

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: P227636

Luminaire Tested: **ISC-AF-800-LED-E1-T2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29758)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISC-AF-800-LED-E1-T2-8030
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3909 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 43.5
Input Voltage (V): 120
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

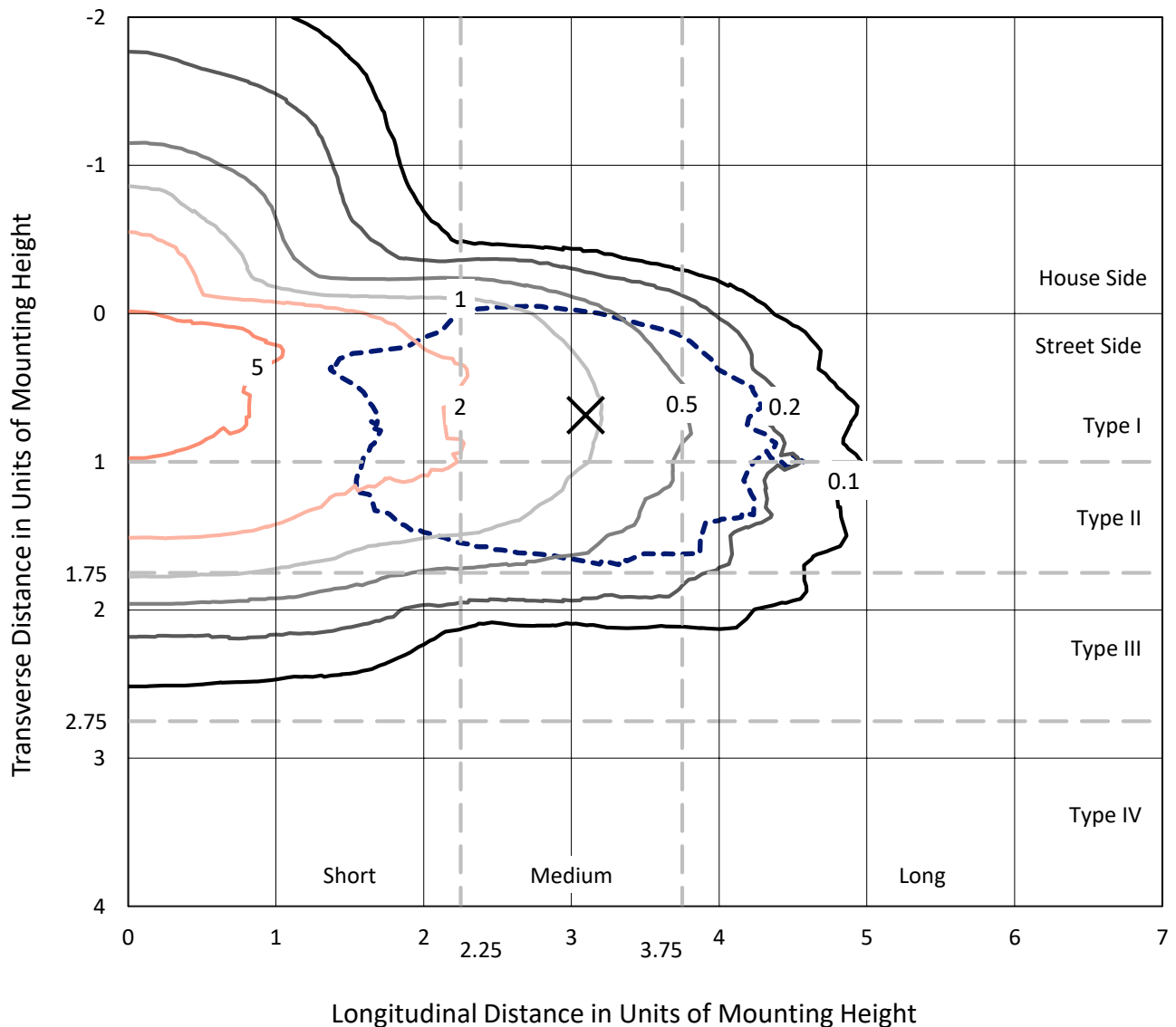


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Iso-Footcandle Lines of Horizontal Illumination

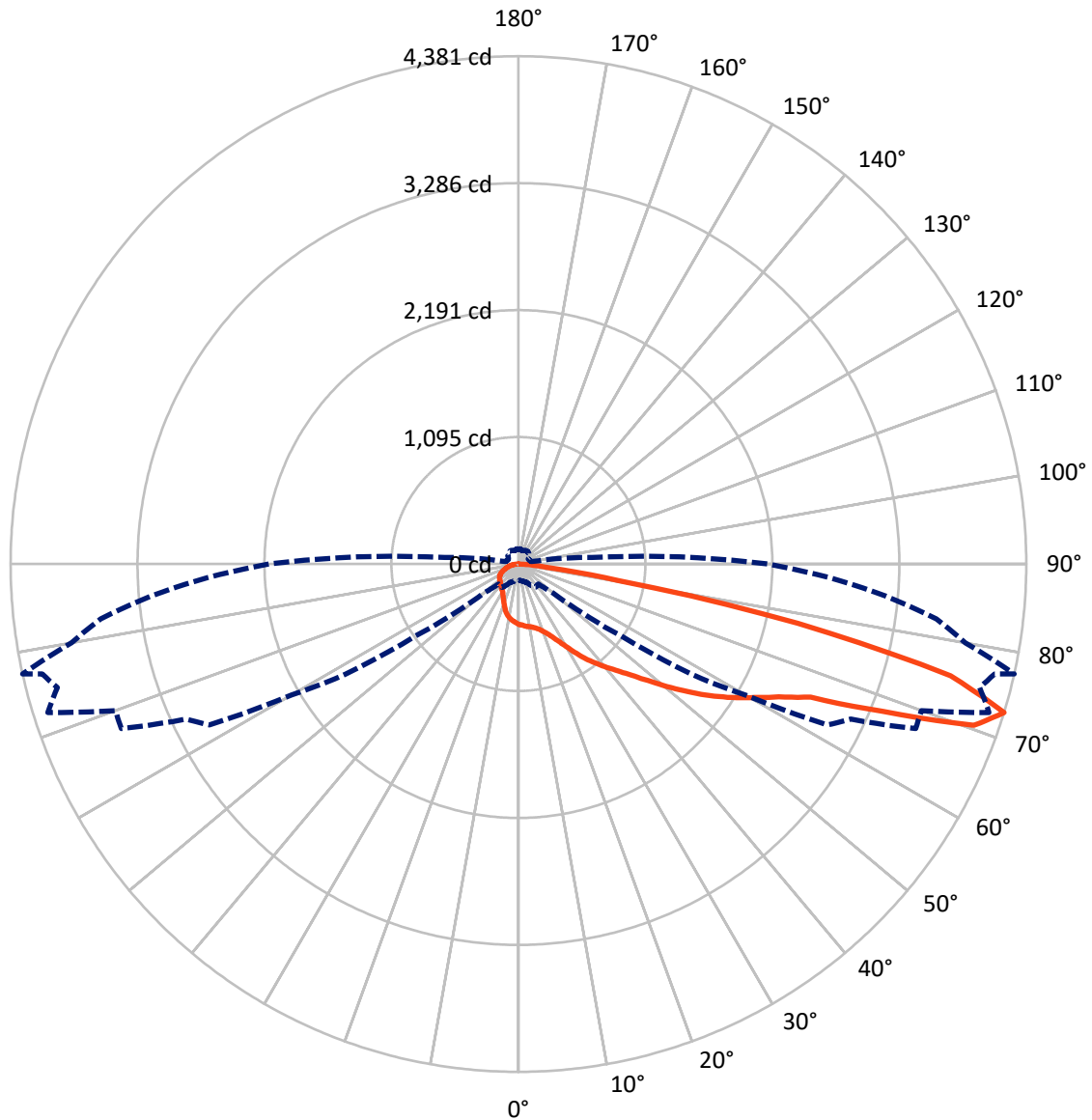
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	647.7	0.0	647.7
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	3261.3	0.0	3261.3
	% Fixture	83.4	0.0	83.4
Total	Lumens	3909.0	0.0	3909.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	1.2
10°-20°	148.6	3.8
20°-30°	263.9	6.8
30°-40°	418.1	10.7
40°-50°	627.2	16.0
50°-60°	812.8	20.8
60°-70°	923.5	23.6
70°-80°	612.8	15.7
80°-90°	53.6	1.4
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°	3909.0	100.0
0°-180°	3909.0	100.0



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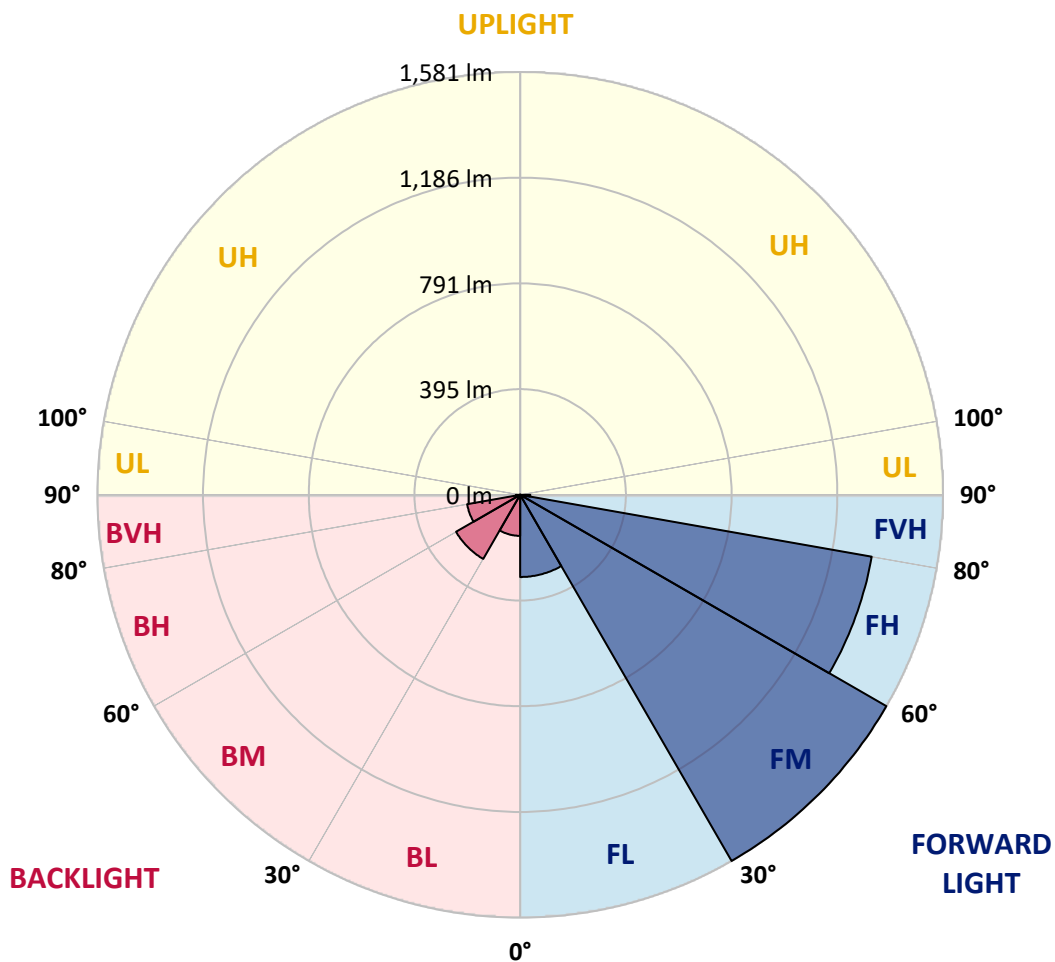
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	307.5	7.9			
FM (30°-60°)	1581.4	40.5			
FH (60°-80°)	1334.9	34.1			G1/1800
FVH (80°-90°)	37.5	1.0			G1/100
BL (0°-30°)	153.5	3.9	B1/500		
BM (30°-60°)	276.7	7.1	B1/1000		
BH (60°-80°)	201.4	5.2	B1/500		G1/500
BVH (80°-90°)	16.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9
2.5°	565.4	562.8	561.5	558.8	556.2	554.9	550.9	548.3	552.2	550.9	550.9
5°	607.6	605.0	601.0	597.0	591.8	587.8	583.9	579.9	582.5	579.9	577.3
