

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: P271749

Luminaire Tested: **IST-AF-1200-LED-E1-T4FT-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35943)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-AF-1200-LED-E1-T4FT-7027-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW, WITH UPLIGHT GLOW
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7769.3 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U5 - G2

Input Watts (W): 82.7
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

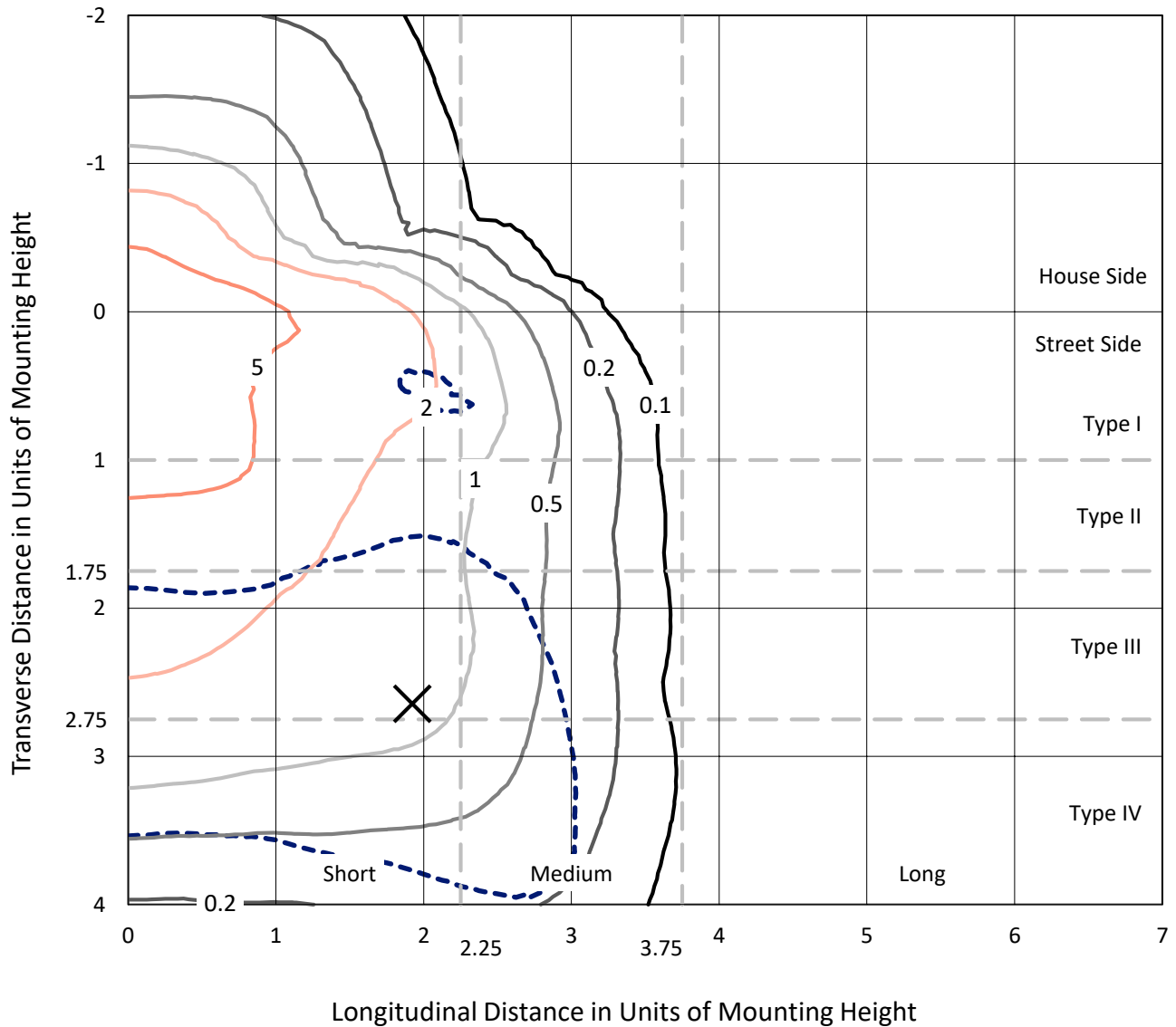


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

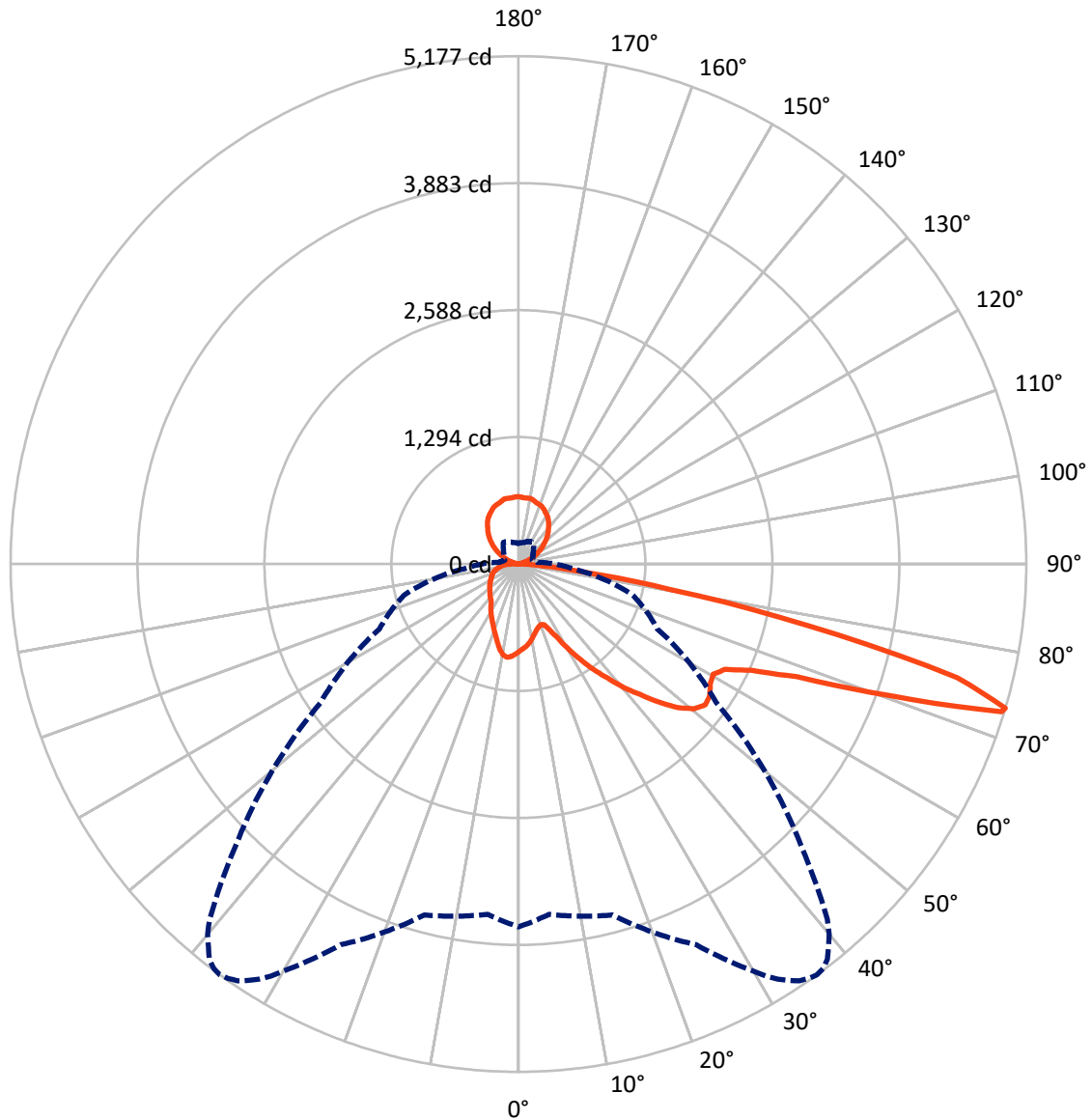


