

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: P180403

Luminaire Tested: **ICM-F05-LED-E1-SL2-HSS**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180403  
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: ICM-F05-LED-E1-SL2-HSS  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (35) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7040.3 lumens  
Efficiency: N/A  
Efficacy: 52.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 133.3  
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

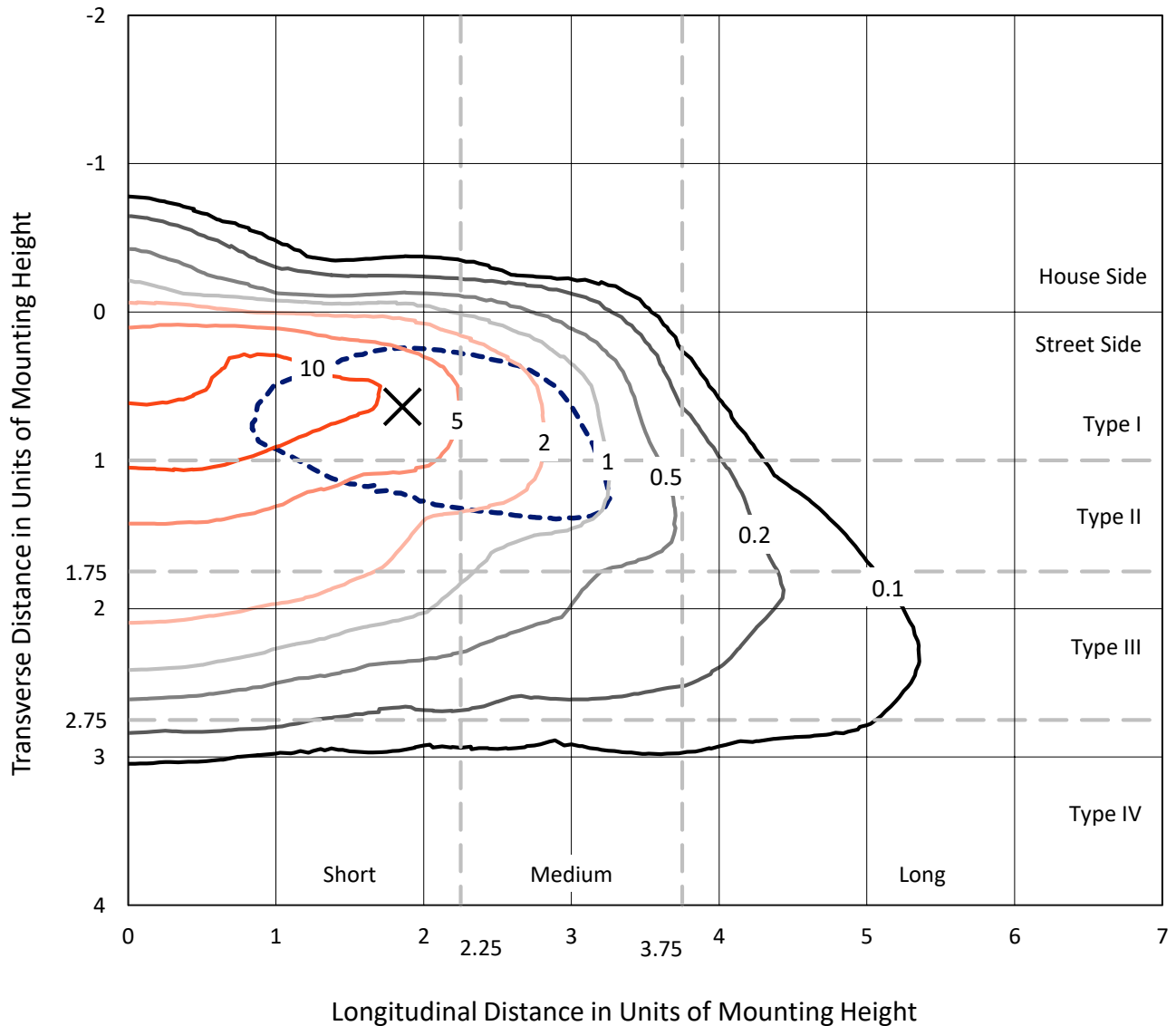


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

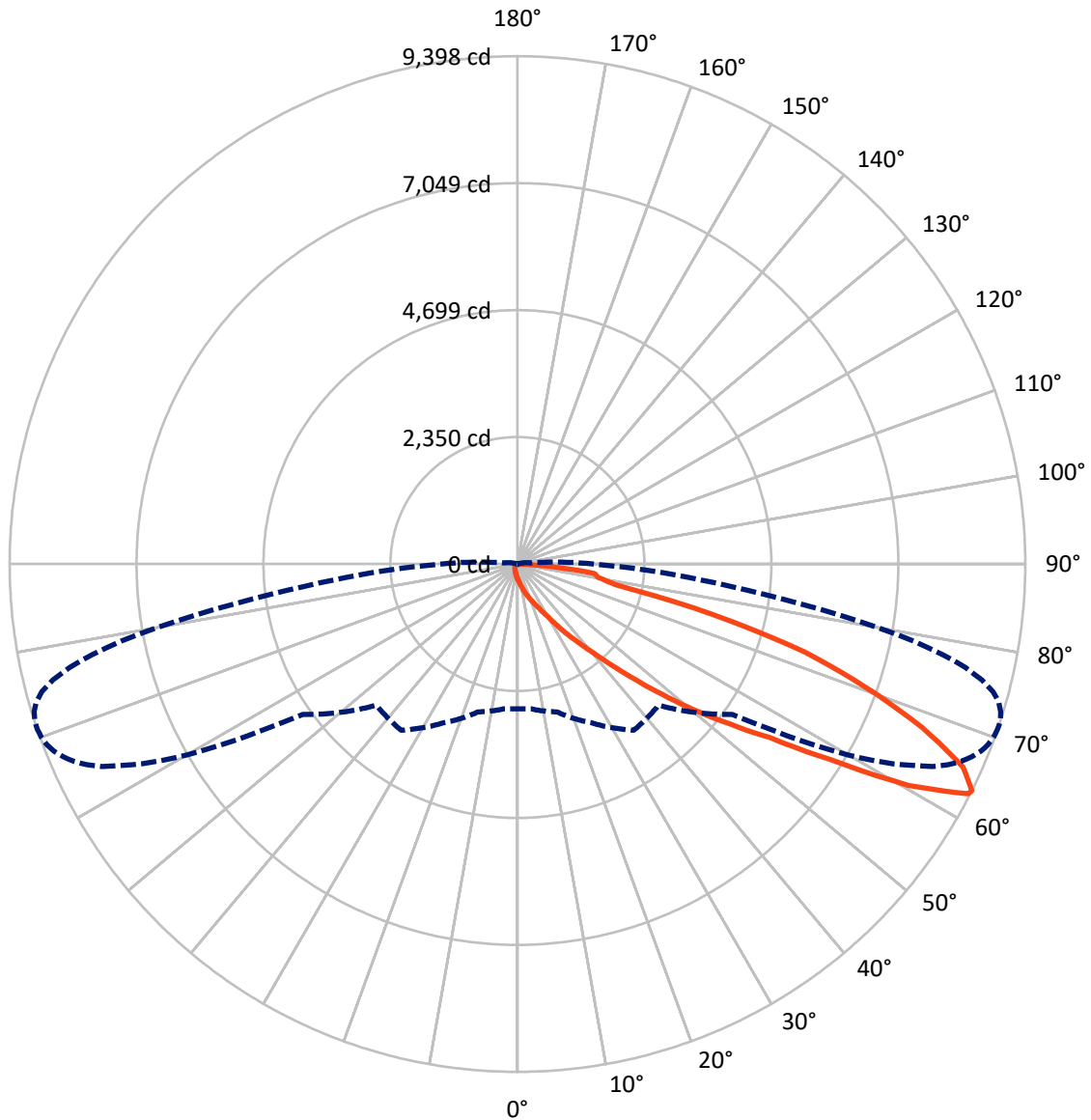


Based on 10 foot mounting height. Maximum calculated value = 14.8 fc  
 Type II - Short - Non-Cutoff

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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	149.5	0.0	149.5
	% Fixture	2.1	0.0	2.1
<b>Street Side</b>	Lumens	6890.9	0.0	6890.9
	% Fixture	97.9	0.0	97.9
<b>Total</b>	Lumens	7040.3	0.0	7040.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.8	0.4
10°-20°	115.8	1.6
20°-30°	235.1	3.3
30°-40°	574.5	8.2
40°-50°	1284.7	18.2
50°-60°	1806.5	25.7
60°-70°	2124.3	30.2
70°-80°	767.1	10.9
80°-90°	102.6	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°	7040.3	100.0
0°-180°	7040.3	100.0



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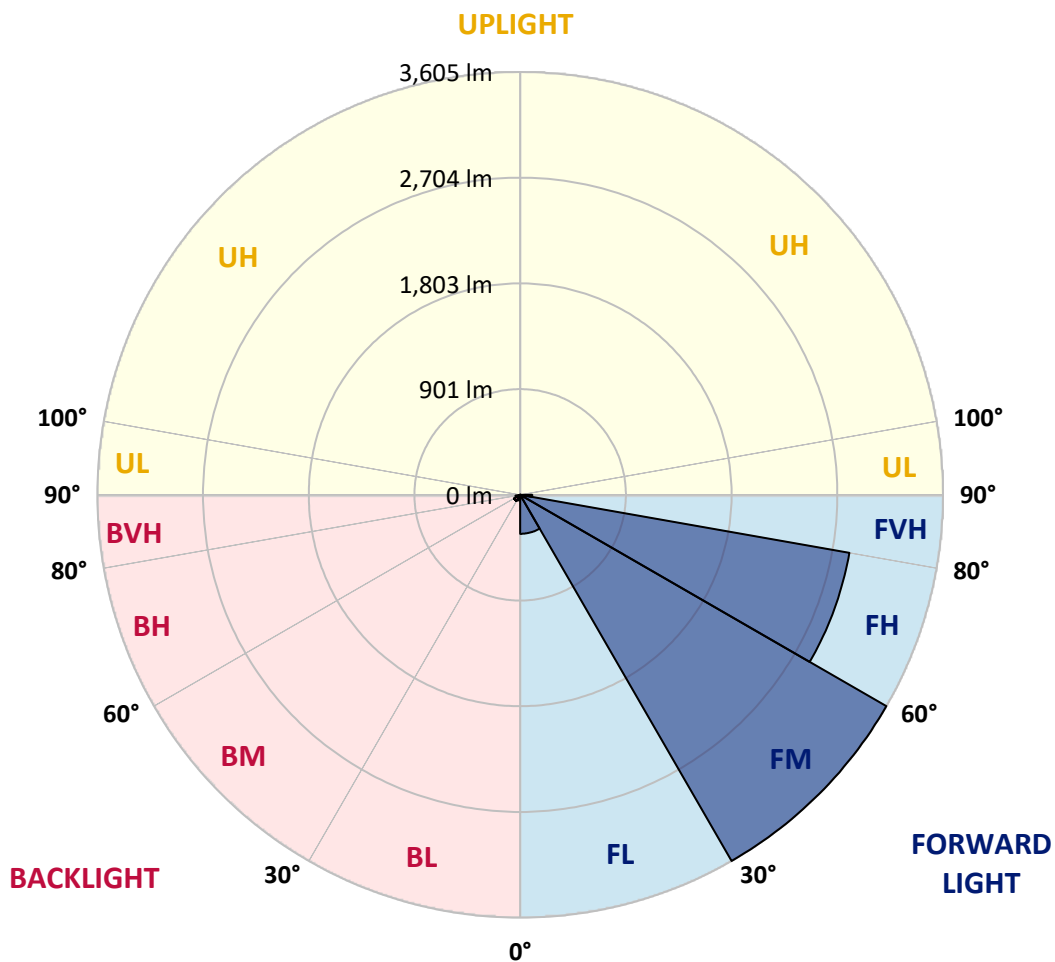
CATALOG NUMBER: ICM-F05-LED-E1-SL2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.7	4.7			
FM (30°-60°)	3605.5	51.2			
FH (60°-80°)	2850.4	40.5			G2/5000
FVH (80°-90°)	102.4	1.5			G2/225
BL (0°-30°)	48.1	0.7	B0/110		
BM (30°-60°)	60.2	0.9	B0/220		
BH (60°-80°)	41.0	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°	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0
