

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: P226641

Luminaire Tested: **ISW-AF-1200-LED-E1-T4W-8030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226641  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35944)-DOWNLIGHT AND  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISW-AF-1200-LED-E1-T4W-8030-ULG  
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE, WITH UPLIGHT GLOW  
Light Source: (16) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7365.9 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type IV - Medium - 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

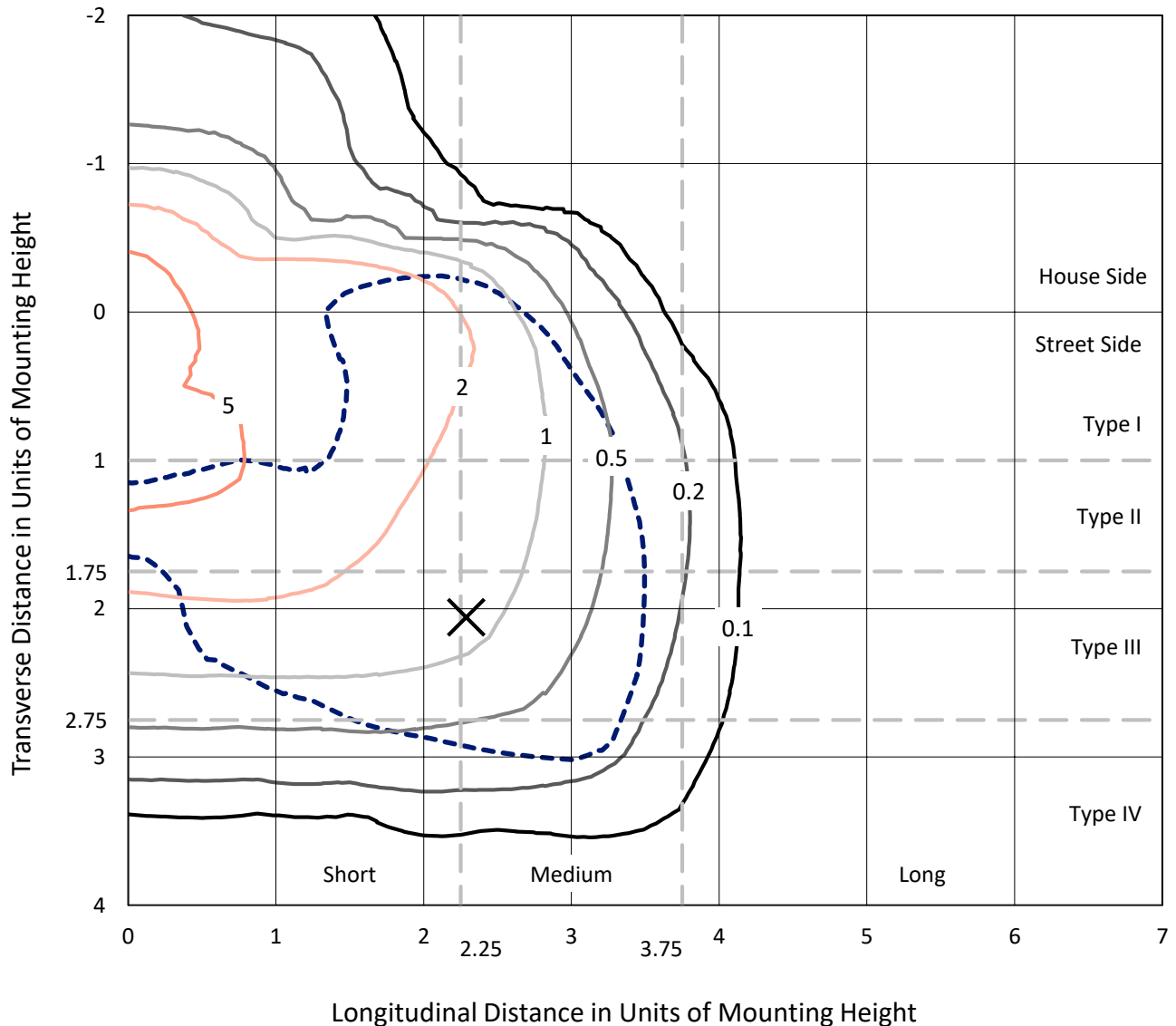


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

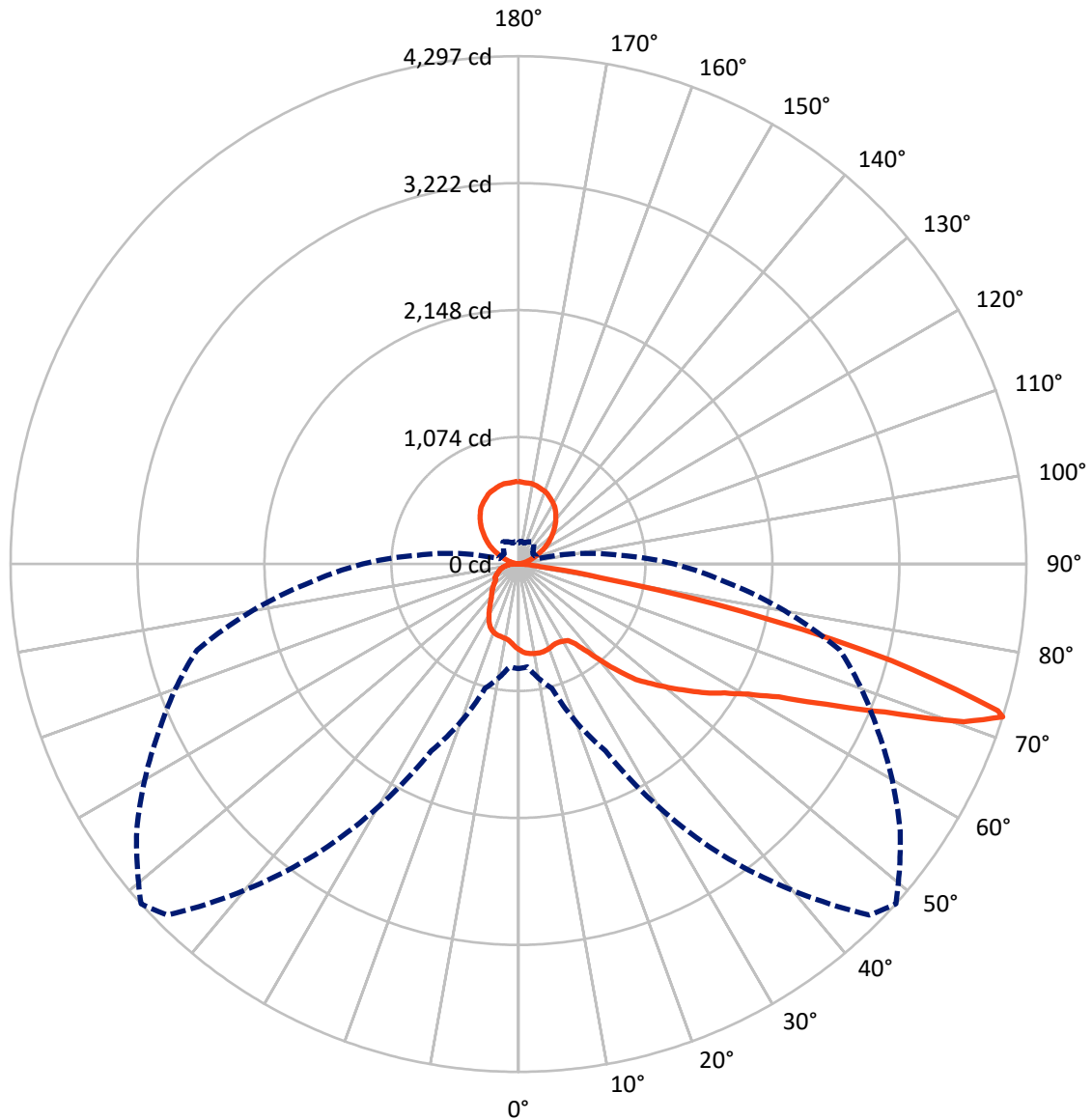


Based on 10 foot mounting height. Maximum calculated value = 8.1 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 72-Deg Vertical

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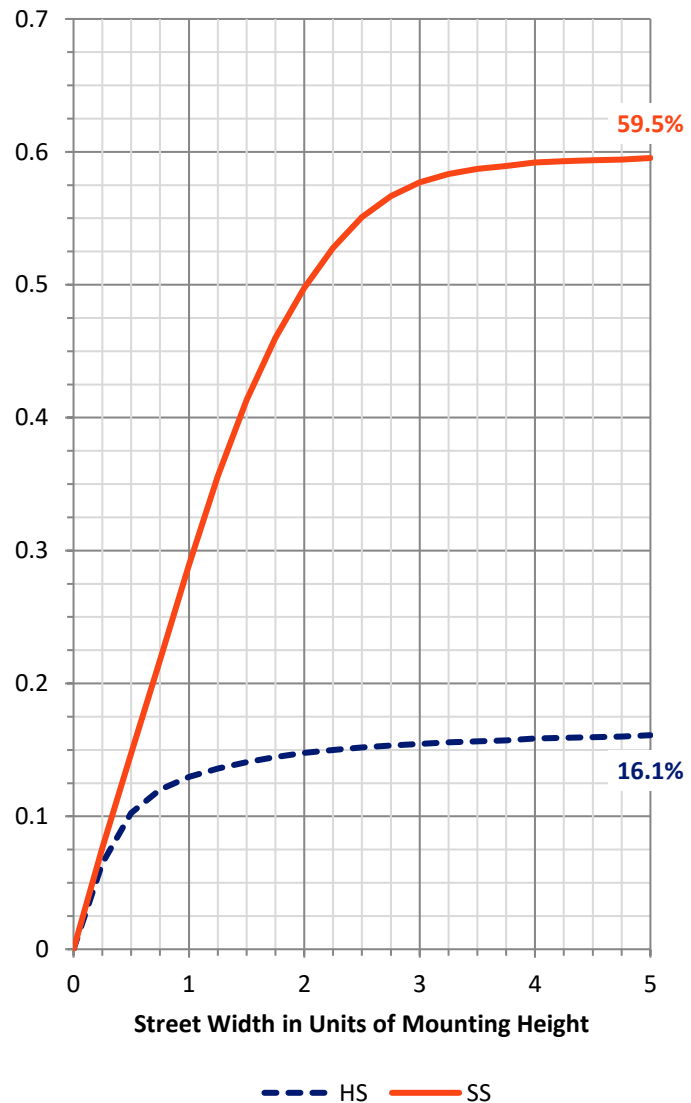
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1223.3	870.1	2093.3
	% Fixture	16.6	11.8	28.4
<b>Street Side</b>	Lumens	4404.1	868.5	5272.5
	% Fixture	59.8	11.8	71.6
<b>Total</b>	Lumens	5627.3	1738.6	7365.9
	% Fixture	76.4	23.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.5	0.9
10°-20°	200.0	2.7
20°-30°	308.5	4.2
30°-40°	462.3	6.3
40°-50°	769.9	10.5
50°-60°	1203.2	16.3
60°-70°	1589.2	21.6
70°-80°	919.3	12.5
80°-90°	106.4	1.4
90°-100°	12.7	0.2
100°-110°	57.4	0.8
110°-120°	166.1	2.3
120°-130°	273.2	3.7
130°-140°	336.8	4.6
140°-150°	344.6	4.7
150°-160°	290.3	3.9
160°-170°	191.2	2.6
170°-180°	66.3	0.9