7.5°	641.9	639.2	633.9	630.0	624.7	619.5	614.2	612.9	610.2	606.3	605.0
10°	661.6	659.0	656.4	653.7	645.8	641.9	635.3	631.3	632.6	627.4	627.4
12.5°	680.1	677.4	676.1	676.1	669.5	665.6	662.9	659.0	661.6	653.7	651.1
15°	697.2	694.6	690.6	694.6	693.3	691.9	690.6	689.3	693.3	685.3	686.7
17.5°	724.9	723.6	715.7	710.4	711.7	715.7	718.3	717.0	717.0	713.0	714.3
20°	768.4	768.4	757.8	748.6	734.1	734.1	735.4	734.1	736.8	739.4	743.3
22.5°	801.3	798.7	794.7	786.8	771.0	757.8	757.8	752.6	756.5	757.8	765.7
25°	843.5	840.9	831.6	831.6	815.8	798.7	796.1	788.2	797.4	780.2	793.4
27.5°	894.9	892.3	880.4	875.1	867.2	846.1	840.9	842.2	851.4	826.4	839.6
30°	959.5	956.9	942.4	927.9	914.7	892.3	889.6	888.3	909.4	880.4	897.5
32.5°	1041.2	1041.2	1025.4	1005.6	979.3	948.9	938.4	939.7	968.7	937.1	966.1
35°	1165.1	1149.3	1120.3	1090.0	1062.3	1026.7	1012.2	1009.6	1035.9	1004.3	1037.3
37.5°	1244.2	1233.6	1207.3	1184.9	1154.6	1120.3	1109.7	1113.7	1136.1	1090.0	1137.4
40°	1315.3	1314.0	1296.9	1282.4	1252.1	1217.8	1231.0	1283.7	1343.0	1253.4	1254.7
42.5°	1362.8	1365.4	1364.1	1365.4	1348.3	1312.7	1335.1	1408.9	1510.4	1457.7	1408.9
45°	1370.7	1379.9	1383.9	1410.2	1427.4	1406.3	1418.1	1495.9	1698.9	1780.6	1560.5
47.5°	1390.5	1399.7	1391.8	1423.4	1502.5	1501.2	1548.6	1577.6	1605.3	1618.5	1784.5
50°	1416.8	1434.0	1426.1	1452.4	1517.0	1553.9	1594.8	1631.7	1609.3	1526.2	1571.0
52.5°	1418.1	1437.9	1481.4	1507.8	1571.0	1563.1	1590.8	1571.0	1605.3	1519.6	1563.1
55°	1302.2	1306.1	1432.6	1565.8	1676.5	1654.1	1636.9	1592.1	1635.6	1528.9	1584.2
57.5°	1119.0	1132.1	1263.9	1488.0	1725.2	1745.0	1739.7	1735.8	1770.0	1627.7	1688.3
