

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: P675917

Luminaire Tested: **CCW-SA-2D-840-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675917
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-840-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SLL distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

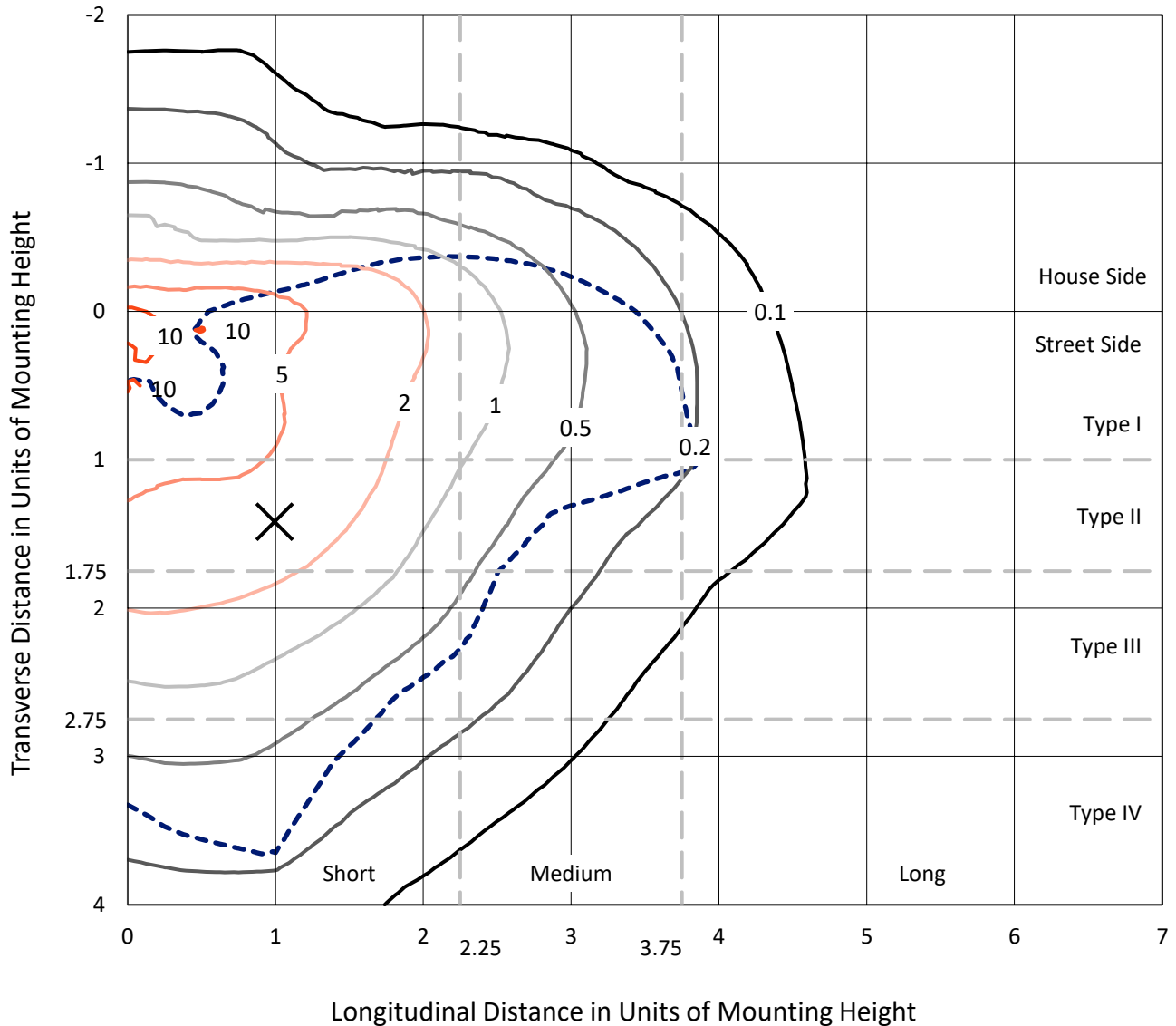
Lumens per Lamp: N/A
Luminaire Lumens: 7889.8 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (A_{in}): 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

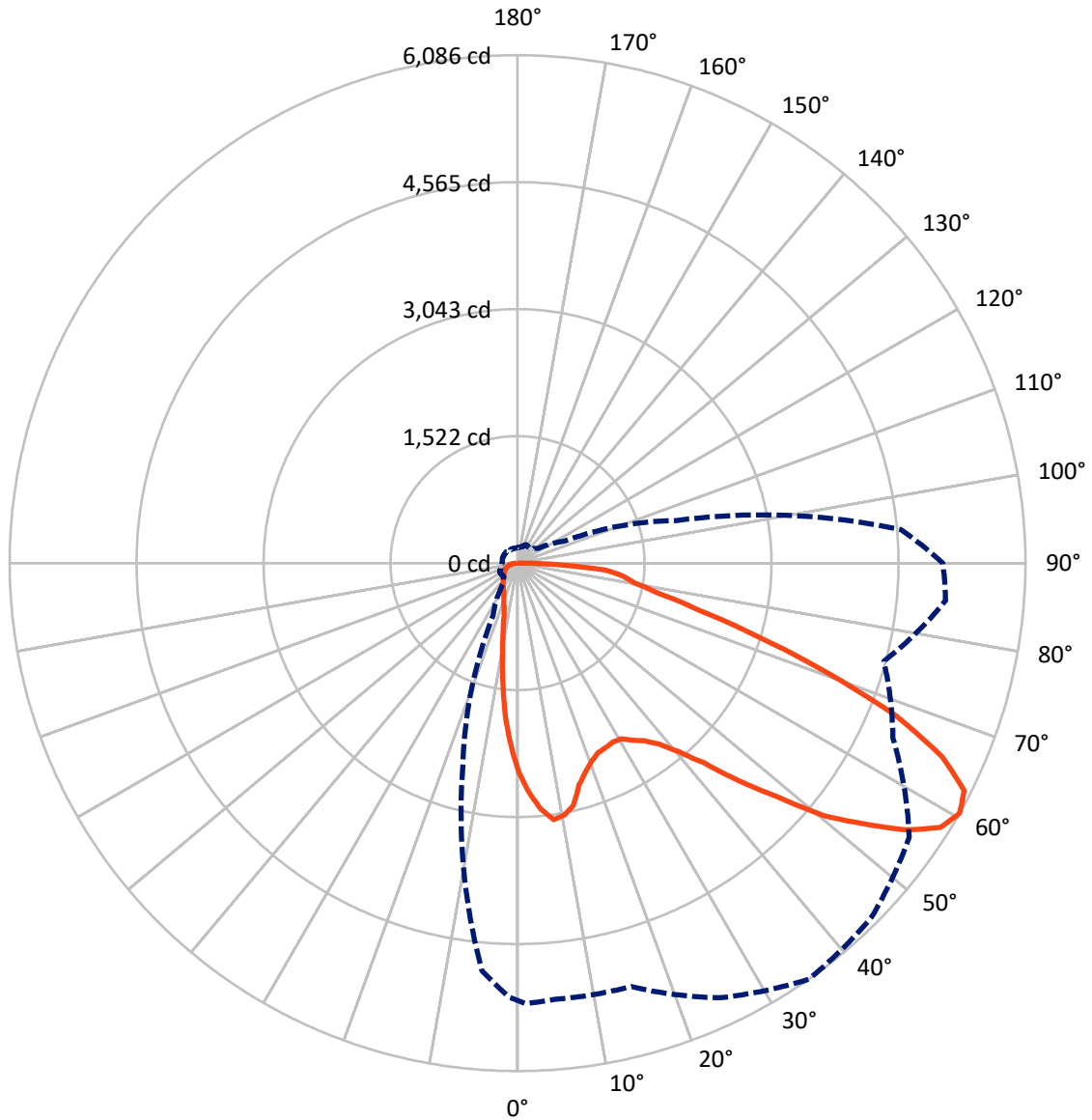
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 12.8 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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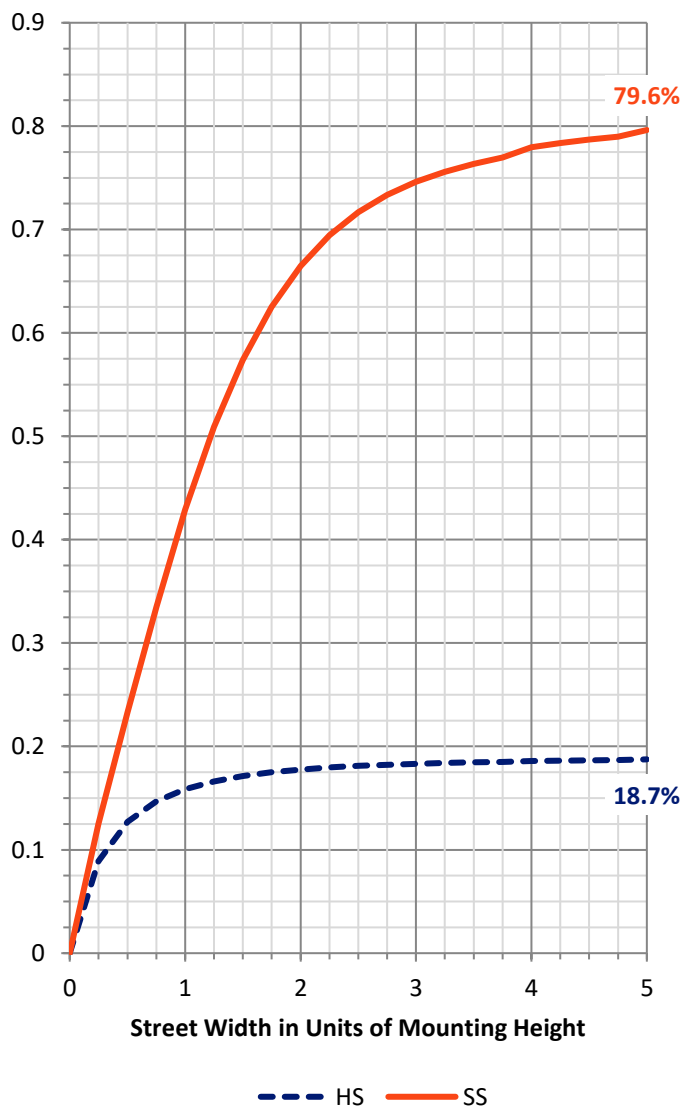
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1501.5	0.0	1501.5
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	6388.2	0.0	6388.2
	% Fixture	81.0	0.0	81.0
Total	Lumens	7889.8	0.0	7889.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.8	2.5
10°-20°	413.3	5.2
20°-30°	604.7	7.7
30°-40°	852.0	10.8
40°-50°	1171.0	14.8
50°-60°	1595.9	20.2
60°-70°	1746.6	22.1
70°-80°	1008.4	12.8
80°-90°	302.0	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°	7889.8	100.0
0°-180°	7889.8	100.0



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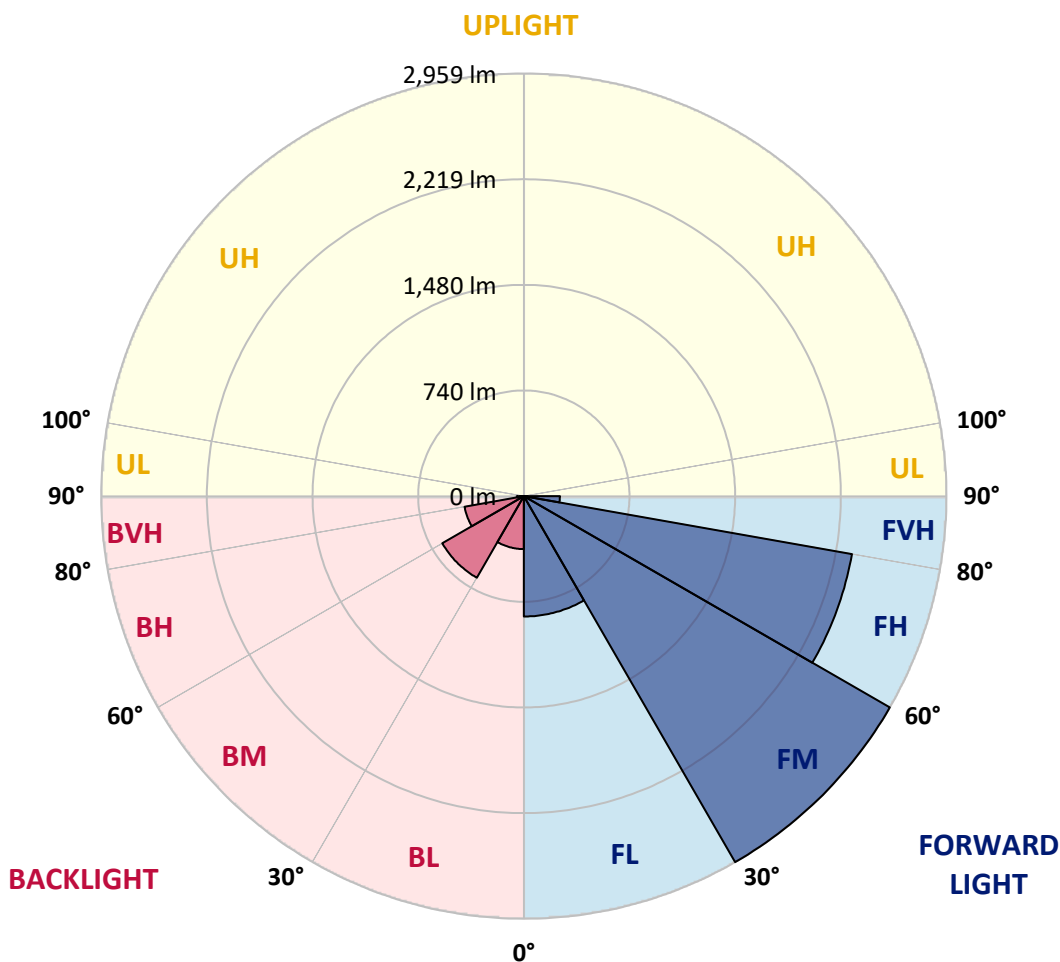
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	842.9	10.7			
FM (30°-60°)	2959.3	37.5			
FH (60°-80°)	2333.3	29.6			G2/5000
FVH (80°-90°)	252.8	3.2			G3/500