0°-90°	5627.3	76.4
0°-180°	7365.9	100.0



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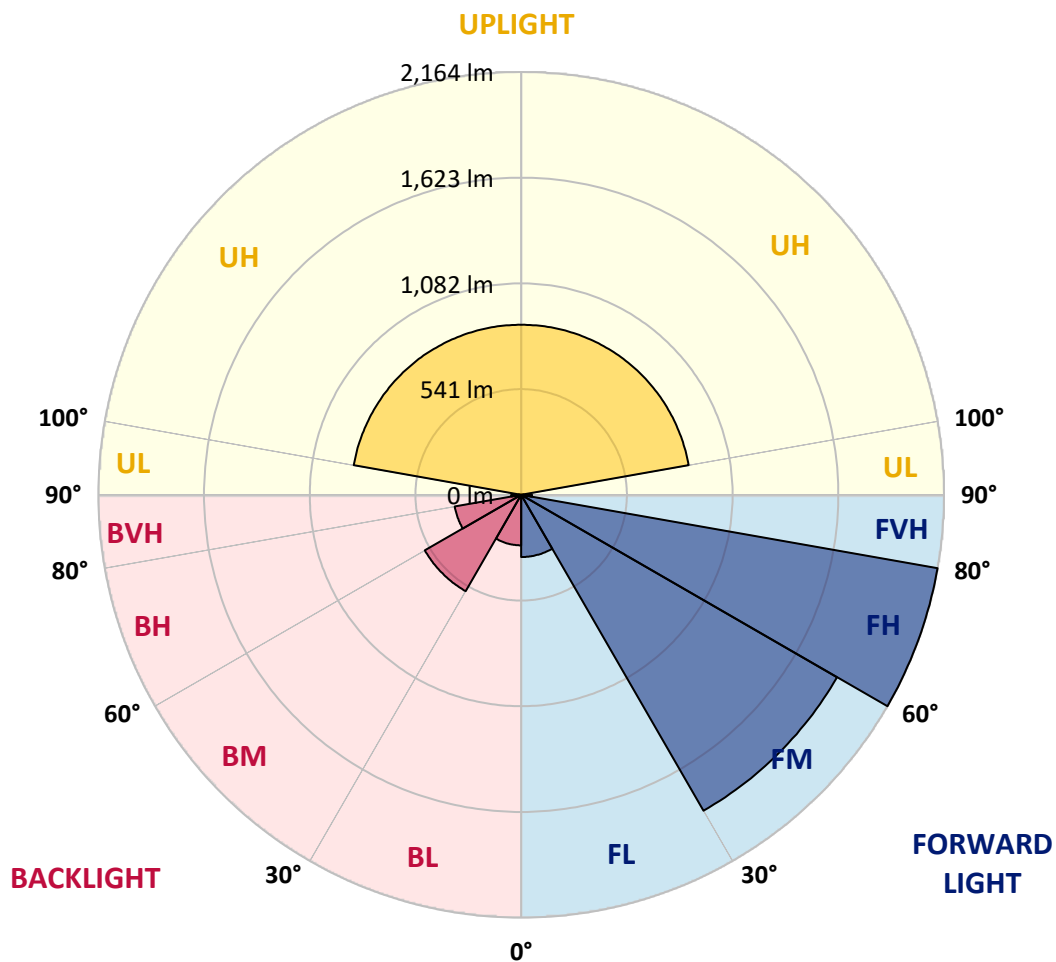
CATALOG NUMBER: ISW-AF-1200-LED-E1-T4W-8030-ULG

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	318.3	4.3			
FM	(30°-60°)	1866.4	25.3			
FH	(60°-80°)	2163.6	29.4			G2/5000
FVH	(80°-90°)	55.8	0.8			G1/100
BL	(0°-30°)	258.7	3.5	B1/500		
BM	(30°-60°)	569.0	7.7	B1/1000		
BH	(60°-80°)	345.0	4.7	B1/500		G1/500
BVH	(80°-90°)	50.6	0.7			G1/100
UL	(90°-100°)	12.7	0.2		U2/50	
UH	(100°-180°)	870.1	11.8		U4/1000	

**BUG Rating: B1-U5-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	724.2	724.2	724.2	724.2	724.2	724.2	724.2	724.2	724.2	724.2	724.2
2.5°	762.6	761.8	761.8	755.3	752.8	748.7	745.5	740.6	735.7	730.0	722.6
5°	799.4	801.8	798.5	788.7	776.5	763.4	758.5	747.1	731.6	717.7	704.6
7.5°	834.5	835.3	826.3	810.0	791.2	770.8	764.2	748.7	731.6	712.8	694.0
10°	859.8	860.6	847.5	824.7	799.4	776.5	769.1	753.6	732.4	712.0	688.3
12.5°	874.5	875.3	855.7	832.0	801.8	778.9	772.4	756.1	734.0	707.9	681.8
15°	872.0	874.5	858.1	832.0	800.2	779.8	771.6	757.7	730.0	703.8	676.1
17.5°	855.7	859.0	845.9	817.3	792.0	775.7	766.7	752.8	725.9	698.1	667.9
20°	823.9	827.9	822.2	794.5	777.3	764.2	758.5	745.5	720.2	691.6	660.6
22.5°	787.9	792.0	790.4	767.5	759.4	752.8	747.1	737.3	715.3	686.7	657.3
25°	761.8	765.1	762.6	743.0	745.5	745.5	742.2	734.9	714.4	688.3	657.3
27.5°	805.1	805.1	783.8	743.8	739.8	747.1	745.5	741.4	725.1	696.5	663.8
30°	963.5	951.2	912.9	812.4	761.0	757.7	756.9	754.5	739.8	714.4	684.2
32.5°	1140.7	1128.4	1082.7	956.9	850.0	779.8	772.4	773.2	769.1	745.5	715.3