60°	917.3	933.1	1058.3	1321.9	1623.8	1675.2	1746.3	1789.8	1878.1	1821.4	1921.6
62.5°	572.0	583.9	722.3	1051.7	1432.6	1534.1	1638.2	1689.7	1817.5	1843.9	2013.9
65°	272.8	276.8	330.8	572.0	1041.2	1232.3	1386.5	1495.9	1652.7	1771.4	2000.7
67.5°	212.2	213.5	233.3	304.5	533.8	661.6	836.9	981.9	1149.3	1473.5	1758.2
70°	170.0	170.0	185.8	224.1	330.8	347.9	392.8	441.5	512.7	773.7	1004.3
72.5°	142.3	142.3	152.9	176.6	245.1	249.1	246.5	242.5	242.5	305.8	390.1
75°	119.9	118.6	125.2	141.0	181.9	187.2	184.5	175.3	164.7	164.7	185.8
77.5°	97.5	97.5	102.8	110.7	131.8	134.4	134.4	126.5	117.3	118.6	127.8
80°	76.4	76.4	80.4	85.7	92.3	90.9	90.9	83.0	76.4	75.1	80.4
82.5°	55.4	56.7	65.9	61.9	59.3	55.4	55.4	54.0	48.8	44.8	47.4
85°	17.1	18.5	31.6	36.9	30.3	25.0	23.7	19.8	21.1	17.1	19.8
87.5°	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	1.3	0.0	1.3
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):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77°
0°	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9
2.5°	544.3	547.0	541.7	541.7	535.1	539.1	532.5	533.8	527.2	529.8	529.8
5°	570.7	572.0	565.4	562.8	556.2	556.2	549.6	549.6	540.4	543.0	540.4
7.5°	595.7	595.7	589.1	583.9	577.3	574.6	566.7	562.8	554.9	553.6	549.6
10°	616.8	616.8	607.6	602.3	594.4	590.5	579.9	576.0	566.7	560.1	556.2
12.5°	643.2	640.5	630.0	624.7	611.5	610.2	594.4	591.8	578.6	574.6	568.0
15°	674.8	677.4	660.3	659.0	640.5	639.2	618.1	616.8	597.0	595.7	586.5
17.5°	709.1	714.3	699.8	698.5	676.1	676.1	651.1	649.8	623.4	622.1	610.2
20°	739.4	746.0	736.8	739.4	719.6	720.9	693.3	693.3	656.4	653.7	643.2
22.5°	767.1	780.2	772.3	786.8	767.1	776.3	739.4	746.0	702.5	697.2	681.4
25°	794.7	811.9	809.2	833.0	818.5	834.3	796.1	809.2	752.6	756.5	735.4