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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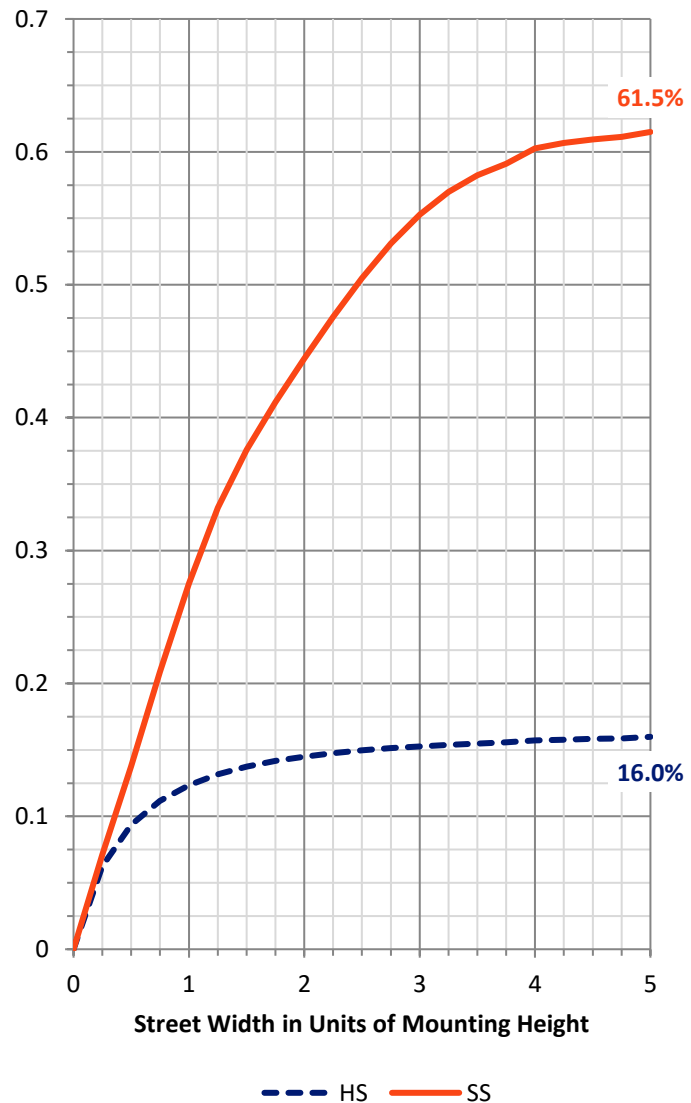
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1279.4	852.9	2132.3
	% Fixture	16.5	11.0	27.4
Street Side	Lumens	4785.0	852.0	5637.0
	% Fixture	61.6	11.0	72.6
Total	Lumens	6064.4	1704.9	7769.3
	% Fixture	78.1	21.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.8	1.1
10°-20°	222.2	2.9
20°-30°	364.1	4.7
30°-40°	603.3	7.8
40°-50°	886.6	11.4
50°-60°	1117.9	14.4
60°-70°	1464.0	18.8
70°-80°	1185.0	15.3
80°-90°	137.3	1.8
90°-100°	11.0	0.1
100°-110°	56.3	0.7
110°-120°	163.1	2.1
120°-130°	268.1	3.5
130°-140°	330.6	4.3
140°-150°	338.2	4.4
150°-160°	284.9	3.7
160°-170°	187.6	2.4
170°-180°	65.0	0.8
0°-90°	6064.4	78.1
0°-180°	7769.3	100.0