2.5°	353.2	357.1	354.5	348.1	340.5	330.2	321.2	321.2	320.0	316.1	317.4
5°	463.4	464.6	459.4	444.1	430.0	408.3	384.0	381.4	378.9	375.0	373.8
7.5°	570.8	575.9	570.8	554.2	526.0	492.7	454.3	450.5	442.9	442.9	437.7
10°	680.9	680.9	675.8	656.6	631.0	583.6	535.0	528.6	519.6	517.1	509.4
12.5°	759.0	759.0	756.4	746.1	725.7	683.4	624.6	618.1	606.7	602.8	593.9
15°	789.7	789.7	791.0	799.9	801.2	782.1	720.6	715.4	703.9	693.7	689.9
17.5°	808.9	807.6	807.6	820.4	843.4	856.3	816.6	811.4	798.6	793.5	780.7
20°	851.2	848.6	840.8	840.8	862.6	907.4	907.4	906.1	892.1	888.3	881.9
22.5°	913.9	911.3	888.3	869.0	879.3	935.6	988.1	985.5	980.4	975.3	971.4
25°	1016.2	1007.3	967.6	911.3	902.3	962.5	1049.5	1055.9	1059.7	1059.7	1062.3
27.5°	1171.1	1159.5	1089.2	984.2	944.6	1006.0	1117.3	1130.1	1141.7	1144.2	1155.7
30°	1386.1	1365.7	1264.6	1111.0	1020.1	1070.0	1217.2	1231.3	1247.9	1253.0	1270.9
32.5°	1739.4	1727.8	1630.6	1400.2	1205.7	1195.4	1356.7	1374.6	1396.4	1405.3	1427.1
35°	2276.9	2279.5	2200.1	1992.8	1724.0	1583.3	1606.2	1621.6	1629.3	1656.2	1667.7
37.5°	2641.7	2648.1	2666.0	2584.1	2392.1	2248.8	2068.3	2084.9	2045.2	2049.1	2050.4
40°	2841.3	2861.9	2966.8	3046.2	3030.8	2947.6	2803.0	2811.9	2737.7	2721.0	2640.4
42.5°	2974.4	3001.3	3169.0	3414.7	3540.2	3615.7	3582.4	3578.5	3521.0	3499.2	3431.4
45°	3057.7	3082.0	3293.1	3655.4	3944.6	4164.8	4255.7	4265.9	4217.2	4195.5	4139.2
47.5°	3053.8	3082.0	3308.5	3745.0	4171.2	4523.1	4779.1	4791.9	4821.3	4802.2	4806.0
50°	2884.9	2911.7	3139.6	3592.7	4104.6	4687.0	5155.4	5196.4	5243.8	5275.8	5291.1
52.5°	2680.1	2699.3	2901.5	3331.6	3820.5	4619.1	5378.1	5448.5	5518.9	5579.0	5621.2
55°	2604.6	2626.3	2785.0	3142.2	3592.7	4335.0	5481.8	5585.4	5685.2	5783.8	5864.5