BL (0°-30°)	371.0	4.7	B1/500		
BM (30°-60°)	659.6	8.4	B1/1000		
BH (60°-80°)	421.7	5.3	B1/500		G1/500
BVH (80°-90°)	49.2	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°	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9
2.5°	2698.4	2687.9	2698.4	2736.9	2747.4	2764.9	2764.9	2740.4	2694.9	2673.9	2638.9
5°	2757.9	2740.4	2827.9	2908.4	2971.4	2964.4	2904.9	2855.9	2764.9	2628.4	2498.9
7.5°	2638.9	2656.4	2719.4	2929.4	3076.4	3104.4	3009.9	2911.9	2715.9	2526.9	2351.9
10°	2414.9	2439.4	2575.9	2792.9	3023.9	3069.4	3009.9	2890.9	2656.4	2421.9	2218.9
12.5°	2306.4	2362.4	2442.9	2705.4	2869.9	2978.4	2950.4	2873.4	2610.9	2334.4	2138.5
15°	2306.4	2320.4	2439.4	2659.9	2754.4	2757.9	2768.4	2782.4	2624.9	2372.9	2110.5
17.5°	2379.9	2418.4	2519.9	2656.4	2673.9	2631.9	2631.9	2691.4	2652.9	2481.4	2211.9
20°	2558.4	2544.4	2677.4	2733.4	2638.9	2533.9	2523.4	2624.9	2684.4	2596.9	2397.4
22.5°	2736.9	2799.9	2908.4	2782.4	2607.4	2467.4	2453.4	2579.4	2778.9	2796.4	2610.9
25°	3006.4	3069.4	3125.4	2971.4	2603.9	2449.9	2460.4	2558.4	2894.4	3079.9	2967.9
27.5°	3296.9	3335.4	3415.9	3177.9	2687.9	2428.9	2439.4	2586.4	3002.9	3265.4	3247.9
30°	3461.4	3503.4	3485.9	3216.4	2743.9	2442.9	2414.9	2624.9	2943.4	3265.4	3429.9
32.5°	3622.4	3597.9	3587.4	3279.4	2813.9	2530.4	2460.4	2705.4	2978.4	3317.9	3664.4
35°	3818.4	3783.4	3755.4	3401.9	2929.4	2614.4	2582.9	2810.4	3055.4	3426.4	3853.4
37.5°	4035.4	4035.4	3898.9	3492.9	3065.9	2750.9	2715.9	2960.9	3177.9	3492.9	4112.4
40°	4290.9	4301.4	4059.9	3615.4	3219.9	2967.9	2957.4	3156.9	3296.9	3590.9	4360.9
