

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: P675895

Luminaire Tested: **CCW-SA-2D-830-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675895
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-830-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SLL distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

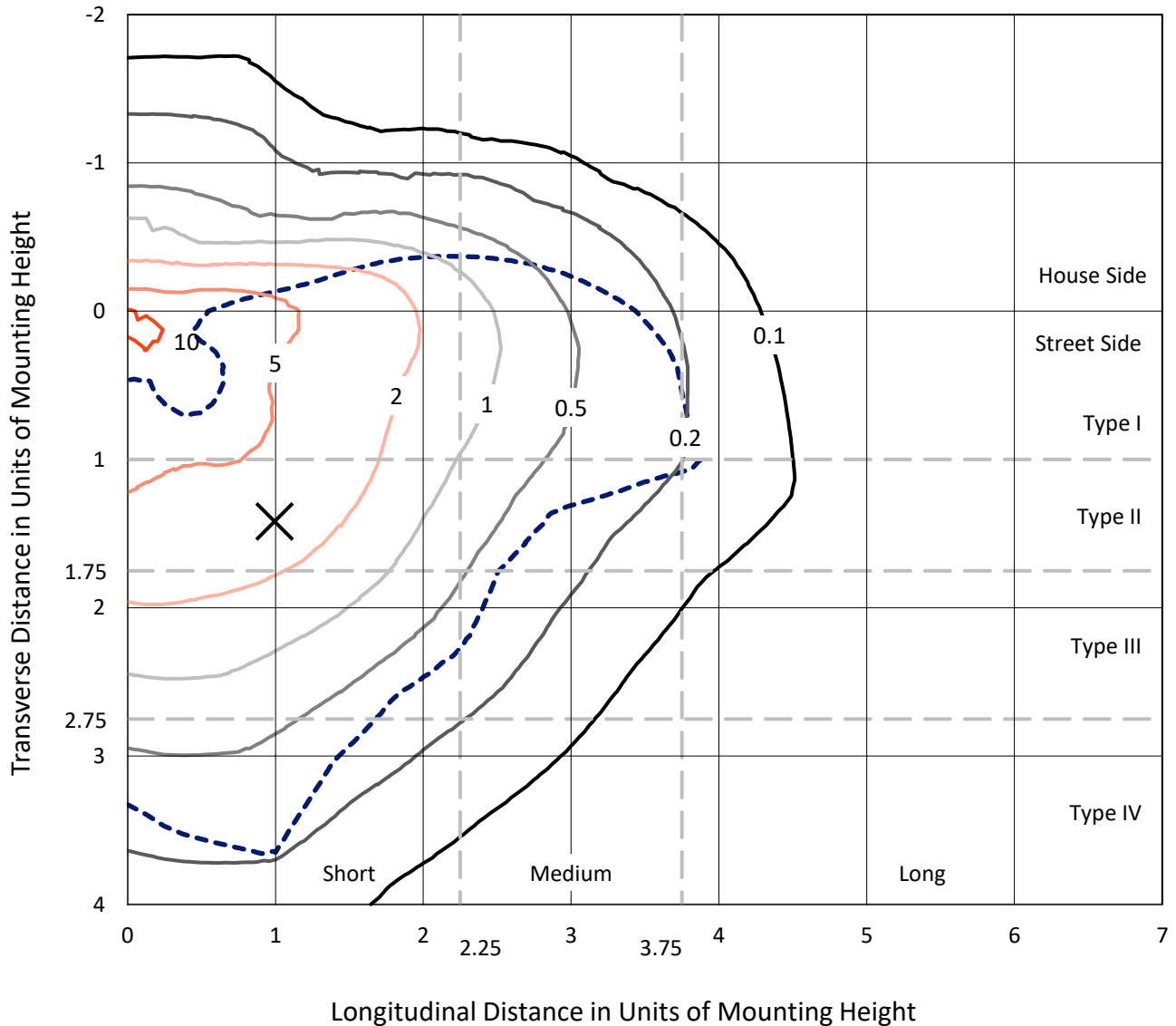
Lumens per Lamp: N/A
Luminaire Lumens: 7353 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 80.8
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

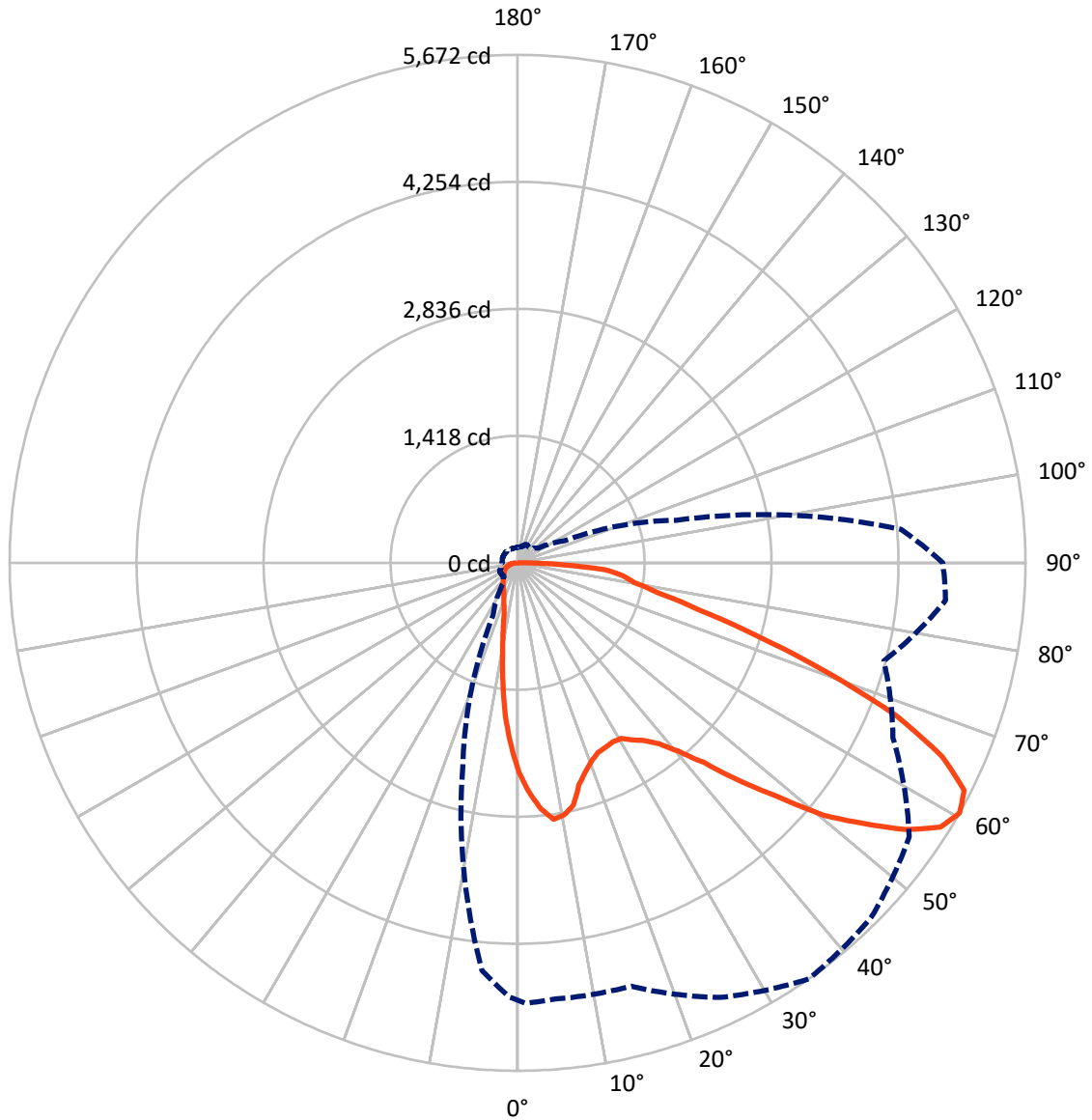
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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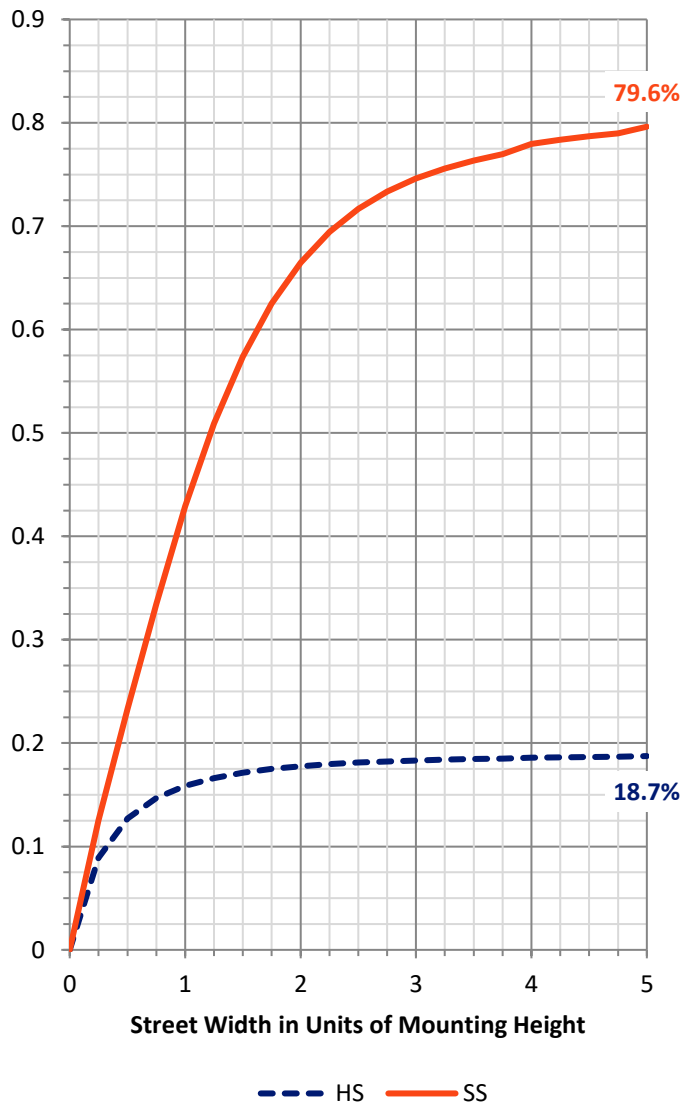
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1399.4	0.0	1399.4
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	5953.7	0.0	5953.7
	% Fixture	81.0	0.0	81.0
Total	Lumens	7353.0	0.0	7353.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.5	2.5
10°-20°	385.2	5.2
20°-30°	563.6	7.7
30°-40°	794.1	10.8
40°-50°	1091.3	14.8
50°-60°	1487.3	20.2
60°-70°	1627.8	22.1
70°-80°	939.8	12.8
80°-90°	281.4	3.8
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°	7353.0	100.0
0°-180°	7353.0	100.0

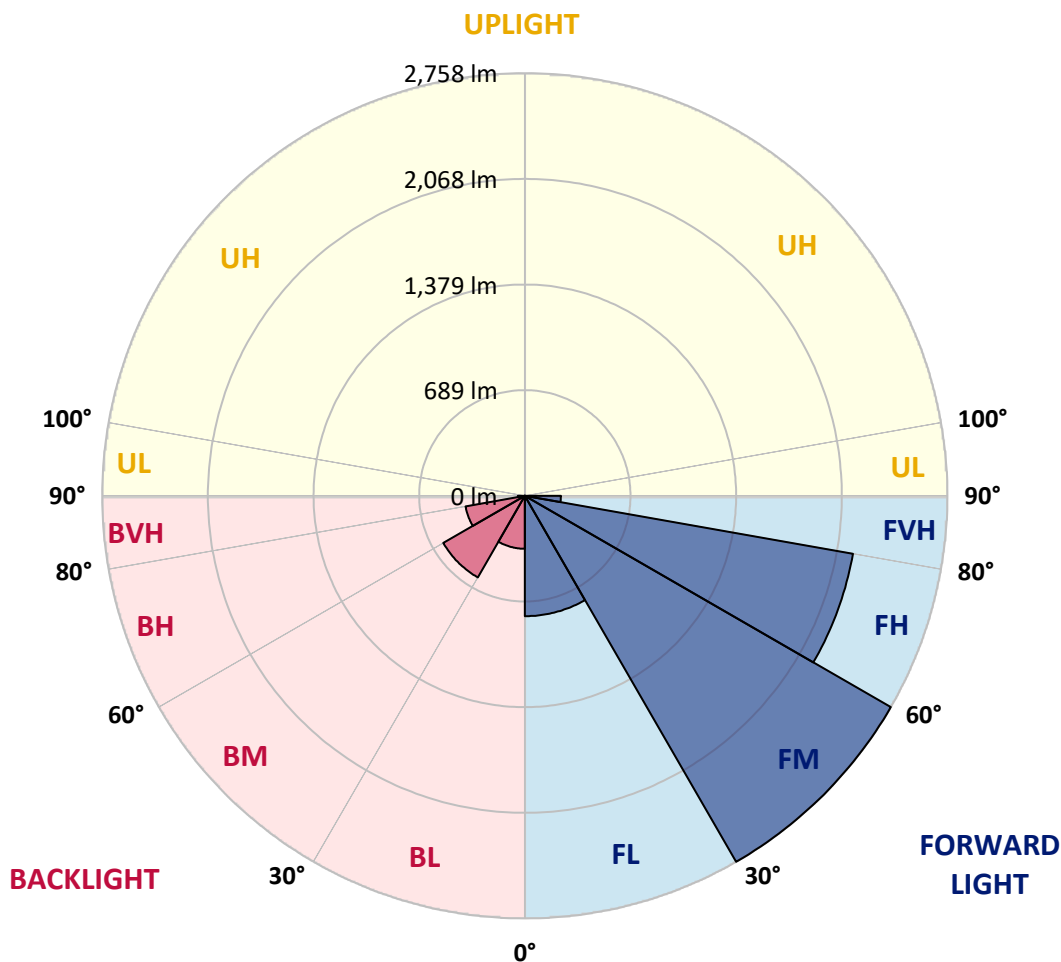


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	785.5	10.7			
FM (30°-60°)	2758.0	37.5			
FH (60°-80°)	2174.6	29.6			G2/5000
FVH (80°-90°)	235.6	3.2			G3/500
BL (0°-30°)	345.7	4.7	B1/500		
BM (30°-60°)	614.7	8.4	B1/1000		
BH (60°-80°)	393.0	5.3	B1/500		G1/500