35°	1298.2	1296.6	1260.7	1124.3	988.0	857.3	827.9	808.3	806.7	796.9	773.2
37.5°	1425.6	1425.6	1428.9	1273.7	1137.4	980.6	930.8	868.8	868.8	863.0	848.3
40°	1571.0	1577.5	1584.8	1409.3	1297.4	1127.6	1071.3	977.4	948.8	957.8	961.0
42.5°	1762.0	1770.2	1765.3	1576.7	1443.6	1303.1	1233.7	1120.2	1050.0	1064.7	1099.0
45°	1891.0	1894.3	1929.4	1751.4	1627.3	1451.7	1393.0	1237.0	1167.6	1197.8	1258.2
47.5°	2037.2	2045.3	2051.1	1949.8	1842.9	1619.9	1512.2	1350.5	1305.6	1351.3	1446.8
50°	2180.1	2169.5	2185.0	2180.9	2047.0	1769.4	1641.2	1456.6	1459.9	1522.0	1678.7
52.5°	2304.2	2268.3	2304.2	2349.1	2309.9	1922.9	1773.5	1581.6	1628.9	1704.9	1952.3
55°	2399.7	2313.2	2373.6	2501.0	2492.0	2058.4	1924.5	1748.1	1827.3	1931.0	2284.6
57.5°	2204.6	2215.2	2381.7	2603.0	2598.9	2195.6	2056.8	1956.3	2053.5	2169.5	2678.1
60°	2022.5	2069.8	2327.0	2619.4	2673.2	2345.0	2234.8	2193.1	2283.0	2424.2	3055.4
62.5°	1926.1	1971.0	2238.0	2589.1	2791.6	2566.3	2474.0	2442.2	2564.6	2723.0	3391.8
65°	1956.3	1984.1	2232.3	2634.9	2928.0	2901.0	2861.0	2808.0	2869.2	3017.8	3543.6
67.5°	1871.4	1917.2	2185.0	2715.7	3177.0	3309.3	3342.8	3285.6	3234.2	3213.8	3322.4
70°	1393.0	1437.1	1717.9	2381.7	3381.2	4018.0	3997.6	3806.6	3460.4	3171.3	2595.7
72°	885.1	872.8	1087.6	1744.9	3005.6	4200.1	4296.5	3942.9	3357.5	2816.1	1762.8
72.5°	643.4	701.4	902.2	1551.4	2855.3	4100.5	4240.9	3898.8	3222.7	2660.2	1550.5
75°	156.8	165.8	216.4	556.0	1672.2	3085.6	3261.9	3012.1	2352.4	1579.1	687.5
77.5°	106.1	110.2	142.9	196.0	491.5	1759.6	1935.9	1663.2	1052.5	537.3	306.2
80°	79.2	81.7	103.7	138.8	204.1	600.1	707.9	562.6	262.1	298.0	218.0