42.5°	4479.9	4486.9	4199.9	3660.9	3398.4	3268.9	3314.4	3471.9	3433.4	3678.4	4378.4
45°	4609.4	4574.4	4297.9	3790.4	3594.4	3720.4	3734.4	3779.9	3611.9	3730.9	4448.4
47.5°	4672.4	4665.4	4339.9	3940.9	4007.4	4178.9	4259.4	4196.4	3776.4	3674.9	4448.4
50°	4735.4	4675.9	4378.4	4147.4	4409.9	4756.4	4738.9	4623.4	4003.9	3744.9	4381.9
52.5°	4777.4	4724.9	4455.4	4332.9	4794.9	5186.9	5256.9	5043.4	4269.9	3874.4	4413.4
55°	4927.9	4885.9	4686.4	4584.9	5239.4	5641.9	5652.4	5354.9	4549.9	4087.9	4619.9
57.5°	5109.9	5134.4	5004.9	4941.9	5578.9	5974.4	5935.9	5585.9	4787.9	4346.9	4857.9
60°	5239.4	5277.9	5246.4	5253.4	5746.9	6086.4	5998.9	5729.4	4962.9	4542.9	5148.4
62.5°	5169.4	5246.4	5375.9	5347.9	5753.9	6005.9	5883.4	5540.4	4983.9	4798.4	5368.9
65°	4976.9	4983.9	5235.9	5389.9	5438.9	5589.4	5428.4	5144.9	4766.9	4955.9	5337.4
67.5°	4483.4	4539.4	4766.9	5067.9	4861.4	4896.4	4882.4	4472.9	4437.9	4847.4	5095.9
70°	3958.4	3996.9	4245.4	4598.9	4105.4	3940.9	3972.4	3667.9	3811.4	4511.4	4609.4
72.5°	3272.4	3296.9	3580.4	3891.9	3293.4	2999.4	3072.9	2824.4	3027.4	3947.9	3888.4
75°	2470.9	2516.4	2736.9	3104.4	2425.4	2236.4	2309.9	2208.4	2397.4	3251.4	3016.9
77.5°	1757.0	1722.0	1995.0	2428.9	1823.5	1711.5	1718.5	1736.0	1939.0	2740.4	2166.5
80°	1197.0	1207.5	1452.5	1781.5	1431.5	1414.0	1396.5	1536.5	1627.5	2170.0	1575.0
82.5°	710.5	710.5	980.0	1267.0	1130.5	1274.0	1193.5	1319.5	1274.0	1596.0	1032.5
85°	332.5	332.5	504.0	913.5	875.0	1050.0	892.5	997.5	941.5	1113.0	465.5
87.5°	56.0	49.0	101.5	448.0	360.5	409.5	161.0	532.0	591.5	777.0	115.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9