BVH (80°-90°)	45.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2348.5	2348.5	2348.5	2348.5	2348.5	2348.5	2348.5	2348.5	2348.5	2348.5	2348.5
2.5°	2514.9	2505.1	2514.9	2550.8	2560.5	2576.8	2576.8	2554.0	2511.6	2492.0	2459.4
5°	2570.3	2554.0	2635.6	2710.6	2769.3	2762.8	2707.3	2661.7	2576.8	2449.6	2328.9
7.5°	2459.4	2475.7	2534.4	2730.2	2867.1	2893.2	2805.2	2713.8	2531.2	2355.0	2191.9
10°	2250.7	2273.5	2400.7	2602.9	2818.2	2860.6	2805.2	2694.3	2475.7	2257.2	2068.0
12.5°	2149.5	2201.7	2276.8	2521.4	2674.7	2775.8	2749.7	2678.0	2433.3	2175.6	1993.0
15°	2149.5	2162.6	2273.5	2479.0	2567.1	2570.3	2580.1	2593.2	2446.4	2211.5	1966.9
17.5°	2218.0	2253.9	2348.5	2475.7	2492.0	2452.9	2452.9	2508.3	2472.5	2312.6	2061.5
20°	2384.4	2371.4	2495.3	2547.5	2459.4	2361.6	2351.8	2446.4	2501.8	2420.3	2234.4
22.5°	2550.8	2609.5	2710.6	2593.2	2430.1	2299.6	2286.5	2404.0	2589.9	2606.2	2433.3
25°	2801.9	2860.6	2912.8	2769.3	2426.8	2283.3	2293.1	2384.4	2697.5	2870.4	2766.0
27.5°	3072.6	3108.5	3183.5	2961.7	2505.1	2263.7	2273.5	2410.5	2798.7	3043.3	3027.0
30°	3226.0	3265.1	3248.8	2997.6	2557.3	2276.8	2250.7	2446.4	2743.2	3043.3	3196.6
32.5°	3376.0	3353.2	3343.4	3056.3	2622.5	2358.3	2293.1	2521.4	2775.8	3092.2	3415.1
35°	3558.7	3526.0	3499.9	3170.5	2730.2	2436.6	2407.2	2619.2	2847.6	3193.3	3591.3
37.5°	3760.9	3760.9	3633.7	3255.3	2857.4	2563.8	2531.2	2759.5	2961.7	3255.3	3832.7
40°	3999.0	4008.8	3783.7	3369.5	3000.9	2766.0	2756.2	2942.2	3072.6	3346.6	4064.2
42.5°	4175.1	4181.7	3914.2	3411.9	3167.2	3046.5	3089.0	3235.7	3199.9	3428.2	4080.5
