

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: P228370

Luminaire Tested: **ISS-AF-1000-LED-E1-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29763)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-1000-LED-E1-SL4
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV W/SPILL CONTROL
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5230.4 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

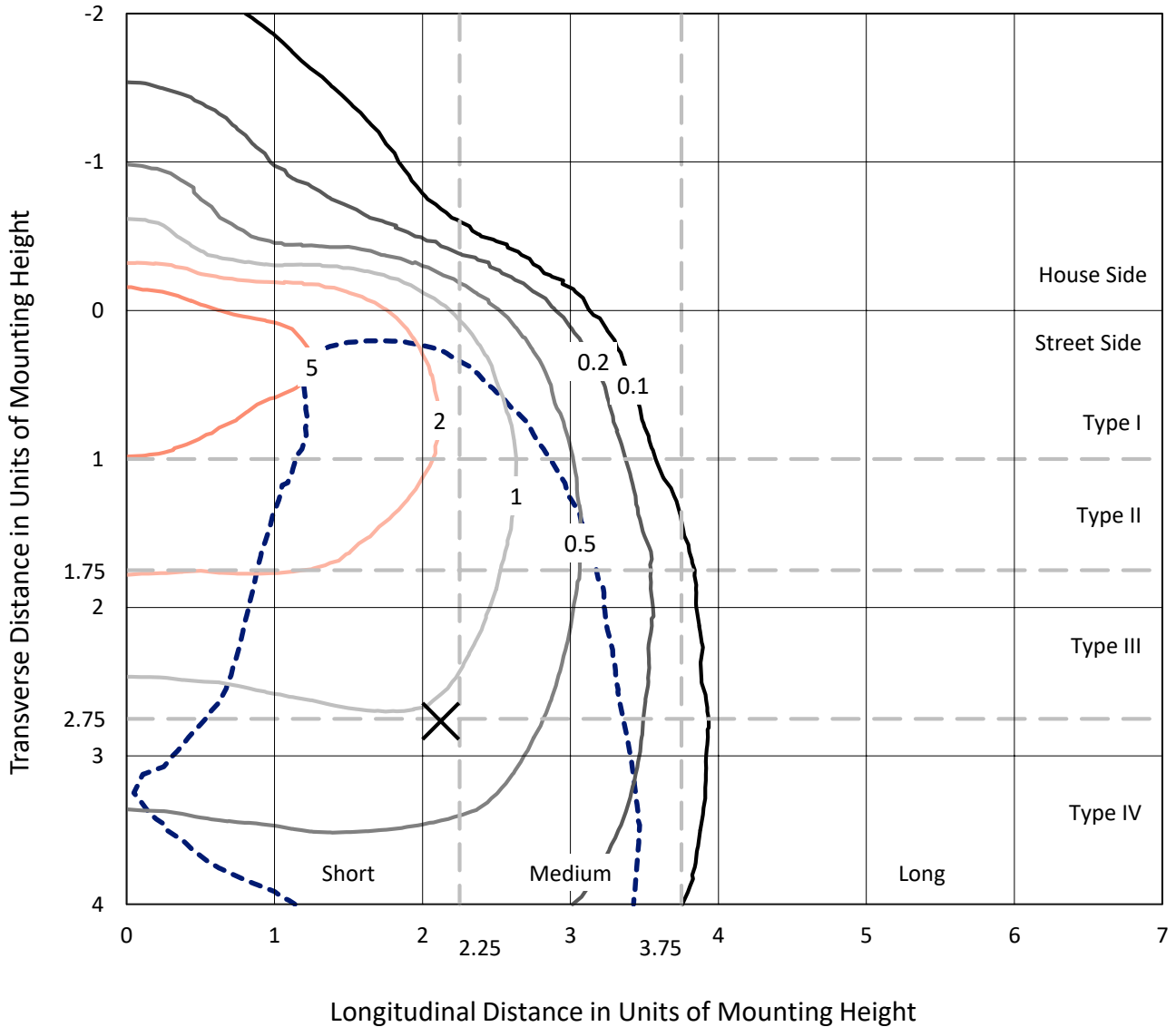
Input Watts (W): 54.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

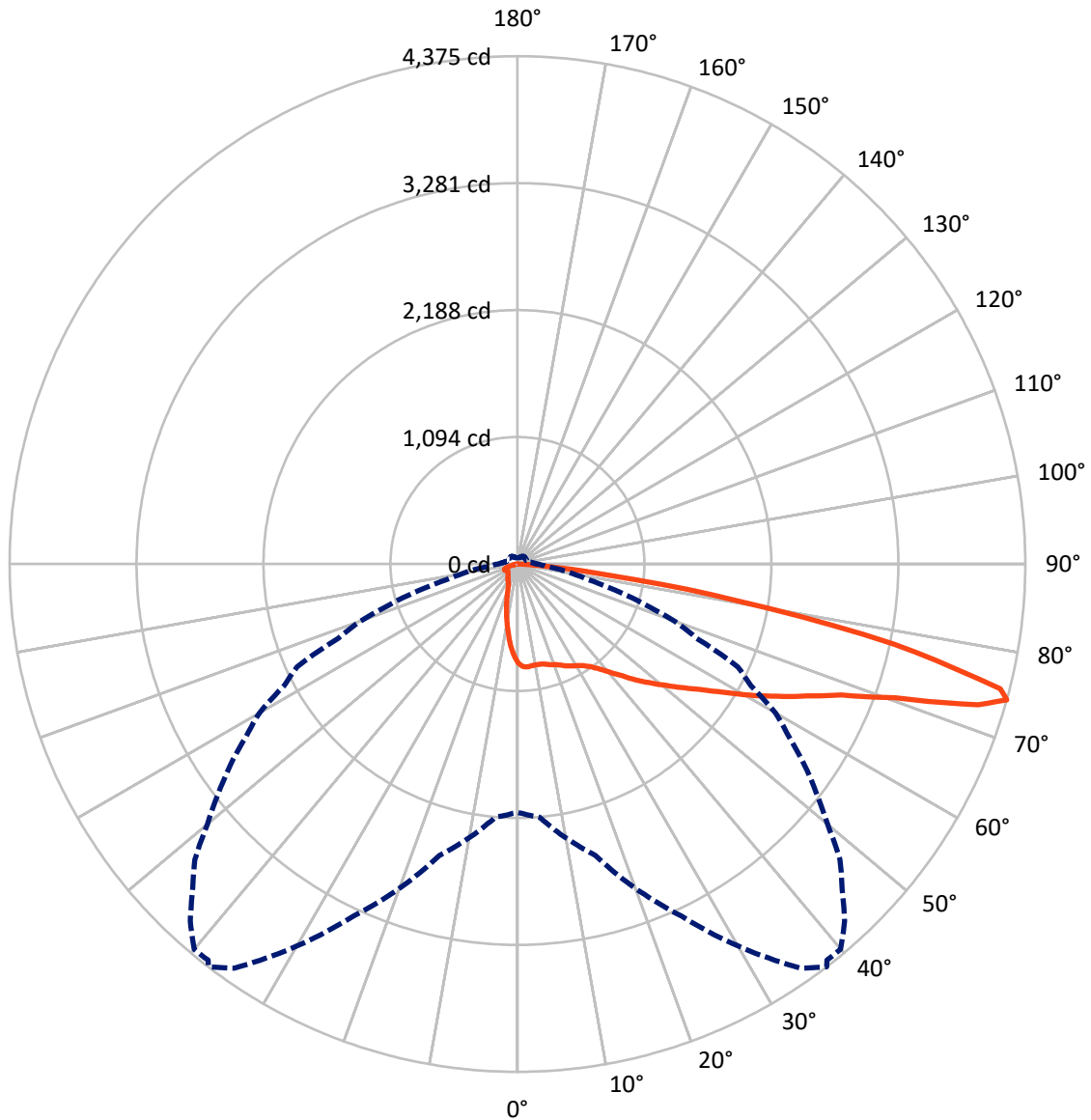


Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 37.5-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	620.2	0.0	620.2
	% Fixture	11.9	0.0	11.9
Street Side	Lumens	4610.2	0.0	4610.2
	% Fixture	88.1	0.0	88.1
Total	Lumens	5230.4	0.0	5230.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.3	1.4
10°-20°	189.3	3.6
20°-30°	293.3	5.6
30°-40°	435.1	8.3
40°-50°	669.3	12.8
50°-60°	989.4	18.9
60°-70°	1318.8	25.2
70°-80°	1138.4	21.8
80°-90°	122.4	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°	5230.4	100.0
0°-180°	5230.4	100.0



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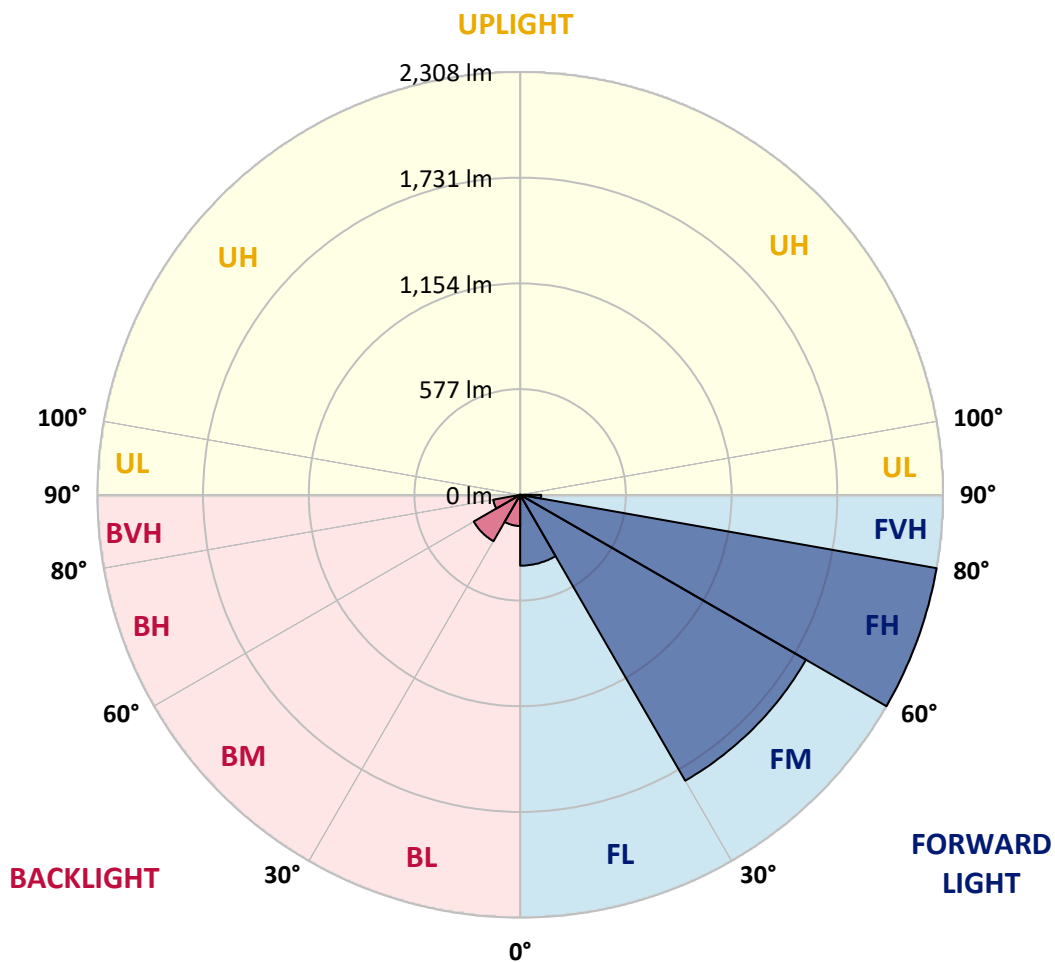
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	386.7	7.4			
FM (30°-60°)	1801.5	34.4			
FH (60°-80°)	2307.6	44.1			G2/5000
FVH (80°-90°)	114.4	2.2			G2/225
BL (0°-30°)	170.3	3.3	B1/500		
BM (30°-60°)	292.3	5.6	B1/1000		
BH (60°-80°)	149.5	2.9	B1/500		G1/500
BVH (80°-90°)	8.1	0.2			G0/10
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°	15°	25°	35°	37.5°	38°	40°	42.5°	45°	47.5°
0°	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6
