

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: P180378

Luminaire Tested: **ICM-E03-LED-E1-SL2-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180378
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-E03-LED-E1-SL2-HSS
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5117 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 75.2
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

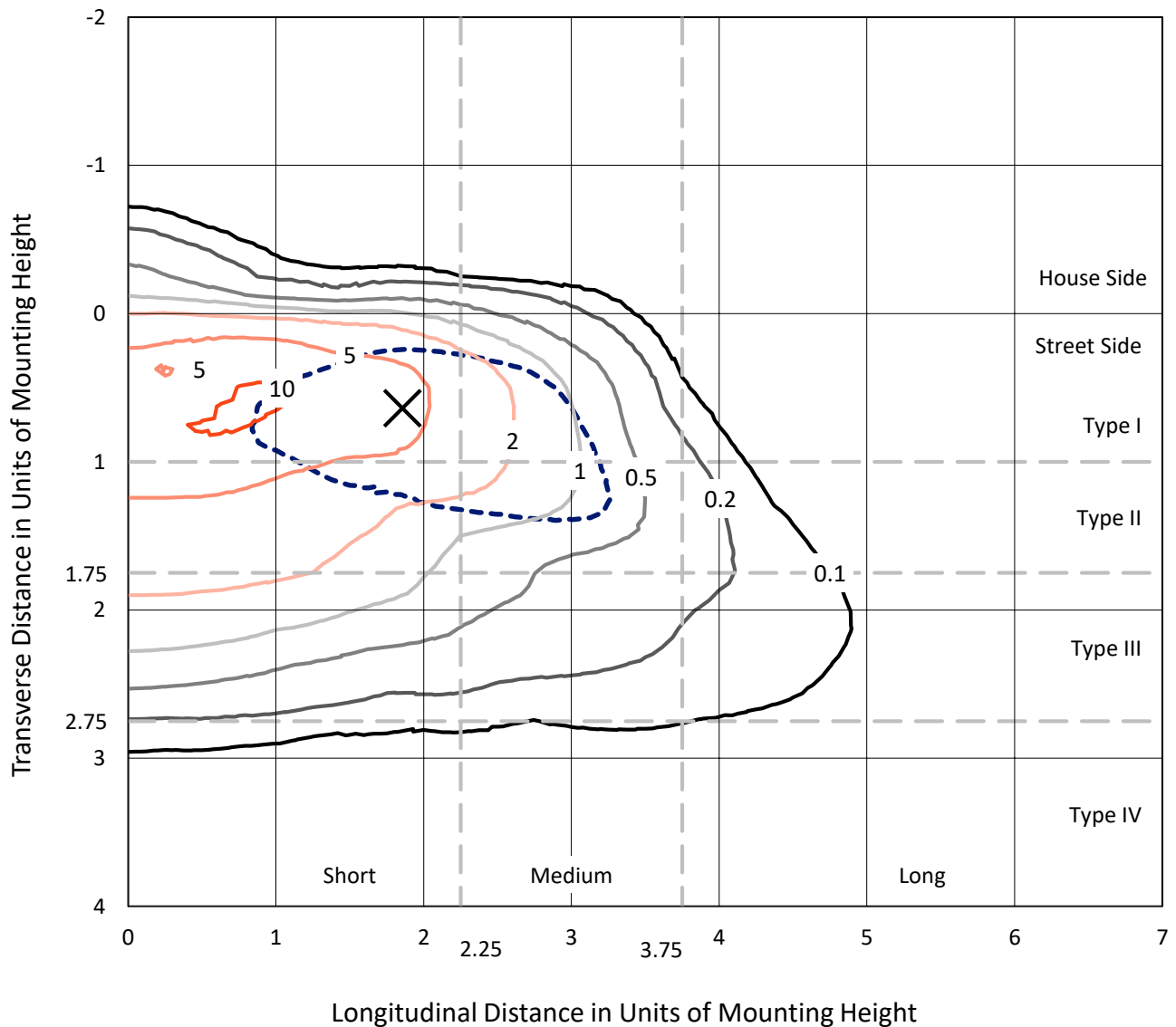


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

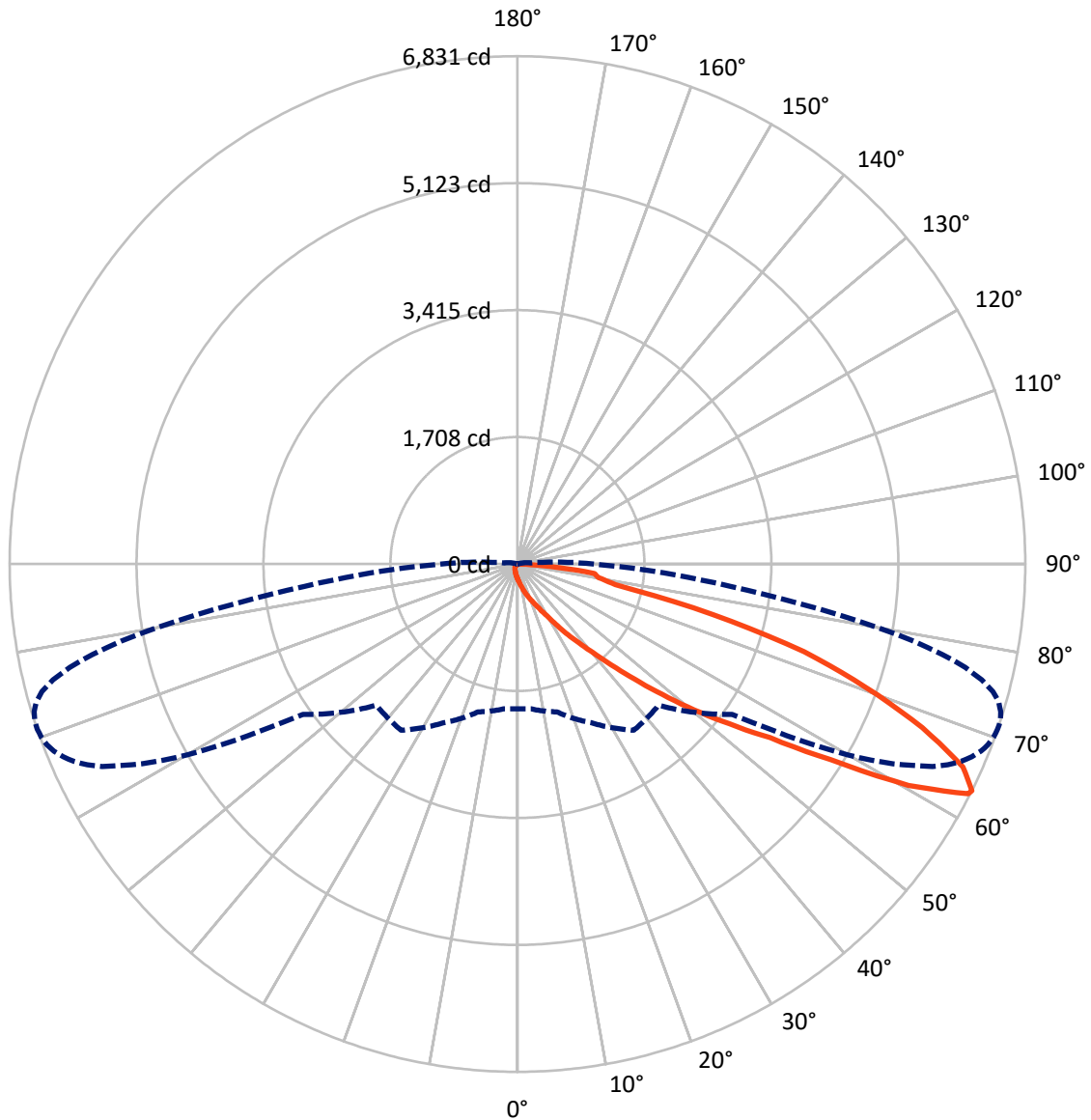


Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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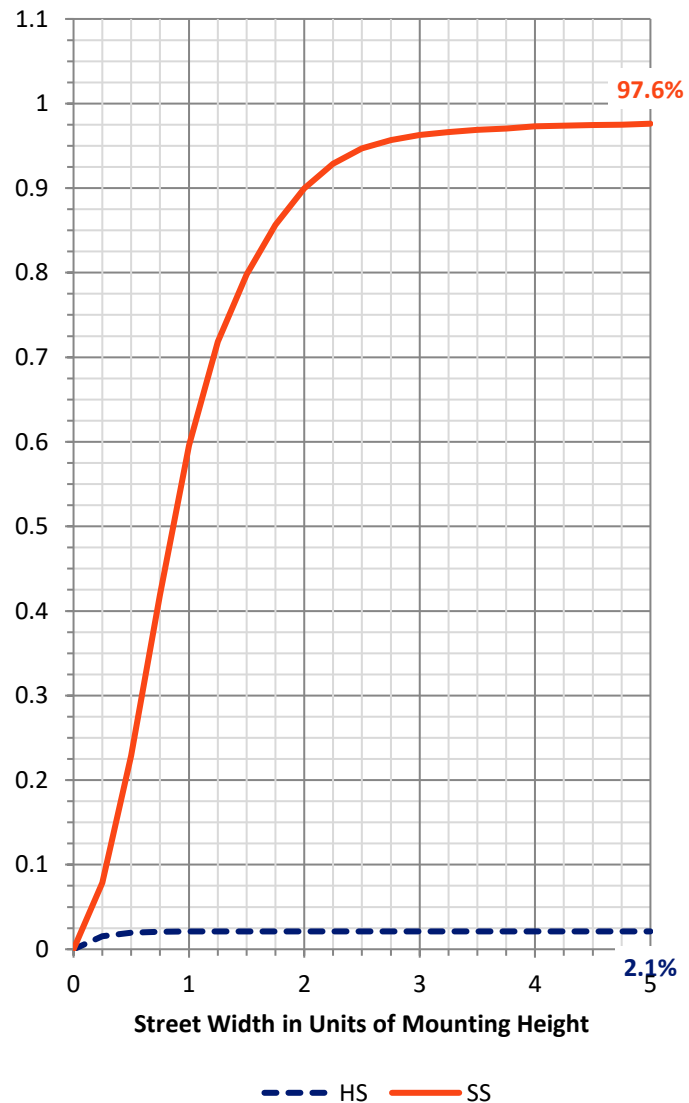
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	108.6	0.0	108.6
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	5008.3	0.0	5008.3
	% Fixture	97.9	0.0	97.9
Total	Lumens	5117.0	0.0	5117.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.7	0.4
10°-20°	84.1	1.6
20°-30°	170.9	3.3
30°-40°	417.5	8.2
40°-50°	933.8	18.2
50°-60°	1313.0	25.7
60°-70°	1543.9	30.2
70°-80°	557.5	10.9
80°-90°	74.6	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°	5117.0	100.0
0°-180°	5117.0	100.0



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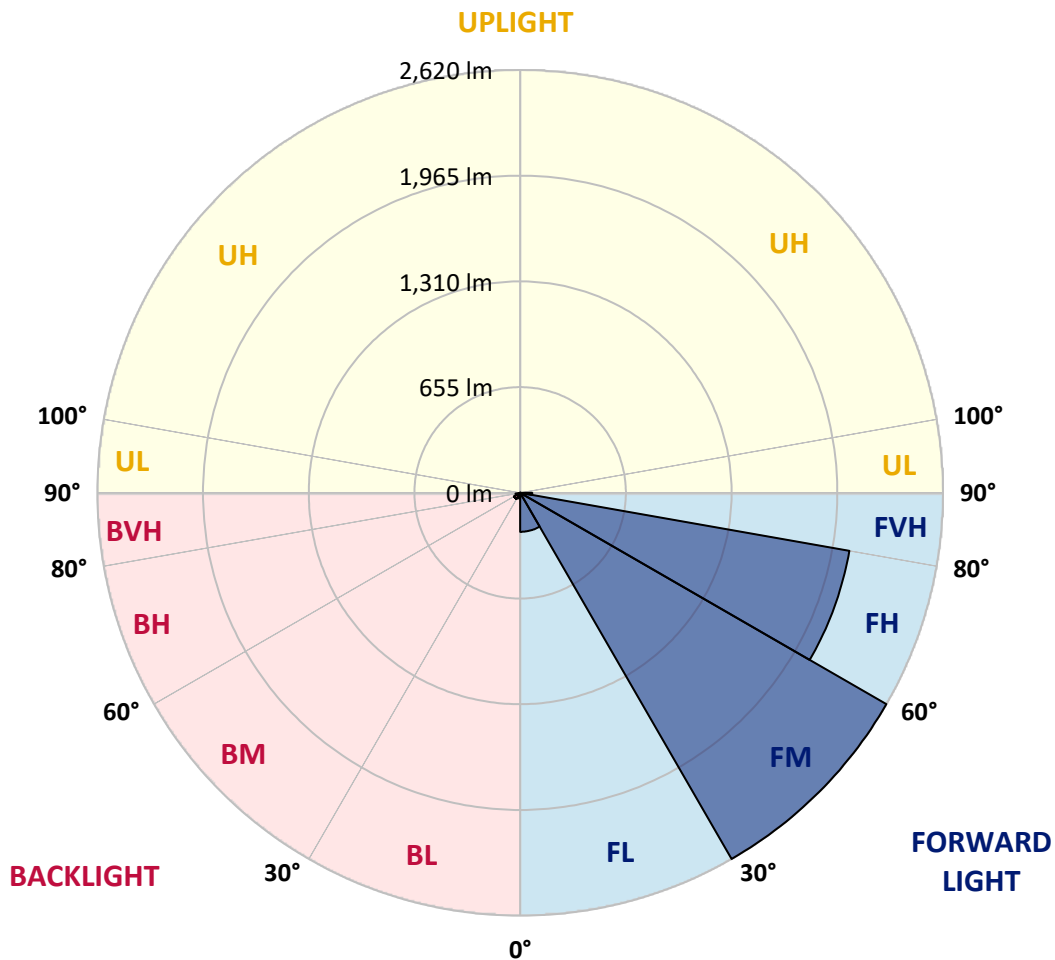
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	241.8	4.7			
FM (30°-60°)	2620.5	51.2			
FH (60°-80°)	2071.7	40.5			G2/5000
FVH (80°-90°)	74.4	1.5			G1/100
BL (0°-30°)	34.9	0.7	B0/110		
BM (30°-60°)	43.8	0.9	B0/220		
BH (60°-80°)	29.8	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°	196.3	196.3	196.3	196.3	196.3	196.3	196.3	196.3	196.3	196.3	196.3
2.5°	256.7	259.5	257.7	253.0	247.4	240.0	233.5	233.5	232.6	229.8	230.7