45°	4295.8	4263.2	4005.5	3532.6	3349.9	3467.3	3480.4	3522.8	3366.2	3477.1	4145.8
47.5°	4354.5	4348.0	4044.7	3672.8	3734.8	3894.6	3969.6	3910.9	3519.5	3424.9	4145.8
50°	4413.3	4357.8	4080.5	3865.3	4109.9	4432.8	4416.5	4308.9	3731.5	3490.2	4083.8
52.5°	4452.4	4403.5	4152.3	4038.1	4468.7	4834.0	4899.3	4700.3	3979.4	3610.8	4113.2
55°	4592.7	4553.5	4367.6	4273.0	4883.0	5258.1	5267.9	4990.6	4240.4	3809.8	4305.6
57.5°	4762.3	4785.1	4664.4	4605.7	5199.4	5567.9	5532.1	5205.9	4462.2	4051.2	4527.4
60°	4883.0	4918.8	4889.5	4896.0	5355.9	5672.3	5590.8	5339.6	4625.3	4233.9	4798.2
62.5°	4817.7	4889.5	5010.2	4984.1	5362.4	5597.3	5483.1	5163.5	4644.8	4472.0	5003.6
65°	4638.3	4644.8	4879.7	5023.2	5068.9	5209.1	5059.1	4794.9	4442.6	4618.8	4974.3
67.5°	4178.4	4230.6	4442.6	4723.1	4530.7	4563.3	4550.3	4168.6	4136.0	4517.6	4749.2
70°	3689.1	3725.0	3956.6	4286.0	3826.1	3672.8	3702.2	3418.4	3552.1	4204.5	4295.8
72.5°	3049.8	3072.6	3336.9	3627.2	3069.4	2795.4	2863.9	2632.3	2821.5	3679.3	3623.9
75°	2302.9	2345.3	2550.8	2893.2	2260.4	2084.3	2152.8	2058.2	2234.4	3030.2	2811.7
77.5°	1637.4	1604.8	1859.2	2263.7	1699.4	1595.0	1601.6	1617.9	1807.1	2554.0	2019.1
80°	1115.5	1125.3	1353.7	1660.3	1334.1	1317.8	1301.5	1431.9	1516.8	2022.3	1467.8
82.5°	662.2	662.2	913.3	1180.8	1053.6	1187.3	1112.3	1229.7	1187.3	1487.4	962.2
85°	309.9	309.9	469.7	851.3	815.5	978.5	831.8	929.6	877.4	1037.3	433.8
87.5°	52.2	45.7	94.6	417.5	336.0	381.6	150.0	495.8	551.2	724.1	107.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2348.5	2348.5	2348.5	2348.5	2348.5	2348.5	2348.5	2348.5	2348.5	2348.5	2348.5