57.5°	2644.3	2664.8	2778.6	3052.6	3457.0	4035.5	5511.2	5672.5	5836.3	5996.3	6155.0
60°	2790.2	2811.9	2909.2	3135.7	3421.1	3862.7	5396.0	5663.5	5936.1	6215.1	6477.5
62.5°	2732.6	2741.5	2884.9	3281.6	3677.1	3715.6	4977.5	5351.2	5767.2	6197.2	6620.9
63°	2677.5	2687.7	2833.7	3242.0	3755.2	3693.8	4848.2	5242.5	5681.4	6144.8	6605.5
65°	2427.9	2429.2	2540.6	2863.1	3668.2	3732.2	4272.3	4648.6	5152.9	5708.3	6290.6
67.5°	1812.3	1803.4	1910.9	2156.6	2879.7	3733.4	3666.9	3878.1	4228.8	4721.5	5243.8
70°	642.5	628.5	802.5	1143.0	1794.4	3053.8	3151.1	3165.1	3262.4	3528.7	3856.3
72.5°	208.7	212.5	256.0	418.5	826.8	2055.5	2852.9	2809.3	2783.7	2782.5	2826.0
75°	83.2	84.5	102.4	185.6	371.2	990.6	2498.3	2522.6	2531.6	2544.4	2558.5
77.5°	39.7	43.5	57.6	103.6	184.3	490.2	1788.0	1994.1	2111.8	2202.7	2257.7
80°	14.0	16.7	32.0	64.0	85.8	225.3	942.0	1136.6	1309.3	1532.0	1724.0
82.5°	0.0	0.0	6.4	44.8	47.3	90.9	386.5	453.1	518.3	671.9	862.6
85°	0.0	0.0	0.0	12.8	14.0	15.3	130.5	157.4	176.7	206.0	238.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.8	7.7	19.2	29.4
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°	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0
2.5°	314.9	313.6	313.6	311.0	309.8	307.2	305.9	302.0	300.7	300.7	300.7
5°	372.5	367.4	364.7	358.3	354.5	353.2	346.9	344.3	340.5	341.8	335.4
7.5°	436.5	427.4	423.6	414.7	412.1	403.2	400.6	394.2	390.3	382.7	380.1
10°	506.8	495.4	488.9	474.8	471.0	464.6	456.9	449.2	442.9	435.2	431.4
12.5°	587.4	577.2	572.1	552.9	543.9	535.0	524.7	514.5	504.3	497.9	488.9
15°	682.1	665.6	660.5	642.5	627.2	615.6	601.6	588.7	581.0	568.3	559.4
17.5°	775.6	759.0	755.2	728.3	711.6	703.9	688.6	671.9	657.9	645.0	631.0
20°	869.0	857.5	847.3	821.7	803.7	791.0	770.5	753.9	742.3	724.4	706.5
22.5°	962.5	951.0	943.3	916.4	899.7	881.9	863.9	846.1	829.4	807.6	787.2
