

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: INVUE

Report Number: P142083

Luminaire Tested: **EMM-F03-LED-E1-T4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P142083
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33685)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: EMM-F03-LED-E1-T4-8030
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6010.9 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

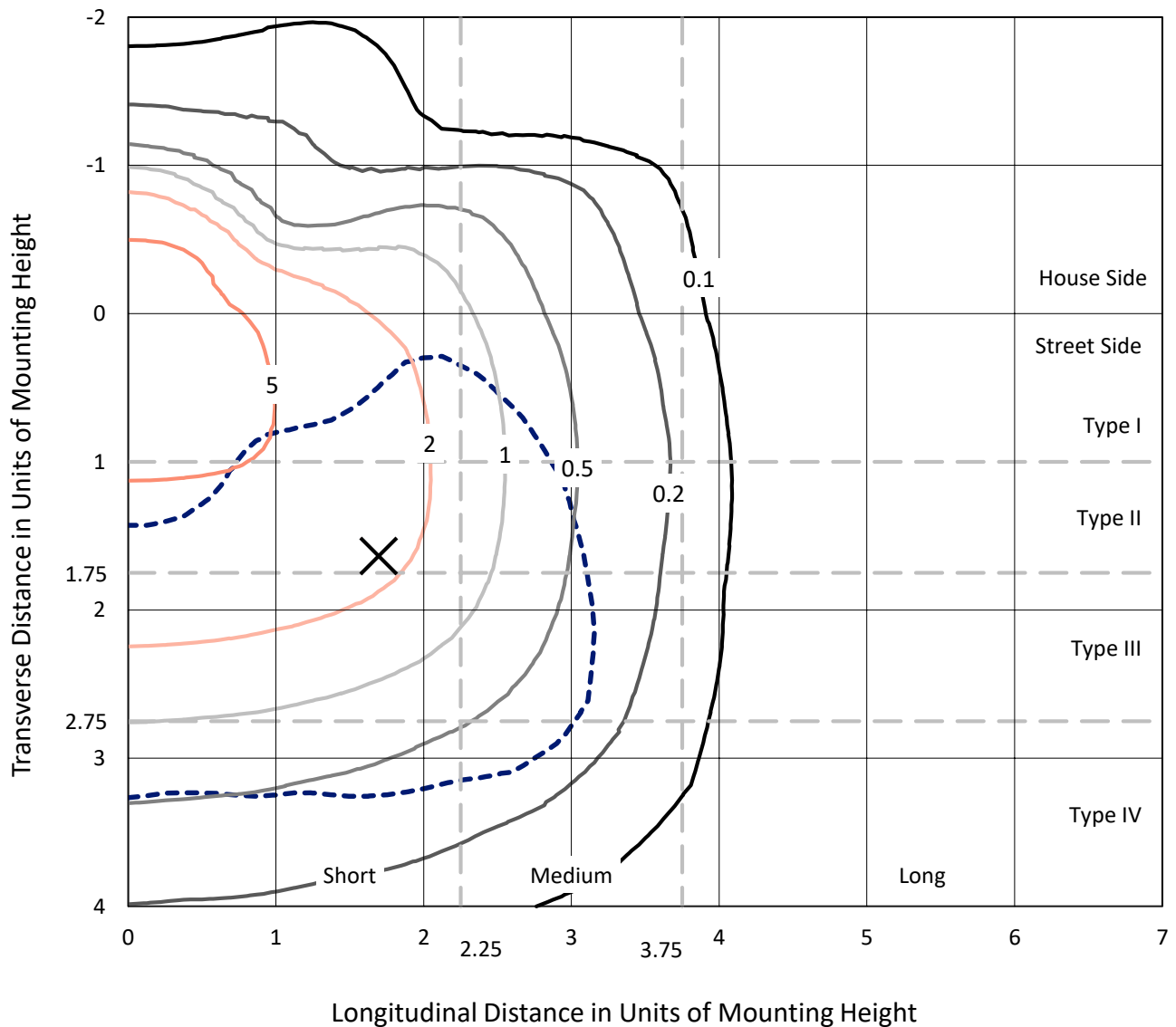
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

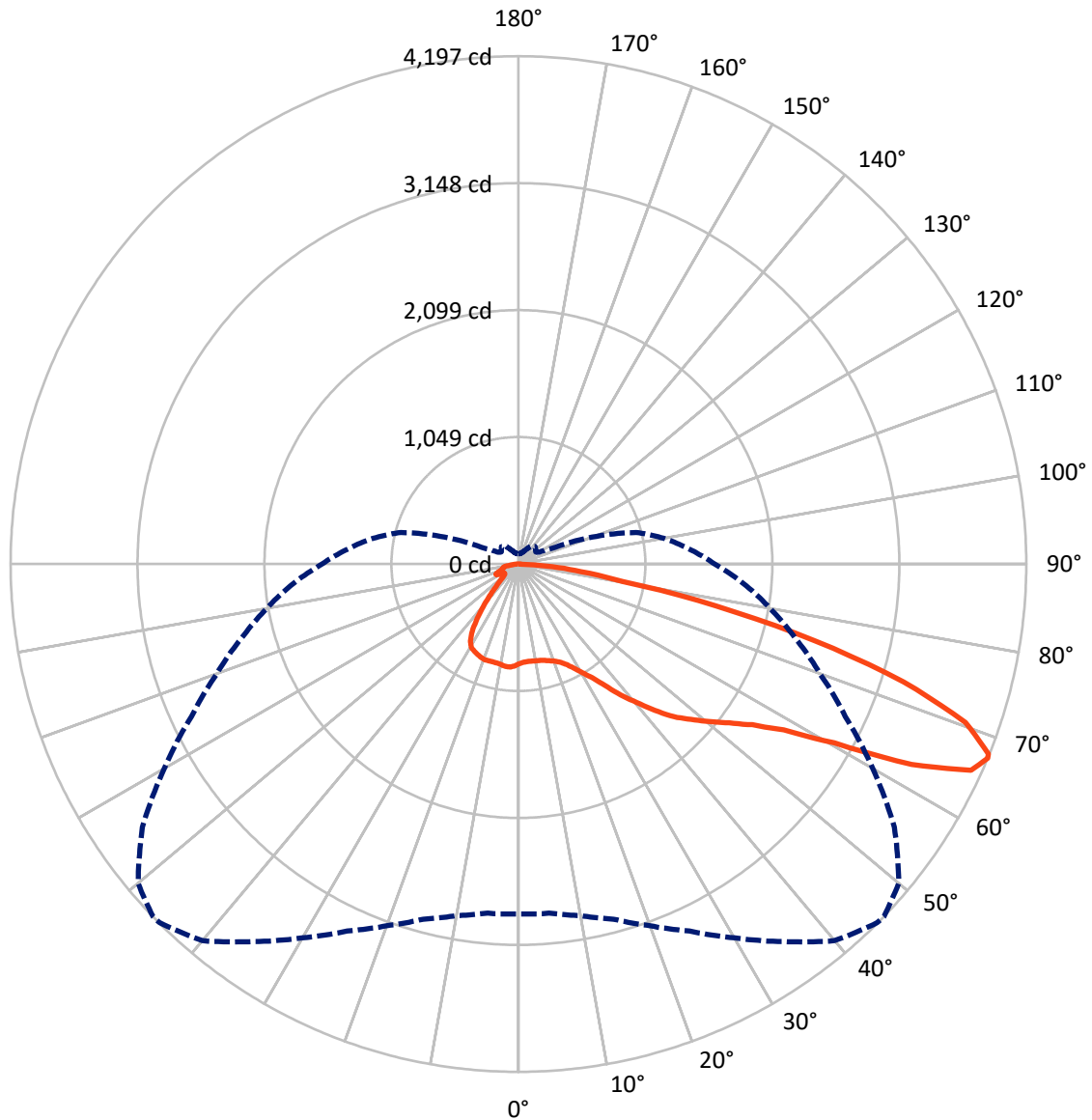
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1194.5	0.0	1194.5
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	4816.4	0.0	4816.4
	% Fixture	80.1	0.0	80.1
Total	Lumens	6010.9	0.0	6010.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	1.3
10°-20°	236.6	3.9
20°-30°	397.8	6.6
30°-40°	594.9	9.9
40°-50°	774.8	12.9
50°-60°	1061.2	17.7
60°-70°	1677.6	27.9
70°-80°	1040.6	17.3
80°-90°	148.3	2.5
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°	6010.9	100.0
0°-180°	6010.9	100.0



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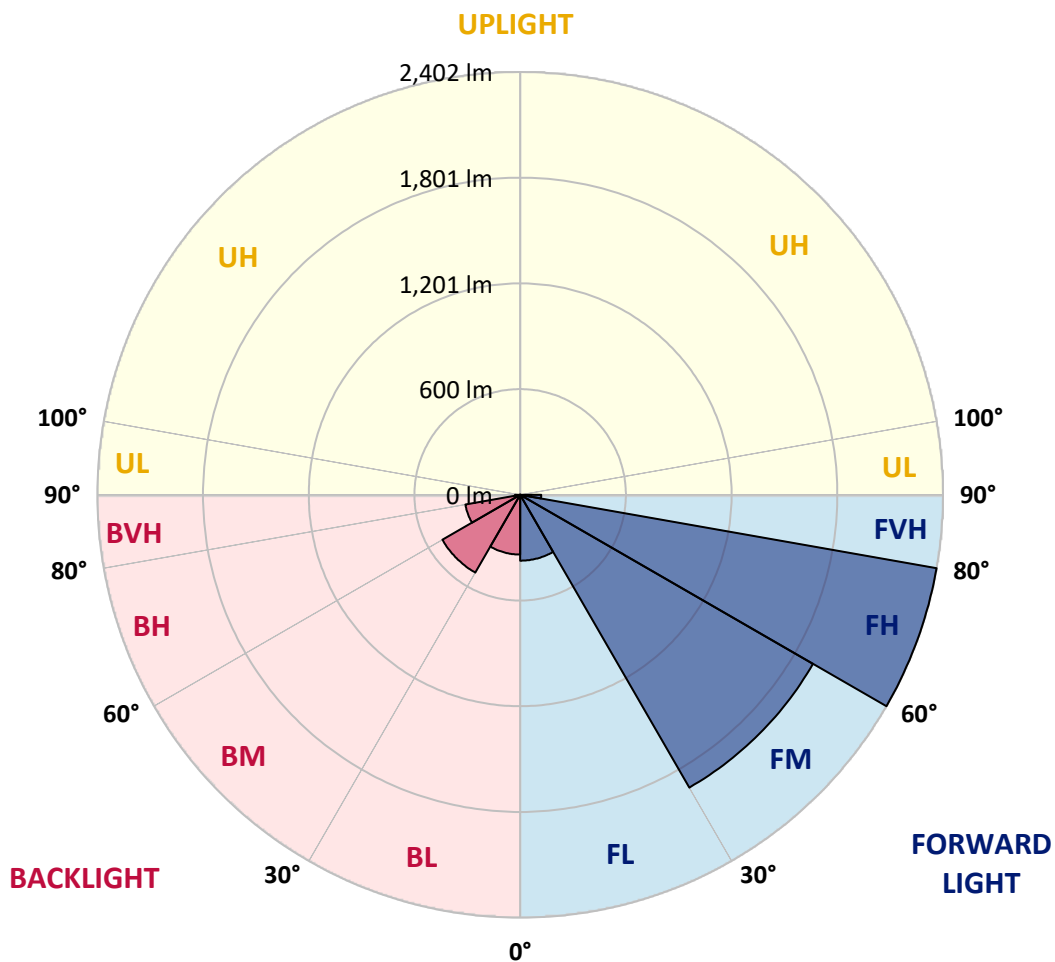
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	374.3	6.2			
FM	(30°-60°)	1920.7	32.0			
FH	(60°-80°)	2402.0	40.0			G2/5000
FVH	(80°-90°)	119.4	2.0			G2/225
BL	(0°-30°)	339.3	5.6	B1/500		
BM	(30°-60°)	510.1	8.5	B1/1000		
BH	(60°-80°)	316.2	5.3	B1/500		G1/500
BVH	(80°-90°)	28.9	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°	45°	46°
0°	823.5	823.5	823.5	823.5	823.5	823.5	823.5	823.5	823.5	823.5	823.5