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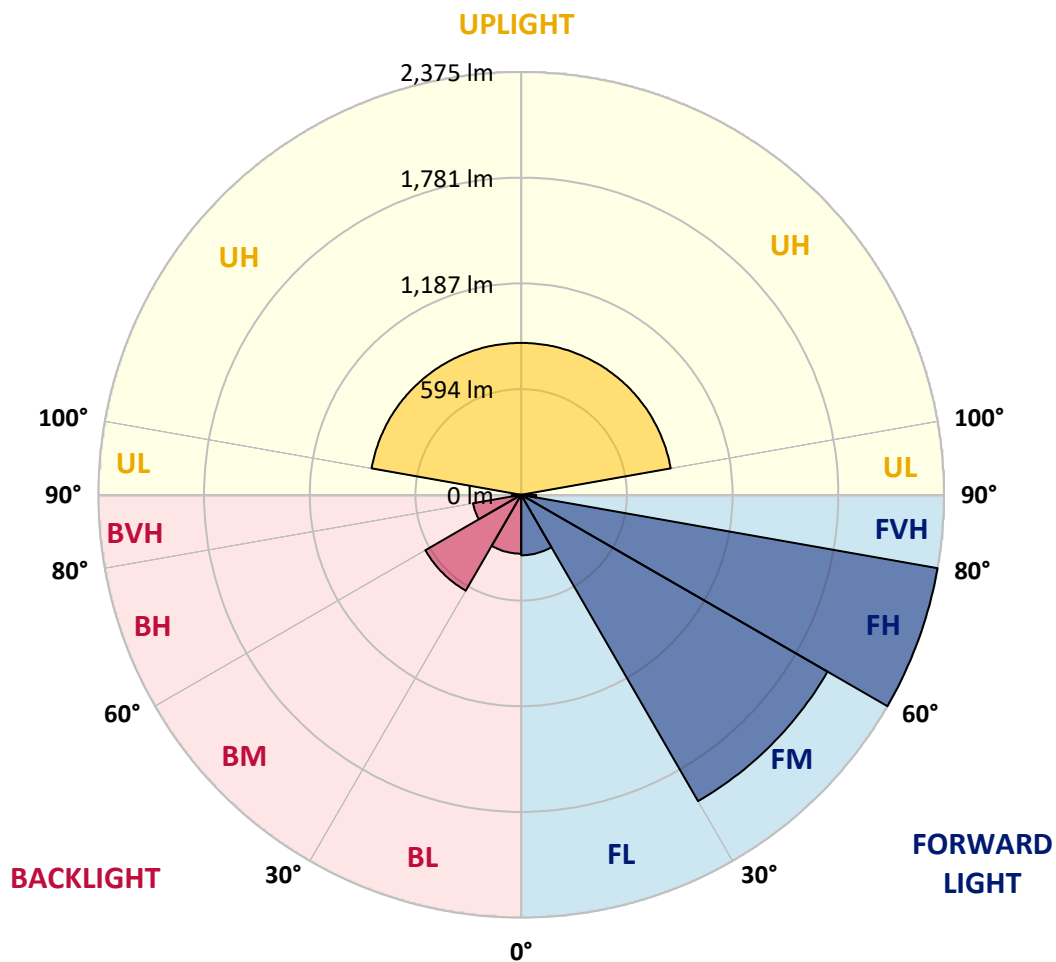
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	339.5	4.4			
FM (30°-60°)	1986.3	25.6			
FH (60°-80°)	2374.6	30.6			G2/5000
FVH (80°-90°)	84.6	1.1			G1/100
BL (0°-30°)	330.6	4.3	B1/500		
BM (30°-60°)	621.6	8.0	B1/1000		
BH (60°-80°)	274.4	3.5	B1/500		G1/500
BVH (80°-90°)	52.8	0.7			G1/100
UL (90°-100°)	11.0	0.1		U2/50	
UH (100°-180°)	852.9	11.0		U4/1000	

