.3	1241.8	1242.6	1243.3	1242.6	1242.6	1241.8	1241.1	1241.8	1241.8	1244.1
5°	1242.6	1241.8	1242.6	1242.6	1242.6	1243.3	1243.3	1243.3	1245.6	1245.6	1249.4
7.5°	1244.1	1244.1	1245.6	1245.6	1245.6	1245.6	1246.4	1247.9	1251.6	1250.9	1257.7
10°	1247.1	1248.6	1252.4	1253.1	1253.1	1255.4	1256.9	1259.9	1263.7	1265.2	1271.2
12.5°	1250.9	1258.4	1265.2	1266.7	1269.0	1272.7	1275.0	1276.5	1283.3	1285.6	1293.1
15°	1255.4	1266.0	1274.2	1277.3	1280.3	1284.8	1287.8	1290.1	1296.1	1299.1	1308.2
17.5°	1256.2	1268.2	1278.0	1282.5	1286.3	1291.6	1296.1	1300.6	1307.4	1311.9	1321.0
20°	1255.4	1271.2	1286.3	1292.3	1296.1	1305.9	1312.7	1318.7	1327.0	1331.6	1340.6
22.5°	1263.7	1281.8	1302.1	1309.7	1315.7	1329.3	1338.3	1348.1	1358.7	1361.7	1368.5
25°	1283.3	1302.1	1327.8	1338.3	1348.9	1367.0	1379.8	1394.1	1404.7	1406.2	1408.5
27.5°	1316.5	1333.8	1364.7	1380.6	1397.9	1423.5	1442.4	1456.7	1471.8	1471.8	1470.3
30°	1383.6	1387.3	1419.8	1440.1	1465.8	1503.5	1531.4	1547.2	1558.5	1558.5	1545.7
32.5°	1470.3	1465.8	1495.2	1517.0	1552.5	1605.3	1643.0	1655.0	1667.1	1663.3	1641.4
35°	1595.5	1582.6	1599.2	1632.4	1672.4	1744.7	1783.9	1811.1	1818.6	1808.1	1773.4
37.5°	1753.0	1751.5	1759.8	1796.8	1841.3	1934.7	1974.7	1992.1	1986.0	1967.2	1906.1
40°	1919.7	1915.1	1909.9	1934.7	1984.5	2096.9	2167.7	2176.8	2168.5	2140.6	2063.7
42.5°	2142.1	2142.1	2117.2	2124.0	2165.5	2291.4	2375.1	2403.7	2404.5	2363.8	2261.2
45°	2448.2	2445.2	2401.5	2390.9	2422.6	2546.2	2654.1	2669.9	2669.9	2616.4	2504.0
47.5°	2816.2	2812.4	2769.4	2732.5	2738.5	2872.0	2961.7	2985.8	2964.7	2924.7	2791.3
50°	3230.9	3224.1	3180.3	3145.7	3130.6	3265.5	3341.7	3353.0	3322.1	3274.6	3129.8
52.5°	3651.6	3671.9	3646.3	3627.5	3632.7	3720.2	3798.6	3745.1	3729.3	3678.0	3532.5
55°	4089.7	4152.2	4208.8	4192.2	4211.8	4297.0	4312.1	4241.2	4212.6	4175.6	4013.5
57.5°	4530.7	4713.2	4898.7	4950.7	4999.0	5121.1	5103.8	4987.7	5009.5	5064.6	4882.1
60°	5146.8	5673.8	6144.3	6231.0	6381.0	6485.1	6508.5	6485.9	6587.6	6559.0	6397.6
62.5°	6093.0	6971.4	7625.9	7788.8	7939.6	7934.3	7855.1	7773.7	7874.0	7874.0	7452.5
65°	6768.6	7765.4	8465.8	8600.8	8594.8	8413.1	8226.1	8063.2	8048.9	7937.3	7321.3
66°	6800.3	7826.5	8512.6	8630.2	8585.0	8292.4	8068.5	7861.9	7773.7	7618.4	6987.3
67.5°	6515.3	7653.8	8360.3	8462.8	8343.7	7924.5	7616.1	7339.4	7211.2	6949.6	6355.4
70°	5344.3	6577.8	7605.5	7815.1	7680.2	7149.4	6727.1	6353.1	6108.1	5730.4	5302.1
72.5°	3901.2	4856.5	5969.4	6310.2	6289.1	5800.5	5460.4	5118.1	4796.2	4452.3	4139.4