2.5°	805.4	807.5	806.8	806.1	806.8	807.5	808.2	810.3	811.0	811.7	812.4
5°	790.8	792.9	792.2	793.6	794.3	797.1	799.2	802.6	804.7	807.5	808.9
7.5°	786.6	788.0	788.0	789.4	790.1	792.9	796.4	800.5	804.7	808.9	810.3
10°	797.8	798.5	798.5	797.8	798.5	799.9	801.2	804.7	808.2	811.7	813.1
12.5°	824.2	822.1	821.5	819.4	820.1	817.3	817.3	816.6	816.6	817.3	817.3
15°	852.1	850.7	849.3	845.8	845.8	841.7	840.3	837.5	830.5	827.7	827.0
17.5°	877.2	875.8	873.0	870.2	868.8	863.3	861.9	857.0	848.6	842.4	840.3
20°	907.1	903.7	897.4	896.0	892.5	886.2	884.2	877.9	866.7	857.7	857.0
22.5°	953.1	947.6	941.3	936.4	927.4	921.1	915.5	907.1	893.9	883.5	880.7
25°	999.1	997.0	991.5	984.5	978.2	971.2	964.3	951.7	934.3	921.1	918.3
27.5°	1063.9	1059.0	1052.1	1040.9	1037.4	1025.6	1020.0	1009.6	992.2	975.4	972.6
30°	1131.5	1126.6	1115.5	1105.7	1103.6	1091.1	1087.6	1076.5	1061.1	1044.4	1042.3
32.5°	1208.8	1204.0	1195.6	1190.0	1182.4	1175.4	1167.0	1156.6	1137.1	1123.1	1120.4
35°	1307.8	1303.6	1293.8	1298.0	1291.1	1289.0	1284.1	1266.7	1245.1	1228.3	1231.1
37.5°	1385.8	1385.1	1387.2	1385.1	1394.2	1403.2	1403.2	1404.6	1394.2	1376.1	1372.6
40°	1459.0	1458.3	1463.8	1470.1	1494.5	1509.1	1525.9	1532.1	1521.0	1507.0	1502.2
42.5°	1527.2	1525.9	1533.5	1556.5	1586.5	1613.6	1642.2	1666.6	1672.2	1656.8	1653.4
45°	1594.8	1596.9	1606.7	1632.5	1672.2	1707.7	1756.5	1785.0	1803.2	1794.8	1800.4
47.5°	1676.3	1678.4	1688.9	1719.5	1754.4	1799.0	1856.1	1904.9	1926.5	1926.5	1919.5
50°	1773.2	1782.9	1794.1	1815.0	1855.4	1899.3	1969.0	2017.7	2052.6	2051.2	2045.6
52.5°	1902.1	1904.2	1922.3	1939.0	1973.9	2018.4	2081.1	2148.0	2191.9	2187.7	2181.5