25°	1058.4	1050.8	1047.0	1022.6	1007.3	990.6	972.8	952.3	931.7	907.4	885.7
27.5°	1158.3	1160.8	1153.2	1148.1	1131.4	1119.9	1091.7	1077.7	1062.3	1032.8	1006.0
30°	1285.0	1292.7	1290.1	1294.0	1283.7	1276.0	1254.3	1236.4	1218.4	1190.3	1159.5
32.5°	1445.0	1455.3	1460.4	1474.4	1469.3	1466.8	1460.4	1434.8	1422.0	1373.3	1360.6
35°	1692.0	1686.9	1708.7	1720.2	1715.1	1712.5	1704.8	1690.7	1675.4	1640.8	1608.8
37.5°	2013.3	2018.4	2026.1	2003.0	1987.6	1986.4	1963.4	1949.3	1927.5	1889.1	1850.7
40°	2602.1	2570.1	2534.2	2436.9	2394.7	2370.3	2302.5	2283.4	2246.2	2193.7	2154.1
42.5°	3367.4	3335.4	3227.9	3065.3	2978.3	2858.0	2803.0	2735.1	2682.6	2596.9	2550.8
45°	4127.7	4035.5	4022.7	3833.2	3725.8	3567.1	3468.5	3354.6	3235.6	3122.9	3041.0
47.5°	4768.9	4748.4	4685.7	4570.4	4470.6	4337.5	4210.8	4035.5	3912.6	3752.7	3605.4
50°	5282.1	5280.9	5257.8	5191.2	5108.0	5000.5	4889.1	4740.7	4601.2	4405.4	4247.9
52.5°	5666.1	5686.5	5694.3	5673.8	5641.8	5547.0	5490.7	5366.5	5248.9	5082.4	4912.2
55°	5947.7	6023.2	6061.5	6105.1	6096.1	6062.8	6060.3	5979.7	5925.9	5794.1	5673.8
57.5°	6295.8	6419.9	6538.9	6750.2	6757.8	6832.0	6870.5	6908.9	6919.1	6866.6	6826.9
60°	6738.6	6992.0	7217.3	7658.8	7774.1	7955.8	8073.5	8201.5	8310.4	8319.3	8316.7
62.5°	7050.9	7441.3	7804.8	8460.1	8684.1	8894.0	9051.4	9175.5	9251.0	9327.9	9363.7
63°	7059.9	7487.4	7873.9	8549.6	8785.2	8984.8	9134.6	9249.7	9329.2	9375.2	9398.2
65°	6843.6	7361.9	7822.7	8496.0	8717.4	8918.3	8996.3	9071.9	9110.3	9128.1	9060.3
67.5°	5800.5	6307.3	6844.9	7597.4	7786.8	8027.5	8091.5	8129.9	8147.8	8144.0	8086.4
70°	4337.5	4762.4	5360.2	6220.3	6471.1	6706.6	6852.5	6915.3	6935.8	6929.3	6843.6
72.5°	3028.2	3277.8	3770.5	4727.9	5069.6	5371.7	5552.1	5645.6	5664.8	5626.4	5547.0
