

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: McGRAW-EDISON

Report Number: P158538

Luminaire Tested: **VTS-E03-LED-E1-SL4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158538
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33714)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-E03-LED-E1-SL4-8030
Description: VENTUS LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

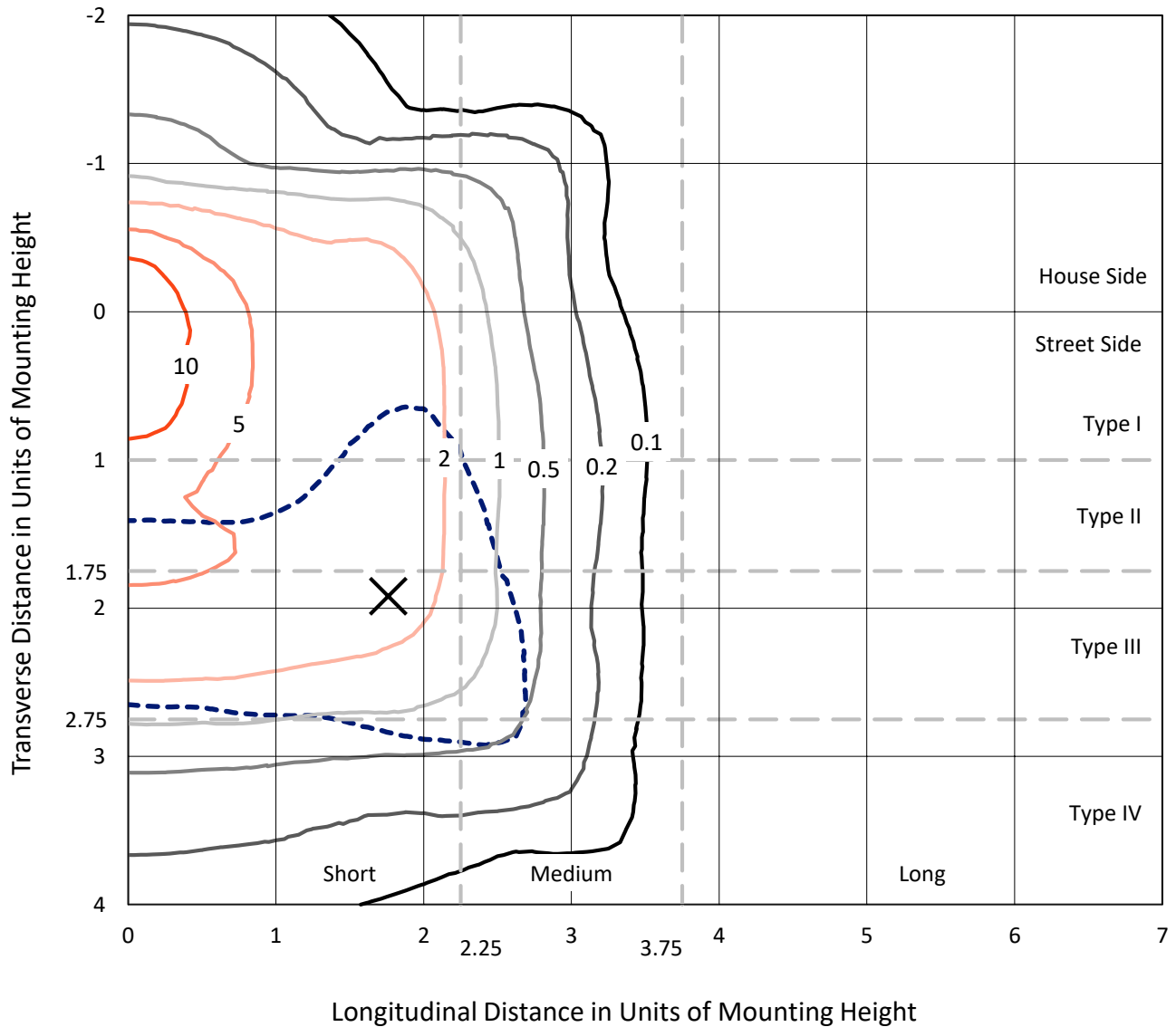
Lumens per Lamp: N/A
Luminaire Lumens: 7345.1 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

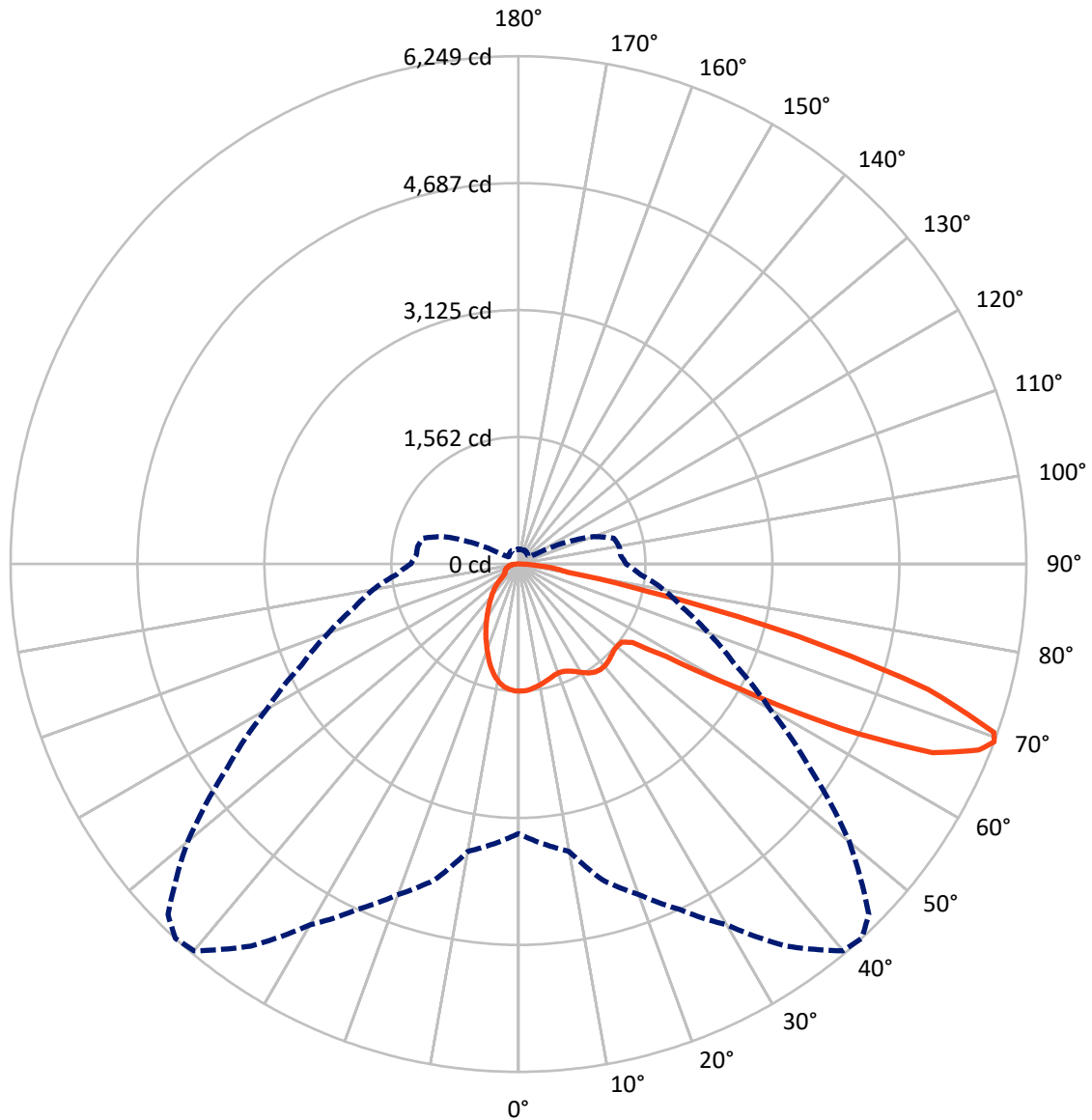
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.6 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 42.5-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1632.9	0.0	1632.9
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	5712.2	0.0	5712.2
	% Fixture	77.8	0.0	77.8
Total	Lumens	7345.1	0.0	7345.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.6	2.0
10°-20°	392.4	5.3
20°-30°	572.3	7.8
30°-40°	729.5	9.9
40°-50°	848.8	11.6
50°-60°	1291.5	17.6
60°-70°	2281.4	31.1
70°-80°	941.4	12.8
80°-90°	142.1	1.9
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°	7345.1	100.0
0°-180°	7345.1	100.0



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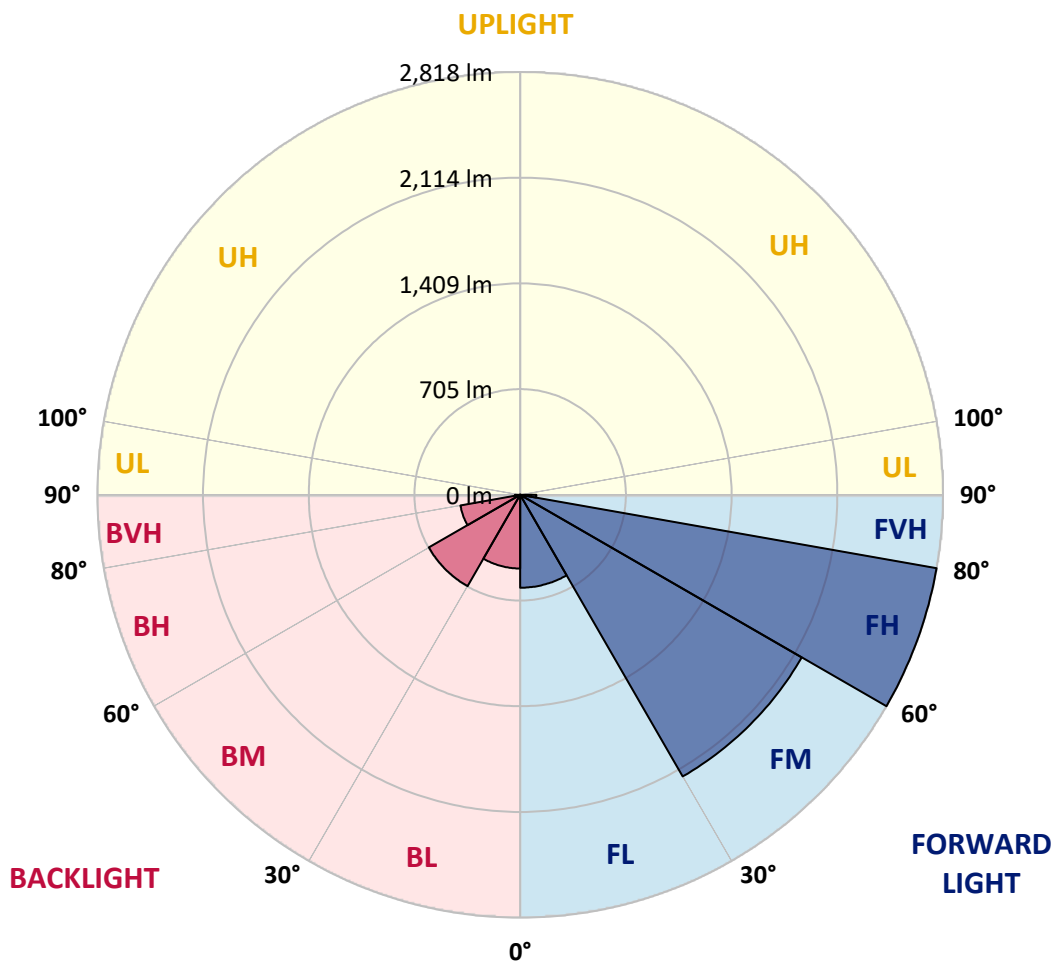
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	619.4	8.4			
FM	(30°-60°)	2167.0	29.5			
FH	(60°-80°)	2818.3	38.4			G2/5000
FVH	(80°-90°)	107.5	1.5			G2/225
BL	(0°-30°)	491.0	6.7	B1/500		
BM	(30°-60°)	702.8	9.6	B1/1000		
BH	(60°-80°)	404.5	5.5	B1/500		G1/500
BVH	(80°-90°)	34.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	42.5°	45°
0°	1564.3	1564.3	1564.3	1564.3	1564.3	1564.3	1564.3	1564.3	1564.3	1564.3	1564.3
