

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: P677281

Luminaire Tested: **CCW-SA-2E-735-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677281
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-735-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SLL distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

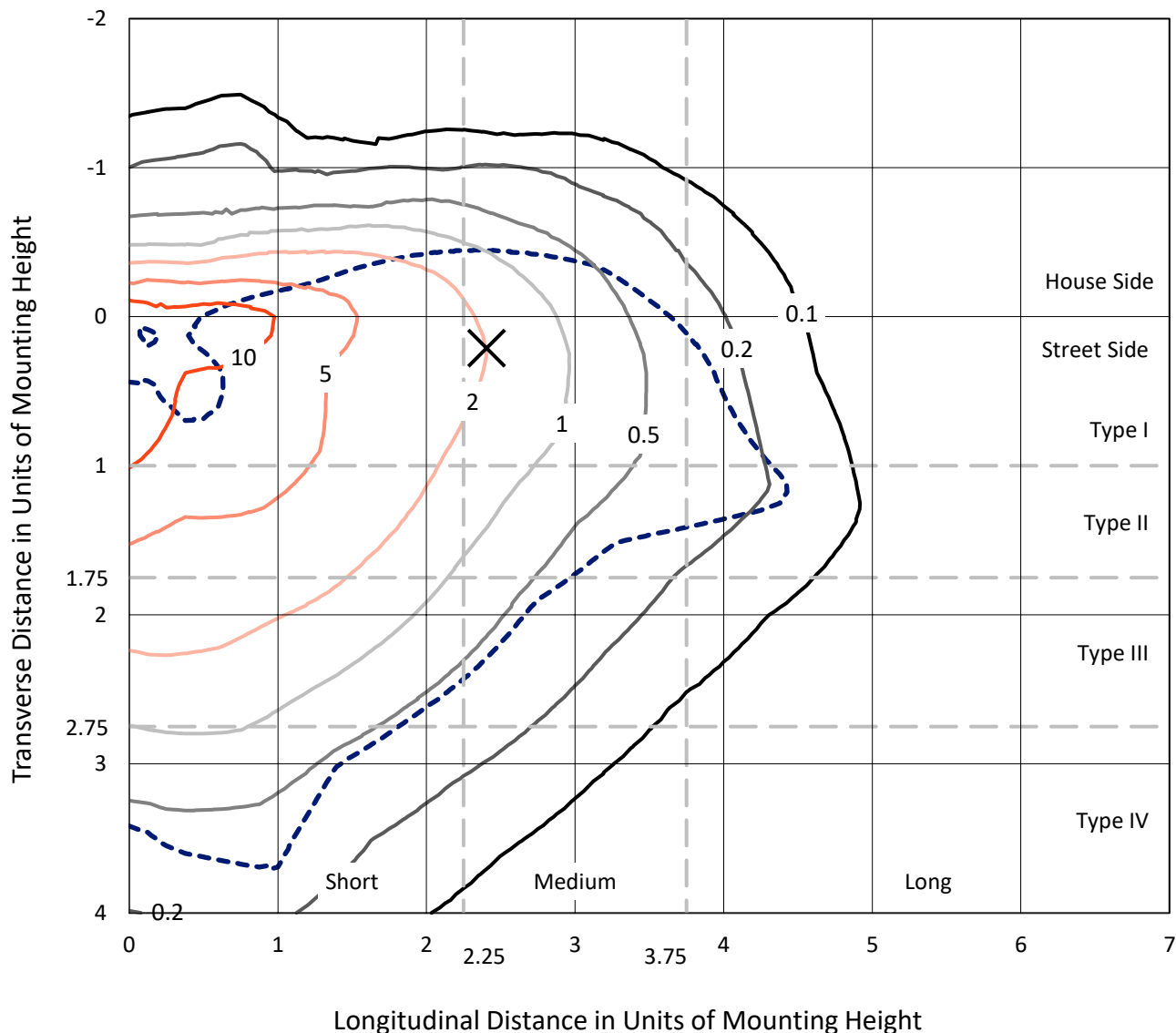
Lumens per Lamp: N/A
Luminaire Lumens: 9784.4 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
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

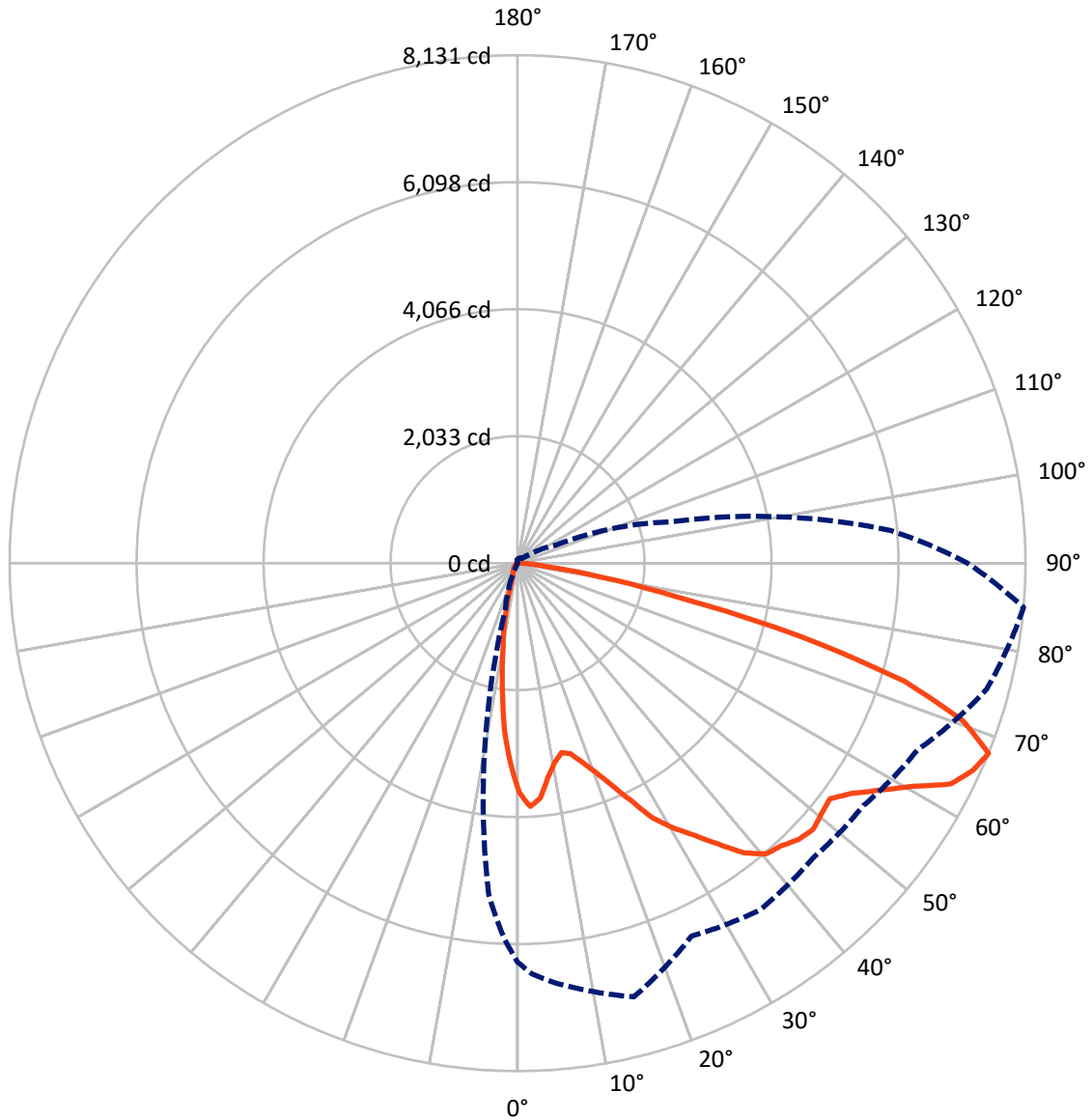