2.5°	2600.4	2575.9	2526.9	2463.9	2411.4	2344.9	2323.9	2278.4	2215.4	2208.4	2180.5
5°	2449.9	2365.9	2260.9	2131.5	2044.0	1953.0	1876.0	1830.5	1778.0	1771.0	1757.0
7.5°	2285.4	2180.5	2005.5	1851.5	1701.0	1557.5	1487.5	1400.0	1340.5	1295.0	1274.0
10°	2131.5	2033.5	1816.5	1606.5	1473.5	1379.0	1295.0	1204.0	1130.5	1074.5	1053.5
12.5°	2030.0	1914.5	1680.0	1480.5	1382.5	1274.0	1179.5	1081.5	987.0	913.5	875.0
15°	1984.5	1876.0	1638.0	1417.5	1274.0	1123.5	1015.0	917.0	801.5	749.0	731.5
17.5°	2093.0	1932.0	1624.0	1344.0	1141.0	969.5	836.5	731.5	647.5	595.0	574.0
20°	2232.9	2033.5	1648.5	1256.5	1015.0	822.5	675.5	563.5	507.5	469.0	465.5
22.5°	2411.4	2184.0	1687.0	1193.5	875.0	661.5	528.5	462.0	423.5	420.0	413.0
25°	2729.9	2456.9	1750.0	1109.5	763.0	546.0	451.5	413.0	395.5	385.0	392.0
27.5°	3002.9	2635.4	1795.5	1057.0	717.5	514.5	437.5	395.5	378.0	374.5	378.0
30°	3163.9	2799.9	1781.5	959.0	626.5	490.0	465.5	451.5	416.5	388.5	388.5
32.5°	3310.9	2904.9	1778.0	871.5	535.5	409.5	388.5	378.0	399.0	413.0	402.5
35°	3513.9	3069.4	1767.5	822.5	497.0	378.0	343.0	315.0	301.0	294.0	304.5
37.5°	3730.9	3181.4	1739.5	815.5	476.0	360.5	332.5	304.5	290.5	283.5	280.0
40°	3968.9	3300.4	1708.0	780.5	465.5	350.0	322.0	297.5	280.0	269.5	266.0
42.5°	4122.9	3394.9	1676.5	763.0	444.5	343.0	311.5	290.5	273.0	259.0	259.0
45°	4210.4	3506.9	1645.0	745.5	420.0	346.5	311.5	283.5	262.5	255.5	248.5
47.5°	4248.9	3590.9	1634.5	717.5	399.0	332.5	304.5	276.5	255.5	241.5	238.0
50°	4350.4	3769.4	1673.0	696.5	374.5	318.5	322.0	273.0	252.0	234.5	231.0