27.5°	822.4	844.8	842.2	876.5	871.2	902.8	869.9	884.4	822.4	826.4	802.7
30°	868.5	893.6	884.4	920.0	920.0	971.4	946.3	968.7	900.2	908.1	880.4
32.5°	930.5	959.5	931.8	977.9	975.3	1042.5	1022.8	1061.0	993.8	1004.3	970.0
35°	997.7	1043.8	999.0	1050.4	1042.5	1112.4	1099.2	1161.1	1090.0	1101.8	1067.6
37.5°	1086.0	1141.4	1082.1	1126.9	1091.3	1171.7	1163.8	1248.1	1175.6	1206.0	1165.1
40°	1190.1	1233.6	1159.8	1198.0	1138.7	1221.8	1208.6	1324.6	1257.4	1306.1	1269.2
42.5°	1286.3	1316.7	1219.1	1266.6	1195.4	1279.8	1256.0	1395.7	1337.8	1412.9	1372.0
45°	1373.3	1407.6	1278.4	1331.2	1252.1	1344.3	1303.5	1464.3	1424.7	1538.1	1497.2
47.5°	1497.2	1447.1	1332.5	1401.0	1312.7	1414.2	1360.2	1544.7	1530.2	1691.0	1643.5
50°	1456.4	1489.3	1377.3	1448.5	1368.1	1492.0	1432.6	1640.9	1644.8	1857.0	1829.4
52.5°	1460.3	1515.7	1411.6	1510.4	1432.6	1600.0	1538.1	1756.9	1775.3	2017.8	1979.6
55°	1484.0	1565.8	1463.0	1596.1	1523.6	1720.0	1676.5	1882.1	1913.7	2169.4	2147.0
57.5°	1543.4	1656.7	1551.3	1725.2	1650.1	1857.0	1817.5	2011.2	2054.7	2321.0	2314.4
60°	1771.4	1905.8	1721.3	1913.7	1813.5	2012.6	1959.8	2147.0	2190.5	2465.9	2483.1
62.5°	2025.7	2259.0	2149.6	2350.0	2085.0	2286.7	2131.2	2314.4	2317.0	2621.5	2675.5
65°	2091.6	2450.1	2543.7	2916.7	2778.3	2985.2	2570.1	2692.6	2534.5	2904.8	2982.6
67.5°	2066.6	2505.5	2765.1	3185.6	3342.4	3703.5	3633.7	3591.5	3225.1	3491.3	3584.9
70°	1517.0	1982.2	2617.5	3044.5	3496.6	3733.8	4109.5	4147.7	4131.9	4095.0	4156.9
72.5°	690.6	1083.4	1771.4	2259.0	3005.0	3164.5	3708.8	3698.3	4257.1	4118.7	4216.2
75°	271.5	417.8	843.5	1261.3	2078.5	2274.8	2891.6	2738.8	3436.0	3233.0	3441.2