2.5°	1559.2	1564.8	1562.7	1562.7	1564.3	1561.7	1561.7	1562.7	1560.2	1561.7	1561.2
5°	1553.6	1556.7	1555.6	1555.6	1555.6	1553.6	1552.6	1552.1	1548.6	1548.6	1547.0
7.5°	1541.5	1542.5	1544.0	1542.0	1541.5	1541.0	1537.4	1535.4	1531.3	1527.8	1528.8
10°	1525.3	1524.8	1527.3	1525.8	1523.7	1522.2	1519.2	1515.6	1511.1	1506.5	1506.0
12.5°	1507.0	1506.5	1508.5	1507.5	1506.0	1503.0	1500.4	1494.4	1487.3	1481.7	1481.2
15°	1495.4	1493.9	1495.9	1493.9	1491.3	1488.3	1483.7	1476.1	1463.5	1457.9	1453.4
17.5°	1506.5	1504.0	1505.0	1502.5	1498.9	1490.8	1480.2	1464.0	1445.8	1436.1	1429.0
20°	1545.5	1541.0	1542.0	1539.4	1531.3	1520.7	1500.4	1472.1	1441.2	1425.5	1414.4
22.5°	1601.2	1597.7	1599.2	1596.7	1588.6	1572.4	1542.0	1501.5	1457.4	1434.6	1416.9
25°	1685.8	1688.8	1689.8	1678.2	1673.6	1643.8	1601.7	1545.5	1486.8	1459.9	1435.6
27.5°	1781.0	1781.0	1785.5	1781.0	1771.9	1736.9	1677.7	1609.8	1534.4	1497.9	1468.5
30°	1873.7	1872.6	1881.3	1880.2	1865.6	1826.1	1758.7	1676.2	1590.1	1549.1	1511.6
32.5°	1971.9	1974.9	1980.5	1978.5	1959.2	1904.5	1823.5	1733.9	1643.3	1598.2	1556.2
35°	2078.2	2079.8	2081.8	2080.8	2041.8	1972.9	1871.1	1770.9	1676.7	1632.1	1588.6
37.5°	2184.6	2183.1	2180.5	2158.8	2114.2	2018.5	1900.0	1792.1	1693.4	1645.3	1600.2
40°	2279.8	2271.2	2263.1	2229.1	2160.8	2044.3	1911.1	1797.2	1691.9	1642.2	1598.2
42.5°	2331.9	2322.3	2305.6	2263.1	2180.0	2046.8	1903.5	1782.0	1676.2	1627.0	1583.5
45°	2341.6	2334.5	2318.3	2270.7	2175.5	2030.6	1880.2	1757.2	1652.9	1603.8	1562.7
47.5°	2318.8	2313.2	2297.5	2250.4	2155.7	2006.3	1853.4	1730.9	1630.1	1584.0	1544.5
50°	2283.8	2278.8	2266.6	2223.6	2133.4	1989.6	1839.7	1717.2	1622.5	1580.5	1544.0
