

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: P162295

Luminaire Tested: **ECM-E04-LED-E1-SL2-HSS-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P162295  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ECM-E04-LED-E1-SL2-HSS-8030  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (84) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5885.3 lumens  
Efficiency: N/A  
Efficacy: 60.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G2

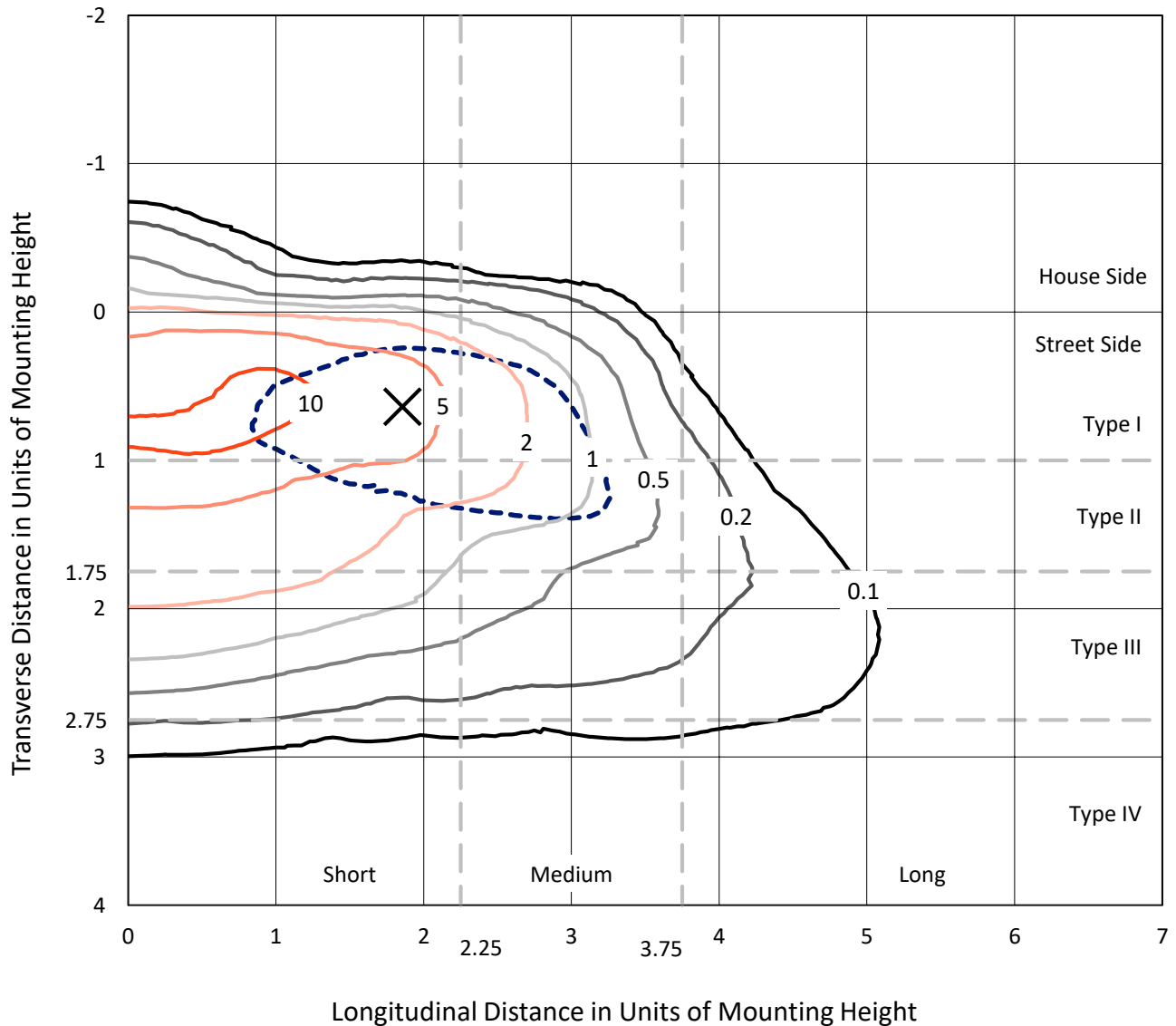
Input Watts (W): 97.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

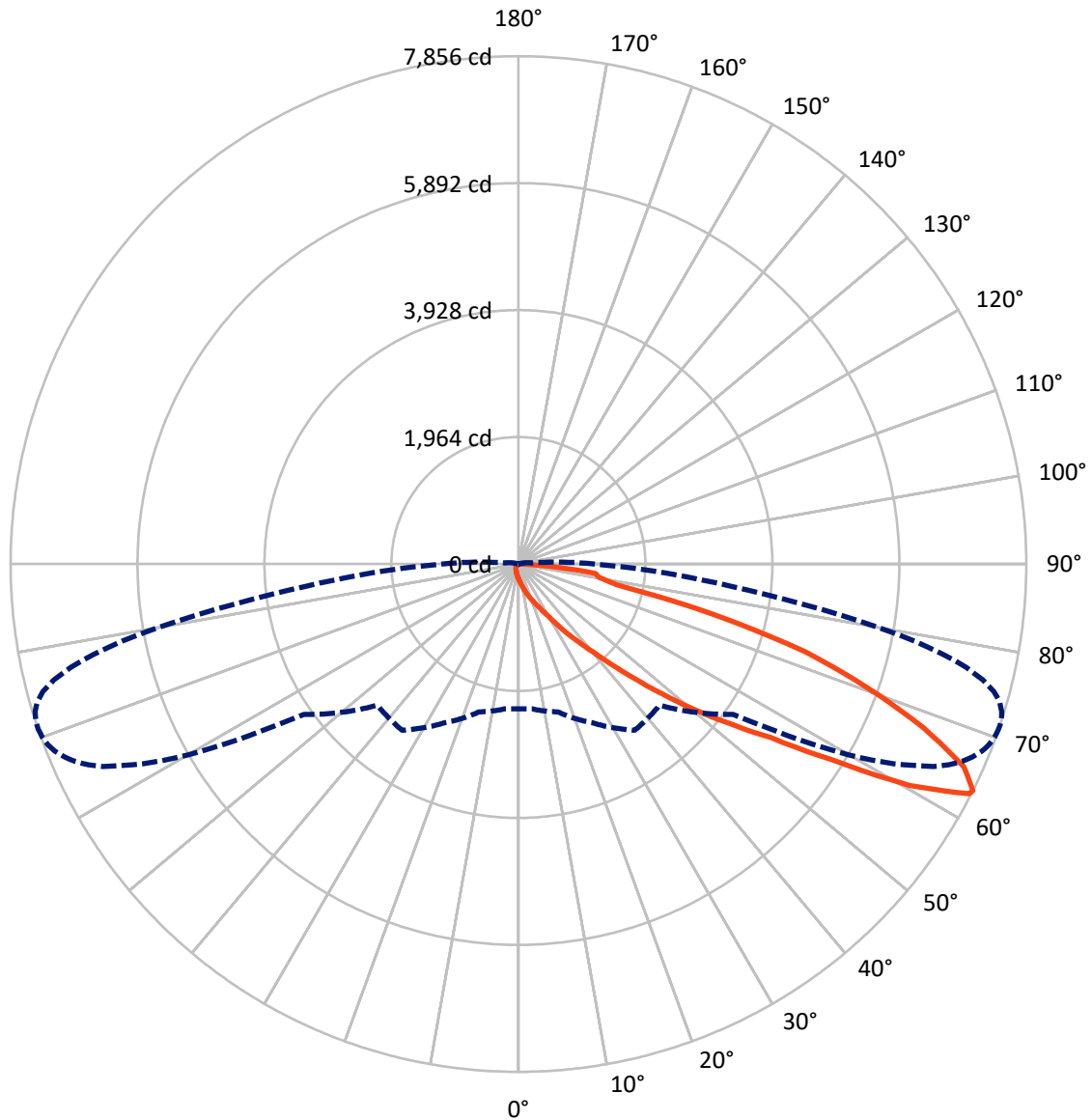
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.4 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	125.0	0.0	125.0
	% Fixture	2.1	0.0	2.1
<b>Street Side</b>	Lumens	5760.3	0.0	5760.3
	% Fixture	97.9	0.0	97.9
<b>Total</b>	Lumens	5885.3	0.0	5885.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.0	0.4
10°-20°	96.8	1.6
20°-30°	196.6	3.3
30°-40°	480.2	8.2
40°-50°	1074.0	18.2
50°-60°	1510.1	25.7
60°-70°	1775.8	30.2
70°-80°	641.2	10.9
80°-90°	85.8	1.5
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°	5885.3	100.0
0°-180°	5885.3	100.0



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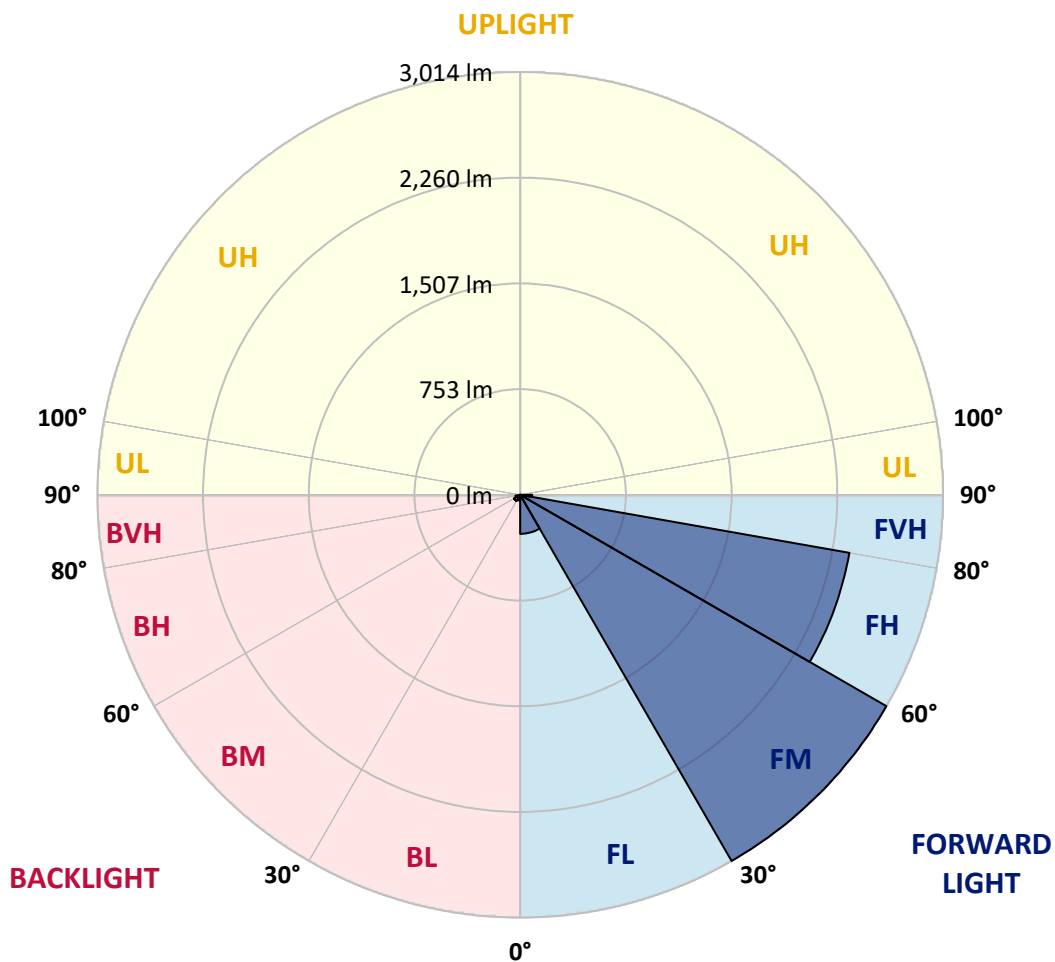
CATALOG NUMBER: ECM-E04-LED-E1-SL2-HSS-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	278.1	4.7			
FM	(30°-60°)	3013.9	51.2			
FH	(60°-80°)	2382.7	40.5			G2/5000
FVH	(80°-90°)	85.6	1.5			G1/100
BL	(0°-30°)	40.2	0.7	B0/110		
BM	(30°-60°)	50.4	0.9	B0/220		
BH	(60°-80°)	34.3	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7
2.5°	295.3	298.5	296.4	291.0	284.6	276.0	268.5	268.5	267.5	264.2	265.4
5°	387.3	388.3	384.1	371.2	359.5	341.3	320.9	318.8	316.7	313.5	312.4