BUG Rating: B1-U5-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	30°	31°	32°	33°	34°	35°	36°
0°	890.8	890.8	890.8	890.8	890.8	890.8	890.8	890.8	890.8	890.8	890.8
2.5°	858.6	860.4	862.1	862.1	862.1	864.7	863.8	863.8	864.7	865.6	865.6
5°	826.4	827.2	832.5	834.3	839.5	838.6	838.6	838.6	842.1	839.5	841.3
7.5°	790.0	791.7	796.9	802.9	807.4	808.3	807.4	805.6	809.9	811.7	809.9
10°	746.5	747.4	754.4	759.6	766.5	765.6	768.2	768.2	769.9	769.1	772.6
12.5°	724.8	723.0	719.5	722.1	723.9	723.9	723.9	726.5	725.7	727.4	730.1
15°	722.1	717.8	700.5	694.4	692.6	692.6	691.8	690.9	693.5	696.1	696.1
17.5°	734.4	725.7	691.8	674.4	670.9	669.1	670.0	668.2	668.2	671.8	670.9
20°	793.5	777.8	710.0	671.8	661.3	661.3	660.4	657.9	657.9	658.7	658.7
22.5°	943.8	923.7	805.6	726.5	690.0	689.1	686.6	683.9	677.1	675.3	671.8
25°	1153.2	1129.8	927.3	842.1	790.8	789.1	776.0	774.2	757.8	758.7	747.4
27.5°	1315.7	1300.0	1089.7	976.7	928.1	917.7	911.6	896.0	882.0	870.7	856.8
30°	1371.4	1368.7	1254.0	1162.8	1089.7	1077.6	1061.1	1054.1	1034.2	1018.5	1009.0
32.5°	1459.0	1461.7	1413.9	1313.1	1249.7	1237.5	1223.6	1207.1	1193.2	1182.8	1160.3
35°	1584.3	1585.1	1552.1	1476.5	1403.5	1387.1	1379.2	1360.0	1347.0	1333.9	1322.7
37.5°	1671.2	1675.5	1652.1	1593.9	1550.4	1526.8	1526.0	1512.2	1497.4	1486.1	1475.6
40°	1838.0	1814.6	1737.2	1699.9	1664.2	1661.7	1653.8	1646.0	1649.5	1643.4	1654.7
42.5°	2006.6	1977.1	1869.4	1816.4	1794.5	1798.9	1796.3	1797.1	1807.6	1805.0	1817.1
45°	2150.9	2116.9	2014.4	1951.8	1969.3	1974.5	1989.3	1997.9	1993.6	2009.1	2009.1
47.5°	2295.1	2216.1	2094.4	2123.1	2135.2	2175.2	2185.7	2183.0	2197.8	2204.7	2185.7
50°	2193.4	2172.6	2163.0	2250.8	2305.6	2318.5	2333.3	2341.3	2348.1	2338.6	2319.4
52.5°	1978.8	1977.1	2111.7	2326.4	2372.4	2389.9	2403.8	2409.8	2407.3	2402.0	2386.3
55°	1906.7	1892.8	2009.1	2248.2	2318.5	2335.1	2355.1	2367.2	2379.4	2377.6	2365.6
57.5°	2004.8	1993.6	1994.5	2179.6	2248.2	2263.0	2276.0	2289.9	2293.5	2304.7	2305.6
60°	2289.9	2275.1	2156.1	2177.0	2246.4	2263.0	2264.6	2272.5	2273.4	2279.4	2280.3
62.5°	2700.9	2674.1	2492.3	2336.0	2360.3	2368.1	2374.2	2372.4	2369.0	2364.7	2364.7
65°	3151.2	3125.9	2892.1	2709.6	2639.3	2658.4	2628.0	2622.0	2615.0	2615.0	2607.2
67.5°	3686.5	3638.7	3457.8	3252.9	3151.2	3160.7	3174.6	3121.6	3102.5	3104.3	3063.4
70°	4232.3	4181.8	4102.6	4100.1	4151.3	4128.8	4064.5	4149.6	4048.8	4024.5	4015.9
72.5°	3930.6	3870.7	3887.1	4378.2	4838.8	4913.5	4984.9	5050.8	5110.0	5145.6	5150.8
73°	3699.5	3585.7	3703.8	4281.0	4791.9	4902.2	4990.9	5061.3	5124.7	5156.9	5176.8
75°	1847.5	1853.7	2435.9	3531.8	4187.9	4282.6	4420.8	4498.2	4612.9	4671.9	4619.8
77.5°	428.4	444.1	737.8	1676.3	2510.7	2646.1	2756.6	2869.5	3002.6	3052.0	3008.6
80°	151.3	158.1	259.8	637.0	1048.1	1122.8	1217.6	1341.8	1465.1	1495.6	1572.1
82.5°	79.9	87.8	137.4	276.4	447.5	489.3	513.7	564.9	608.3	634.5	648.3