55°	2075.6	2067.2	2079.1	2095.1	2132.7	2171.7	2240.0	2317.3	2361.9	2348.7	2344.5
57.5°	2294.4	2287.4	2295.7	2315.3	2362.6	2394.7	2449.7	2520.8	2583.5	2594.6	2584.9
60°	2610.0	2610.0	2626.7	2668.5	2716.6	2764.6	2835.0	2920.7	2985.5	3001.5	3000.8
62.5°	2984.1	3007.8	3011.3	3065.6	3157.6	3240.5	3349.9	3501.1	3597.9	3666.9	3648.8
65°	3044.0	3051.7	3082.4	3166.7	3291.4	3438.4	3608.4	3807.0	4008.3	4108.0	4110.7
67°	2893.5	2896.3	2950.0	3038.5	3181.3	3347.1	3567.3	3809.1	4064.1	4193.0	4197.1
67.5°	2846.9	2841.3	2889.4	2982.0	3138.1	3324.8	3531.8	3786.1	4049.4	4187.4	4189.5
70°	2534.0	2536.8	2574.4	2677.6	2842.7	3017.6	3248.9	3510.2	3787.5	3913.6	3919.8
72.5°	2185.0	2166.8	2201.0	2311.1	2389.8	2560.5	2773.0	2970.2	3214.0	3333.2	3330.4
75°	1666.6	1616.4	1676.3	1740.4	1784.3	1953.6	2086.0	2221.9	2446.9	2537.5	2532.6
77.5°	898.1	896.0	961.5	1011.7	1077.2	1229.7	1346.1	1431.8	1621.3	1665.9	1671.5
80°	487.7	505.8	544.8	600.6	653.5	726.7	794.3	847.9	909.9	881.4	875.1
82.5°	294.0	324.0	383.9	426.4	447.3	480.1	528.1	558.8	583.2	530.2	519.8
85°	46.7	84.3	216.7	259.2	281.5	296.8	307.3	327.5	298.9	280.1	285.0
87.5°	15.3	17.4	33.4	73.9	64.8	44.6	58.5	85.0	40.4	21.6	20.9
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°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	823.5	823.5	823.5	823.5	823.5	823.5	823.5	823.5	823.5	823.5	823.5
2.5°	813.1	813.8	815.9	818.7	820.1	823.5	823.5	826.3	826.3	828.4	830.5
5°	811.0	814.5	817.3	821.5	823.5	828.4	830.5	834.7	836.8	839.6	842.4
7.5°	814.5	819.4	822.8	827.7	831.2	836.1	838.2	841.7	843.7	847.2	848.6
10°	817.3	822.1	826.3	831.9	834.7	838.2	840.3	843.1	843.7	845.8	847.2