52.5°	4409.9	3912.9	1757.0	665.0	357.0	301.0	315.0	266.0	241.5	224.0	224.0
55°	4626.9	4150.9	1848.0	640.5	336.0	276.5	290.5	252.0	224.0	213.5	213.5
57.5°	4903.4	4402.9	1925.0	630.0	322.0	259.0	259.0	245.0	213.5	199.5	196.0
60°	5095.9	4609.4	1970.5	623.0	308.0	241.5	231.0	245.0	203.0	189.0	185.5
62.5°	5116.9	4490.4	1925.0	619.5	304.5	224.0	210.0	234.5	192.5	178.5	171.5
65°	4983.9	4248.9	1799.0	605.5	301.0	206.5	196.0	203.0	178.5	168.0	161.0
67.5°	4717.9	3856.9	1617.0	598.5	297.5	192.5	178.5	175.0	164.5	154.0	147.0
70°	4098.4	3345.9	1403.5	567.0	290.5	182.0	161.0	157.5	147.0	140.0	136.5
72.5°	3440.4	2736.9	1158.5	525.0	276.5	164.5	147.0	140.0	136.5	126.0	122.5
75°	2635.4	2107.0	927.5	465.5	241.5	147.0	129.5	122.5	119.0	112.0	108.5
77.5°	1851.5	1568.0	686.0	378.0	203.0	133.0	115.5	108.5	105.0	94.5	94.5
80°	1256.5	1099.0	465.5	262.5	157.5	108.5	101.5	94.5	87.5	80.5	80.5
82.5°	780.5	770.0	336.0	171.5	115.5	87.5	80.5	80.5	70.0	63.0	63.0
85°	357.0	472.5	234.5	119.0	87.5	66.5	66.5	63.0	56.0	45.5	45.5
87.5°	112.0	157.5	122.5	52.5	49.0	38.5	38.5	35.0	35.0	28.0	28.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9
2.5°	2208.4	2204.9	2204.9	2191.0	2225.9	2225.9	2246.9	2229.4	2239.9	2243.4	2271.4
5°	1753.5	1781.5	1802.5	1844.5	1869.0	1879.5	1879.5	1907.5	1897.0	1918.0	1960.0
7.5°	1284.5	1319.5	1382.5	1435.0	1477.0	1491.0	1487.5	1494.5	1505.0	1480.5	1487.5
10°	1039.5	1015.0	1036.0	1085.0	1123.5	1169.0	1134.0	1130.5	1141.0	1130.5	1151.5
12.5°	868.0	840.0	822.5	822.5	850.5	871.5	861.0	878.5	917.0	927.5	952.0