2.5°	2423.5	2400.7	2355.0	2296.3	2247.4	2185.4	2165.9	2123.5	2064.7	2058.2	2032.1
5°	2283.3	2205.0	2107.1	1986.5	1904.9	1820.1	1748.3	1705.9	1657.0	1650.5	1637.4
7.5°	2130.0	2032.1	1869.0	1725.5	1585.2	1451.5	1386.3	1304.7	1249.3	1206.9	1187.3
10°	1986.5	1895.1	1692.9	1497.2	1373.2	1285.2	1206.9	1122.1	1053.6	1001.4	981.8
12.5°	1891.9	1784.2	1565.7	1379.8	1288.4	1187.3	1099.2	1007.9	919.8	851.3	815.5
15°	1849.5	1748.3	1526.5	1321.0	1187.3	1047.0	945.9	854.6	747.0	698.0	681.7
17.5°	1950.6	1800.5	1513.5	1252.5	1063.4	903.5	779.6	681.7	603.4	554.5	534.9
20°	2081.0	1895.1	1536.3	1171.0	945.9	766.5	629.5	525.2	473.0	437.1	433.8
22.5°	2247.4	2035.4	1572.2	1112.3	815.5	616.5	492.5	430.6	394.7	391.4	384.9
25°	2544.2	2289.8	1630.9	1034.0	711.1	508.8	420.8	384.9	368.6	358.8	365.3
27.5°	2798.7	2456.2	1673.3	985.1	668.7	479.5	407.7	368.6	352.3	349.0	352.3
30°	2948.7	2609.5	1660.3	893.7	583.9	456.7	433.8	420.8	388.2	362.1	362.1
32.5°	3085.7	2707.3	1657.0	812.2	499.1	381.6	362.1	352.3	371.8	384.9	375.1
35°	3274.9	2860.6	1647.2	766.5	463.2	352.3	319.7	293.6	280.5	274.0	283.8
37.5°	3477.1	2965.0	1621.1	760.0	443.6	336.0	309.9	283.8	270.7	264.2	260.9
40°	3698.9	3075.9	1591.8	727.4	433.8	326.2	300.1	277.3	260.9	251.2	247.9
42.5°	3842.4	3164.0	1562.4	711.1	414.3	319.7	290.3	270.7	254.4	241.4	241.4
45°	3924.0	3268.4	1533.1	694.8	391.4	322.9	290.3	264.2	244.6	238.1	231.6
47.5°	3959.9	3346.6	1523.3	668.7	371.8	309.9	283.8	257.7	238.1	225.1	221.8
50°	4054.5	3513.0	1559.2	649.1	349.0	296.8	300.1	254.4	234.9	218.5	215.3
52.5°	4109.9	3646.7	1637.4	619.7	332.7	280.5	293.6	247.9	225.1	208.8	208.8