85°	46.0	46.9	78.2	152.9	205.2	221.6	237.2	249.4	263.3	253.7	253.7
87.5°	18.2	20.0	40.0	72.1	99.0	110.4	110.4	110.4	109.5	96.5	87.8
90°	8.4	10.2	14.7	22.6	20.9	20.9	20.0	18.2	17.3	18.2	13.8
92.5°	4.0	4.0	4.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
95°	4.9	4.9	5.9	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
97.5°	6.8	6.8	7.8	7.8	8.4	8.4	8.5	8.6	8.7	8.8	8.8
100°	7.8	7.8	8.8	9.8	10.8	11.0	11.2	11.4	11.6	11.8	12.7
102.5°	10.8	10.8	12.8	17.7	22.1	23.0	23.9	24.7	25.6	26.5	27.8
105°	20.6	21.6	26.5	35.3	41.2	42.4	43.6	44.7	45.9	47.1	48.6
107.5°	40.2	41.2	48.1	57.0	64.3	65.8	67.2	68.7	70.2	71.7	73.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	30°	31°	32°	33°	34°	35°	36°
110°	64.8	66.7	72.7	85.4	92.7	94.2	95.7	97.2	98.6	100.1	101.3
112.5°	97.2	97.2	104.0	118.8	125.1	126.4	127.6	129.0	130.3	131.5	132.4
115°	137.4	136.5	144.3	156.0	160.4	161.3	162.2	163.1	164.0	164.9	165.5
117.5°	180.6	180.6	185.5	193.3	195.8	196.3	196.8	197.3	197.8	198.3	198.5
120°	220.8	218.8	221.8	228.7	230.7	231.0	231.4	231.9	232.2	232.6	233.2
122.5°	258.2	255.2	256.2	262.0	264.0	264.4	264.8	265.2	265.6	266.0	266.5
125°	292.5	288.5	290.5	293.5	296.4	297.0	297.6	298.1	298.8	299.3	299.9
127.5°	323.9	322.9	322.9	326.8	329.8	330.4	330.9	331.6	332.1	332.7	332.8
130°	356.3	354.3	355.3	359.2	361.2	361.6	361.9	362.4	362.7	363.2	363.4
132.5°	388.7	386.7	385.7	393.5	395.1	395.3	395.6	396.0	396.2	396.5	396.6
135°	421.0	418.1	418.1	424.0	425.4	425.8	426.1	426.3	426.7	427.0	427.1
137.5°	451.5	448.5	450.5	451.5	453.5	453.8	454.3	454.6	455.0	455.4	455.8
140°	479.0	476.0	478.0	480.0	481.0	481.1	481.3	481.5	481.7	481.9	482.5
142.5°	508.4	505.5	507.5	508.4	509.9	510.1	510.5	510.8	511.0	511.3	511.8
145°	539.8	535.9	534.0	536.8	538.4	538.6	538.9	539.3	539.5	539.8	539.9
147.5°	564.3	561.4	560.5	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.5
150°	584.0	581.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
152.5°	599.7	596.7	596.7	597.7	598.2	598.3	598.5	598.5	598.6	598.7	598.7
155°	617.3	613.5	613.5	615.4	616.9	617.1	617.5	617.8	618.0	618.3	618.1
157.5°	634.0	631.1	631.1	632.0	633.0	633.2	633.5	633.7	633.8	634.0	633.9
160°	650.7	647.8	646.8	643.8	643.4	643.3	643.2	643.1	643.0	642.8	642.8
162.5°	660.5	656.6	656.6	652.7	650.7	650.4	649.9	649.6	649.1	648.8	648.9
165°	668.4	665.5	663.5	663.5	662.1	661.7	661.4	661.2	660.8	660.5	660.5
167.5°	677.2	674.3	671.3	673.3	674.3	674.4	674.6	674.9	675.1	675.3	675.0
170°	685.0	682.2	679.2	679.2	679.7	679.7	679.8	679.9	680.1	680.2	679.9
172.5°	686.0	684.1	682.2	680.2	678.7	678.4	678.1	677.8	677.5	677.2	677.2
175°	687.0	685.0	684.1	682.2	680.2	679.7	679.4	679.0	678.6	678.2	678.1
177.5°	693.9	692.0	687.0	686.0	685.0	684.9	684.7	684.5	684.3	684.1	683.9
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