75°	2535.7	3159.2	3779.8	3978.8	3883.1	3600.3	3356.8	3157.0	2851.6	2612.6	2554.5
77.5°	1447.7	1768.9	1673.1	1648.2	1528.3	1233.5	820.3	575.3	519.5	648.4	711.0
80°	1377.5	1248.6	1022.4	922.1	847.5	577.6	303.1	213.4	187.0	191.5	205.8
82.5°	1553.2	1618.8	1324.0	1106.1	962.8	702.7	383.8	178.7	130.4	154.6	173.4
85°	1164.2	1639.2	1624.9	1376.8	1129.5	809.8	453.9	136.5	78.4	108.6	141.8
87.5°	236.0	388.3	374.0	328.7	279.7	195.3	76.2	43.0	39.2	53.5	81.4
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°	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1
2.5°	1245.6	1245.6	1247.1	1249.4	1250.1	1250.1	1251.6	1250.1	1253.1	1253.9	1254.6
5°	1252.4	1254.6	1256.2	1259.9	1262.2	1263.7	1266.0	1264.4	1267.5	1268.2	1269.7
7.5°	1259.9	1263.7	1266.7	1268.2	1271.2	1271.2	1272.0	1270.5	1269.7	1267.5	1266.7
10°	1273.5	1275.8	1279.5	1278.0	1276.5	1271.2	1266.7	1259.9	1256.2	1249.4	1245.6
12.5°	1295.4	1296.9	1296.9	1290.1	1280.3	1268.2	1256.9	1245.6	1236.5	1229.0	1224.5
15°	1310.4	1313.5	1309.7	1299.9	1285.6	1269.0	1253.9	1238.8	1226.7	1216.9	1210.9
17.5°	1321.8	1321.0	1314.2	1300.6	1287.1	1272.7	1259.2	1243.3	1228.3	1213.9	1204.9
20°	1339.1	1331.6	1319.5	1305.2	1290.8	1278.8	1268.2	1253.1	1237.3	1217.7	1204.1
22.5°	1362.5	1348.9	1331.6	1316.5	1302.9	1291.6	1279.5	1266.7	1250.1	1228.3	1209.4
25°	1395.6	1372.3	1352.7	1337.6	1325.5	1312.7	1299.1	1282.5	1266.0	1243.3	1220.7
27.5°	1446.2	1411.5	1386.6	1373.0	1361.7	1344.4	1327.0	1307.4	1286.3	1262.9	1237.3
30°	1507.2	1465.8	1437.1	1425.0	1411.5	1391.9	1373.0	1345.9	1316.5	1288.6	1256.9
32.5°	1578.9	1536.6	1508.0	1498.9	1477.1	1454.5	1428.1	1391.9	1353.4	1311.9	1274.2
35°	1687.4	1633.9	1607.5	1586.4	1556.2	1529.1	1484.6	1437.1	1382.1	1327.0	1280.3
37.5°	1799.0	1744.7	1717.6	1688.2	1649.0	1599.2	1539.7	1471.8	1398.7	1330.8	1273.5
40°	1948.3	1889.5	1854.8	1809.6	1746.2	1668.6	1580.4	1487.6	1398.7	1314.2	1244.8
42.5°	2122.5	2068.2	2014.7	1940.0	1838.2	1725.1	1601.5	1482.4	1374.5	1277.3	1204.1
45°	2363.8	2271.0	2185.8	2065.9	1917.4	1758.3	1603.7	1457.5	1333.1	1225.2	1143.8
47.5°	2635.2	2515.3	2364.5	2176.8	1974.0	1771.1	1581.9	1410.7	1267.5	1150.6	1061.6
50°	2948.1	2764.1	2532.7	2265.0	2002.6	1753.8	1529.9	1332.3	1177.0	1042.8	947.8
52.5°	3306.3	3025.8	2685.0	2327.6	1998.1	1701.0	1443.9	1229.0	1055.6	913.1	819.6
55°	3703.6	3310.8	2830.5	2367.5	1957.4	1598.5	1308.9	1083.5	904.8	764.5	682.4
57.5°	4404.1	3810.7	3108.0	2421.1	1872.2	1443.1	1137.8	899.5	738.2	619.0	540.6