55°	4312.1	3868.5	1722.2	596.9	313.1	257.7	270.7	234.9	208.8	199.0	199.0
57.5°	4569.8	4103.4	1794.0	587.1	300.1	241.4	241.4	228.3	199.0	185.9	182.7
60°	4749.2	4295.8	1836.4	580.6	287.0	225.1	215.3	228.3	189.2	176.1	172.9
62.5°	4768.8	4184.9	1794.0	577.3	283.8	208.8	195.7	218.5	179.4	166.4	159.8
65°	4644.8	3959.9	1676.6	564.3	280.5	192.4	182.7	189.2	166.4	156.6	150.0
67.5°	4396.9	3594.5	1507.0	557.8	277.3	179.4	166.4	163.1	153.3	143.5	137.0
70°	3819.6	3118.3	1308.0	528.4	270.7	169.6	150.0	146.8	137.0	130.5	127.2
72.5°	3206.4	2550.8	1079.7	489.3	257.7	153.3	137.0	130.5	127.2	117.4	114.2
75°	2456.2	1963.6	864.4	433.8	225.1	137.0	120.7	114.2	110.9	104.4	101.1
77.5°	1725.5	1461.3	639.3	352.3	189.2	123.9	107.6	101.1	97.9	88.1	88.1
80°	1171.0	1024.2	433.8	244.6	146.8	101.1	94.6	88.1	81.5	75.0	75.0
82.5°	727.4	717.6	313.1	159.8	107.6	81.5	75.0	75.0	65.2	58.7	58.7
85°	332.7	440.3	218.5	110.9	81.5	62.0	62.0	58.7	52.2	42.4	42.4
87.5°	104.4	146.8	114.2	48.9	45.7	35.9	35.9	32.6	32.6	26.1	26.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2348.5	2348.5	2348.5	2348.5	2348.5	2348.5	2348.5	2348.5	2348.5	2348.5	2348.5
2.5°	2058.2	2055.0	2055.0	2041.9	2074.5	2074.5	2094.1	2077.8	2087.6	2090.8	2116.9
5°	1634.2	1660.3	1679.8	1719.0	1741.8	1751.6	1751.6	1777.7	1767.9	1787.5	1826.6
7.5°	1197.1	1229.7	1288.4	1337.4	1376.5	1389.5	1386.3	1392.8	1402.6	1379.8	1386.3
10°	968.8	945.9	965.5	1011.2	1047.0	1089.5	1056.8	1053.6	1063.4	1053.6	1073.1
12.5°	808.9	782.8	766.5	766.5	792.6	812.2	802.4	818.7	854.6	864.4	887.2
