

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: P162185

Luminaire Tested: **OVF-E05-LED-E-U-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P162185
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33695)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVF-E05-LED-E-U-T3-8030
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12600 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

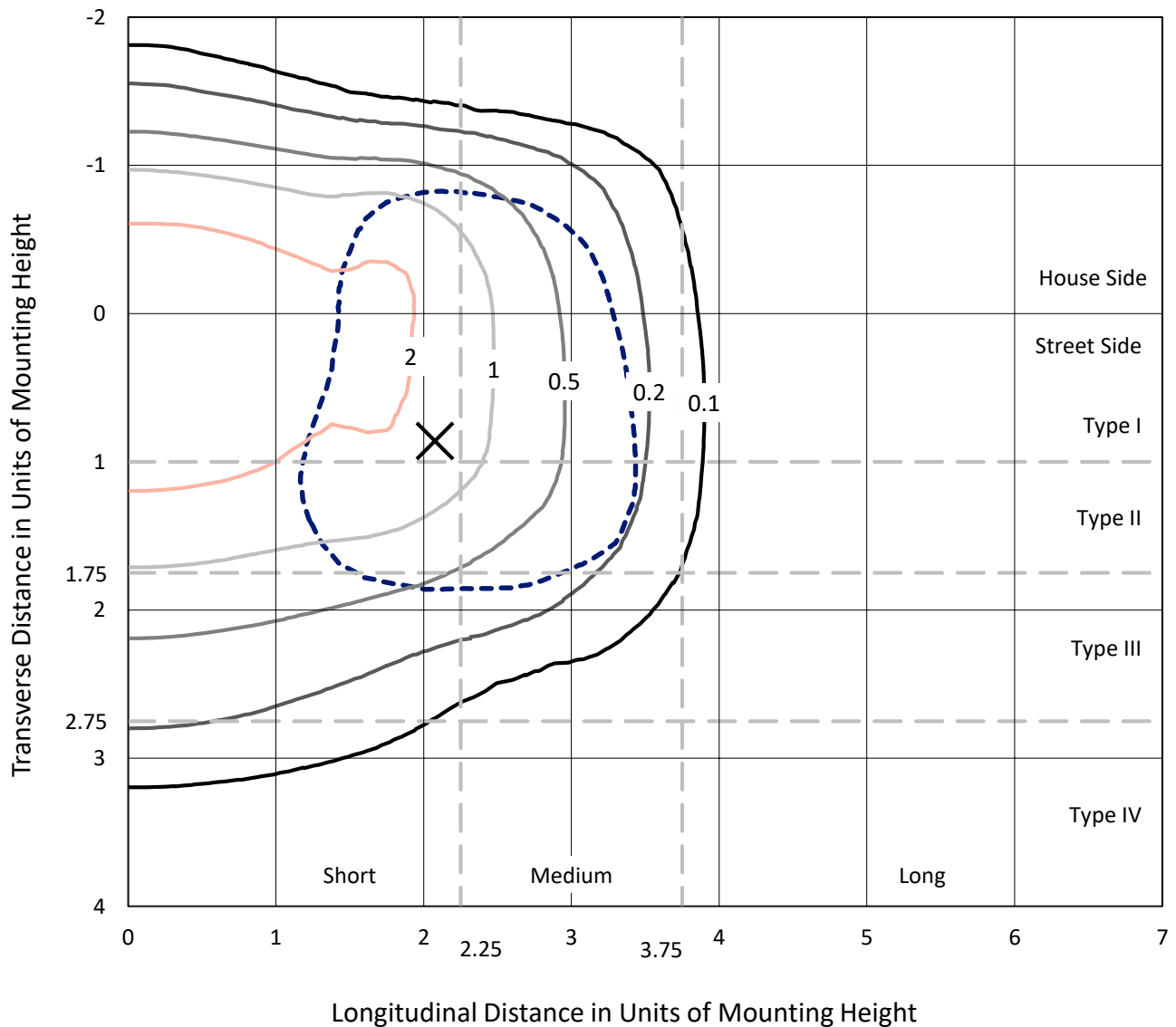
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

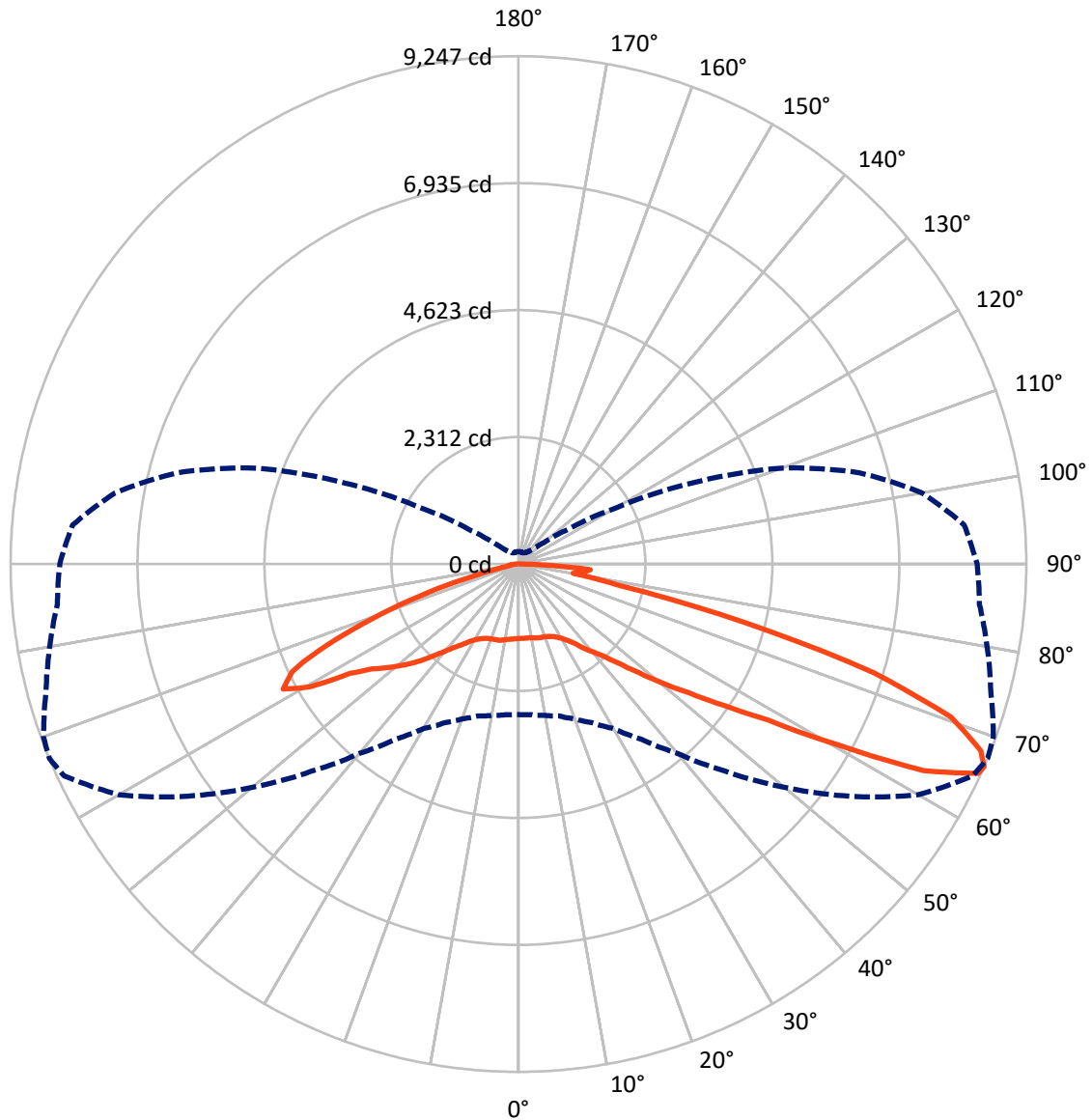
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4280.6	0.0	4280.6
	% Fixture	34.0	0.0	34.0
Street Side	Lumens	8319.3	0.0	8319.3
	% Fixture	66.0	0.0	66.0
Total	Lumens	12600.0	0.0	12600.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	1.0
10°-20°	386.1	3.1
20°-30°	663.7	5.3
30°-40°	1067.4	8.5
40°-50°	1759.4	14.0
50°-60°	2757.8	21.9
60°-70°	3816.6	30.3
70°-80°	1727.2	13.7
80°-90°	291.4	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°	12600.0	100.0
0°-180°	12600.0	100.0



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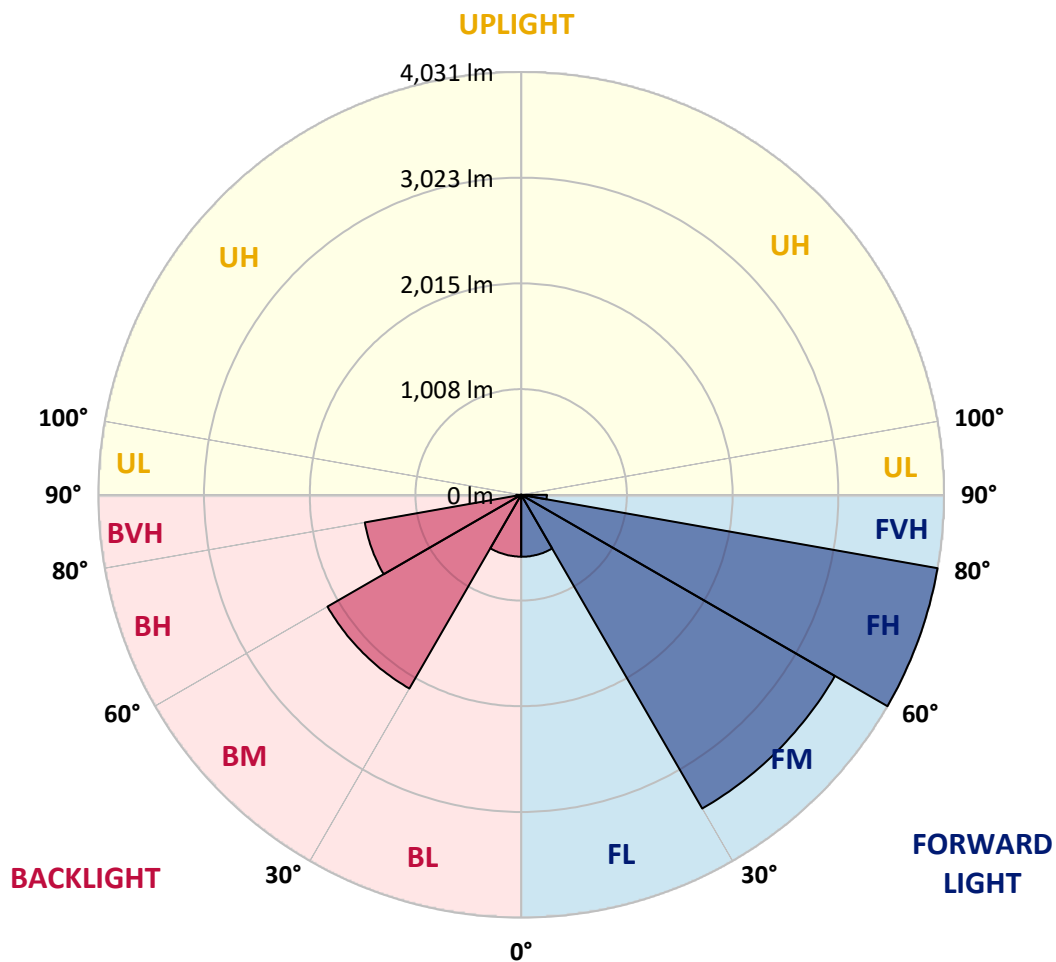
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	591.0	4.7			
FM (30°-60°)	3452.9	27.4			
FH (60°-80°)	4030.6	32.0			G2/5000
FVH (80°-90°)	244.9	1.9			G3/500
BL (0°-30°)	589.0	4.7	B2/1000		
BM (30°-60°)	2131.8	16.9	B2/2500		
BH (60°-80°)	1513.3	12.0	B3/2500		G3/2500
BVH (80°-90°)	46.5	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3
2.5°	1354.6	1353.8	1352.9	1352.9	1352.1	1352.9	1353.8	1354.6	1353.8	1354.6	1353.8
5°	1352.1	1352.1	1351.2	1351.2	1351.2	1351.2	1352.1	1352.9	1352.1	1353.8	1352.1