12.5°	820.8	822.8	826.3	831.2	834.0	836.1	838.2	840.3	842.4	842.4	842.4
15°	825.6	823.5	824.2	828.4	831.2	832.6	834.7	836.1	836.8	836.8	835.4
17.5°	836.1	830.5	827.0	827.0	828.4	829.8	829.8	827.7	826.3	824.2	821.5
20°	851.4	842.4	835.4	831.9	829.1	825.6	820.1	813.1	806.8	801.2	797.8
22.5°	873.0	864.0	855.6	847.9	838.9	827.0	815.2	800.5	788.7	779.6	776.2
25°	913.4	900.2	893.9	882.1	868.1	849.3	831.2	811.0	797.1	784.5	779.0
27.5°	967.8	957.3	943.4	937.1	919.0	897.4	877.2	852.8	833.3	818.0	807.5
30°	1036.7	1029.8	1017.9	1007.5	990.1	970.6	940.6	913.4	879.3	852.1	836.8
32.5°	1116.2	1105.7	1095.3	1082.0	1069.5	1043.7	1015.8	974.7	927.4	880.7	852.1
35°	1215.8	1205.4	1198.4	1177.5	1156.6	1128.7	1091.1	1042.3	976.1	913.4	864.6
37.5°	1353.1	1330.8	1296.6	1266.7	1229.0	1186.5	1144.0	1085.5	1011.7	930.1	863.3
40°	1472.2	1439.5	1401.1	1349.6	1296.6	1240.9	1190.7	1127.3	1040.9	944.1	853.5
42.5°	1626.9	1570.4	1505.6	1437.4	1364.9	1298.0	1236.0	1163.5	1062.5	944.8	830.5
45°	1766.2	1696.6	1610.9	1518.2	1429.7	1348.2	1277.1	1197.0	1080.6	942.0	804.0
47.5°	1890.2	1808.7	1704.2	1592.7	1488.2	1396.3	1318.2	1233.9	1104.3	951.0	794.3
50°	2010.1	1916.7	1799.0	1663.8	1547.4	1447.1	1365.6	1275.0	1144.0	981.7	809.6
52.5°	2138.3	2024.7	1891.6	1739.1	1612.2	1508.4	1417.2	1324.5	1191.4	1022.8	837.5
55°	2295.0	2166.2	2014.3	1845.7	1700.0	1584.4	1481.3	1383.7	1247.9	1073.7	870.2
57.5°	2504.1	2373.8	2198.9	2004.5	1851.9	1714.7	1590.6	1480.6	1333.6	1144.0	919.0
60°	2906.8	2745.8	2513.1	2302.0	2136.9	1975.2	1825.4	1675.0	1498.0	1286.2	1044.4
62.5°	3553.4	3329.0	3040.6	2746.5	2523.6	2309.7	2111.8	1916.0	1695.2	1457.6	1193.5