75°	2543.2	2555.9	2667.3	3190.8	3510.7	3833.2	4036.8	4095.7	4057.2	3940.8	3738.5
77.5°	2270.5	2298.7	2298.7	2376.8	2439.5	2529.0	2548.3	2404.9	2238.5	2023.5	1849.4
80°	1904.5	2003.0	2072.1	2129.8	2136.1	2118.2	2070.9	1990.2	1862.2	1698.4	1516.7
82.5°	1157.0	1351.5	1430.9	1727.8	1873.8	1972.3	1964.7	1857.1	1759.8	1589.6	1434.8
85°	291.8	314.9	341.8	444.1	497.9	607.9	677.0	709.0	720.6	661.7	599.0
87.5°	28.2	19.2	32.0	24.3	34.5	25.6	34.5	32.0	39.7	42.2	46.0
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):**

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0
2.5°	298.2	296.9	295.6	294.4	293.1	291.8	289.2	289.2	286.7	285.4	284.1
5°	331.5	328.9	327.6	325.1	321.2	318.7	314.9	309.8	305.9	304.7	302.0
7.5°	373.8	367.4	364.7	360.9	355.8	348.1	343.0	339.2	332.7	328.9	321.2
10°	421.1	414.7	407.0	399.4	391.6	382.7	376.3	371.2	360.9	355.8	346.9
12.5°	481.2	469.7	460.7	450.5	440.3	430.0	422.3	407.0	398.0	386.5	378.9
15°	542.7	532.5	522.2	509.4	494.0	477.4	469.7	455.6	444.1	426.2	416.0
17.5°	616.9	597.7	582.3	567.0	552.9	537.6	522.2	500.5	483.8	468.5	448.0
20°	689.9	666.8	650.1	629.7	609.2	584.9	567.0	551.6	528.6	508.1	486.3
22.5°	767.9	744.9	718.1	697.6	669.4	650.1	625.9	600.3	577.2	550.3	523.4
25°	862.6	838.3	807.6	780.7	748.7	721.9	692.4	663.0	634.8	604.1	569.6
27.5°	979.1	953.5	920.3	888.3	846.1	812.7	784.6	744.9	709.0	670.7	631.0
30°	1126.3	1098.1	1057.2	1011.1	968.8	931.7	892.1	839.6	799.9	753.9	702.7
32.5°	1318.3	1285.0	1230.0	1186.4	1134.0	1085.3	1030.3	977.9	921.5	861.4	802.5
35°	1560.2	1529.5	1465.5	1401.5	1343.9	1286.3	1217.2	1157.0	1077.7	1004.8	929.2
37.5°	1811.1	1756.0	1697.1	1628.0	1556.4	1487.3	1402.8	1319.5	1228.7	1149.3	1054.6
40°	2097.8	2031.2	1982.5	1908.3	1807.2	1708.7	1630.6	1526.9	1413.0	1306.8	1195.4