77.5°	148.9	187.2	316.3	541.7	1134.8	1238.9	1770.0	1514.4	2131.2	1779.3	1849.1
80°	89.6	112.0	145.0	205.6	482.4	510.1	755.2	608.9	871.2	661.6	641.9
82.5°	48.8	60.6	72.5	101.5	179.2	199.0	261.0	234.6	279.4	238.6	233.3
85°	19.8	26.4	27.7	40.9	59.3	68.5	83.0	89.6	109.4	100.2	97.5
87.5°	0.0	1.3	0.0	2.6	0.0	2.6	0.0	4.0	4.0	6.6	7.9
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):

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9
2.5°	525.9	529.8	524.6	524.6	518.0	521.9	518.0	514.0	507.4	508.7	499.5
5°	535.1	537.7	531.1	528.5	524.6	523.2	515.3	507.4	498.2	498.2	487.7
7.5°	544.3	544.3	535.1	535.1	525.9	523.2	511.4	498.2	485.0	483.7	467.9
10°	549.6	548.3	536.4	536.4	523.2	521.9	507.4	487.7	469.2	463.9	441.5
12.5°	560.1	558.8	544.3	541.7	524.6	524.6	503.5	477.1	450.7	441.5	409.9
15°	573.3	574.6	557.5	553.6	533.8	532.5	503.5	463.9	428.3	413.8	375.6
17.5°	594.4	595.7	572.0	568.0	544.3	540.4	504.8	448.1	398.0	382.2	347.9
20°	622.1	618.1	586.5	585.2	553.6	549.6	503.5	424.4	367.7	351.9	321.6
22.5°	656.4	652.4	611.5	607.6	570.7	564.1	502.2	399.3	340.0	322.9	303.1
25°	703.8	698.5	648.4	643.2	597.0	586.5	500.8	373.0	316.3	303.1	291.3
27.5°	763.1	752.6	691.9	686.7	624.7	611.5	495.6	342.7	292.6	283.4	278.1
30°	834.3	825.1	747.3	739.4	661.6	644.5	490.3	315.0	275.5	271.5	267.6
32.5°	918.6	909.4	814.5	805.3	709.1	684.0	481.1	292.6	264.9	264.9	259.6
35°	1006.9	999.0	887.0	880.4	761.8	728.8	469.2	272.8	255.7	255.7	250.4
37.5°	1086.0	1092.6	966.1	960.8	814.5	773.7	456.0	259.6	247.8	245.1	239.9
40°	1171.7	1187.5	1039.9	1043.8	869.9	821.1	440.2	249.1	238.6	235.9	234.6
42.5°	1258.7	1289.0	1117.6	1132.1	925.2	869.9	428.3	242.5	234.6	229.3	228.0