65°	4000.7	3723.4	3361.1	2992.5	2690.8	2429.5	2193.3	1960.6	1714.7	1488.2	1258.3
67°	4103.1	3793.0	3380.6	2980.6	2652.5	2368.9	2111.8	1869.3	1622.0	1416.5	1220.0
67.5°	4098.9	3789.5	3365.2	2955.6	2626.7	2347.3	2088.1	1833.1	1590.0	1388.6	1201.2
70°	3850.9	3540.1	3113.7	2706.1	2389.1	2111.1	1849.8	1627.6	1379.5	1216.5	1075.8
72.5°	3262.8	2992.5	2648.3	2281.8	2010.1	1761.3	1552.3	1334.2	1119.0	1010.3	899.5
75°	2481.1	2241.4	1925.8	1657.5	1450.6	1277.8	1068.1	924.6	773.4	698.8	659.1
77.5°	1639.4	1364.2	1146.1	890.4	738.5	602.7	475.2	376.9	314.9	330.9	361.6
80°	867.4	688.4	509.3	394.4	304.5	236.9	188.1	140.7	102.4	119.8	150.5
82.5°	472.4	402.7	297.5	236.9	193.7	160.2	123.3	86.4	64.1	71.1	102.4
85°	269.6	236.9	183.9	143.5	125.4	102.4	70.4	47.4	46.0	49.5	63.4
87.5°	44.6	59.9	48.8	33.4	37.6	36.9	32.7	25.1	18.8	26.5	34.1
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	823.5	823.5	823.5	823.5	823.5	823.5	823.5	823.5	823.5	823.5	823.5
2.5°	831.9	834.0	836.8	837.5	836.8	838.9	842.4	845.1	843.1	841.7	845.1
5°	845.1	846.5	850.0	850.0	850.7	852.1	854.2	856.3	853.5	853.5	854.9
7.5°	850.7	850.7	854.2	852.8	852.8	852.1	854.2	854.9	850.7	850.0	850.7
10°	847.2	847.2	848.6	845.8	845.1	844.4	844.4	845.1	841.0	839.6	841.7
12.5°	842.4	842.4	841.0	839.6	838.2	836.8	838.2	838.9	836.1	836.1	836.8
15°	834.0	831.9	831.2	831.2	831.9	832.6	835.4	837.5	835.4	834.0	834.0
17.5°	820.1	818.7	820.8	824.9	829.8	833.3	837.5	838.9	834.0	828.4	824.2
20°	799.2	802.6	810.3	822.1	832.6	838.2	838.2	833.3	822.1	811.0	805.4
22.5°	777.6	787.3	804.0	822.1	834.7	836.8	829.1	818.7	803.3	791.5	781.0