5°	336.7	337.7	334.0	322.8	312.6	296.7	279.1	277.2	275.4	272.6	271.6
7.5°	414.9	418.6	414.9	402.8	382.3	358.1	330.2	327.4	321.9	321.9	318.1
10°	494.9	494.9	491.2	477.2	458.6	424.2	388.8	384.2	377.7	375.8	370.2
12.5°	551.6	551.6	549.8	542.3	527.4	496.7	454.0	449.3	440.9	438.1	431.6
15°	574.0	574.0	574.9	581.4	582.3	568.4	523.7	520.0	511.6	504.2	501.4
17.5°	587.9	587.0	587.0	596.3	613.0	622.3	593.5	589.8	580.5	576.7	567.4
20°	618.6	616.7	611.2	611.2	627.0	659.5	659.5	658.6	648.4	645.6	640.9
22.5°	664.2	662.3	645.6	631.6	639.1	680.0	718.1	716.3	712.6	708.8	706.1
25°	738.6	732.1	703.3	662.3	655.8	699.5	762.8	767.4	770.2	770.2	772.1
27.5°	851.2	842.8	791.6	715.4	686.5	731.2	812.1	821.4	829.8	831.6	840.0
30°	1007.4	992.6	919.1	807.4	741.4	777.7	884.7	894.9	907.0	910.7	923.7
32.5°	1264.2	1255.8	1185.1	1017.7	876.3	868.8	986.1	999.1	1014.9	1021.4	1037.2
35°	1654.9	1656.8	1599.1	1448.4	1253.0	1150.7	1167.4	1178.6	1184.2	1203.7	1212.1
37.5°	1920.0	1924.7	1937.7	1878.2	1738.6	1634.4	1503.3	1515.4	1486.5	1489.3	1490.2
40°	2065.1	2080.0	2156.3	2214.0	2202.8	2142.3	2037.2	2043.7	1989.8	1977.7	1919.1
42.5°	2161.9	2181.4	2303.3	2481.9	2573.0	2627.9	2603.7	2600.9	2559.1	2543.3	2494.0
45°	2222.3	2240.0	2393.5	2656.8	2867.0	3027.0	3093.0	3100.5	3065.1	3049.3	3008.4
47.5°	2219.5	2240.0	2404.7	2721.9	3031.6	3287.5	3473.5	3482.8	3504.2	3490.3	3493.0
50°	2096.8	2116.3	2281.9	2611.2	2983.3	3406.5	3747.0	3776.8	3811.2	3834.4	3845.6
52.5°	1947.9	1961.9	2108.9	2421.4	2776.8	3357.2	3908.9	3960.0	4011.2	4054.9	4085.6
55°	1893.0	1908.8	2024.2	2283.7	2611.2	3150.7	3984.2	4059.6	4132.1	4203.7	4262.4
57.5°	1921.9	1936.8	2019.5	2218.6	2512.6	2933.0	4005.6	4122.8	4241.9	4358.2	4473.5
60°	2027.9	2043.7	2114.4	2279.1	2486.5	2807.5	3921.9	4116.3	4314.4	4517.2	4707.9