45°	1366.7	1410.2	1213.9	1241.5	989.8	929.2	424.4	234.6	222.7	216.1	212.2
47.5°	1501.2	1559.2	1332.5	1364.1	1075.5	1000.3	432.3	232.0	214.8	206.9	199.0
50°	1660.7	1716.0	1473.5	1486.7	1171.7	1078.1	449.4	235.9	212.2	200.3	188.5
52.5°	1829.4	1871.5	1622.4	1607.9	1271.9	1154.6	469.2	237.2	205.6	193.7	179.2
55°	2003.3	2027.1	1760.8	1722.6	1362.8	1231.0	495.6	235.9	200.3	187.2	168.7
57.5°	2173.3	2181.3	1883.4	1846.5	1452.4	1321.9	528.5	232.0	192.4	179.2	159.5
60°	2339.4	2352.6	2019.1	1984.9	1549.9	1439.2	576.0	225.4	181.9	172.7	151.6
62.5°	2521.3	2564.8	2181.3	2186.5	1684.4	1622.4	665.6	217.5	171.3	160.8	139.7
65°	2769.1	2935.1	2448.8	2572.7	1942.7	1967.7	836.9	195.1	156.8	143.7	129.2
67.5°	3389.8	3571.7	3098.6	3148.7	2547.7	2398.7	945.0	166.1	138.4	129.2	119.9
70°	4167.5	4037.0	3700.9	3397.8	2900.9	2465.9	831.6	139.7	122.6	117.3	112.0
72.5°	4381.0	3913.1	3636.3	3181.6	2682.1	2150.9	636.6	119.9	109.4	106.8	102.8
75°	3849.8	3172.4	3188.2	2527.9	2223.4	1639.6	434.9	102.8	94.9	93.6	92.3
77.5°	2462.0	1630.3	1984.9	1249.4	1283.7	759.2	212.2	85.7	81.7	81.7	79.1
80°	875.1	543.0	614.2	394.1	358.5	241.2	114.7	68.5	65.9	67.2	65.9
82.5°	262.3	208.2	204.3	159.5	123.9	101.5	63.3	52.7	50.1	51.4	48.8
85°	105.4	81.7	68.5	52.7	43.5	39.5	34.3	35.6	31.6	34.3	30.3
87.5°	6.6	5.3	4.0	5.3	0.0	2.6	6.6	5.3	1.3	5.3	4.0
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):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°
0°	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9
2.5°	506.1	496.9	500.8	496.9	499.5	491.6	494.2	487.7	487.7	486.3	479.7
5°	489.0	479.7	478.4	469.2	470.5	460.0	458.7	446.8	446.8	436.3	416.5
7.5°	465.2	450.7	449.4	431.0	429.7	415.2	409.9	396.7	395.4	383.5	371.7