25°	780.3	792.2	808.9	824.2	832.6	829.1	815.2	801.9	783.8	771.3	756.0
27.5°	809.6	820.8	829.1	834.0	831.2	820.1	804.0	785.9	765.7	748.3	730.2
30°	833.3	838.2	837.5	833.3	822.8	805.4	786.6	765.0	740.6	721.8	698.1
32.5°	837.5	828.4	814.5	799.2	785.2	765.7	744.1	719.0	691.9	667.5	643.8
35°	829.8	795.7	765.0	734.4	713.5	689.1	670.3	641.0	611.0	590.1	572.7
37.5°	801.2	742.0	693.3	650.1	619.4	591.5	563.0	534.4	509.3	499.6	494.7
40°	765.0	675.8	601.3	541.4	508.6	481.4	452.2	429.2	417.3	408.3	404.8
42.5°	712.1	600.6	507.9	443.8	402.0	376.9	348.4	335.8	330.3	332.3	329.6
45°	662.6	521.9	405.5	334.4	305.9	282.2	268.2	262.7	259.9	258.5	260.6
47.5°	627.8	461.2	326.8	254.3	230.6	213.9	208.3	206.2	205.5	202.8	202.1
50°	619.4	425.7	267.5	197.9	179.8	170.7	167.9	165.8	164.4	162.3	157.5
52.5°	629.2	416.0	238.3	170.0	154.7	147.7	145.6	142.1	140.7	135.2	128.9
55°	645.9	419.4	229.2	162.3	147.0	139.3	136.6	135.2	130.3	124.0	116.4
57.5°	680.7	441.0	233.4	164.4	148.4	141.4	140.0	138.7	132.4	123.3	113.6
60°	781.7	503.7	255.0	179.1	159.6	154.7	155.4	152.6	143.5	131.7	117.1
62.5°	937.8	601.3	294.7	197.2	177.7	177.7	181.8	179.8	165.8	146.3	125.4
65°	1018.6	659.8	311.4	202.8	183.2	192.3	205.5	203.4	183.2	154.0	126.1
67°	1006.1	648.7	301.7	194.4	172.8	184.6	197.9	198.6	176.3	147.0	120.5
67.5°	994.2	641.0	296.8	190.9	170.0	181.8	194.4	192.3	173.5	144.2	119.1
70°	893.2	563.0	264.8	178.4	157.5	160.9	164.4	161.6	147.0	127.5	110.1
72.5°	771.3	467.5	233.4	170.7	150.5	144.9	144.9	140.0	130.3	117.1	104.5
75°	588.0	363.7	204.8	162.3	142.1	133.8	132.4	128.9	120.5	110.8	99.6
77.5°	358.8	260.6	177.7	149.8	131.7	124.7	125.4	123.3	115.0	105.9	95.5