7.5°	477.1	481.4	477.1	463.3	439.8	411.9	379.8	376.6	370.2	370.2	366.0
10°	569.2	569.2	564.9	548.8	527.4	487.8	447.2	441.9	434.4	432.2	425.8
12.5°	634.5	634.5	632.3	623.8	606.7	571.3	522.1	516.7	507.2	503.9	496.5
15°	660.1	660.1	661.2	668.7	669.8	653.7	602.4	598.1	588.4	579.9	576.7
17.5°	676.2	675.1	675.1	685.8	705.1	715.8	682.6	678.3	667.7	663.4	652.7
20°	711.5	709.4	702.9	702.9	721.1	758.6	758.6	757.5	745.8	742.5	737.2
22.5°	763.9	761.7	742.5	726.5	735.1	782.1	826.0	823.8	819.6	815.3	812.0
25°	849.5	842.0	808.9	761.7	754.3	804.6	877.3	882.7	885.9	885.9	888.0
27.5°	978.9	969.4	910.5	822.7	789.6	841.0	934.0	944.7	954.4	956.5	966.1
30°	1158.7	1141.6	1057.1	928.7	852.8	894.4	1017.5	1029.2	1043.2	1047.4	1062.4
32.5°	1454.0	1444.3	1363.1	1170.4	1007.8	999.3	1134.1	1149.1	1167.3	1174.7	1193.0
35°	1903.4	1905.5	1839.2	1665.8	1441.2	1323.5	1342.7	1355.6	1362.0	1384.5	1394.0
37.5°	2208.3	2213.6	2228.6	2160.2	1999.7	1879.8	1728.9	1742.9	1709.7	1713.0	1714.0
40°	2375.2	2392.3	2480.1	2546.4	2533.5	2464.0	2343.1	2350.6	2288.6	2274.6	2207.2
42.5°	2486.5	2508.9	2649.1	2854.5	2959.4	3022.5	2994.7	2991.4	2943.3	2925.2	2868.4
45°	2556.1	2576.3	2752.9	3055.7	3297.4	3481.5	3557.5	3566.0	3525.4	3507.2	3460.1
47.5°	2552.8	2576.3	2765.7	3130.5	3486.8	3781.1	3995.0	4005.7	4030.3	4014.4	4017.5
50°	2411.6	2434.1	2624.5	3003.3	3431.2	3918.0	4309.6	4343.9	4383.5	4410.1	4423.0
52.5°	2240.4	2256.5	2425.5	2784.9	3193.7	3861.3	4495.8	4554.6	4613.5	4663.8	4699.0
55°	2177.3	2195.5	2328.2	2626.6	3003.3	3623.8	4582.4	4669.1	4752.6	4834.9	4902.3
57.5°	2210.5	2227.6	2322.8	2551.8	2889.8	3373.4	4607.1	4741.9	4878.8	5012.5	5145.2
60°	2332.5	2350.6	2431.9	2621.3	2859.9	3229.0	4510.7	4734.3	4962.2	5195.5	5414.8