52.5°	2340.6	2344.6	2309.2	2262.1	2157.2	2004.3	1854.9	1731.4	1636.2	1594.6	1556.7
55°	3222.2	3216.6	3003.4	2824.7	2505.1	2215.5	1999.2	1843.8	1742.0	1700.5	1665.0
57.5°	4186.9	4167.6	4080.0	3912.9	3569.6	3111.3	2694.5	2340.0	2200.3	2140.5	2144.6
60°	4501.8	4508.9	4490.2	4431.0	4307.9	4069.4	3752.4	3486.0	3223.7	3095.6	3110.3
62.5°	4676.6	4689.2	4705.4	4692.3	4652.2	4597.0	4557.0	4581.4	4544.9	4452.7	4379.3
65°	4700.9	4726.7	4780.4	4822.9	4843.7	4895.8	5018.4	5312.1	5580.5	5598.2	5469.1
67.5°	4219.8	4291.2	4407.7	4604.6	4773.3	4958.6	5254.3	5701.0	6097.0	6110.2	5989.6
69°	3317.9	3455.1	3591.4	4031.4	4327.6	4690.7	5128.3	5738.5	6213.0	6249.4	6097.5
70°	2658.6	2740.1	2857.6	3299.7	3742.3	4205.1	4839.1	5614.9	6133.5	6206.9	6039.3
72.5°	1596.2	1627.6	1668.1	1826.6	2054.4	2466.6	3307.3	4577.8	5173.8	5272.1	5058.9
75°	1032.0	1030.0	1033.6	1077.6	1090.8	1169.8	1434.6	2355.2	3375.1	3553.4	3298.1
77.5°	777.3	784.4	773.3	777.3	773.8	795.0	803.1	843.1	1332.3	1641.2	1467.5
80°	686.2	689.7	690.2	688.2	663.4	661.4	674.5	651.7	605.6	614.8	588.9
82.5°	391.4	390.9	395.5	429.9	444.1	490.7	509.9	520.6	480.6	450.7	407.6
85°	253.7	255.7	260.8	271.4	260.8	264.8	260.3	269.4	247.1	229.4	205.1
87.5°	103.8	103.8	110.4	120.0	111.9	109.9	94.2	93.2	79.0	71.4	55.7
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°	1564.3	1564.3	1564.3	1564.3	1564.3	1564.3	1564.3	1564.3	1564.3	1564.3	1564.3
2.5°	1558.2	1561.2	1559.7	1561.7	1560.2	1560.2	1558.2	1557.7	1559.2	1557.2	1557.7
5°	1544.5	1545.0	1542.5	1543.5	1540.5	1539.4	1537.9	1533.9	1536.4	1533.9	1534.9
7.5°	1524.8	1523.2	1519.7	1514.6	1511.1	1509.6	1506.5	1501.0	1502.0	1497.4	1499.9
10°	1499.4	1494.4	1488.3	1480.7	1475.6	1471.1	1464.5	1457.9	1454.4	1450.3	1449.8