2.5°	902.3	900.4	896.5	894.6	890.6	884.8	890.6	882.8	878.9	882.8	875.0
5°	918.0	916.1	912.1	904.3	900.4	890.6	896.5	886.7	884.8	888.6	878.9
7.5°	919.9	916.1	910.1	900.4	896.5	884.8	888.6	877.0	873.1	877.0	871.0
10°	914.0	912.1	906.2	890.6	886.7	882.8	880.9	873.1	871.0	869.1	867.2
12.5°	904.3	904.3	900.4	894.6	892.5	884.8	886.7	878.9	880.9	877.0	873.1
15°	900.4	898.5	902.3	906.2	906.2	894.6	902.3	896.5	892.5	894.6	888.6
17.5°	896.5	898.5	912.1	919.9	923.8	912.1	923.8	912.1	904.3	914.0	904.3
20°	894.6	900.4	923.8	941.4	943.4	923.8	943.4	923.8	923.8	935.6	918.0
22.5°	904.3	914.0	947.3	966.8	970.7	945.3	968.7	943.4	943.4	953.1	935.6
25°	935.6	945.3	982.4	1003.9	1000.0	972.6	994.1	968.7	966.8	978.6	955.0
27.5°	976.5	990.2	1025.4	1044.9	1031.2	994.1	1025.4	988.3	988.3	1005.9	974.6
30°	1035.1	1044.9	1076.1	1078.1	1060.5	1015.6	1050.8	1009.8	1003.9	1035.1	996.0
32.5°	1099.6	1107.4	1130.9	1117.2	1091.8	1044.9	1086.0	1037.1	1035.1	1068.4	1023.5
35°	1168.0	1175.8	1183.6	1160.1	1136.7	1086.0	1130.9	1082.0	1080.0	1117.2	1074.2
37.5°	1238.3	1238.3	1238.3	1211.0	1195.3	1146.5	1187.4	1148.5	1144.5	1183.6	1142.5
40°	1295.0	1298.8	1293.0	1267.5	1259.8	1224.6	1259.8	1224.6	1230.5	1265.6	1232.5
42.5°	1341.8	1345.7	1347.6	1326.2	1333.9	1314.5	1341.8	1316.4	1318.4	1357.5	1337.9
45°	1388.7	1386.7	1402.4	1396.4	1420.0	1421.9	1437.5	1427.7	1431.6	1461.0	1455.0
47.5°	1437.5	1427.7	1445.3	1470.7	1513.7	1527.4	1537.1	1541.0	1556.6	1570.3	1583.9
50°	1484.4	1474.6	1486.3	1542.9	1611.4	1640.6	1642.6	1662.1	1679.7	1699.2	1726.5
52.5°	1533.2	1525.4	1537.1	1617.2	1726.5	1767.6	1761.7	1794.9	1820.3	1841.8	1886.7