15°	703.5	679.0	665.0	647.5	675.5	682.5	693.0	717.5	745.5	759.5	787.5
17.5°	563.5	563.5	563.5	549.5	560.0	570.5	574.0	605.5	609.0	623.0	633.5
20°	462.0	472.5	490.0	497.0	507.5	507.5	500.5	518.0	504.0	514.5	521.5
22.5°	416.5	430.5	437.5	441.0	455.0	458.5	441.0	444.5	448.0	437.5	441.0
25°	392.0	399.0	392.0	395.5	399.0	392.0	395.5	402.5	399.0	406.0	402.5
27.5°	381.5	374.5	371.0	367.5	367.5	360.5	364.0	364.0	371.0	374.5	374.5
30°	381.5	371.0	357.0	346.5	346.5	336.0	343.0	350.0	353.5	360.5	360.5
32.5°	392.0	371.0	346.5	336.0	325.5	318.5	325.5	336.0	350.0	353.5	357.0
35°	311.5	322.0	318.5	304.5	301.0	301.0	297.5	297.5	287.0	287.0	283.5
37.5°	280.0	276.5	283.5	287.0	290.5	280.0	280.0	266.0	262.5	266.0	266.0
40°	262.5	262.5	262.5	273.0	276.5	269.5	259.0	252.0	252.0	252.0	255.5
42.5°	255.5	248.5	245.0	252.0	262.5	255.5	245.0	241.5	241.5	245.0	245.0
45°	245.0	241.5	238.0	234.5	248.5	238.0	234.5	231.0	231.0	231.0	234.5
47.5°	234.5	231.0	224.0	224.0	227.5	224.0	220.5	220.5	220.5	227.5	227.5
50°	227.5	224.0	217.0	217.0	217.0	217.0	213.5	213.5	213.5	217.0	220.5
52.5°	217.0	213.5	210.0	206.5	206.5	206.5	206.5	206.5	206.5	210.0	213.5
55°	206.5	203.0	199.5	199.5	203.0	203.0	199.5	203.0	199.5	203.0	206.5
57.5°	196.0	192.5	189.0	192.5	196.0	192.5	192.5	192.5	192.5	192.5	196.0
60°	182.0	182.0	182.0	182.0	189.0	189.0	189.0	189.0	182.0	185.5	189.0
62.5°	175.0	171.5	171.5	175.0	178.5	178.5	182.0	178.5	175.0	178.5	178.5
65°	161.0	161.0	161.0	164.5	164.5	168.0	168.0	168.0	164.5	168.0	168.0
67.5°	150.5	150.5	150.5	150.5	157.5	157.5	157.5	157.5	154.0	154.0	157.5