62.5°	2284.3	2291.7	2411.6	2743.2	3073.8	3106.0	4160.9	4473.3	4821.0	5180.5	5534.7
63°	2238.3	2246.8	2368.8	2710.1	3139.1	3087.8	4052.8	4382.3	4749.3	5136.6	5521.8
65°	2029.6	2030.6	2123.8	2393.4	3066.4	3119.8	3571.3	3886.0	4307.5	4771.8	5258.6
67.5°	1515.0	1507.5	1597.4	1802.8	2407.3	3121.0	3065.3	3241.8	3535.0	3947.0	4383.5
70°	537.1	525.3	670.8	955.4	1500.1	2552.8	2634.2	2645.9	2727.2	2949.7	3223.6
72.5°	174.4	177.6	214.0	349.9	691.2	1718.3	2384.8	2348.4	2327.1	2326.0	2362.4
75°	69.5	70.7	85.6	155.2	310.3	828.1	2088.5	2108.7	2116.3	2127.0	2138.8
77.5°	33.2	36.3	48.2	86.6	154.1	409.7	1494.7	1666.9	1765.4	1841.4	1887.3
80°	11.8	14.0	26.8	53.5	71.7	188.3	787.5	950.1	1094.5	1280.7	1441.2
82.5°	0.0	0.0	5.4	37.5	39.6	76.0	323.1	378.8	433.4	561.6	721.1
85°	0.0	0.0	0.0	10.7	11.8	12.8	109.2	131.6	147.6	172.3	199.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.3	6.4	16.1	24.6
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):**

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7
2.5°	263.2	262.1	262.1	259.9	258.9	256.8	255.7	252.5	251.4	251.4	251.4
5°	311.4	307.1	305.0	299.6	296.4	295.3	290.0	287.9	284.6	285.7	280.3
7.5°	364.8	357.4	354.1	346.6	344.5	337.0	334.9	329.5	326.3	319.9	317.8
10°	423.7	414.0	408.7	396.9	393.7	388.3	381.9	375.5	370.2	363.8	360.6
12.5°	491.1	482.5	478.3	462.2	454.7	447.2	438.7	430.1	421.5	416.1	408.7
15°	570.3	556.4	552.1	537.1	524.3	514.6	502.9	492.1	485.7	475.0	467.6
17.5°	648.4	634.5	631.2	608.8	594.8	588.4	575.6	561.6	549.9	539.3	527.4
20°	726.5	716.8	708.3	686.9	671.9	661.2	644.1	630.2	620.5	605.5	590.6
22.5°	804.6	794.9	788.5	766.0	752.2	737.2	722.2	707.3	693.3	675.1	658.0
25°	884.8	878.4	875.2	854.9	842.0	828.1	813.2	796.1	778.9	758.6	740.3