55°	1583.9	1576.2	1587.9	1707.0	1849.6	1906.3	1900.3	1947.3	1996.1	2003.9	2054.7
57.5°	1632.8	1623.0	1656.3	1812.5	1996.1	2082.0	2054.7	2126.9	2173.8	2169.9	2240.3
60°	1685.5	1677.7	1730.4	1941.4	2179.7	2291.0	2250.0	2345.7	2378.9	2365.3	2431.7
62.5°	1736.4	1734.4	1822.3	2091.8	2402.3	2509.7	2472.7	2556.7	2580.1	2562.5	2595.6
65°	1783.2	1794.9	1921.8	2242.2	2617.2	2740.2	2689.4	2773.4	2800.7	2787.1	2843.7
67.5°	1861.4	1875.0	2044.9	2433.6	2882.8	3009.7	2966.8	3054.6	3095.7	3091.8	3154.3
70°	1976.5	2001.9	2226.6	2705.1	3287.0	3449.2	3425.8	3533.2	3632.8	3624.9	3687.4
72.5°	2177.8	2218.8	2525.4	3127.0	3951.1	4148.4	4121.1	4181.6	4164.0	4021.4	3906.2
74°	2138.7	2189.4	2599.6	3347.6	4250.0	4375.0	4330.0	4332.0	4171.8	3955.0	3769.5
75°	1996.1	2048.8	2492.2	3320.3	4228.5	4296.8	4232.4	4152.4	3958.9	3738.3	3509.7
77.5°	1369.1	1437.5	1832.0	2681.7	3404.3	3310.6	3294.9	3142.6	2886.7	2638.7	2345.7
80°	701.1	750.0	947.3	1402.4	2019.5	1925.8	1957.0	1833.9	1621.1	1441.4	1142.5
82.5°	168.0	179.7	279.3	543.0	875.0	800.8	812.5	718.7	595.7	486.3	377.0
85°	87.9	99.6	136.8	150.4	230.5	238.2	232.4	224.6	183.6	154.3	134.7
87.5°	0.0	0.0	0.0	3.9	1.9	0.0	1.9	0.0	0.0	1.9	3.9
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):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6
2.5°	880.9	877.0	880.9	869.1	875.0	865.2	869.1	859.4	863.3	855.5	857.4
5°	884.8	875.0	880.9	871.0	873.1	865.2	863.3	859.4	857.4	851.6	847.6
7.5°	875.0	867.2	865.2	861.3	855.5	857.4	849.6	847.6	841.8	841.8	830.0
10°	865.2	867.2	855.5	859.4	849.6	851.6	837.9	841.8	832.1	839.8	822.2
12.5°	873.1	875.0	865.2	871.0	853.6	857.4	845.7	851.6	837.9	847.6	826.1
15°	890.6	888.6	884.8	884.8	867.2	875.0	861.3	865.2	851.6	863.3	839.8