7.5°	1341.1	1346.2	1344.5	1346.2	1347.9	1349.5	1350.4	1352.1	1354.6	1356.3	1354.6
10°	1326.8	1329.3	1330.1	1331.8	1335.2	1339.4	1342.8	1347.0	1352.9	1354.6	1356.3
12.5°	1300.6	1304.0	1306.5	1309.9	1314.9	1321.7	1327.6	1334.3	1344.5	1351.2	1357.1
15°	1281.2	1285.4	1286.2	1290.5	1295.5	1303.1	1310.7	1320.8	1334.3	1346.2	1358.0
17.5°	1293.8	1295.5	1293.8	1293.8	1295.5	1298.9	1304.8	1313.2	1327.6	1341.9	1356.3
20°	1331.8	1331.8	1330.1	1329.3	1327.6	1324.2	1323.4	1322.5	1331.8	1342.8	1355.4
22.5°	1368.1	1368.1	1367.3	1370.6	1369.8	1369.8	1367.3	1363.0	1358.8	1357.1	1365.6
25°	1390.9	1394.3	1396.0	1401.0	1404.4	1409.5	1411.2	1410.3	1404.4	1394.3	1391.7
27.5°	1428.0	1430.6	1432.3	1438.2	1444.9	1450.8	1456.7	1464.3	1464.3	1455.0	1442.4
30°	1499.8	1496.4	1498.1	1499.8	1505.7	1514.1	1521.7	1531.8	1536.9	1533.5	1516.7
32.5°	1566.4	1569.8	1571.5	1576.6	1582.5	1595.1	1604.4	1616.2	1627.2	1628.9	1620.5
35°	1664.4	1662.7	1660.1	1677.9	1684.6	1699.0	1709.9	1726.8	1735.2	1742.8	1737.8
37.5°	1818.8	1813.7	1810.4	1815.4	1824.7	1834.0	1850.0	1862.7	1877.0	1894.8	1888.9
40°	2037.4	2047.5	2033.2	2039.9	2047.5	2026.4	2040.8	2052.6	2077.1	2077.9	2077.1
42.5°	2321.8	2329.4	2326.0	2330.3	2316.8	2310.0	2304.1	2310.0	2340.4	2336.2	2315.9
45°	2606.2	2617.2	2614.7	2616.4	2642.5	2631.6	2640.8	2642.5	2673.8	2665.3	2650.1
47.5°	2849.3	2867.9	2872.1	2887.3	2922.7	2951.4	2991.1	3020.6	3035.8	3046.0	3057.8
50°	3041.7	3055.2	3078.9	3116.9	3168.3	3218.1	3307.6	3365.8	3419.0	3456.1	3494.1
52.5°	3169.2	3184.4	3220.7	3278.1	3352.3	3443.5	3548.1	3669.7	3781.9	3847.8	3904.3
55°	3221.5	3236.7	3281.4	3356.6	3455.3	3571.8	3722.0	3893.3	4042.7	4193.8	4280.7
57.5°	3191.1	3208.0	3259.5	3343.9	3462.9	3615.7	3802.2	4012.3	4230.9	4459.6	4634.4