27.5°	968.2	970.4	964.0	959.7	945.8	936.2	912.6	900.8	888.0	863.5	841.0
30°	1074.2	1080.6	1078.5	1081.7	1073.1	1066.7	1048.5	1033.5	1018.5	995.0	969.4
32.5°	1207.9	1216.5	1220.7	1232.6	1228.3	1226.2	1220.7	1199.4	1188.7	1148.1	1137.4
35°	1414.4	1410.1	1428.4	1437.9	1433.7	1431.5	1425.1	1413.4	1400.5	1371.7	1344.9
37.5°	1682.9	1687.2	1693.7	1674.4	1661.5	1660.5	1641.3	1629.5	1611.2	1579.2	1547.1
40°	2175.1	2148.4	2118.4	2037.1	2001.8	1981.5	1924.7	1908.8	1877.7	1833.8	1800.6
42.5°	2814.9	2788.2	2698.3	2562.5	2489.7	2389.1	2343.1	2286.4	2242.5	2170.9	2132.4
45°	3450.5	3373.4	3362.7	3204.4	3114.6	2981.9	2899.5	2804.2	2704.7	2610.6	2542.1
47.5°	3986.5	3969.3	3916.9	3820.7	3737.2	3625.9	3520.0	3373.4	3270.7	3136.9	3013.9
50°	4415.5	4414.4	4395.2	4339.6	4270.0	4180.1	4087.1	3962.9	3846.3	3682.6	3551.1
52.5°	4736.5	4753.6	4760.0	4742.9	4716.2	4637.0	4590.0	4486.1	4387.7	4248.7	4106.3
55°	4971.9	5035.0	5067.1	5103.4	5096.0	5068.2	5066.0	4998.7	4953.7	4843.5	4742.9
57.5°	5262.9	5366.7	5466.1	5642.7	5649.1	5711.2	5743.3	5775.4	5783.9	5740.0	5707.0
60°	5633.1	5844.9	6033.2	6402.3	6498.6	6650.5	6749.0	6856.0	6946.9	6954.4	6952.2
62.5°	5894.1	6220.4	6524.3	7072.1	7259.3	7434.8	7566.4	7670.2	7733.3	7797.5	7827.5
63°	5901.6	6258.9	6582.1	7147.0	7343.8	7510.7	7636.0	7732.2	7798.6	7837.1	7856.3
65°	5720.8	6154.2	6539.2	7102.0	7287.1	7455.1	7520.4	7583.5	7615.6	7630.6	7573.9
67.5°	4848.8	5272.5	5721.9	6351.0	6509.3	6710.5	6764.0	6796.0	6811.0	6807.9	6759.7
70°	3625.9	3981.2	4480.8	5199.8	5409.4	5606.4	5728.3	5780.8	5797.9	5792.5	5720.8
72.5°	2531.4	2740.0	3151.9	3952.2	4238.0	4490.4	4641.3	4719.4	4735.5	4703.3	4637.0
75°	2126.0	2136.6	2229.7	2667.2	2934.7	3204.4	3374.5	3423.7	3391.6	3294.3	3125.2