82.5°	55.5	57.2	78.4	102.1	135.5	140.4	187.0	206.6	169.8	195.1	127.4
85°	38.4	38.4	57.2	70.2	85.7	69.4	74.3	103.7	115.1	115.9	77.6
87.5°	20.4	22.9	33.5	44.9	44.9	31.8	35.1	53.1	64.5	69.4	46.5
90°	12.3	12.3	20.9	25.1	18.6	15.2	14.3	17.6	24.5	31.0	21.7
92.5°	4.0	4.0	5.0	6.0	6.0	6.0	6.3	7.0	7.0	6.0	6.0
95°	5.0	5.0	6.0	7.0	7.0	7.0	7.0	7.0	8.0	7.0	7.0
97.5°	7.0	7.0	8.0	8.0	9.0	9.0	9.9	12.0	10.0	9.0	8.0
100°	8.0	8.0	9.0	10.0	12.0	21.0	23.4	29.0	26.0	23.0	19.0
102.5°	11.0	11.0	13.0	18.0	27.0	40.0	43.0	50.0	47.0	42.0	39.0
105°	21.0	22.0	27.0	36.0	48.0	63.0	65.7	72.0	70.0	65.0	61.0
107.5°	41.0	42.0	49.0	58.0	73.0	88.0	90.1	95.0	94.0	90.0	87.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
110°	66.0	68.0	74.0	87.0	102.0	114.0	115.8	120.0	121.0	119.0	116.0
112.5°	99.0	99.0	106.0	121.0	134.0	143.0	144.5	148.0	150.0	149.0	147.0
115°	140.0	139.0	147.0	159.0	168.0	174.0	175.5	179.0	182.0	179.0	177.0
117.5°	184.0	184.0	189.0	197.0	202.0	205.0	206.8	211.0	215.0	210.0	208.0
120°	225.0	223.0	226.0	233.0	237.0	243.0	243.9	246.0	250.0	245.0	243.0
122.5°	263.0	260.0	261.0	267.0	271.0	277.0	277.6	279.0	283.0	278.0	276.0
125°	298.0	294.0	296.0	299.0	305.0	310.0	310.9	313.0	315.0	310.0	310.0
127.5°	330.0	329.0	329.0	333.0	339.0	340.0	341.5	345.0	346.0	346.0	345.0
130°	363.0	361.0	362.0	366.0	370.0	372.0	373.5	377.0	381.0	381.0	379.0
132.5°	396.0	394.0	393.0	401.0	404.0	405.0	406.8	411.0	416.0	414.0	414.0
135°	429.0	426.0	426.0	432.0	435.0	437.0	438.8	443.0	448.0	447.0	450.0
137.5°	460.0	457.0	459.0	460.0	464.0	468.0	469.5	473.0	475.0	476.0	481.0