12.5°	1471.1	1465.0	1456.9	1445.3	1434.1	1426.5	1416.4	1404.7	1401.2	1394.6	1391.1
15°	1440.2	1430.6	1420.9	1407.8	1395.6	1384.0	1370.3	1355.6	1346.0	1335.9	1328.3
17.5°	1412.3	1401.2	1388.5	1375.9	1362.7	1348.5	1331.3	1313.1	1298.9	1280.2	1265.0
20°	1390.6	1376.4	1363.7	1350.6	1335.9	1318.7	1297.9	1274.6	1250.8	1230.0	1212.3
22.5°	1382.0	1359.7	1344.5	1331.3	1316.6	1296.4	1271.1	1243.7	1214.8	1186.0	1162.7
25°	1389.0	1356.1	1332.3	1316.6	1304.0	1283.2	1254.8	1221.4	1188.0	1153.6	1122.2
27.5°	1409.8	1367.8	1333.3	1308.5	1293.8	1273.1	1243.2	1207.8	1168.3	1129.8	1091.3
30°	1442.2	1387.5	1344.0	1309.0	1286.2	1262.4	1231.0	1190.0	1150.0	1106.0	1063.9
32.5°	1473.6	1408.3	1356.1	1311.1	1276.1	1245.2	1210.3	1169.8	1126.7	1080.6	1037.1
35°	1495.9	1422.0	1360.7	1306.5	1260.4	1221.9	1184.5	1143.9	1101.9	1054.8	1010.3
37.5°	1506.5	1429.6	1361.2	1294.3	1239.7	1197.1	1157.1	1117.1	1077.6	1033.0	991.0
40°	1506.0	1429.0	1354.1	1278.6	1214.8	1169.8	1130.3	1091.3	1054.3	1015.3	977.3
42.5°	1494.9	1420.9	1344.0	1263.5	1197.1	1147.0	1106.0	1068.5	1037.1	1002.7	970.8
45°	1477.7	1407.3	1333.3	1256.4	1192.1	1141.9	1098.4	1061.9	1034.1	1002.7	975.3
47.5°	1464.5	1399.7	1334.9	1269.0	1207.8	1155.6	1109.5	1069.5	1045.7	1020.4	1001.1
50°	1466.5	1403.2	1339.9	1276.6	1218.9	1166.2	1121.7	1085.2	1068.0	1061.4	1056.8
52.5°	1477.2	1408.8	1355.1	1317.1	1297.4	1257.9	1231.6	1208.8	1221.4	1196.6	1167.2
55°	1612.9	1590.6	1642.7	1691.9	1754.2	1777.4	1755.2	1751.1	1771.4	1687.3	1494.4
57.5°	2173.4	2231.2	2311.7	2354.2	2405.9	2392.2	2340.6	2297.5	2246.9	2148.6	1908.1
60°	3127.0	3083.4	3047.0	2944.2	2860.1	2761.9	2652.5	2558.8	2469.2	2327.9	2067.6