42.5°	2490.7	2416.5	2329.4	2216.8	2143.8	2028.7	1927.5	1804.7	1654.9	1535.8	1401.5
45°	2945.0	2843.9	2759.5	2650.6	2562.3	2419.0	2301.2	2137.4	1987.6	1831.5	1667.7
47.5°	3463.4	3338.0	3215.1	3107.6	2966.8	2826.0	2676.3	2502.2	2310.2	2138.7	1944.2
50°	4058.5	3880.7	3710.4	3572.2	3378.9	3216.4	3053.8	2858.0	2645.5	2448.4	2227.0
52.5°	4720.2	4514.2	4289.0	4076.5	3852.5	3643.8	3448.0	3222.8	2986.0	2745.4	2498.3
55°	5518.9	5364.0	5099.1	4829.1	4529.5	4250.5	3998.4	3719.4	3431.4	3115.3	2855.5
57.5°	6769.3	6693.8	6472.4	6202.4	5811.9	5472.8	5045.3	4703.6	4286.4	3851.2	3515.8
60°	8464.0	8370.5	8246.4	8027.5	7717.7	7257.0	6786.0	6254.8	5620.0	5017.1	4445.1
62.5°	9367.5	9334.3	9233.2	9082.1	8792.9	8429.4	7954.6	7370.9	6654.2	5922.1	5192.5
63°	9394.4	9352.2	9265.2	9111.6	8856.9	8504.9	8039.0	7472.0	6770.6	6024.4	5279.6
65°	9030.9	9014.3	8926.0	8758.3	8584.2	8315.5	7954.6	7466.9	6878.2	6172.9	5431.8
67.5°	8009.5	7959.7	7824.0	7772.8	7651.2	7464.3	7189.2	6853.8	6432.7	5878.5	5238.6
70°	6774.5	6700.2	6530.0	6439.1	6290.6	6172.9	6005.2	5765.9	5506.1	5119.6	4642.2
72.5°	5465.1	5311.6	5155.4	4918.6	4711.3	4501.4	4315.8	4146.8	3861.4	3705.3	3343.1
75°	3549.1	3270.2	3002.6	2644.3	2321.7	2036.3	1758.6	1617.8	1324.7	1205.7	1035.4
77.5°	1684.4	1528.2	1318.3	1155.7	948.4	774.3	632.3	474.8	372.5	291.8	222.7
80°	1359.3	1227.4	1100.8	953.5	797.4	636.1	487.6	364.7	258.5	179.2	126.7
82.5°	1212.1	1068.8	912.6	811.4	705.2	577.2	473.6	386.5	285.4	208.7	142.0
85°	471.0	396.7	305.9	249.6	194.5	160.0	144.7	99.8	78.0	61.4	47.3
87.5°	40.9	33.3	26.9	18.0	19.2	10.2	11.5	7.7	6.4	6.4	5.1
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):**

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0
2.5°	282.9	281.6	280.3	277.8	277.8	275.2	273.9	272.7	266.2	252.1	240.7