17.5°	906.2	904.3	898.5	896.5	884.8	886.7	873.1	880.9	865.2	875.0	851.6
20°	923.8	914.0	912.1	910.1	896.5	896.5	886.7	890.6	875.0	886.7	859.4
22.5°	937.5	929.7	927.7	919.9	910.1	914.0	900.4	902.3	886.7	898.5	875.0
25°	959.0	949.2	949.2	937.5	931.6	929.7	921.9	927.7	912.1	919.9	898.5
27.5°	988.3	966.8	974.6	962.9	959.0	957.1	953.1	957.1	945.3	951.1	929.7
30°	1015.6	988.3	1000.0	984.4	992.2	984.4	990.2	984.4	984.4	984.4	974.6
32.5°	1052.7	1019.6	1043.0	1019.6	1035.1	1023.5	1043.0	1031.2	1039.0	1037.1	1033.2
35°	1105.5	1066.4	1099.6	1068.4	1095.7	1080.0	1107.4	1101.5	1117.2	1109.4	1117.2
37.5°	1175.8	1134.8	1173.8	1144.5	1177.7	1154.3	1193.4	1189.5	1222.6	1211.0	1222.6
40°	1263.7	1234.4	1263.7	1242.2	1277.4	1267.5	1308.6	1310.5	1347.6	1341.8	1355.4
42.5°	1361.3	1339.9	1369.1	1357.5	1392.5	1400.4	1447.3	1458.9	1494.1	1503.9	1505.9
45°	1466.8	1462.9	1486.3	1498.0	1533.2	1556.6	1597.6	1626.9	1666.0	1687.5	1683.6
47.5°	1589.9	1605.4	1621.1	1650.4	1681.6	1730.4	1771.4	1808.6	1853.5	1867.2	1873.0
50°	1728.5	1755.9	1769.5	1810.5	1841.8	1902.4	1959.0	2005.8	2054.7	2048.8	2052.8
52.5°	1875.0	1910.2	1929.7	1978.5	2019.5	2089.8	2138.7	2183.6	2244.1	2228.5	2222.7
55°	2037.1	2089.8	2105.4	2160.2	2195.3	2267.6	2310.5	2388.7	2414.1	2398.4	2365.3
57.5°	2209.0	2271.5	2289.1	2363.2	2380.8	2459.0	2496.1	2548.8	2570.3	2544.9	2501.9
60°	2404.2	2460.9	2474.6	2541.0	2564.4	2636.7	2664.1	2710.9	2726.6	2664.1	2603.5
62.5°	2599.6	2658.1	2666.0	2724.6	2748.1	2810.6	2841.8	2869.2	2861.3	2769.5	2693.3
65°	2822.2	2878.9	2898.4	2957.0	2970.6	3017.6	3043.0	3011.7	2994.1	2855.5	2769.5
67.5°	3175.8	3236.3	3244.1	3257.8	3255.8	3232.4	3220.7	3113.2	3035.1	2779.3	2656.2