77.5°	1898.0	1921.6	1921.6	1986.9	2039.2	2114.1	2130.2	2010.4	1871.3	1691.6	1546.0
80°	1592.0	1674.4	1732.2	1780.4	1785.7	1770.7	1731.1	1663.7	1556.8	1419.8	1267.9
82.5°	967.2	1129.8	1196.1	1444.3	1566.3	1648.7	1642.3	1552.5	1471.1	1328.8	1199.4
85°	244.0	263.2	285.7	371.2	416.1	508.2	566.0	592.7	602.4	553.1	500.8
87.5°	23.5	16.1	26.8	20.4	28.9	21.4	28.9	26.8	33.2	35.3	38.5
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):**

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7
2.5°	249.3	248.2	247.1	246.1	245.0	244.0	241.8	241.8	239.7	238.6	237.6
5°	277.1	274.9	273.9	271.8	268.5	266.4	263.2	258.9	255.7	254.7	252.5
7.5°	312.4	307.1	305.0	301.7	297.4	291.0	286.7	283.6	278.2	274.9	268.5
10°	352.0	346.6	340.2	333.8	327.4	319.9	314.5	310.3	301.7	297.4	290.0
12.5°	402.3	392.6	385.2	376.6	368.1	359.5	353.1	340.2	332.8	323.1	316.7
15°	453.6	445.1	436.5	425.8	413.0	399.0	392.6	380.9	371.2	356.3	347.7
17.5°	515.7	499.6	486.8	474.0	462.2	449.3	436.5	418.3	404.4	391.6	374.5
20°	576.7	557.4	543.5	526.4	509.3	489.0	474.0	461.2	441.9	424.8	406.6
22.5°	642.0	622.6	600.2	583.1	559.5	543.5	523.2	501.8	482.5	460.0	437.6
25°	721.1	700.7	675.1	652.7	625.9	603.4	578.9	554.2	530.7	505.0	476.1
27.5°	818.4	797.1	769.3	742.5	707.3	679.4	655.8	622.6	592.7	560.6	527.4
30°	941.6	918.0	883.7	845.2	809.9	778.9	745.8	701.9	668.7	630.2	587.4
32.5°	1102.0	1074.2	1028.2	991.9	948.0	907.2	861.3	817.4	770.3	720.1	670.8
35°	1304.2	1278.6	1225.0	1171.6	1123.4	1075.2	1017.5	967.2	900.8	839.8	776.8
37.5°	1513.9	1467.9	1418.7	1361.0	1301.0	1243.3	1172.6	1103.0	1027.1	960.8	881.6
40°	1753.6	1698.0	1657.3	1595.3	1510.7	1428.4	1363.1	1276.5	1181.1	1092.3	999.3
42.5°	2082.1	2020.0	1947.3	1853.1	1792.1	1695.9	1611.2	1508.6	1383.4	1283.9	1171.6