62.5°	1986.1	1992.6	2096.8	2385.1	2672.6	2700.5	3617.7	3889.3	4191.7	4504.2	4812.1
63°	1946.1	1953.5	2059.5	2356.3	2729.3	2684.7	3523.7	3810.3	4129.3	4466.1	4801.0
65°	1764.7	1765.6	1846.5	2080.9	2666.1	2712.6	3105.1	3378.6	3745.1	4148.9	4572.1
67.5°	1317.2	1310.7	1388.8	1567.5	2093.0	2713.5	2665.1	2818.6	3073.5	3431.6	3811.2
70°	467.0	456.7	583.3	830.7	1304.2	2219.5	2290.2	2300.5	2371.2	2564.7	2802.8
72.5°	151.6	154.4	186.0	304.2	600.9	1494.0	2073.5	2041.9	2023.3	2022.3	2054.0
75°	60.5	61.4	74.4	134.9	269.8	720.0	1815.8	1833.5	1840.0	1849.3	1859.5
77.5°	28.8	31.6	41.9	75.3	134.0	356.3	1299.5	1449.3	1534.9	1600.9	1640.9
80°	10.2	12.1	23.3	46.5	62.3	163.7	684.7	826.1	951.6	1113.5	1253.0
82.5°	0.0	0.0	4.7	32.6	34.4	66.0	280.9	329.3	376.7	488.4	627.0
85°	0.0	0.0	0.0	9.3	10.2	11.2	94.9	114.4	128.4	149.8	173.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.8	5.6	14.0	21.4
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°	196.3	196.3	196.3	196.3	196.3	196.3	196.3	196.3	196.3	196.3	196.3
2.5°	228.8	227.9	227.9	226.0	225.1	223.3	222.3	219.5	218.6	218.6	218.6
5°	270.7	267.0	265.1	260.5	257.7	256.7	252.1	250.2	247.4	248.4	243.7
7.5°	317.2	310.7	307.9	301.4	299.5	293.0	291.2	286.5	283.7	278.1	276.3
10°	368.4	360.0	355.4	345.1	342.3	337.7	332.1	326.5	321.9	316.3	313.5
12.5°	427.0	419.5	415.8	401.9	395.4	388.8	381.4	374.0	366.5	361.9	355.4
15°	495.8	483.7	480.0	467.0	455.8	447.4	437.2	427.9	422.3	413.0	406.5
17.5°	563.7	551.6	548.8	529.3	517.2	511.6	500.5	488.4	478.1	468.8	458.6
20°	631.6	623.3	615.8	597.2	584.2	574.9	560.0	547.9	539.5	526.5	513.5
22.5°	699.5	691.2	685.6	666.1	654.0	640.9	627.9	614.9	602.8	587.0	572.1
25°	769.3	763.7	760.9	743.3	732.1	720.0	707.0	692.1	677.2	659.5	643.7