60°	5705.5	4684.6	3633.5	2547.0	1744.0	1248.6	922.1	705.7	570.8	484.1	426.0
62.5°	6510.7	5299.8	3889.9	2528.9	1535.9	982.5	684.6	523.3	417.0	359.7	323.5
65°	6320.0	5058.5	3576.9	2172.3	1195.1	696.7	453.2	342.3	286.5	257.1	239.8
66°	6060.6	4788.6	3312.3	1945.3	1041.3	582.1	374.0	287.3	246.6	224.7	215.6
67.5°	5517.0	4295.5	2856.9	1557.8	780.4	433.5	276.0	225.4	200.6	189.3	183.2
70°	4617.5	3460.8	2020.7	919.9	423.0	235.2	176.4	156.8	150.8	147.0	144.8
72.5°	3570.2	2505.5	1180.8	452.4	213.4	152.3	134.2	125.9	123.7	123.7	124.4
75°	2249.2	1440.1	528.5	217.9	144.8	122.9	114.6	110.8	111.6	112.3	111.6
77.5°	747.2	496.9	220.2	154.6	125.9	111.6	104.8	103.3	104.8	105.6	105.6
80°	214.9	187.7	159.1	136.5	115.4	104.1	98.0	97.3	101.0	101.8	100.3
82.5°	165.1	154.6	144.0	131.9	110.8	98.0	95.8	96.5	98.8	97.3	90.5
85°	151.6	150.0	107.8	107.1	96.5	93.5	91.2	92.0	89.7	81.4	73.9
87.5°	85.2	79.2	61.1	61.8	71.6	73.9	61.1	64.8	60.3	52.8	48.3
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°	1244.1	1244.1	1244.1	1244.1	1244.1
2.5°	1256.2	1255.4	1255.4	1257.7	1254.6
5°	1270.5	1269.7	1269.7	1272.0	1269.7
7.5°	1263.7	1261.4	1259.9	1259.2	1259.2
10°	1241.1	1238.8	1234.3	1232.8	1231.3
12.5°	1217.7	1215.4	1210.2	1210.2	1208.7
15°	1203.4	1200.4	1196.6	1194.3	1192.8
17.5°	1195.8	1191.3	1186.8	1184.5	1183.0
20°	1192.8	1186.8	1181.5	1177.7	1177.7
22.5°	1193.6	1186.0	1180.0	1175.5	1174.0
25°	1201.1	1189.8	1182.3	1177.7	1176.2
27.5°	1211.7	1198.1	1188.3	1182.3	1180.0
30°	1226.0	1207.1	1193.6	1186.0	1183.0
32.5°	1235.8	1209.4	1192.1	1181.5	1177.7
35°	1235.0	1201.1	1180.0	1166.4	1161.9
37.5°	1221.5	1181.5	1153.6	1137.0	1129.5
40°	1191.3	1145.3	1115.9	1100.1	1091.0
42.5°	1147.6	1097.8	1071.4	1054.1	1044.3
45°	1079.0	1030.0	997.5	984.0	971.1
47.5°	984.0	934.2	906.3	886.7	878.4
50°	872.4	822.6	793.2	777.4	769.8
52.5°	750.2	702.7	681.6	666.5	656.0
55°	623.6	579.8	570.8	554.2	544.4
57.5°	504.4	478.8	470.5	453.9	445.6
60°	394.3	386.0	377.0	366.4	361.9
62.5°	305.4	297.8	295.6	288.8	288.0
65°	233.0	233.7	232.2	230.7	229.2
66°	211.9	211.1	211.9	210.4	209.6
67.5°	180.2	183.2	185.5	184.7	184.7
70°	146.3	148.5	151.6	150.8	150.8
72.5°	125.2	128.9	130.4	129.7	129.7
75°	113.1	116.9	116.9	115.4	114.6
77.5°	105.6	107.1	105.6	104.1	102.5
80°	98.0	96.5	94.2	92.0	90.5
82.5°	85.2	81.4	79.2	75.4	75.4
85°	68.6	65.6	60.3	56.5	52.8
87.5°	44.5	43.0	39.2	29.4	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)