60°	3101.7	3116.9	3175.1	3262.9	3398.8	3570.9	3794.6	4057.9	4365.1	4704.4	5036.1
62.5°	2978.4	3001.2	3052.7	3142.2	3277.2	3465.4	3720.3	4063.0	4503.5	5050.4	5696.1
65°	2821.5	2838.3	2883.9	2954.8	3103.4	3300.0	3569.2	3988.7	4564.3	5339.9	6261.6
66°	2740.4	2756.5	2798.7	2865.3	3001.2	3190.3	3459.5	3889.1	4496.8	5338.2	6321.5
67.5°	2597.8	2605.4	2635.8	2701.6	2790.2	2959.9	3209.7	3612.3	4210.7	5112.9	6154.4
70°	2179.2	2190.2	2219.7	2253.5	2286.4	2347.1	2521.8	2787.7	3266.2	4131.3	5124.7
72.5°	1507.4	1524.2	1556.3	1618.8	1670.3	1747.1	1815.4	1904.0	2062.7	2663.6	3666.3
75°	1089.6	1095.5	1142.8	1252.5	1356.3	1509.9	1645.8	1688.8	1634.8	1625.5	2153.9
77.5°	649.9	658.3	726.7	837.2	945.3	1153.7	1432.3	1647.5	1766.5	1724.3	1630.6
80°	273.5	285.3	325.8	354.5	443.9	618.6	893.8	1231.4	1545.3	1738.6	1694.7
82.5°	87.8	102.1	120.7	146.0	172.2	230.4	357.0	534.2	844.0	1258.4	1547.0
85°	32.1	32.9	45.6	63.3	70.1	81.0	103.8	160.4	285.3	471.8	877.8
87.5°	12.7	15.2	17.7	24.5	25.3	26.2	29.5	38.0	37.1	32.1	166.3
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3
2.5°	1354.6	1356.3	1355.4	1356.3	1356.3	1354.6	1354.6	1358.0	1355.4	1357.1	1357.1
5°	1353.8	1355.4	1354.6	1356.3	1356.3	1355.4	1355.4	1360.5	1359.7	1362.2	1363.9
7.5°	1357.1	1358.0	1357.1	1357.1	1359.7	1358.8	1359.7	1361.4	1365.6	1369.8	1373.2
10°	1361.4	1363.0	1365.6	1366.4	1369.8	1369.0	1371.5	1374.0	1378.2	1382.5	1386.7
12.5°	1367.3	1372.3	1379.9	1381.6	1385.0	1387.5	1391.7	1394.3	1397.6	1404.4	1409.5
15°	1372.3	1381.6	1390.9	1394.3	1397.6	1401.0	1405.2	1407.8	1413.7	1419.6	1425.5
17.5°	1374.0	1385.0	1396.8	1401.0	1404.4	1410.3	1415.4	1420.4	1427.2	1434.8	1441.5