15°	655.6	632.8	619.7	603.4	629.5	636.1	645.8	668.7	694.8	707.8	733.9
17.5°	525.2	525.2	525.2	512.1	521.9	531.7	534.9	564.3	567.6	580.6	590.4
20°	430.6	440.3	456.7	463.2	473.0	473.0	466.4	482.8	469.7	479.5	486.0
22.5°	388.2	401.2	407.7	411.0	424.0	427.3	411.0	414.3	417.5	407.7	411.0
25°	365.3	371.8	365.3	368.6	371.8	365.3	368.6	375.1	371.8	378.4	375.1
27.5°	355.5	349.0	345.8	342.5	342.5	336.0	339.2	339.2	345.8	349.0	349.0
30°	355.5	345.8	332.7	322.9	322.9	313.1	319.7	326.2	329.4	336.0	336.0
32.5°	365.3	345.8	322.9	313.1	303.4	296.8	303.4	313.1	326.2	329.4	332.7
35°	290.3	300.1	296.8	283.8	280.5	280.5	277.3	277.3	267.5	267.5	264.2
37.5°	260.9	257.7	264.2	267.5	270.7	260.9	260.9	247.9	244.6	247.9	247.9
40°	244.6	244.6	244.6	254.4	257.7	251.2	241.4	234.9	234.9	234.9	238.1
42.5°	238.1	231.6	228.3	234.9	244.6	238.1	228.3	225.1	225.1	228.3	228.3
45°	228.3	225.1	221.8	218.5	231.6	221.8	218.5	215.3	215.3	215.3	218.5
47.5°	218.5	215.3	208.8	208.8	212.0	208.8	205.5	205.5	205.5	212.0	212.0
50°	212.0	208.8	202.2	202.2	202.2	202.2	199.0	199.0	199.0	202.2	205.5
52.5°	202.2	199.0	195.7	192.4	192.4	192.4	192.4	192.4	192.4	195.7	199.0
55°	192.4	189.2	185.9	185.9	189.2	189.2	185.9	189.2	185.9	189.2	192.4
57.5°	182.7	179.4	176.1	179.4	182.7	179.4	179.4	179.4	179.4	179.4	182.7
60°	169.6	169.6	169.6	169.6	176.1	176.1	176.1	176.1	169.6	172.9	176.1
62.5°	163.1	159.8	159.8	163.1	166.4	166.4	169.6	166.4	163.1	166.4	166.4
65°	150.0	150.0	150.0	153.3	153.3	156.6	156.6	156.6	153.3	156.6	156.6
67.5°	140.3	140.3	140.3	140.3	146.8	146.8	146.8	146.8	143.5	143.5	146.8