70°	3640.6	3595.7	3507.8	3406.2	3332.1	3199.2	3121.0	2900.4	2736.3	2449.3	2242.2
72.5°	3724.6	3578.1	3361.3	3187.5	3007.8	2798.8	2630.8	2296.8	2066.4	1765.6	1546.9
74°	3486.3	3248.1	3019.5	2775.4	2568.3	2263.7	2093.8	1671.9	1443.4	1138.6	873.1
75°	3199.2	2919.9	2662.1	2351.6	2158.2	1792.9	1632.8	1177.7	949.2	675.8	455.1
77.5°	2041.0	1707.0	1461.0	1101.5	951.1	656.2	480.5	298.8	220.8	193.3	168.0
80°	916.1	652.3	517.6	357.4	298.8	228.5	193.3	156.2	142.6	125.0	119.2
82.5°	293.0	234.4	222.7	199.2	199.2	160.2	136.8	107.4	97.7	84.0	76.2
85°	126.9	119.2	123.1	113.2	115.2	87.9	70.3	52.8	52.8	37.1	33.2
87.5°	3.9	0.0	1.9	0.0	3.9	0.0	1.9	0.0	1.9	0.0	1.9
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°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6
2.5°	849.6	853.6	851.6	843.7	841.8	836.0	822.2	824.2	816.4	822.2	812.5
5°	841.8	839.8	832.1	822.2	812.5	800.8	791.0	787.1	779.3	775.4	769.6
7.5°	830.0	822.2	808.5	793.0	779.3	763.6	755.9	742.2	738.3	724.6	722.6
10°	826.1	812.5	796.9	777.3	753.9	730.5	728.5	705.1	703.1	681.6	675.8
12.5°	834.0	816.4	796.9	773.5	746.0	712.9	712.9	677.7	675.8	646.5	636.7
15°	849.6	828.1	802.7	775.4	740.2	699.2	697.2	656.2	652.3	617.1	605.5
17.5°	863.3	834.0	810.6	773.5	732.4	685.6	675.8	634.7	627.0	585.9	570.3
20°	873.1	839.8	812.5	769.6	718.7	664.1	650.4	607.4	589.8	548.8	527.3
22.5°	884.8	853.6	816.4	767.6	711.0	646.5	617.1	578.2	552.7	509.7	480.5
25°	902.3	875.0	830.0	773.5	705.1	628.9	589.8	548.8	513.6	470.7	427.7
27.5°	929.7	902.3	849.6	781.2	703.1	611.3	568.4	517.6	474.6	427.7	378.9
30°	968.7	939.5	882.8	802.7	705.1	597.6	544.9	490.2	439.5	384.7	334.0