20°	1374.9	1390.1	1405.2	1410.3	1417.9	1426.3	1434.8	1439.0	1448.3	1457.6	1463.5
22.5°	1382.5	1401.0	1422.1	1431.4	1439.0	1454.2	1465.2	1471.9	1482.9	1490.5	1493.0
25°	1403.6	1423.0	1448.3	1462.6	1475.3	1497.2	1510.7	1523.4	1529.3	1539.4	1536.9
27.5°	1441.5	1456.7	1489.6	1509.1	1525.1	1553.8	1580.0	1591.8	1601.1	1606.1	1600.2
30°	1506.5	1512.4	1548.7	1572.4	1599.4	1644.1	1672.8	1688.0	1699.8	1700.6	1685.4
32.5°	1603.6	1594.3	1626.4	1660.1	1695.6	1749.6	1788.4	1804.5	1813.7	1814.6	1780.8
35°	1735.2	1719.2	1746.2	1779.1	1823.0	1893.9	1942.9	1961.4	1975.8	1969.0	1919.2
37.5°	1901.5	1900.7	1913.3	1955.5	2005.3	2096.5	2148.0	2158.1	2157.2	2137.0	2061.9
40°	2086.3	2071.2	2072.8	2103.2	2160.6	2280.5	2352.2	2369.1	2363.2	2333.6	2235.7
42.5°	2319.3	2312.5	2289.7	2305.8	2359.0	2505.0	2591.9	2608.8	2613.8	2564.9	2449.3
45°	2645.9	2640.0	2589.4	2592.7	2631.6	2785.2	2875.5	2903.3	2904.2	2857.8	2707.5
47.5°	3041.7	3036.7	2977.6	2960.7	2980.1	3116.9	3229.1	3235.0	3236.7	3172.6	3016.4
50°	3490.7	3476.4	3431.7	3413.9	3391.2	3542.2	3632.5	3631.7	3622.4	3551.5	3376.0
52.5°	3924.6	3956.6	3939.7	3905.1	3906.0	4014.9	4100.1	4052.8	4058.8	3991.2	3789.5
55°	4387.9	4469.8	4531.4	4544.0	4538.1	4593.8	4641.1	4556.7	4525.5	4514.5	4300.1
57.5°	4880.0	5089.3	5279.2	5358.5	5328.1	5430.2	5472.4	5384.7	5386.4	5472.4	5287.6
60°	5537.4	6065.8	6544.3	6692.8	6762.1	6930.9	6855.7	6850.7	6983.2	7094.6	6751.9
62.5°	6535.0	7410.2	8174.1	8284.6	8340.3	8378.3	8344.5	8252.5	8389.3	8402.8	7874.4
65°	7291.2	8318.4	9056.9	9195.3	9185.2	8991.9	8804.5	8620.5	8618.8	8483.8	7803.5
66°	7373.1	8404.5	9124.4	9246.8	9202.0	8904.1	8666.1	8427.2	8350.4	8147.9	7457.5