70°	133.0	136.5	133.0	140.0	147.0	143.5	147.0	147.0	143.5	140.0	147.0
72.5°	122.5	122.5	122.5	122.5	133.0	133.0	133.0	136.5	133.0	129.5	133.0
75°	108.5	108.5	108.5	112.0	119.0	119.0	119.0	119.0	119.0	115.5	115.5
77.5°	94.5	98.0	94.5	98.0	105.0	101.5	105.0	108.5	105.0	101.5	101.5
80°	80.5	80.5	80.5	84.0	87.5	87.5	87.5	91.0	87.5	84.0	84.0
82.5°	63.0	63.0	66.5	66.5	70.0	70.0	70.0	73.5	70.0	66.5	66.5
85°	49.0	49.0	49.0	52.5	52.5	56.0	56.0	59.5	59.5	56.0	56.0
87.5°	31.5	28.0	31.5	31.5	35.0	35.0	31.5	28.0	31.5	28.0	24.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9	2519.9
2.5°	2299.4	2362.4	2407.9	2439.4	2484.9	2572.4	2607.4	2670.4	2687.9	2698.4
5°	1977.5	2044.0	2142.0	2211.9	2292.4	2456.9	2582.9	2677.4	2719.4	2757.9
7.5°	1550.5	1638.0	1739.5	1830.5	1963.5	2166.5	2330.9	2526.9	2600.4	2638.9
10°	1211.0	1291.5	1403.5	1515.5	1701.0	1872.5	2107.0	2285.4	2386.9	2414.9
12.5°	1022.0	1116.5	1249.5	1386.0	1501.5	1697.5	1935.5	2194.4	2288.9	2306.4
15°	868.0	997.5	1134.0	1274.0	1407.0	1578.5	1834.0	2149.0	2288.9	2306.4
17.5°	717.5	833.0	994.0	1144.5	1298.5	1533.0	1851.5	2187.5	2327.4	2379.9
20°	570.5	682.5	808.5	997.5	1207.5	1456.0	1890.0	2316.9	2502.4	2558.4
22.5°	472.5	521.5	644.0	826.0	1074.5	1403.5	1928.5	2519.9	2715.9	2736.9
25°	413.0	448.0	525.0	696.5	969.5	1368.5	2019.5	2754.4	3006.4	3006.4
27.5°	385.0	399.0	451.5	605.5	896.0	1337.0	2110.5	3013.4	3247.9	3296.9
30°	378.0	413.0	441.0	539.0	815.5	1249.5	2194.4	3216.4	3457.9	3461.4
32.5°	371.0	364.0	385.0	469.0	717.5	1158.5	2264.4	3422.9	3611.9	3622.4