27.5°	841.9	843.7	838.1	834.4	822.3	814.0	793.5	783.3	772.1	750.7	731.2
30°	934.0	939.5	937.7	940.5	933.0	927.4	911.6	898.6	885.6	865.1	842.8
32.5°	1050.2	1057.7	1061.4	1071.6	1067.9	1066.1	1061.4	1042.8	1033.5	998.1	988.8
35°	1229.8	1226.1	1241.9	1250.2	1246.5	1244.7	1239.1	1228.8	1217.7	1192.6	1169.3
37.5°	1463.3	1467.0	1472.6	1455.8	1444.7	1443.7	1427.0	1416.8	1400.9	1373.0	1345.1
40°	1891.2	1867.9	1841.9	1771.2	1740.5	1722.8	1673.5	1659.5	1632.6	1594.4	1565.6
42.5°	2447.5	2424.2	2346.1	2227.9	2164.7	2077.2	2037.2	1987.9	1949.8	1887.5	1854.0
45°	3000.0	2933.0	2923.7	2786.1	2707.9	2592.6	2520.9	2438.2	2351.6	2269.8	2210.2
47.5°	3466.1	3451.2	3405.6	3321.9	3249.3	3152.6	3060.5	2933.0	2843.7	2727.5	2620.5
50°	3839.1	3838.2	3821.4	3773.0	3712.6	3634.4	3553.5	3445.6	3344.2	3201.9	3087.5
52.5°	4118.2	4133.0	4138.6	4123.7	4100.5	4031.7	3990.7	3900.5	3814.9	3694.0	3570.3
55°	4322.8	4377.7	4405.6	4437.2	4430.7	4406.5	4404.7	4346.1	4307.0	4211.2	4123.7
57.5°	4575.8	4666.1	4752.6	4906.1	4911.7	4965.6	4993.5	5021.4	5028.9	4990.7	4961.9
60°	4897.7	5081.9	5245.6	5566.5	5650.3	5782.4	5867.9	5961.0	6040.0	6046.5	6044.7
62.5°	5124.7	5408.4	5672.6	6148.9	6311.7	6464.2	6578.6	6668.9	6723.8	6779.6	6805.6
63°	5131.2	5441.9	5722.8	6214.0	6385.2	6530.3	6639.1	6722.8	6780.5	6814.0	6830.7
65°	4974.0	5350.7	5685.6	6174.9	6335.9	6481.9	6538.6	6593.5	6621.4	6634.5	6585.2
67.5°	4215.8	4584.2	4974.9	5521.9	5659.6	5834.5	5881.0	5908.9	5921.9	5919.1	5877.2
70°	3152.6	3461.4	3895.8	4521.0	4703.3	4874.4	4980.5	5026.1	5041.0	5036.3	4974.0
72.5°	2200.9	2382.3	2740.5	3436.3	3684.7	3904.2	4035.4	4103.3	4117.2	4089.3	4031.7
75°	1848.4	1857.7	1938.6	2319.1	2551.6	2786.1	2934.0	2976.8	2948.9	2864.2	2717.2
77.5°	1650.2	1670.7	1670.7	1727.5	1773.0	1838.2	1852.1	1747.9	1627.0	1470.7	1344.2