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 18.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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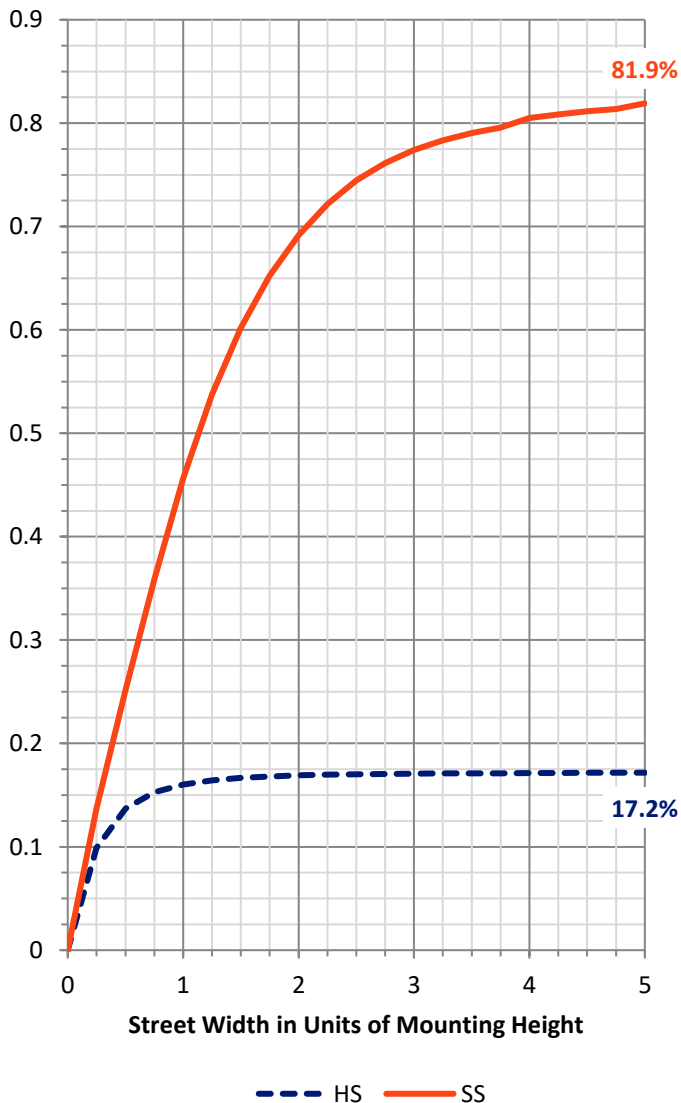
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1698.9	0.0	1698.9
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	8085.5	0.0	8085.5
	% Fixture	82.6	0.0	82.6
Total	Lumens	9784.4	0.0	9784.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.5	2.9
10°-20°	548.1	5.6
20°-30°	758.4	7.8
30°-40°	1071.8	11.0
40°-50°	1459.3	14.9
50°-60°	1932.8	19.8
60°-70°	2244.1	22.9