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CANDELA DISTRIBUTION (continued):

	37°	38°	39°	40°	41°	45°	55°	65°	75°	85°	90°
0°	890.8	890.8	890.8	890.8	890.8	890.8	890.8	890.8	890.8	890.8	890.8
2.5°	867.3	868.1	866.4	869.9	867.3	867.3	871.6	879.5	885.5	887.3	892.5
5°	843.0	843.9	843.9	844.7	843.9	845.6	853.4	860.4	872.5	878.6	886.4
7.5°	811.7	814.3	813.4	815.1	815.1	816.9	829.0	840.4	852.5	863.8	873.4
10°	774.2	776.0	779.5	777.8	777.8	783.1	796.1	812.6	827.2	843.9	855.2
12.5°	730.1	734.4	733.5	736.9	738.7	742.2	763.9	782.2	800.4	819.5	834.3
15°	695.2	697.8	699.6	700.5	700.5	708.2	730.1	752.6	776.9	799.5	815.1
17.5°	672.7	672.7	674.4	675.3	677.1	682.3	704.8	730.1	757.8	785.6	802.9
20°	659.5	659.5	660.4	661.3	661.3	667.4	688.3	716.9	747.4	783.1	803.8
22.5°	670.0	667.4	666.5	666.5	663.1	663.1	683.1	713.4	751.7	797.8	824.7
25°	741.3	733.5	721.2	718.7	714.3	693.5	690.9	725.7	772.6	829.9	870.7
27.5°	848.2	840.4	832.5	822.9	816.0	777.8	725.7	756.9	812.6	894.3	944.7
30°	988.0	972.4	961.2	950.8	920.3	878.6	797.8	805.6	874.2	983.7	1047.2
32.5°	1144.5	1128.0	1110.7	1086.3	1078.4	1010.8	907.3	886.4	952.5	1088.0	1154.1
35°	1295.7	1287.9	1275.8	1266.3	1247.9	1191.4	1049.8	983.7	1042.8	1210.6	1261.8
37.5°	1471.2	1456.5	1457.4	1449.5	1439.2	1391.4	1197.5	1101.1	1140.2	1327.9	1360.0
40°	1644.2	1640.8	1646.0	1632.8	1615.5	1551.2	1306.1	1187.1	1241.9	1440.9	1433.1
42.5°	1807.6	1810.3	1804.2	1789.3	1770.2	1662.4	1375.7	1260.1	1333.2	1540.0	1491.3
45°	1994.5	1984.8	1959.7	1933.6	1910.2	1758.1	1413.0	1341.8	1420.8	1646.9	1550.4
47.5°	2170.8	2133.5	2111.7	2071.9	2025.7	1845.0	1463.5	1427.9	1518.2	1747.7	1606.9
50°	2300.3	2265.5	2229.1	2180.5	2131.8	1920.6	1530.4	1525.1	1628.5	1860.6	1684.2
52.5°	2359.5	2327.3	2291.7	2242.1	2193.4	1975.4	1619.8	1619.8	1758.9	2010.0	1791.1
55°	2349.9	2326.4	2295.1	2250.0	2212.5	2004.8	1712.0	1724.2	1922.4	2171.7	1914.5
57.5°	2299.5	2286.5	2268.2	2236.9	2206.5	2027.5	1820.7	1828.5	2141.3	2327.3	2031.0
60°	2282.1	2276.8	2266.4	2248.2	2224.7	2077.0	1936.2	1953.6	2386.3	2469.8	2097.0
62.5°	2359.5	2349.0	2341.3	2322.9	2301.2	2198.6	2081.4	2086.5	2616.7	2487.1	2032.7
65°	2576.7	2557.6	2544.6	2520.3	2495.9	2382.0	2266.4	2210.0	2729.6	2324.6	1814.6
67.5°	3032.0	3000.8	2963.4	2917.3	2850.4	2747.8	2449.8	2227.3	2627.1	1969.3	1431.3
70°	3932.4	3864.6	3778.6	3680.4	3655.1	3356.2	2564.5	2098.7	2183.9	1375.7	949.0
72.5°	5142.1	5071.7	4995.3	4914.4	4754.5	4097.5	2514.2	1692.9	1358.2	707.3	451.8
73°	5162.1	5114.3	5022.2	4928.3	4797.9	4084.4	2459.4	1560.7	1197.5	557.1	370.2
75°	4629.3	4610.2	4519.8	4339.2	4228.7	3450.1	1811.1	904.6	524.0	344.1	240.7
77.5°	3004.2	2983.5	2932.2	2914.7	2711.4	2236.9	810.8	352.0	285.0	228.6	170.3
80°	1600.8	1503.4	1486.1	1416.5	1267.9	861.3	277.3	215.5	189.5	152.9	119.0
82.5°	649.1	607.4	591.8	536.2	504.1	258.2	139.1	149.5	126.9	90.4	73.0
85°	238.9	219.8	214.7	174.7	153.8	76.4	85.2	105.1	79.1	50.5	36.5
87.5°	82.6	71.2	61.7	47.8	44.4	31.4	46.9	57.3	50.5	30.5	17.3
90°	13.7	12.8	11.8	10.8	11.6	10.3	12.0	16.7	17.6	12.0	10.3
92.5°	5.9	5.9	5.9	5.9	5.9	5.9	6.8	6.8	5.9	5.9	5.9
95°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.8	6.8	6.8	6.8
97.5°	8.8	8.8	8.8	8.8	8.8	8.8	11.8	9.8	8.8	7.8	7.8
100°	13.6	14.5	15.3	16.2	17.1	20.6	28.5	25.5	22.5	18.7	18.7
102.5°	29.0	30.4	31.6	32.9	34.1	39.3	49.0	46.2	41.2	38.3	37.3
105°	50.0	51.6	53.0	54.4	56.0	61.8	70.7	68.7	63.8	59.8	59.8
107.5°	74.6	76.1	77.5	79.1	80.5	86.3	93.2	92.3	88.3	85.4	84.4



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CANDELA DISTRIBUTION (continued):