80°	1384.2	1455.8	1506.1	1547.9	1552.6	1539.5	1505.1	1446.5	1353.5	1234.4	1102.3
82.5°	840.9	982.3	1040.0	1255.8	1361.9	1433.5	1427.9	1349.8	1279.1	1155.4	1042.8
85°	212.1	228.8	248.4	322.8	361.9	441.9	492.1	515.4	523.7	480.9	435.4
87.5°	20.5	14.0	23.3	17.7	25.1	18.6	25.1	23.3	28.8	30.7	33.5
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°	196.3	196.3	196.3	196.3	196.3	196.3	196.3	196.3	196.3	196.3	196.3
2.5°	216.7	215.8	214.9	214.0	213.0	212.1	210.2	210.2	208.4	207.4	206.5
5°	240.9	239.1	238.1	236.3	233.5	231.6	228.8	225.1	222.3	221.4	219.5
7.5°	271.6	267.0	265.1	262.3	258.6	253.0	249.3	246.5	241.9	239.1	233.5
10°	306.0	301.4	295.8	290.2	284.7	278.1	273.5	269.8	262.3	258.6	252.1
12.5°	349.8	341.4	334.9	327.4	320.0	312.6	307.0	295.8	289.3	280.9	275.4
15°	394.4	387.0	379.5	370.2	359.1	347.0	341.4	331.2	322.8	309.8	302.3
17.5°	448.4	434.4	423.3	412.1	401.9	390.7	379.5	363.7	351.6	340.5	325.6
20°	501.4	484.7	472.6	457.7	442.8	425.1	412.1	400.9	384.2	369.3	353.5
22.5°	558.1	541.4	521.9	507.0	486.5	472.6	454.9	436.3	419.5	400.0	380.5
25°	627.0	609.3	587.0	567.4	544.2	524.7	503.3	481.9	461.4	439.1	414.0
27.5°	711.6	693.0	668.8	645.6	614.9	590.7	570.2	541.4	515.4	487.4	458.6
30°	818.6	798.1	768.4	734.9	704.2	677.2	648.4	610.2	581.4	547.9	510.7
32.5°	958.1	934.0	894.0	862.3	824.2	788.8	748.8	710.7	669.8	626.1	583.3
35°	1134.0	1111.6	1065.1	1018.6	976.8	934.9	884.7	840.9	783.3	730.2	675.4
37.5°	1316.3	1276.3	1233.5	1183.3	1131.2	1080.9	1019.5	959.1	893.0	835.4	766.5
40°	1524.7	1476.3	1440.9	1387.0	1313.5	1241.9	1185.1	1109.8	1027.0	949.8	868.8
42.5°	1810.2	1756.3	1693.0	1611.2	1558.1	1474.4	1400.9	1311.6	1202.8	1116.3	1018.6
45°	2140.5	2067.0	2005.6	1926.5	1862.3	1758.2	1672.6	1553.5	1444.7	1331.2	1212.1