10°	434.9	412.5	408.6	384.9	386.2	370.4	369.0	359.8	359.8	354.5	354.5
12.5°	400.7	375.6	373.0	354.5	355.9	345.3	346.6	341.4	344.0	346.6	355.9
15°	369.0	349.3	346.6	334.8	336.1	333.4	337.4	337.4	341.4	347.9	363.8
17.5°	342.7	325.5	326.9	321.6	326.9	325.5	333.4	332.1	340.0	347.9	367.7
20°	319.0	309.7	313.7	312.4	319.0	319.0	325.5	326.9	333.4	344.0	366.4
22.5°	303.1	300.5	304.5	304.5	309.7	311.0	317.6	321.6	325.5	336.1	355.9
25°	293.9	292.6	296.5	297.9	301.8	303.1	309.7	309.7	316.3	322.9	333.4
27.5°	280.7	278.1	283.4	283.4	288.6	287.3	295.2	292.6	299.2	301.8	304.5
30°	271.5	267.6	271.5	270.2	274.1	270.2	274.1	270.2	274.1	274.1	270.2
32.5°	262.3	258.3	259.6	254.4	258.3	253.1	254.4	249.1	251.7	249.1	250.4
35°	253.1	247.8	247.8	241.2	241.2	234.6	237.2	232.0	237.2	241.2	239.9
37.5°	239.9	235.9	235.9	230.6	233.3	230.6	235.9	233.3	234.6	229.3	220.1
40°	232.0	234.6	233.3	237.2	234.6	230.6	226.7	218.8	217.5	214.8	209.6
42.5°	220.1	222.7	216.1	221.4	217.5	218.8	216.1	212.2	209.6	206.9	201.7
45°	203.0	203.0	197.7	205.6	201.7	209.6	206.9	206.9	204.3	200.3	196.4
47.5°	188.5	189.8	184.5	191.1	188.5	199.0	197.7	201.7	201.7	199.0	188.5
50°	179.2	176.6	172.7	179.2	177.9	187.2	188.5	196.4	195.1	196.4	187.2
52.5°	171.3	166.1	162.1	166.1	166.1	174.0	176.6	185.8	187.2	189.8	184.5
55°	162.1	155.5	152.9	155.5	155.5	163.4	167.4	174.0	177.9	185.8	183.2
57.5°	154.2	145.0	142.3	145.0	146.3	154.2	158.2	164.7	170.0	180.6	179.2
60°	145.0	137.1	134.4	138.4	139.7	147.6	151.6	158.2	162.1	174.0	174.0
62.5°	134.4	127.8	127.8	129.2	131.8	139.7	142.3	151.6	152.9	167.4	168.7
65°	125.2	121.3	121.3	122.6	125.2	131.8	133.1	142.3	143.7	158.2	162.1