	37°	38°	39°	40°	41°	45°	55°	65°	75°	85°	90°
110°	102.5	103.7	104.8	106.0	107.2	111.9	117.8	118.8	116.8	113.8	114.8
112.5°	133.3	134.2	135.0	135.9	136.8	140.3	145.3	147.2	146.2	144.3	144.3
115°	166.1	166.6	167.3	167.8	168.4	170.8	175.7	178.7	175.7	173.7	174.7
117.5°	198.9	199.2	199.4	199.7	200.1	201.2	207.1	211.0	206.1	204.2	205.2
120°	233.8	234.4	235.0	235.5	236.2	238.5	241.5	245.3	240.5	238.5	238.5
122.5°	267.2	267.8	268.3	269.0	269.5	271.8	273.8	277.8	272.8	270.9	271.8
125°	300.3	300.8	301.3	301.8	302.3	304.3	307.2	309.2	304.3	304.3	304.3
127.5°	332.9	333.0	333.1	333.2	333.3	333.7	338.6	339.6	339.6	338.6	340.5
130°	363.5	363.7	363.9	364.2	364.4	365.1	370.0	374.0	374.0	372.0	373.0
132.5°	396.7	396.8	396.9	397.1	397.1	397.5	403.4	408.3	406.3	406.3	407.3
135°	427.3	427.5	427.8	428.0	428.1	428.9	434.8	439.7	438.7	441.7	442.7
137.5°	456.2	456.6	457.0	457.3	457.8	459.3	464.2	466.2	467.2	472.1	473.0
140°	483.1	483.6	484.3	484.8	485.4	487.8	490.7	492.7	494.7	499.5	501.5
142.5°	512.1	512.6	512.9	513.3	513.7	515.3	517.2	523.2	523.2	524.1	526.0
145°	540.0	540.2	540.2	540.3	540.4	540.8	545.7	551.6	550.6	547.7	549.7
147.5°	563.6	563.7	563.8	563.9	564.0	564.3	569.3	574.2	575.2	572.2	574.2
150°	582.0	582.0	582.0	582.0	582.0	582.0	586.0	588.9	591.8	594.8	598.7
152.5°	598.7	598.7	598.7	598.7	598.7	598.7	599.7	602.7	606.5	611.5	616.3
155°	617.9	617.8	617.6	617.3	617.1	616.3	614.4	619.3	624.2	626.2	629.2
157.5°	633.8	633.8	633.7	633.6	633.5	633.0	632.0	636.0	638.0	638.0	642.8
160°	642.8	642.8	642.8	642.8	642.8	642.8	645.8	651.7	648.8	647.8	653.7
162.5°	649.1	649.4	649.6	649.7	649.9	650.7	654.7	658.5	657.6	655.7	661.5
165°	660.5	660.5	660.5	660.5	660.5	660.5	659.5	664.5	667.4	665.5	669.3
167.5°	674.6	674.4	674.1	673.8	673.5	672.3	665.5	671.3	675.3	675.3	681.2
170°	679.7	679.6	679.4	679.2	679.0	678.2	673.3	676.2	681.2	683.1	688.0
172.5°	677.2	677.2	677.2	677.2	677.2	677.2	676.2	679.2	681.2	683.1	688.0
175°	678.0	678.0	677.8	677.7	677.6	677.2	677.2	682.2	683.1	681.2	686.0
177.5°	683.7	683.5	683.3	683.1	682.9	682.2	681.2	686.0	688.0	685.0	689.0
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	890.8	890.8	890.8	890.8	890.8	890.8	890.8	890.8	890.8	890.8
2.5°	894.3	897.8	904.6	909.8	914.3	920.3	922.0	925.5	921.2	926.4
5°	890.8	901.2	914.3	926.4	937.7	947.3	951.7	952.5	953.3	956.9
7.5°	882.0	897.8	918.6	935.0	952.5	958.5	961.2	962.1	956.0	958.5
10°	864.7	890.0	915.9	935.9	944.7	940.3	933.4	922.0	916.8	916.8
12.5°	845.6	877.7	908.2	919.4	911.6	895.1	875.9	855.2	847.3	847.3
15°	829.9	870.7	896.0	888.2	865.6	834.3	808.3	786.5	779.5	776.9
17.5°	821.2	867.3	876.8	852.5	814.3	775.1	749.1	731.0	724.8	724.8
20°	828.1	870.7	855.2	809.9	762.1	726.5	703.9	691.8	685.7	688.3
22.5°	857.7	883.8	836.1	768.2	710.0	679.6	669.1	661.3	660.4	662.2
25°	907.3	901.2	819.5	724.8	661.3	639.6	638.8	636.1	635.3	634.5
27.5°	971.6	922.9	799.5	676.2	612.6	602.2	607.4	606.5	605.6	606.5
30°	1056.8	942.1	769.9	623.2	566.7	566.7	574.5	571.8	568.4	569.3
32.5°	1135.9	956.0	724.8	564.0	530.1	531.9	534.4	527.6	518.8	520.6
35°	1203.5	956.0	663.9	511.0	492.7	492.7	494.4	488.4	481.4	478.9
37.5°	1260.1	936.8	587.5	471.0	462.4	462.4	469.3	463.2	450.2	447.5
40°	1294.0	895.1	517.1	441.4	447.5	448.4	438.8	428.4	416.3	413.7
42.5°	1315.7	834.3	461.5	420.7	438.0	431.1	408.5	391.9	391.0	394.5
45°	1334.8	765.6	417.2	399.7	427.5	412.8	382.4	366.8	372.0	375.4
47.5°	1353.9	696.9	381.5	376.3	408.5	397.9	365.9	348.5	345.8	351.1
50°	1399.1	601.3	340.6	348.5	384.9	381.5	351.1	331.1	314.6	313.7
52.5°	1459.9	473.7	306.0	324.2	366.8	372.0	334.6	315.5	292.8	289.3
55°	1527.7	363.3	277.3	305.1	349.4	358.1	328.5	299.9	275.5	272.0
57.5°	1547.8	286.8	250.3	278.0	325.8	344.9	319.0	281.6	263.3	259.8
60°	1479.1	238.1	227.7	255.5	302.4	331.9	304.2	267.7	251.2	248.5
62.5°	1269.7	210.3	215.5	240.7	285.0	319.8	292.8	257.3	244.2	242.5
65°	969.0	191.2	205.2	228.6	269.4	308.5	285.0	253.0	242.5	240.7
67.5°	608.3	177.2	194.7	215.5	253.7	296.4	278.9	247.7	239.8	237.2
70°	337.1	162.5	180.8	200.7	238.1	285.0	271.2	239.8	238.9	233.8
72.5°	205.2	146.9	166.0	185.1	220.7	271.2	257.3	230.2	221.6	211.2
73°	195.5	145.2	162.5	181.6	216.4	267.7	254.6	226.8	218.1	207.7
75°	158.1	130.3	148.6	165.1	200.7	253.7	239.8	214.7	200.7	193.0
77.5°	116.4	111.2	128.5	144.3	180.8	234.6	219.0	196.4	179.9	175.6
80°	86.1	92.2	108.7	122.5	159.0	215.5	197.3	175.6	165.1	159.9
82.5°	58.2	71.2	86.9	98.3	140.8	194.7	174.7	153.8	160.8	133.8
85°	33.9	49.6	62.6	76.4	113.0	173.8	152.2	131.2	114.7	103.5
87.5°	22.5	27.8	38.3	52.1	81.7	136.5	120.8	102.6	74.6	74.6
90°	9.5	12.3	14.0	12.9	18.1	66.0	47.8	54.7	13.7	12.8
92.5°	5.9	5.9	6.8	6.8	5.9	5.9	5.9	4.9	4.0	4.0
95°	6.8	6.8	7.8	6.8	6.8	6.8	6.8	5.9	4.9	4.9
97.5°	7.8	8.8	9.8	11.8	8.8	8.8	7.8	7.8	6.8	6.8
100°	18.7	22.5	25.5	28.5	20.6	11.8	9.8	8.8	7.8	7.8
102.5°	38.3	41.2	46.2	49.0	39.3	26.5	17.7	12.8	10.8	10.8
105°	59.8	63.8	68.7	70.7	61.8	47.1	35.3	26.5	21.6	20.6
107.5°	85.4	88.3	92.3	93.2	86.3	71.7	57.0	48.1	41.2	40.2