45°	2461.9	2377.4	2306.7	2215.8	2141.9	2022.1	1923.7	1786.8	1661.5	1531.0	1394.0
47.5°	2895.2	2790.3	2687.6	2597.7	2480.1	2362.4	2237.1	2091.6	1931.2	1787.8	1625.2
50°	3392.7	3244.0	3101.7	2986.2	2824.6	2688.7	2552.8	2389.1	2211.5	2046.7	1861.6
52.5°	3945.8	3773.5	3585.3	3407.7	3220.4	3046.0	2882.3	2694.0	2496.1	2295.0	2088.5
55°	4613.5	4484.0	4262.5	4036.8	3786.4	3553.2	3342.4	3109.2	2868.4	2604.1	2386.9
57.5°	5658.8	5595.7	5410.5	5184.8	4858.5	4574.9	4217.6	3931.9	3583.1	3219.3	2939.0
60°	7075.3	6997.2	6893.4	6710.5	6451.6	6066.4	5672.6	5228.7	4698.0	4194.1	3715.8
62.5°	7830.7	7802.9	7718.4	7592.1	7350.3	7046.4	6649.5	6161.6	5562.5	4950.5	4340.6
63°	7853.2	7817.8	7745.1	7616.7	7403.8	7109.6	6720.1	6246.1	5659.8	5036.0	4413.4
65°	7549.3	7535.4	7461.6	7321.5	7175.8	6951.2	6649.5	6241.8	5749.7	5160.2	4540.7
67.5°	6695.5	6653.8	6540.4	6497.6	6395.9	6239.7	6009.7	5729.3	5377.3	4914.1	4379.2
70°	5663.1	5600.9	5458.7	5382.7	5258.6	5160.2	5020.1	4820.0	4602.8	4279.6	3880.6
72.5°	4568.5	4440.2	4309.6	4111.7	3938.3	3762.8	3607.8	3466.6	3227.9	3097.4	2794.6
75°	2966.9	2733.6	2510.0	2210.5	1940.8	1702.3	1470.0	1352.4	1107.3	1007.8	865.6
77.5°	1408.0	1277.5	1102.0	966.1	792.8	647.3	528.6	396.9	311.4	244.0	186.1
80°	1136.2	1026.1	920.2	797.1	666.5	531.7	407.6	305.0	216.2	149.8	105.9
82.5°	1013.2	893.4	762.9	678.3	589.6	482.5	395.9	323.1	238.6	174.4	118.7
85°	393.7	331.6	255.7	208.6	162.6	133.7	120.9	83.5	65.3	51.3	39.6
87.5°	34.2	27.8	22.5	15.0	16.1	8.6	9.7	6.4	5.4	5.4	4.3
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):**

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7	225.7
2.5°	236.4	235.4	234.3	232.2	232.2	230.0	229.0	227.9	222.6	210.8	201.1
5°	248.2	246.1	244.0	240.7	238.6	235.4	233.3	230.0	218.3	195.8	176.6