32.5°	1019.6	996.0	925.8	826.1	712.9	585.9	523.4	460.9	398.4	345.7	300.7
35°	1089.9	1074.2	986.3	871.0	732.4	580.1	502.0	433.6	363.2	310.6	261.7
37.5°	1193.4	1171.9	1074.2	935.6	763.6	576.1	486.3	400.4	334.0	277.3	236.3
40°	1324.2	1295.0	1177.7	1013.6	812.5	578.2	472.6	375.0	308.6	248.1	214.8
42.5°	1480.4	1437.5	1304.7	1109.4	861.3	582.1	464.8	351.6	289.1	224.6	199.2
45°	1656.3	1607.4	1455.0	1228.5	931.6	591.8	459.0	332.0	271.5	207.0	189.5
47.5°	1828.1	1779.3	1609.4	1347.6	1003.9	609.4	462.9	320.3	259.7	197.2	177.7
50°	1996.1	1945.3	1746.1	1455.0	1066.4	632.8	478.5	322.2	257.8	193.3	171.9
52.5°	2144.5	2082.0	1863.3	1539.0	1111.3	648.4	492.1	328.2	259.7	191.4	169.9
55°	2292.9	2212.8	1957.0	1605.4	1138.6	650.4	492.1	330.1	261.7	191.4	168.0
57.5°	2404.2	2312.5	2029.3	1644.5	1148.5	640.6	480.5	320.3	250.0	189.5	164.1
60°	2474.6	2376.9	2080.1	1669.9	1134.8	599.7	418.0	283.2	220.8	175.7	152.3
62.5°	2533.2	2433.6	2095.7	1626.9	1019.6	476.6	326.2	230.5	183.6	156.2	140.7
65°	2546.8	2427.8	1986.4	1437.5	796.9	330.1	236.3	181.7	150.4	138.7	126.9
67.5°	2339.8	2197.3	1669.9	1125.0	543.0	226.6	175.7	148.4	128.9	123.1	119.2
70°	1902.4	1746.1	1222.6	736.3	302.7	158.3	134.7	123.1	111.3	111.3	105.5
72.5°	1226.5	1064.5	627.0	314.5	154.3	121.1	109.4	105.5	95.7	97.7	91.8
74°	627.0	488.3	255.8	166.0	126.9	107.4	97.7	95.7	85.9	87.9	82.0
75°	318.3	252.0	179.7	138.7	117.2	101.6	89.8	89.8	78.2	80.1	74.3
77.5°	148.4	142.6	123.1	109.4	99.6	85.9	74.3	72.2	60.6	64.4	56.7
80°	103.5	103.5	95.7	91.8	82.0	70.3	56.7	56.7	44.9	46.9	41.0
82.5°	58.6	54.7	54.7	62.5	64.4	52.8	41.0	39.1	33.2	33.2	27.3
85°	25.4	29.3	35.2	43.0	46.9	41.0	29.3	27.3	17.6	17.6	9.7