70°	123.9	127.2	123.9	130.5	137.0	133.7	137.0	137.0	133.7	130.5	137.0
72.5°	114.2	114.2	114.2	114.2	123.9	123.9	123.9	127.2	123.9	120.7	123.9
75°	101.1	101.1	101.1	104.4	110.9	110.9	110.9	110.9	110.9	107.6	107.6
77.5°	88.1	91.3	88.1	91.3	97.9	94.6	97.9	101.1	97.9	94.6	94.6
80°	75.0	75.0	75.0	78.3	81.5	81.5	81.5	84.8	81.5	78.3	78.3
82.5°	58.7	58.7	62.0	62.0	65.2	65.2	65.2	68.5	65.2	62.0	62.0
85°	45.7	45.7	45.7	48.9	48.9	52.2	52.2	55.5	55.5	52.2	52.2
87.5°	29.4	26.1	29.4	29.4	32.6	32.6	29.4	26.1	29.4	26.1	22.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2348.5	2348.5	2348.5	2348.5	2348.5	2348.5	2348.5	2348.5	2348.5	2348.5
2.5°	2143.0	2201.7	2244.1	2273.5	2315.9	2397.4	2430.1	2488.8	2505.1	2514.9
5°	1842.9	1904.9	1996.2	2061.5	2136.5	2289.8	2407.2	2495.3	2534.4	2570.3
7.5°	1445.0	1526.5	1621.1	1705.9	1829.9	2019.1	2172.4	2355.0	2423.5	2459.4
10°	1128.6	1203.6	1308.0	1412.4	1585.2	1745.1	1963.6	2130.0	2224.6	2250.7
12.5°	952.5	1040.5	1164.5	1291.7	1399.3	1582.0	1803.8	2045.2	2133.2	2149.5
15°	808.9	929.6	1056.8	1187.3	1311.3	1471.1	1709.2	2002.8	2133.2	2149.5
17.5°	668.7	776.3	926.4	1066.6	1210.1	1428.7	1725.5	2038.6	2169.1	2218.0
20°	531.7	636.1	753.5	929.6	1125.3	1356.9	1761.4	2159.3	2332.2	2384.4
22.5°	440.3	486.0	600.2	769.8	1001.4	1308.0	1797.3	2348.5	2531.2	2550.8
25°	384.9	417.5	489.3	649.1	903.5	1275.4	1882.1	2567.1	2801.9	2801.9
27.5°	358.8	371.8	420.8	564.3	835.0	1246.0	1966.9	2808.4	3027.0	3072.6
30°	352.3	384.9	411.0	502.3	760.0	1164.5	2045.2	2997.6	3222.7	3226.0
32.5°	345.8	339.2	358.8	437.1	668.7	1079.7	2110.4	3190.1	3366.2	3376.0