140°	488.0	485.0	487.0	489.0	491.0	497.0	497.9	500.0	502.0	504.0	509.0
142.5°	518.0	515.0	517.0	518.0	521.0	525.0	525.6	527.0	533.0	533.0	534.0
145°	550.0	546.0	544.0	547.0	550.0	551.0	552.5	556.0	562.0	561.0	558.0
147.5°	575.0	572.0	571.0	574.0	574.0	575.0	576.5	580.0	585.0	586.0	583.0
150°	595.0	592.0	593.0	593.0	593.0	593.0	594.2	597.0	600.0	603.0	606.0
152.5°	611.0	608.0	608.0	609.0	610.0	610.0	610.3	611.0	614.0	618.0	623.0
155°	629.0	625.0	625.0	627.0	630.0	628.0	627.4	626.0	631.0	636.0	638.0
157.5°	646.0	643.0	643.0	644.0	646.0	645.0	644.7	644.0	648.0	650.0	650.0
160°	663.0	660.0	659.0	656.0	655.0	655.0	655.9	658.0	664.0	661.0	660.0
162.5°	673.0	669.0	669.0	665.0	661.0	663.0	664.2	667.0	671.0	670.0	668.0
165°	681.0	678.0	676.0	676.0	673.0	673.0	672.7	672.0	677.0	680.0	678.0
167.5°	690.0	687.0	684.0	686.0	688.0	685.0	682.9	678.0	684.0	688.0	688.0
170°	698.0	695.0	692.0	692.0	693.0	691.0	689.5	686.0	689.0	694.0	696.0
172.5°	699.0	697.0	695.0	693.0	690.0	690.0	689.7	689.0	692.0	694.0	696.0
175°	700.0	698.0	697.0	695.0	691.0	690.0	690.0	690.0	695.0	696.0	694.0
177.5°	707.0	705.0	700.0	699.0	697.0	695.0	694.7	694.0	699.0	701.0	698.0
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	724.2	724.2	724.2	724.2	724.2	724.2	724.2	724.2	724.2	724.2	724.2
2.5°	721.0	716.1	709.5	706.3	704.6	701.4	698.1	696.5	696.5	693.2	694.0
5°	698.1	690.8	681.8	675.3	674.4	674.4	676.1	676.1	676.9	674.4	677.7
7.5°	686.7	678.5	665.5	658.1	652.4	651.6	654.8	661.4	664.6	662.2	665.5
10°	678.5	669.5	654.8	645.9	641.8	640.1	642.6	649.1	659.7	659.7	663.0
12.5°	670.4	658.9	644.2	637.7	634.4	635.2	638.5	643.4	654.8	658.9	660.6