62.5°	4109.4	3807.1	3554.4	3310.3	3113.8	2950.8	2792.3	2651.5	2515.8	2318.8	2038.7
65°	4959.1	4322.6	3848.1	3490.1	3202.9	2955.3	2751.7	2557.3	2384.6	2153.7	1876.7
67.5°	5340.9	4543.4	3853.2	3340.2	2942.7	2606.4	2343.1	2049.4	1855.9	1708.1	1552.1
69°	5312.6	4374.7	3578.2	2946.7	2489.9	2098.0	1815.4	1509.1	1323.7	1260.9	1257.4
70°	5177.9	4089.1	3257.1	2627.2	2104.6	1715.2	1444.2	1169.3	996.6	953.5	1030.0
72.5°	4227.4	2889.5	2041.3	1558.7	1198.6	947.5	772.8	613.2	489.7	424.4	438.5
75°	2387.7	1337.9	864.9	653.8	552.5	456.8	391.9	334.2	302.3	245.6	194.5
77.5°	868.0	574.3	456.8	395.0	280.0	192.9	161.5	141.3	128.1	128.1	122.0
80°	548.9	432.5	301.8	206.6	152.9	133.2	116.5	102.3	94.2	92.2	94.2
82.5°	342.8	264.8	169.1	129.6	108.9	97.7	85.1	74.4	67.9	66.3	69.4
85°	169.1	131.2	102.8	91.7	86.1	80.0	70.4	60.3	58.2	62.3	72.9
87.5°	50.6	45.1	37.0	38.5	40.5	39.5	31.4	27.3	25.8	33.9	53.2
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1564.3	1564.3	1564.3	1564.3	1564.3	1564.3	1564.3	1564.3	1564.3	1564.3	1564.3
2.5°	1558.7	1558.2	1559.2	1557.7	1558.7	1559.2	1558.2	1562.7	1559.7	1560.2	1562.2
5°	1535.9	1534.9	1538.9	1537.9	1539.9	1542.0	1541.0	1547.5	1545.0	1547.0	1551.1
7.5°	1497.9	1499.9	1500.4	1500.4	1504.5	1511.1	1512.6	1516.7	1516.7	1522.2	1526.3
10°	1447.3	1447.8	1450.8	1450.3	1455.4	1462.5	1463.5	1470.6	1473.1	1482.2	1487.8
12.5°	1388.5	1386.0	1385.5	1385.0	1391.6	1399.2	1400.2	1412.3	1417.4	1425.5	1434.6
15°	1322.7	1316.1	1314.1	1318.1	1316.6	1321.2	1325.7	1332.3	1339.4	1355.6	1363.7
17.5°	1258.4	1245.2	1241.7	1237.1	1232.6	1232.6	1234.6	1242.7	1257.4	1266.0	1284.2
20°	1192.6	1176.9	1164.2	1152.0	1141.4	1137.4	1137.9	1148.0	1158.6	1172.8	1190.0
22.5°	1137.4	1113.6	1091.8	1075.6	1053.8	1053.3	1050.3	1053.3	1064.9	1068.5	1078.1