5°	296.9	294.4	291.8	288.0	285.4	281.6	279.0	275.2	261.1	234.2	211.2
7.5°	317.4	312.3	308.5	300.7	296.9	291.8	288.0	281.6	258.5	217.6	185.6
10°	341.8	332.7	326.3	317.4	309.8	303.4	296.9	288.0	256.0	199.6	162.5
12.5°	371.2	360.9	348.1	337.9	327.6	318.7	309.8	298.2	252.1	184.3	144.7
15°	400.6	385.2	376.3	362.2	348.1	335.4	322.5	312.3	253.4	167.6	129.3
17.5°	433.9	418.5	399.4	384.0	368.7	352.0	336.7	316.1	247.0	154.9	117.8
20°	465.9	444.1	426.2	407.0	385.2	364.7	345.6	327.6	241.9	142.0	107.5
22.5°	500.5	474.8	451.8	427.4	400.6	377.6	354.5	331.5	232.9	130.5	98.5
25°	542.7	513.2	480.0	450.5	422.3	394.2	364.7	336.7	224.0	120.3	92.2
27.5°	593.9	555.4	522.2	485.1	445.4	409.6	377.6	346.9	215.0	112.7	85.8
30°	659.2	614.3	567.0	519.6	477.4	436.5	391.6	353.2	206.0	104.9	79.3
32.5°	746.1	689.9	632.3	577.2	520.9	468.5	421.1	371.2	200.9	98.5	72.9
35°	861.4	788.4	718.1	648.9	581.0	517.1	455.6	399.4	200.9	90.9	65.3
37.5°	970.1	885.7	796.1	710.3	629.7	555.4	482.5	414.7	190.7	84.5	58.9
40°	1087.9	986.8	881.9	780.7	683.4	591.4	508.1	430.0	181.8	76.8	52.5
42.5°	1268.4	1140.4	1003.4	885.7	769.2	655.3	551.6	459.4	170.2	69.1	46.0
45°	1505.1	1342.6	1181.3	1038.0	889.5	750.1	627.2	513.2	167.6	62.7	39.7
47.5°	1758.6	1566.6	1377.1	1194.1	1020.1	857.5	710.3	573.4	167.6	56.3	34.5
50°	2010.7	1770.1	1567.8	1355.5	1159.5	967.6	792.3	636.1	168.9	51.2	28.2
52.5°	2238.5	1981.3	1754.7	1509.0	1292.7	1070.0	879.3	697.6	166.4	44.8	23.1
55°	2554.6	2252.6	1990.2	1718.9	1465.5	1214.6	998.3	789.7	167.6	39.7	19.2
57.5°	3137.0	2782.5	2466.3	2110.5	1818.7	1494.9	1232.6	979.1	183.1	33.3	14.0
60°	3972.8	3512.0	3067.9	2634.1	2262.8	1877.6	1537.1	1238.9	215.0	26.9	10.2
62.5°	4534.6	3931.8	3402.0	2923.3	2491.9	2088.8	1717.6	1378.4	236.7	21.8	6.4
63°	4592.2	3969.0	3436.5	2942.4	2502.2	2099.0	1725.3	1388.7	238.0	20.5	6.4