15°	662.2	649.1	636.9	627.9	627.9	630.3	634.4	640.1	650.8	658.1	659.7
17.5°	654.0	641.0	630.3	623.0	623.0	626.3	630.3	637.7	645.0	655.7	655.7
20°	646.7	636.1	622.2	615.6	614.8	617.3	622.2	629.5	635.2	645.9	646.7
22.5°	642.6	629.5	616.5	606.7	602.6	600.9	605.8	613.2	618.9	629.5	631.2
25°	641.0	626.3	609.9	592.0	581.4	578.1	580.5	589.5	594.4	602.6	605.0
27.5°	646.7	632.8	607.5	574.8	552.8	543.8	546.2	552.0	553.6	562.6	566.7
30°	666.3	649.9	612.4	556.9	516.8	500.5	500.5	501.3	503.8	511.1	511.9
32.5°	698.1	682.6	627.1	538.1	480.1	457.2	451.5	447.4	447.4	446.6	447.4
35°	756.9	743.8	652.4	516.8	440.1	414.8	400.9	393.6	386.2	382.9	382.1
37.5°	841.8	830.4	688.3	492.4	405.0	379.7	362.5	347.8	339.7	338.8	342.9
40°	968.4	956.9	728.3	464.6	371.5	352.7	334.8	319.3	310.3	311.1	315.2
42.5°	1124.3	1089.2	771.6	427.0	344.6	334.8	315.2	302.1	293.1	288.2	287.4
45°	1306.4	1247.6	812.4	391.9	315.2	319.3	300.5	285.8	274.3	261.3	259.6
47.5°	1533.4	1406.0	848.3	356.8	283.3	302.9	285.0	271.1	253.9	238.4	236.0
50°	1770.2	1588.1	879.4	319.3	254.7	285.0	269.4	250.7	227.0	213.1	213.1
52.5°	2043.7	1806.9	919.4	277.6	232.7	265.4	249.9	225.4	205.8	204.1	204.1
55°	2348.3	2036.4	947.1	245.0	215.6	244.1	236.8	229.4	222.9	224.5	225.4
57.5°	2666.7	2275.6	922.7	222.1	201.7	239.2	260.5	250.7	230.3	229.4	228.6
60°	2941.1	2461.8	787.1	207.4	191.1	247.4	279.2	250.7	230.3	240.9	241.7
62.5°	3120.7	2549.9	524.2	188.6	175.5	233.5	272.7	243.3	231.1	261.3	263.7
65°	3096.2	2451.2	301.3	175.5	165.8	214.7	263.7	234.3	215.6	232.7	227.8
67.5°	2731.2	2054.3	218.0	169.8	158.4	201.7	247.4	221.3	200.9	222.1	213.1