67.5°	7194.2	8254.2	8969.1	9078.8	8983.4	8530.2	8206.1	7882.9	7767.2	7485.4	6781.5
70°	6150.2	7242.3	8198.5	8357.2	8244.1	7642.3	7162.1	6806.8	6492.0	6214.3	5633.6
72.5°	4768.5	5585.5	6597.5	6762.9	6772.2	6301.2	5760.2	5419.3	5053.0	4774.5	4339.0
75°	3127.8	3745.6	4301.8	4246.1	4262.2	3891.6	3569.2	3285.7	2954.0	2734.5	2526.9
77.5°	1828.1	2049.2	1998.6	1860.2	1743.7	1370.6	980.7	673.5	587.4	612.7	691.2
80°	1589.2	1465.2	1147.0	1008.6	917.4	622.9	335.1	236.3	207.6	210.2	222.8
82.5°	1710.8	1774.9	1456.7	1199.3	1045.7	733.4	394.1	196.6	141.8	165.4	182.3
85°	1327.6	1689.7	1558.0	1316.6	1107.3	779.8	402.6	124.9	84.4	113.1	142.6
87.5°	378.1	598.4	478.5	422.8	341.0	232.9	96.2	49.8	45.6	59.1	81.9
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3	1356.3
2.5°	1358.0	1358.0	1360.5	1361.4	1362.2	1362.2	1363.9	1363.9	1364.7	1368.1	1367.3
5°	1366.4	1369.0	1372.3	1374.0	1376.5	1377.4	1379.9	1379.9	1382.5	1385.0	1384.1
7.5°	1376.5	1379.1	1381.6	1384.1	1386.7	1390.1	1389.2	1388.4	1387.5	1385.8	1384.1
10°	1390.9	1393.4	1396.0	1395.1	1393.4	1391.7	1385.0	1377.4	1374.0	1367.3	1362.2
12.5°	1414.5	1417.1	1414.5	1407.8	1398.5	1387.5	1373.2	1360.5	1352.9	1342.8	1336.9
15°	1432.3	1434.8	1429.7	1417.9	1402.7	1388.4	1369.0	1352.9	1339.4	1328.4	1320.0
17.5°	1445.8	1444.1	1433.1	1419.6	1403.6	1391.7	1374.0	1356.3	1340.3	1325.1	1313.2
20°	1465.2	1455.9	1439.8	1423.0	1406.9	1396.8	1382.5	1366.4	1349.5	1327.6	1312.4
22.5°	1490.5	1473.6	1452.5	1435.6	1420.4	1410.3	1396.0	1380.8	1364.7	1339.4	1318.3
25°	1526.8	1499.8	1475.3	1457.6	1444.1	1433.9	1416.2	1400.2	1382.5	1357.1	1330.1
27.5°	1577.4	1538.6	1513.3	1495.6	1482.0	1470.2	1447.4	1428.0	1405.2	1379.9	1347.9
30°	1643.3	1596.0	1568.1	1552.9	1538.6	1521.7	1497.2	1468.5	1439.0	1405.2	1370.6