35°	290.5	304.5	339.5	413.0	644.0	1092.0	2299.4	3534.9	3807.9	3818.4
37.5°	273.0	290.5	318.5	381.5	595.0	1036.0	2309.9	3751.9	4014.4	4035.4
40°	266.0	280.0	301.0	353.5	556.5	966.0	2330.9	3975.9	4318.9	4290.9
42.5°	252.0	269.5	290.5	339.5	525.0	913.5	2334.4	4098.4	4479.9	4479.9
45°	248.5	259.0	283.5	339.5	490.0	868.0	2278.4	4220.9	4665.4	4609.4
47.5°	234.5	255.5	276.5	329.0	448.0	822.5	2211.9	4283.9	4689.9	4672.4
50°	231.0	252.0	287.0	311.5	423.5	801.5	2197.9	4441.4	4738.9	4735.4
52.5°	224.0	245.0	297.5	297.5	392.0	773.5	2264.4	4511.4	4749.4	4777.4
55°	213.5	245.0	276.5	273.0	364.0	738.5	2337.9	4693.4	4934.9	4927.9
57.5°	206.5	238.0	262.5	248.5	332.5	714.0	2446.4	4868.4	5158.9	5109.9
60°	196.0	238.0	234.5	231.0	308.0	693.0	2537.4	4903.4	5207.9	5239.4
62.5°	189.0	248.5	206.5	213.5	287.0	682.5	2498.9	4640.9	5141.4	5169.4
65°	182.0	213.5	189.0	196.0	280.0	661.5	2348.4	4325.9	4854.4	4976.9
67.5°	168.0	175.0	175.0	182.0	273.0	612.5	2040.5	3758.9	4416.9	4483.4
70°	154.0	157.5	157.5	168.0	266.0	556.5	1683.5	3251.4	3832.4	3958.4
72.5°	140.0	140.0	140.0	154.0	245.0	511.0	1386.0	2498.9	3184.9	3272.4
75°	122.5	122.5	122.5	136.5	220.5	465.5	1092.0	1858.5	2344.9	2470.9
77.5°	108.5	108.5	105.0	122.5	192.5	378.0	787.5	1312.5	1652.0	1757.0
80°	91.0	87.5	87.5	98.0	150.5	273.0	507.5	927.5	1151.5	1197.0
82.5°	73.5	70.0	66.5	73.5	108.5	171.5	315.0	647.5	738.5	710.5
85°	70.0	73.5	59.5	56.0	77.0	112.0	199.5	399.0	332.5	332.5
87.5°	28.0	24.5	24.5	21.0	38.5	42.0	87.5	73.5	56.0	56.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)