25°	1089.8	1057.9	1028.5	1002.2	980.9	969.7	966.7	965.7	960.1	958.6	951.5
27.5°	1052.8	1014.3	976.3	944.4	918.1	902.9	883.7	870.0	850.2	845.2	832.5
30°	1022.4	980.9	939.4	897.8	868.0	840.6	808.2	784.4	754.0	734.3	717.1
32.5°	993.0	951.0	909.0	868.0	821.9	779.3	736.8	699.8	665.9	635.5	610.2
35°	968.7	928.7	886.2	836.6	777.8	716.5	665.4	623.4	576.8	544.9	513.0
37.5°	953.0	916.6	874.0	805.7	730.2	664.4	606.2	555.0	507.4	459.3	423.3
40°	945.9	914.0	860.9	777.3	688.7	615.8	551.5	494.7	434.0	379.8	341.3
42.5°	945.4	913.0	842.6	745.9	654.3	574.8	503.4	435.5	368.1	312.4	274.5
45°	954.6	911.5	823.4	719.6	623.9	540.8	455.8	373.2	297.8	256.2	236.0
47.5°	978.9	914.0	807.7	695.3	595.0	499.8	401.1	304.8	242.6	223.3	223.3
50°	1022.4	928.7	803.6	678.1	566.1	452.2	334.2	246.1	214.7	214.7	220.8
52.5°	1089.3	959.6	810.7	665.9	530.2	389.4	263.3	212.2	206.1	211.7	219.8
55°	1243.2	1014.3	820.4	645.1	475.5	308.9	217.2	200.5	203.1	209.6	217.2
57.5°	1525.8	1131.3	830.5	599.6	387.4	238.0	197.0	196.0	200.5	206.6	213.2
60°	1711.6	1280.2	856.3	530.7	293.2	196.5	186.9	192.9	198.5	203.6	208.6
62.5°	1711.6	1322.2	875.6	453.7	220.3	178.8	180.3	189.9	196.5	199.0	202.1
65°	1602.2	1245.2	810.2	369.7	179.3	168.6	174.2	183.8	189.9	191.9	194.5
67.5°	1400.2	1099.9	682.6	278.5	160.0	160.0	167.1	174.2	179.3	183.3	187.4
69°	1217.4	987.0	601.1	236.0	152.4	153.4	160.5	166.6	172.7	177.7	182.8
70°	1085.7	902.4	544.4	214.2	147.9	148.4	155.5	162.0	167.6	173.2	179.3
72.5°	581.3	623.4	413.7	175.7	136.2	137.7	144.3	150.4	155.5	161.0	166.6
75°	198.0	267.9	263.3	143.8	123.1	127.1	131.2	136.7	143.3	146.9	149.9
77.5°	116.0	120.0	140.3	117.0	110.9	112.9	117.5	122.0	127.6	131.2	133.7