32.5°	1725.1	1671.9	1645.8	1630.6	1612.0	1589.2	1557.2	1519.2	1475.3	1430.6	1387.5
35°	1841.6	1780.8	1752.1	1726.0	1699.0	1665.2	1617.1	1562.2	1504.0	1445.8	1392.6
37.5°	1957.2	1900.7	1865.2	1838.2	1796.0	1741.2	1674.5	1598.5	1520.9	1446.6	1382.5
40°	2120.9	2055.1	2013.8	1965.7	1897.3	1812.0	1715.0	1612.9	1516.7	1427.2	1351.2
42.5°	2321.8	2246.7	2185.1	2098.2	1991.8	1868.6	1734.4	1604.4	1487.1	1384.1	1300.6
45°	2575.9	2478.0	2375.0	2238.3	2075.4	1903.2	1733.6	1574.9	1436.5	1320.0	1237.3
47.5°	2872.1	2734.5	2561.5	2353.0	2130.2	1911.6	1706.5	1521.7	1360.5	1232.2	1136.9
50°	3176.8	2977.6	2732.0	2441.7	2158.1	1890.5	1646.6	1434.8	1260.9	1114.9	1011.9
52.5°	3552.4	3243.5	2886.4	2501.6	2146.3	1828.1	1547.0	1312.4	1126.7	984.1	865.9
55°	3999.7	3549.0	3033.3	2534.5	2093.9	1715.8	1396.0	1152.0	957.1	827.1	720.8
57.5°	4739.9	4027.5	3284.0	2583.5	1991.0	1548.7	1212.0	959.6	776.5	665.9	580.7
60°	6016.0	5009.1	3814.0	2704.1	1848.3	1310.7	978.2	752.0	600.9	512.3	452.4
62.5°	6906.4	5604.1	4099.3	2662.8	1606.1	1032.2	723.3	537.6	438.0	379.8	339.3
65°	6733.4	5369.5	3755.8	2261.9	1258.4	730.1	481.1	363.8	307.2	270.9	250.7
66°	6422.8	5110.4	3494.1	2030.6	1091.3	608.5	396.7	301.3	264.2	238.0	224.5
67.5°	5856.5	4573.6	3024.0	1629.7	817.0	449.0	301.3	234.6	214.4	200.9	191.6
70°	4848.7	3616.5	2082.1	963.0	432.1	251.5	191.6	173.0	163.7	157.8	157.0
72.5°	3717.8	2594.4	1204.4	465.9	231.3	167.1	146.9	140.1	136.7	135.0	135.0
75°	2296.5	1463.5	538.5	233.8	159.5	136.7	127.4	124.1	123.2	123.2	123.2
77.5°	807.7	509.8	241.4	171.3	140.1	123.2	115.6	113.9	115.6	115.6	115.6
80°	222.8	196.6	174.7	151.9	126.6	113.9	107.2	106.3	109.7	110.6	107.2