35°	270.7	283.8	316.4	384.9	600.2	1017.7	2143.0	3294.4	3548.9	3558.7
37.5°	254.4	270.7	296.8	355.5	554.5	965.5	2152.8	3496.7	3741.3	3760.9
40°	247.9	260.9	280.5	329.4	518.6	900.3	2172.4	3705.4	4025.1	3999.0
42.5°	234.9	251.2	270.7	316.4	489.3	851.3	2175.6	3819.6	4175.1	4175.1
45°	231.6	241.4	264.2	316.4	456.7	808.9	2123.5	3933.8	4348.0	4295.8
47.5°	218.5	238.1	257.7	306.6	417.5	766.5	2061.5	3992.5	4370.9	4354.5
50°	215.3	234.9	267.5	290.3	394.7	747.0	2048.4	4139.3	4416.5	4413.3
52.5°	208.8	228.3	277.3	277.3	365.3	720.9	2110.4	4204.5	4426.3	4452.4
55°	199.0	228.3	257.7	254.4	339.2	688.2	2178.9	4374.1	4599.2	4592.7
57.5°	192.4	221.8	244.6	231.6	309.9	665.4	2280.0	4537.2	4807.9	4762.3
60°	182.7	221.8	218.5	215.3	287.0	645.8	2364.8	4569.8	4853.6	4883.0
62.5°	176.1	231.6	192.4	199.0	267.5	636.1	2328.9	4325.2	4791.6	4817.7
65°	169.6	199.0	176.1	182.7	260.9	616.5	2188.7	4031.6	4524.2	4638.3
67.5°	156.6	163.1	163.1	169.6	254.4	570.8	1901.6	3503.2	4116.4	4178.4
70°	143.5	146.8	146.8	156.6	247.9	518.6	1568.9	3030.2	3571.7	3689.1
72.5°	130.5	130.5	130.5	143.5	228.3	476.2	1291.7	2328.9	2968.3	3049.8
75°	114.2	114.2	114.2	127.2	205.5	433.8	1017.7	1732.0	2185.4	2302.9
77.5°	101.1	101.1	97.9	114.2	179.4	352.3	733.9	1223.2	1539.6	1637.4
80°	84.8	81.5	81.5	91.3	140.3	254.4	473.0	864.4	1073.1	1115.5
82.5°	68.5	65.2	62.0	68.5	101.1	159.8	293.6	603.4	688.2	662.2
85°	65.2	68.5	55.5	52.2	71.8	104.4	185.9	371.8	309.9	309.9
87.5°	26.1	22.8	22.8	19.6	35.9	39.1	81.5	68.5	52.2	52.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)