80°	179.8	168.6	149.1	130.3	119.1	112.2	112.9	108.7	101.7	94.8	86.4
82.5°	110.1	116.4	104.5	98.9	92.0	84.3	65.5	76.6	74.6	68.3	64.8
85°	73.2	72.5	65.5	57.8	53.0	46.0	41.1	41.8	46.0	47.4	47.4
87.5°	35.5	34.1	31.4	29.3	27.9	23.0	21.6	24.4	24.4	25.8	25.1
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°	823.5	823.5	823.5	823.5	823.5
2.5°	845.8	847.2	846.5	848.6	846.5
5°	855.6	855.6	856.3	857.0	856.3
7.5°	850.7	850.0	851.4	852.8	852.1
10°	841.7	842.4	843.7	845.8	845.8
12.5°	838.2	838.9	841.7	843.7	843.7
15°	835.4	836.1	837.5	840.3	838.2
17.5°	822.8	820.1	820.1	822.1	820.1
20°	800.5	796.4	796.4	795.7	795.0
22.5°	774.1	763.6	760.8	757.4	758.0
25°	741.3	727.4	719.7	715.5	714.2
27.5°	714.9	698.8	691.2	684.9	682.8
30°	681.4	663.3	657.0	653.5	652.1
32.5°	632.6	616.6	608.3	606.2	602.0
35°	558.8	551.8	548.3	543.5	544.2
37.5°	484.9	482.8	474.5	477.3	474.5
40°	405.5	404.8	406.2	404.1	409.0
42.5°	330.9	328.9	332.3	330.3	332.3
45°	256.4	260.6	265.5	263.4	266.2
47.5°	196.5	197.2	195.8	197.2	198.6
50°	151.2	149.8	148.4	145.6	147.0
52.5°	124.7	119.8	116.4	114.3	113.6
55°	110.1	105.2	102.4	99.6	99.6
57.5°	105.9	99.6	95.5	93.4	92.7
60°	106.6	98.2	92.7	89.2	88.5
62.5°	109.4	98.2	90.6	87.1	85.7
65°	108.7	96.8	89.2	85.7	84.3
67°	105.2	94.8	88.5	85.0	84.3
67.5°	103.8	94.1	88.5	85.0	83.6
70°	98.9	92.0	87.1	83.6	82.2
72.5°	94.8	89.2	83.6	80.8	79.4
75°	90.6	85.0	80.1	77.3	76.6
77.5°	86.4	80.1	76.6	73.2	70.4
80°	78.7	71.8	66.9	61.3	59.9
82.5°	64.8	59.2	54.3	49.5	48.8
85°	48.1	46.0	41.8	37.6	37.6
87.5°	26.5	29.3	25.8	23.7	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)