87.5°	0.0	1.9	1.9	3.9	7.8	7.8	0.0	3.9	0.0	1.9	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):

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6
2.5°	816.4	806.6	812.5	802.7	806.6	796.9	800.8	794.9	789.1	781.2	779.3
5°	763.6	755.9	753.9	744.1	746.0	738.3	730.5	720.7	709.0	693.4	687.5
7.5°	705.1	703.1	689.5	683.6	675.8	668.0	654.3	638.6	615.2	593.7	580.1
10°	654.3	648.4	628.9	619.1	607.4	597.6	578.2	556.6	523.4	490.2	472.6
12.5°	611.3	603.5	578.2	566.4	548.8	537.2	513.6	486.3	439.5	392.6	371.1
15°	576.1	564.5	535.1	517.6	494.2	482.4	457.1	418.0	361.3	312.5	283.2
17.5°	535.1	519.6	488.3	466.8	443.3	421.9	396.5	355.5	291.0	246.1	216.8
20°	490.2	470.7	437.5	408.2	382.8	363.2	337.9	296.9	232.4	197.2	181.7
22.5°	443.3	412.1	382.8	357.4	328.2	308.6	283.2	246.1	197.2	177.7	171.9
25°	394.6	359.4	330.1	304.6	277.3	259.7	238.2	209.0	179.7	173.8	173.8
27.5°	345.7	310.6	283.2	257.8	234.4	222.7	203.2	183.6	169.9	171.9	173.8
30°	300.7	265.7	240.2	220.8	199.2	191.4	175.7	164.1	162.1	168.0	169.9
32.5°	261.7	230.5	207.0	191.4	173.8	169.9	156.2	150.4	156.2	164.1	162.1
35°	228.5	203.2	179.7	169.9	154.3	152.3	142.6	138.7	146.5	156.2	156.2
37.5°	203.2	179.7	162.1	154.3	142.6	140.7	132.8	128.9	134.7	148.4	152.3
40°	181.7	168.0	150.4	142.6	134.7	130.8	126.9	123.1	125.0	142.6	144.5
42.5°	168.0	158.3	142.6	138.7	128.9	126.9	121.1	117.2	119.2	132.8	138.7
45°	158.3	150.4	136.8	134.7	125.0	123.1	117.2	113.2	115.2	126.9	132.8
47.5°	150.4	142.6	130.8	126.9	121.1	119.2	115.2	111.3	111.3	123.1	128.9
50°	146.5	138.7	126.9	123.1	117.2	115.2	111.3	107.4	109.4	119.2	123.1
52.5°	144.5	134.7	125.0	119.2	115.2	111.3	107.4	103.5	105.5	115.2	119.2