67.5°	117.3	114.7	114.7	116.0	117.3	122.6	123.9	133.1	135.8	148.9	155.5
70°	109.4	106.8	105.4	105.4	109.4	113.3	116.0	125.2	126.5	138.4	146.3
72.5°	100.2	97.5	97.5	96.2	100.2	102.8	108.1	113.3	116.0	127.8	133.1
75°	90.9	88.3	88.3	87.0	89.6	94.9	96.2	101.5	102.8	113.3	118.6
77.5°	79.1	76.4	76.4	76.4	79.1	80.4	81.7	87.0	89.6	98.8	104.1
80°	65.9	63.3	64.6	63.3	67.2	61.9	65.9	71.2	73.8	79.1	76.4
82.5°	50.1	46.1	47.4	47.4	48.8	44.8	47.4	50.1	52.7	56.7	55.4
85°	31.6	27.7	30.3	27.7	30.3	26.4	29.0	29.0	31.6	29.0	27.7
87.5°	6.6	2.6	6.6	2.6	7.9	0.0	4.0	0.0	2.6	1.3	0.0
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):

	155°	165°	175°	180°
0°	521.9	521.9	521.9	521.9
2.5°	473.2	467.9	465.2	463.9
5°	405.9	396.7	394.1	391.4
7.5°	365.1	362.4	362.4	361.1
10°	357.2	361.1	362.4	362.4
12.5°	366.4	373.0	378.3	378.3
15°	378.3	390.1	396.7	396.7
17.5°	387.5	403.3	409.9	411.2
20°	388.8	404.6	413.8	415.2
22.5°	376.9	387.5	394.1	394.1
25°	346.6	351.9	355.9	355.9
27.5°	308.4	307.1	305.8	311.0
30°	268.9	266.2	261.0	266.2
32.5°	254.4	245.1	232.0	235.9
35°	232.0	229.3	222.7	224.1
37.5°	224.1	246.5	245.1	246.5
40°	214.8	242.5	241.2	243.8
42.5°	206.9	222.7	206.9	208.2
45°	192.4	199.0	185.8	185.8
47.5°	185.8	183.2	177.9	176.6
50°	180.6	180.6	177.9	175.3
52.5°	176.6	174.0	183.2	181.9
55°	171.3	168.7	175.3	175.3
57.5°	167.4	160.8	171.3	171.3
60°	163.4	156.8	167.4	167.4
62.5°	160.8	152.9	166.1	164.7
65°	156.8	148.9	166.1	163.4
67.5°	151.6	141.0	163.4	159.5
70°	141.0	131.8	154.2	143.7
72.5°	130.5	119.9	131.8	122.6
75°	114.7	105.4	106.8	105.4
77.5°	96.2	85.7	83.0	84.4
80°	72.5	65.9	63.3	63.3
82.5°	52.7	44.8	46.1	38.2
85°	23.7	17.1	13.2	13.2
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)