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	113.8	116.8	118.8	117.8	111.9	100.1	85.4	72.7	66.7	64.8
112.5°	144.3	146.2	147.2	145.3	140.3	131.5	118.8	104.0	97.2	97.2
115°	173.7	175.7	178.7	175.7	170.8	164.9	156.0	144.3	136.5	137.4
117.5°	204.2	206.1	211.0	207.1	201.2	198.3	193.3	185.5	180.6	180.6
120°	238.5	240.5	245.3	241.5	238.5	232.6	228.7	221.8	218.8	220.8
122.5°	270.9	272.8	277.8	273.8	271.8	266.0	262.0	256.2	255.2	258.2
125°	304.3	304.3	309.2	307.2	304.3	299.3	293.5	290.5	288.5	292.5
127.5°	338.6	339.6	339.6	338.6	333.7	332.7	326.8	322.9	322.9	323.9
130°	372.0	374.0	374.0	370.0	365.1	363.2	359.2	355.3	354.3	356.3
132.5°	406.3	406.3	408.3	403.4	397.5	396.5	393.5	385.7	386.7	388.7
135°	441.7	438.7	439.7	434.8	428.9	427.0	424.0	418.1	418.1	421.0
137.5°	472.1	467.2	466.2	464.2	459.3	455.4	451.5	450.5	448.5	451.5
140°	499.5	494.7	492.7	490.7	487.8	481.9	480.0	478.0	476.0	479.0
142.5°	524.1	523.2	523.2	517.2	515.3	511.3	508.4	507.5	505.5	508.4
145°	547.7	550.6	551.6	545.7	540.8	539.8	536.8	534.0	535.9	539.8
147.5°	572.2	575.2	574.2	569.3	564.3	563.3	563.3	560.5	561.4	564.3
150°	594.8	591.8	588.9	586.0	582.0	582.0	582.0	582.0	581.0	584.0
152.5°	611.5	606.5	602.7	599.7	598.7	598.7	597.7	596.7	596.7	599.7
155°	626.2	624.2	619.3	614.4	616.3	618.3	615.4	613.5	613.5	617.3
157.5°	638.0	638.0	636.0	632.0	633.0	634.0	632.0	631.1	631.1	634.0
160°	647.8	648.8	651.7	645.8	642.8	642.8	643.8	646.8	647.8	650.7
162.5°	655.7	657.6	658.5	654.7	650.7	648.8	652.7	656.6	656.6	660.5
165°	665.5	667.4	664.5	659.5	660.5	660.5	663.5	663.5	665.5	668.4
167.5°	675.3	675.3	671.3	665.5	672.3	675.3	673.3	671.3	674.3	677.2
170°	683.1	681.2	676.2	673.3	678.2	680.2	679.2	679.2	682.2	685.0
172.5°	683.1	681.2	679.2	676.2	677.2	677.2	680.2	682.2	684.1	686.0
175°	681.2	683.1	682.2	677.2	677.2	678.2	682.2	684.1	685.0	687.0
177.5°	685.0	688.0	686.0	681.2	682.2	684.1	686.0	687.0	692.0	693.9
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0

(END OF REPORT)