47.5°	2517.2	2426.1	2336.8	2258.6	2156.3	2054.0	1945.1	1818.6	1679.1	1554.4	1413.0
50°	2949.8	2820.5	2696.8	2596.3	2455.8	2337.7	2219.5	2077.2	1922.8	1779.5	1618.6
52.5°	3430.7	3281.0	3117.2	2962.8	2800.0	2648.4	2506.1	2342.3	2170.2	1995.4	1815.8
55°	4011.2	3898.6	3706.1	3509.8	3292.1	3089.3	2906.1	2703.3	2494.0	2264.2	2075.4
57.5°	4920.0	4865.1	4704.2	4507.9	4224.2	3977.7	3667.0	3418.6	3115.4	2799.1	2555.4
60°	6151.7	6083.8	5993.5	5834.5	5609.3	5274.5	4932.1	4546.1	4084.7	3646.5	3230.7
62.5°	6808.4	6784.2	6710.7	6601.0	6390.7	6126.5	5781.4	5357.2	4836.3	4304.2	3774.0
63°	6827.9	6797.3	6734.0	6622.4	6437.2	6181.4	5842.8	5430.7	4921.0	4378.6	3837.2
65°	6563.8	6551.7	6487.5	6365.6	6239.1	6043.8	5781.4	5427.0	4999.1	4486.5	3947.9
67.5°	5821.4	5785.2	5686.5	5649.3	5561.0	5425.1	5225.1	4981.4	4675.4	4272.6	3807.5
70°	4923.8	4869.8	4746.1	4680.0	4572.1	4486.5	4364.7	4190.7	4001.9	3721.0	3374.0
72.5°	3972.1	3860.5	3747.0	3574.9	3424.2	3271.6	3136.8	3014.0	2806.5	2693.0	2429.8
75°	2579.6	2376.8	2182.3	1921.9	1687.5	1480.0	1278.1	1175.8	962.8	876.3	752.6
77.5°	1224.2	1110.7	958.1	840.0	689.3	562.8	459.5	345.1	270.7	212.1	161.9
80°	987.9	892.1	800.0	693.0	579.5	462.3	354.4	265.1	187.9	130.2	92.1
82.5°	880.9	776.7	663.3	589.8	512.6	419.5	344.2	280.9	207.4	151.6	103.3
85°	342.3	288.4	222.3	181.4	141.4	116.3	105.1	72.6	56.7	44.7	34.4
87.5°	29.8	24.2	19.5	13.0	14.0	7.4	8.4	5.6	4.7	4.7	3.7
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°	196.3	196.3	196.3	196.3	196.3	196.3	196.3	196.3	196.3	196.3	196.3
2.5°	205.6	204.7	203.7	201.9	201.9	200.0	199.1	198.1	193.5	183.3	174.9
5°	215.8	214.0	212.1	209.3	207.4	204.7	202.8	200.0	189.8	170.2	153.5
7.5°	230.7	227.0	224.2	218.6	215.8	212.1	209.3	204.7	187.9	158.1	134.9