65°	4701.1	4033.0	3455.7	2946.3	2491.9	2084.9	1720.2	1387.4	240.7	16.7	5.1
67.5°	4576.9	3934.3	3344.4	2836.2	2402.3	2001.8	1656.2	1336.2	239.4	11.5	3.8
70°	4093.0	3560.7	3042.3	2568.8	2174.5	1812.3	1507.7	1218.4	220.2	7.7	2.6
72.5°	3005.2	2643.0	2241.1	1899.4	1638.2	1360.6	1160.8	915.2	170.2	5.1	1.3
75°	890.8	811.4	682.1	601.6	531.2	439.0	390.3	304.7	87.1	2.6	0.0
77.5°	177.9	161.3	144.7	131.8	124.2	106.2	101.1	83.2	35.8	1.3	0.0
80°	93.4	76.8	65.3	57.6	50.0	40.9	34.5	28.2	6.4	0.0	0.0
82.5°	89.6	60.2	43.5	35.8	30.7	24.3	19.2	14.0	3.8	0.0	0.0
85°	33.3	25.6	19.2	15.3	12.8	11.5	8.9	7.7	0.0	0.0	0.0
87.5°	5.1	3.8	3.8	2.6	2.6	1.3	1.3	1.3	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°	270.0	270.0	270.0	270.0	270.0	270.0	270.0
2.5°	229.1	218.9	213.8	207.4	207.4	206.0	208.7
5°	190.7	176.7	166.4	158.7	160.0	156.2	157.4
7.5°	161.3	147.2	138.2	133.1	131.8	130.5	130.5
10°	139.5	126.7	119.1	115.2	114.0	114.0	114.0
12.5°	124.2	111.3	104.9	102.4	102.4	101.1	101.1
15°	111.3	101.1	94.7	92.2	92.2	90.9	92.2
17.5°	101.1	90.9	85.8	83.2	83.2	82.0	82.0
20°	92.2	83.2	78.0	74.2	74.2	72.9	74.2
22.5°	84.5	75.5	69.1	66.5	65.3	64.0	65.3
25°	76.8	67.8	61.4	57.6	56.3	56.3	55.1
27.5°	70.4	61.4	53.8	50.0	48.7	48.7	47.3
30°	64.0	53.8	46.0	42.2	40.9	40.9	40.9
32.5°	57.6	46.0	39.7	35.8	34.5	34.5	34.5
35°	51.2	39.7	33.3	29.4	28.2	28.2	28.2
37.5°	43.5	33.3	25.6	23.1	21.8	20.5	20.5
40°	37.1	25.6	19.2	16.7	14.0	14.0	14.0
42.5°	30.7	20.5	14.0	10.2	8.9	7.7	8.9
45°	25.6	15.3	8.9	5.1	3.8	3.8	3.8
47.5°	20.5	10.2	3.8	1.3	1.3	1.3	1.3
50°	15.3	6.4	1.3	0.0	0.0	1.3	1.3
52.5°	11.5	3.8	0.0	0.0	0.0	0.0	0.0
55°	6.4	1.3	0.0	0.0	0.0	0.0	0.0
57.5°	3.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.3	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)