70°	1962.9	1398.7	187.8	164.9	153.5	186.2	236.0	213.1	192.7	207.4	193.5
72°	1317.0	850.8	172.3	160.9	148.6	176.4	227.8	206.6	185.3	193.5	178.0
72.5°	1121.1	671.2	168.2	159.2	147.0	173.9	225.4	204.9	183.7	191.9	177.2
75°	418.9	262.9	149.4	147.0	135.5	161.7	215.6	197.6	175.5	173.1	166.6
77.5°	215.6	166.6	127.4	129.8	121.7	147.8	204.9	186.2	161.7	152.7	149.4
80°	156.8	120.8	102.9	110.2	103.7	133.1	190.2	169.0	147.0	137.2	133.1
82.5°	98.8	75.1	78.4	87.4	88.2	117.6	173.1	151.9	130.6	122.5	115.9
85°	47.4	44.9	55.5	64.5	71.0	99.6	158.4	134.7	114.3	98.0	98.8
87.5°	25.3	34.3	33.5	43.3	54.7	81.7	140.4	110.2	91.4	73.5	74.3
90°	12.7	16.0	18.8	26.1	29.0	42.1	98.6	70.9	68.2	31.1	27.9
92.5°	6.0	6.0	6.0	7.0	7.0	6.0	6.0	6.0	5.0	4.0	4.0
95°	7.0	7.0	7.0	8.0	7.0	7.0	7.0	7.0	6.0	5.0	5.0
97.5°	8.0	8.0	9.0	10.0	12.0	9.0	9.0	8.0	8.0	7.0	7.0
100°	19.0	19.0	23.0	26.0	29.0	21.0	12.0	10.0	9.0	8.0	8.0
102.5°	38.0	39.0	42.0	47.0	50.0	40.0	27.0	18.0	13.0	11.0	11.0
105°	61.0	61.0	65.0	70.0	72.0	63.0	48.0	36.0	27.0	22.0	21.0
107.5°	86.0	87.0	90.0	94.0	95.0	88.0	73.0	58.0	49.0	42.0	41.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	117.0	116.0	119.0	121.0	120.0	114.0	102.0	87.0	74.0	68.0	66.0
112.5°	147.0	147.0	149.0	150.0	148.0	143.0	134.0	121.0	106.0	99.0	99.0
115°	178.0	177.0	179.0	182.0	179.0	174.0	168.0	159.0	147.0	139.0	140.0
117.5°	209.0	208.0	210.0	215.0	211.0	205.0	202.0	197.0	189.0	184.0	184.0
120°	243.0	243.0	245.0	250.0	246.0	243.0	237.0	233.0	226.0	223.0	225.0
122.5°	277.0	276.0	278.0	283.0	279.0	277.0	271.0	267.0	261.0	260.0	263.0
125°	310.0	310.0	310.0	315.0	313.0	310.0	305.0	299.0	296.0	294.0	298.0