10°	248.4	241.9	237.2	230.7	225.1	220.5	215.8	209.3	186.0	145.1	118.1
12.5°	269.8	262.3	253.0	245.6	238.1	231.6	225.1	216.7	183.3	134.0	105.1
15°	291.2	280.0	273.5	263.3	253.0	243.7	234.4	227.0	184.2	121.9	94.0
17.5°	315.4	304.2	290.2	279.1	267.9	255.8	244.7	229.8	179.5	112.6	85.6
20°	338.6	322.8	309.8	295.8	280.0	265.1	251.2	238.1	175.8	103.3	78.1
22.5°	363.7	345.1	328.4	310.7	291.2	274.4	257.7	240.9	169.3	94.9	71.6
25°	394.4	373.0	348.8	327.4	307.0	286.5	265.1	244.7	162.8	87.4	67.0
27.5°	431.6	403.7	379.5	352.6	323.7	297.7	274.4	252.1	156.3	81.9	62.3
30°	479.1	446.5	412.1	377.7	347.0	317.2	284.7	256.7	149.8	76.3	57.7
32.5°	542.3	501.4	459.5	419.5	378.6	340.5	306.0	269.8	146.0	71.6	53.0
35°	626.1	573.0	521.9	471.6	422.3	375.8	331.2	290.2	146.0	66.0	47.4
37.5°	705.1	643.7	578.6	516.3	457.7	403.7	350.7	301.4	138.6	61.4	42.8
40°	790.7	717.2	640.9	567.4	496.7	429.8	369.3	312.6	132.1	55.8	38.1
42.5°	921.9	828.8	729.3	643.7	559.1	476.3	400.9	334.0	123.7	50.2	33.5
45°	1094.0	975.8	858.6	754.4	646.5	545.1	455.8	373.0	121.9	45.6	28.8
47.5°	1278.1	1138.6	1000.9	867.9	741.4	623.3	516.3	416.7	121.9	40.9	25.1
50°	1461.4	1286.5	1139.5	985.1	842.8	703.3	575.8	462.3	122.8	37.2	20.5
52.5°	1627.0	1440.0	1275.4	1096.8	939.5	777.7	639.1	507.0	120.9	32.6	16.7
55°	1856.8	1637.2	1446.5	1249.3	1065.1	882.8	725.6	574.0	121.9	28.8	14.0
57.5°	2280.0	2022.3	1792.6	1534.0	1321.9	1086.5	895.8	711.6	133.0	24.2	10.2
60°	2887.5	2552.6	2229.8	1914.4	1644.7	1364.7	1117.2	900.5	156.3	19.5	7.4
62.5°	3295.8	2857.7	2472.6	2124.7	1811.2	1518.1	1248.4	1001.9	172.1	15.8	4.7
63°	3337.7	2884.7	2497.7	2138.6	1818.6	1525.6	1254.0	1009.3	173.0	14.9	4.7
65°	3416.8	2931.2	2511.6	2141.4	1811.2	1515.4	1250.2	1008.4	174.9	12.1	3.7