80°	97.2	96.7	97.2	95.2	96.7	101.3	104.3	110.4	115.5	116.5	116.0
82.5°	79.0	83.0	83.6	82.5	87.1	90.6	93.2	96.7	96.2	97.2	99.3
85°	70.4	69.9	73.4	73.9	73.9	71.4	71.9	71.9	71.9	73.4	73.9
87.5°	70.4	58.7	45.6	41.0	43.0	40.5	38.5	38.0	42.0	46.1	45.1
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°	1564.3	1564.3	1564.3	1564.3	1564.3
2.5°	1563.2	1564.8	1563.7	1563.7	1564.8
5°	1552.6	1555.1	1554.1	1555.1	1555.1
7.5°	1528.3	1531.8	1534.4	1536.9	1535.4
10°	1493.4	1499.4	1503.5	1506.5	1505.0
12.5°	1441.2	1446.8	1455.4	1460.4	1456.4
15°	1369.8	1385.5	1390.6	1397.6	1393.6
17.5°	1295.4	1305.0	1311.1	1317.6	1321.7
20°	1196.1	1203.7	1211.8	1214.8	1210.3
22.5°	1076.6	1080.6	1079.1	1083.7	1074.6
25°	945.4	948.0	946.5	950.5	942.9
27.5°	821.4	820.9	821.4	816.3	811.2
30°	701.9	697.3	695.3	687.7	686.2
32.5°	595.0	579.3	571.2	560.1	557.5
35°	488.2	465.9	451.2	438.5	433.0
37.5°	392.5	365.6	348.4	337.3	335.7
40°	310.4	285.6	273.5	267.4	266.4
42.5°	253.2	242.6	239.5	239.5	239.5
45°	230.9	230.4	232.9	235.0	235.5
47.5°	226.4	229.4	232.9	236.0	237.0
50°	226.4	229.4	231.9	235.0	236.0
52.5°	225.3	227.9	228.9	230.9	231.9
55°	222.3	223.8	223.8	224.8	225.9
57.5°	217.2	218.3	216.7	217.7	220.3
60°	212.2	213.2	210.7	213.2	214.7
62.5°	206.6	207.1	206.1	208.1	208.1
65°	197.5	196.5	198.0	199.5	200.0
67.5°	188.4	185.8	187.4	187.9	188.9
69°	181.3	179.8	180.3	181.3	182.3
70°	176.2	175.2	176.2	177.7	179.3
72.5°	163.6	164.1	167.6	170.7	173.7
75°	151.9	155.5	160.0	166.6	170.1
77.5°	137.7	140.3	143.8	150.9	157.5
80°	119.0	120.5	121.0	123.6	123.1
82.5°	96.7	95.2	94.2	93.2	92.7
85°	69.4	68.9	64.8	61.8	61.8
87.5°	41.5	39.5	37.5	34.9	33.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)