7.5°	265.4	261.1	257.8	251.4	248.2	244.0	240.7	235.4	216.2	181.9	155.2
10°	285.7	278.2	272.8	265.4	258.9	253.5	248.2	240.7	214.0	166.9	135.8
12.5°	310.3	301.7	291.0	282.5	273.9	266.4	258.9	249.3	210.8	154.1	120.9
15°	334.9	322.1	314.5	302.8	291.0	280.3	269.6	261.1	211.9	140.1	108.0
17.5°	362.7	349.9	333.8	320.9	308.1	294.3	281.3	264.2	206.5	129.4	98.5
20°	389.5	371.2	356.3	340.2	322.1	305.0	288.9	273.9	202.2	118.7	89.9
22.5°	418.3	396.9	377.7	357.4	334.9	315.7	296.4	277.1	194.7	109.2	82.4
25°	453.6	429.1	401.2	376.6	353.1	329.5	305.0	281.3	187.3	100.6	77.1
27.5°	496.5	464.3	436.5	405.5	372.4	342.3	315.7	290.0	179.7	94.2	71.7
30°	551.0	513.6	474.0	434.4	399.0	364.8	327.4	295.3	172.3	87.8	66.3
32.5°	623.8	576.7	528.6	482.5	435.5	391.6	352.0	310.3	168.0	82.4	61.0
35°	720.1	659.1	600.2	542.4	485.7	432.2	380.9	333.8	168.0	76.0	54.6
37.5°	811.0	740.3	665.5	593.8	526.4	464.3	403.3	346.6	159.5	70.7	49.2
40°	909.4	824.9	737.2	652.7	571.3	494.4	424.8	359.5	151.9	64.1	43.9
42.5°	1060.3	953.3	838.8	740.3	643.0	547.8	461.2	384.1	142.4	57.7	38.5
45°	1258.2	1122.3	987.6	867.7	743.6	626.9	524.3	429.1	140.1	52.4	33.2
47.5°	1470.0	1309.5	1151.2	998.3	852.8	716.8	593.8	479.3	140.1	47.0	28.9
50°	1680.8	1479.7	1310.7	1133.1	969.4	808.9	662.3	531.7	141.2	42.8	23.5
52.5°	1871.3	1656.2	1466.9	1261.4	1080.6	894.4	735.1	583.1	139.1	37.5	19.2
55°	2135.5	1883.0	1663.7	1436.9	1225.0	1015.4	834.5	660.1	140.1	33.2	16.1
57.5°	2622.3	2326.0	2061.7	1764.3	1520.3	1249.7	1030.3	818.4	153.0	27.8	11.8
60°	3321.0	2935.9	2564.6	2201.9	1891.6	1569.6	1285.0	1035.6	179.7	22.5	8.6
62.5°	3790.6	3286.7	2843.8	2443.6	2083.1	1746.0	1435.8	1152.3	197.9	18.2	5.4
63°	3838.8	3317.8	2872.7	2459.7	2091.6	1754.6	1442.2	1160.9	199.0	17.1	5.4