67.5°	3326.5	2859.6	2430.7	2061.4	1746.1	1454.9	1203.7	971.2	174.0	8.4	2.8
70°	2974.9	2587.9	2211.2	1867.0	1580.5	1317.2	1095.8	885.6	160.0	5.6	1.9
72.5°	2184.2	1920.9	1628.8	1380.5	1190.7	988.8	843.7	665.1	123.7	3.7	0.9
75°	647.4	589.8	495.8	437.2	386.0	319.1	283.7	221.4	63.3	1.9	0.0
77.5°	129.3	117.2	105.1	95.8	90.2	77.2	73.5	60.5	26.0	0.9	0.0
80°	67.9	55.8	47.4	41.9	36.3	29.8	25.1	20.5	4.7	0.0	0.0
82.5°	65.1	43.7	31.6	26.0	22.3	17.7	14.0	10.2	2.8	0.0	0.0
85°	24.2	18.6	14.0	11.2	9.3	8.4	6.5	5.6	0.0	0.0	0.0
87.5°	3.7	2.8	2.8	1.9	1.9	0.9	0.9	0.9	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°	196.3	196.3	196.3	196.3	196.3	196.3	196.3
2.5°	166.5	159.1	155.3	150.7	150.7	149.8	151.6
5°	138.6	128.4	120.9	115.3	116.3	113.5	114.4
7.5°	117.2	107.0	100.5	96.7	95.8	94.9	94.9
10°	101.4	92.1	86.5	83.7	82.8	82.8	82.8
12.5°	90.2	80.9	76.3	74.4	74.4	73.5	73.5
15°	80.9	73.5	68.8	67.0	67.0	66.0	67.0
17.5°	73.5	66.0	62.3	60.5	60.5	59.5	59.5
20°	67.0	60.5	56.7	54.0	54.0	53.0	54.0
22.5°	61.4	54.9	50.2	48.4	47.4	46.5	47.4
25°	55.8	49.3	44.7	41.9	40.9	40.9	40.0
27.5°	51.2	44.7	39.1	36.3	35.3	35.3	34.4
30°	46.5	39.1	33.5	30.7	29.8	29.8	29.8
32.5°	41.9	33.5	28.8	26.0	25.1	25.1	25.1
35°	37.2	28.8	24.2	21.4	20.5	20.5	20.5
37.5°	31.6	24.2	18.6	16.7	15.8	14.9	14.9
40°	27.0	18.6	14.0	12.1	10.2	10.2	10.2
42.5°	22.3	14.9	10.2	7.4	6.5	5.6	6.5
45°	18.6	11.2	6.5	3.7	2.8	2.8	2.8
47.5°	14.9	7.4	2.8	0.9	0.9	0.9	0.9
50°	11.2	4.7	0.9	0.0	0.0	0.9	0.9
52.5°	8.4	2.8	0.0	0.0	0.0	0.0	0.0
55°	4.7	0.9	0.0	0.0	0.0	0.0	0.0
57.5°	2.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.9	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.9	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.9	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)