55°	144.5	132.8	125.0	119.2	113.2	107.4	105.5	99.6	103.5	111.3	117.2
57.5°	144.5	132.8	125.0	119.2	115.2	109.4	105.5	101.6	103.5	111.3	117.2
60°	140.7	130.8	126.9	121.1	119.2	113.2	111.3	107.4	107.4	117.2	126.9
62.5°	134.7	128.9	126.9	123.1	123.1	119.2	119.2	115.2	115.2	126.9	136.8
65°	126.9	123.1	125.0	123.1	123.1	123.1	121.1	121.1	121.1	130.8	142.6
67.5°	119.2	117.2	119.2	119.2	121.1	119.2	121.1	119.2	119.2	128.9	140.7
70°	107.4	107.4	109.4	107.4	109.4	109.4	111.3	111.3	111.3	117.2	128.9
72.5°	93.7	91.8	93.7	91.8	95.7	91.8	95.7	97.7	95.7	97.7	103.5
74°	84.0	82.0	84.0	82.0	85.9	82.0	84.0	84.0	82.0	66.4	56.7
75°	76.2	74.3	76.2	74.3	78.2	74.3	78.2	76.2	72.2	48.8	46.9
77.5°	60.6	54.7	60.6	54.7	58.6	52.8	56.7	48.8	37.1	35.2	35.2
80°	44.9	39.1	43.0	37.1	35.2	27.3	29.3	27.3	25.4	27.3	27.3
82.5°	27.3	19.5	23.4	17.6	21.5	15.7	19.5	17.6	15.7	15.7	15.7
85°	13.7	9.7	13.7	7.8	11.8	7.8	9.7	9.7	5.8	5.8	5.8
87.5°	1.9	0.0	3.9	0.0	3.9	0.0	1.9	1.9	0.0	0.0	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):

	175°	180°
0°	853.6	853.6
2.5°	773.5	775.4
5°	677.7	683.6
7.5°	572.2	576.1
10°	460.9	464.8
12.5°	355.5	359.4
15°	267.6	263.7
17.5°	205.1	201.2
20°	173.8	173.8
22.5°	169.9	168.0
25°	171.9	169.9
27.5°	171.9	169.9
30°	168.0	166.0
32.5°	162.1	160.2
35°	156.2	156.2
37.5°	152.3	154.3
40°	146.5	148.4
42.5°	140.7	142.6
45°	134.7	136.8
47.5°	128.9	128.9
50°	121.1	121.1
52.5°	119.2	119.2
55°	119.2	119.2
57.5°	123.1	123.1
60°	134.7	136.8
62.5°	158.3	160.2
65°	181.7	185.6
67.5°	183.6	189.5
70°	177.7	183.6
72.5°	123.1	123.1
74°	54.7	52.8
75°	46.9	44.9
77.5°	35.2	35.2
80°	25.4	23.4
82.5°	13.7	13.7
85°	3.9	3.9
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)