65°	3929.7	3371.2	2888.8	2462.9	2083.1	1742.9	1437.9	1159.8	201.1	14.0	4.3
67.5°	3826.0	3288.9	2795.6	2370.9	2008.2	1673.4	1384.5	1117.0	200.1	9.7	3.3
70°	3421.5	2976.5	2543.2	2147.3	1817.7	1515.0	1260.4	1018.5	184.0	6.4	2.1
72.5°	2512.2	2209.3	1873.4	1587.7	1369.5	1137.4	970.4	765.0	142.4	4.3	1.1
75°	744.6	678.3	570.3	502.9	444.1	367.0	326.3	254.7	72.8	2.1	0.0
77.5°	148.8	134.8	120.9	110.2	103.8	88.8	84.5	69.5	29.9	1.1	0.0
80°	78.1	64.1	54.6	48.2	41.7	34.2	28.9	23.5	5.4	0.0	0.0
82.5°	74.9	50.3	36.3	29.9	25.7	20.4	16.1	11.8	3.3	0.0	0.0
85°	27.8	21.4	16.1	12.8	10.7	9.7	7.5	6.4	0.0	0.0	0.0
87.5°	4.3	3.3	3.3	2.1	2.1	1.1	1.1	1.1	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):**

	125°	135°	145°	155°	165°	175°	180°
0°	225.7	225.7	225.7	225.7	225.7	225.7	225.7
2.5°	191.5	183.0	178.7	173.3	173.3	172.3	174.4
5°	159.5	147.6	139.1	132.7	133.7	130.5	131.6
7.5°	134.8	123.0	115.6	111.3	110.2	109.2	109.2
10°	116.6	105.9	99.5	96.3	95.2	95.2	95.2
12.5°	103.8	93.1	87.8	85.6	85.6	84.5	84.5
15°	93.1	84.5	79.2	77.1	77.1	76.0	77.1
17.5°	84.5	76.0	71.7	69.5	69.5	68.4	68.4
20°	77.1	69.5	65.3	62.0	62.0	61.0	62.0
22.5°	70.7	63.1	57.7	55.6	54.6	53.5	54.6
25°	64.1	56.7	51.3	48.2	47.0	47.0	46.0
27.5°	58.9	51.3	44.9	41.7	40.6	40.6	39.6
30°	53.5	44.9	38.5	35.3	34.2	34.2	34.2
32.5°	48.2	38.5	33.2	29.9	28.9	28.9	28.9
35°	42.8	33.2	27.8	24.6	23.5	23.5	23.5
37.5°	36.3	27.8	21.4	19.2	18.2	17.1	17.1
40°	31.1	21.4	16.1	14.0	11.8	11.8	11.8
42.5°	25.7	17.1	11.8	8.6	7.5	6.4	7.5
45°	21.4	12.8	7.5	4.3	3.3	3.3	3.3
47.5°	17.1	8.6	3.3	1.1	1.1	1.1	1.1
50°	12.8	5.4	1.1	0.0	0.0	1.1	1.1
52.5°	9.7	3.3	0.0	0.0	0.0	0.0	0.0
55°	5.4	1.1	0.0	0.0	0.0	0.0	0.0
57.5°	3.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)