127.5°	347.0	345.0	346.0	346.0	345.0	340.0	339.0	333.0	329.0	329.0	330.0
130°	380.0	379.0	381.0	381.0	377.0	372.0	370.0	366.0	362.0	361.0	363.0
132.5°	415.0	414.0	414.0	416.0	411.0	405.0	404.0	401.0	393.0	394.0	396.0
135°	451.0	450.0	447.0	448.0	443.0	437.0	435.0	432.0	426.0	426.0	429.0
137.5°	482.0	481.0	476.0	475.0	473.0	468.0	464.0	460.0	459.0	457.0	460.0
140°	511.0	509.0	504.0	502.0	500.0	497.0	491.0	489.0	487.0	485.0	488.0
142.5°	536.0	534.0	533.0	533.0	527.0	525.0	521.0	518.0	517.0	515.0	518.0
145°	560.0	558.0	561.0	562.0	556.0	551.0	550.0	547.0	544.0	546.0	550.0
147.5°	585.0	583.0	586.0	585.0	580.0	575.0	574.0	574.0	571.0	572.0	575.0
150°	610.0	606.0	603.0	600.0	597.0	593.0	593.0	593.0	593.0	592.0	595.0
152.5°	628.0	623.0	618.0	614.0	611.0	610.0	610.0	609.0	608.0	608.0	611.0
155°	641.0	638.0	636.0	631.0	626.0	628.0	630.0	627.0	625.0	625.0	629.0
157.5°	655.0	650.0	650.0	648.0	644.0	645.0	646.0	644.0	643.0	643.0	646.0
160°	666.0	660.0	661.0	664.0	658.0	655.0	655.0	656.0	659.0	660.0	663.0
162.5°	674.0	668.0	670.0	671.0	667.0	663.0	661.0	665.0	669.0	669.0	673.0
165°	682.0	678.0	680.0	677.0	672.0	673.0	673.0	676.0	676.0	678.0	681.0
167.5°	694.0	688.0	688.0	684.0	678.0	685.0	688.0	686.0	684.0	687.0	690.0
170°	701.0	696.0	694.0	689.0	686.0	691.0	693.0	692.0	692.0	695.0	698.0
172.5°	701.0	696.0	694.0	692.0	689.0	690.0	690.0	693.0	695.0	697.0	699.0
175°	699.0	694.0	696.0	695.0	690.0	690.0	691.0	695.0	697.0	698.0	700.0
177.5°	702.0	698.0	701.0	699.0	694.0	695.0	697.0	699.0	700.0	705.0	707.0
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0

(END OF REPORT)