82.5°	173.9	163.7	149.4	135.9	115.6	103.8	100.4	102.1	103.8	101.3	96.2
85°	148.5	141.8	104.7	104.7	93.7	90.3	89.5	91.2	90.3	83.6	76.8
87.5°	84.4	74.3	56.5	61.6	65.8	67.5	56.5	60.8	59.9	53.2	49.8
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°	1356.3	1356.3	1356.3	1356.3	1356.3
2.5°	1369.0	1369.0	1370.6	1370.6	1369.8
5°	1385.8	1385.8	1388.4	1386.7	1387.5
7.5°	1382.5	1379.1	1379.1	1377.4	1376.5
10°	1358.8	1352.9	1349.5	1351.2	1348.7
12.5°	1331.8	1326.8	1323.4	1322.5	1321.7
15°	1314.9	1309.0	1306.5	1304.8	1304.8
17.5°	1305.7	1298.9	1295.5	1293.0	1292.2
20°	1301.4	1293.0	1287.9	1285.4	1283.7
22.5°	1303.1	1293.0	1286.2	1282.9	1281.2
25°	1309.9	1297.2	1288.8	1284.6	1282.0
27.5°	1321.7	1304.8	1295.5	1289.6	1286.2
30°	1336.0	1312.4	1298.9	1290.5	1287.1
32.5°	1345.3	1313.2	1296.4	1283.7	1280.3
35°	1343.6	1304.0	1282.0	1266.0	1263.5
37.5°	1326.8	1279.5	1252.5	1231.4	1228.9
40°	1290.5	1242.4	1211.1	1190.0	1185.0
42.5°	1239.8	1190.0	1156.3	1136.9	1130.1
45°	1165.6	1104.8	1073.6	1057.5	1048.2
47.5°	1060.9	1003.5	968.9	955.4	943.6
50°	941.9	878.6	853.3	838.1	824.6
52.5°	801.8	747.8	728.4	714.0	703.0
55°	665.9	627.9	605.1	589.9	590.8
57.5°	535.1	512.3	499.6	483.6	485.3
60°	421.2	401.7	401.7	391.6	388.2
62.5°	321.6	314.0	311.4	308.1	302.1
65°	243.9	243.9	244.8	244.8	241.4
66°	219.4	222.0	225.3	225.3	221.1
67.5°	189.9	193.3	196.6	198.3	198.3
70°	157.0	161.2	162.9	164.6	163.7
72.5°	137.6	140.9	140.9	141.8	140.1
75°	124.9	126.6	127.4	125.8	124.9
77.5°	115.6	116.5	115.6	114.8	113.9
80°	104.7	103.8	101.3	97.9	97.1
82.5°	90.3	86.9	85.2	80.2	79.3
85°	72.6	68.4	65.0	58.2	54.9
87.5°	48.1	46.4	43.9	32.1	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)