70°-80°	1270.9	13.0
80°-90°	219.6	2.2
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°	9784.4	100.0
0°-180°	9784.4	100.0



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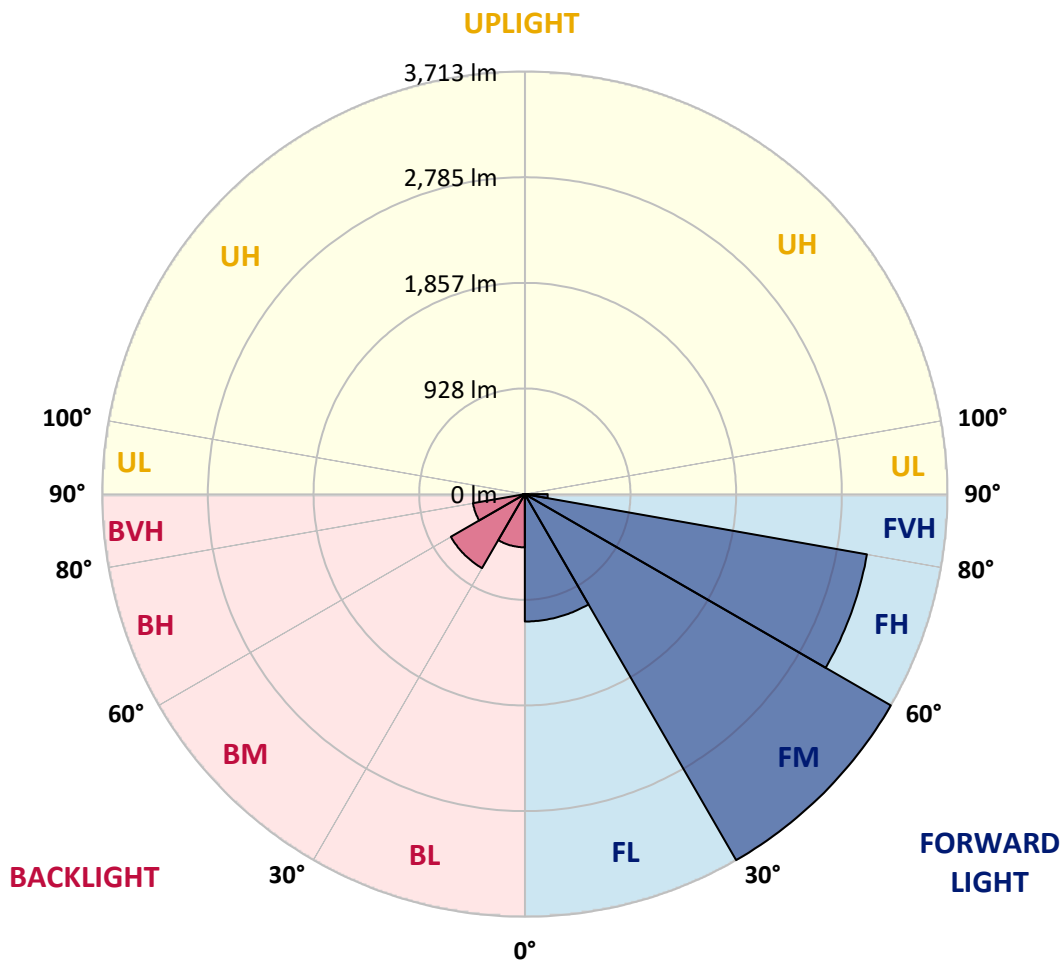
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1118.9	11.4			
FM (30°-60°)	3713.3	38.0			
FH (60°-80°)	3052.3	31.2			G2/5000
FVH (80°-90°)	201.1	2.1			G2/225
BL (0°-30°)	467.1	4.8	B1/500		
BM (30°-60°)	750.7	7.7	B1/1000		
BH (60°-80°)	462.7	4.7	B1/500		G1/500
BVH (80°-90°)	18.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9
2.5°	3822.6	3903.6	3906.2	3942.8	3979.4	3979.4	4065.6	4044.7	3968.9	3955.8	3901.0
5°	3851.3	3880.1	3901.0	4086.5	4243.3	4227.6	4274.6	4243.3	4096.9	3908.8	3780.8
7.5°	3603.1	3634.5	3718.1	4034.2	4245.9	4316.4	4405.3	4209.3	4055.1	3715.5	3469.9
10°	3273.9	3334.0	3488.1	3848.7	4110.0	4334.7	4334.7	4177.9	3880.1	3548.2	3247.8
12.5°	3091.0	3211.2	3294.8	3660.6	4000.3	4154.4	4149.2	4065.6	3872.2	3454.2	3114.5
15°	3122.3	3156.3	3334.0	3618.8	3843.5	3835.7	3929.7	3903.6	3767.7	3537.8	3164.2
17.5°	3266.1	3318.3	3472.5	3618.8	3725.9	3694.6	3691.9	3817.4	3825.2	3678.9	3349.7
20°	3501.2	3655.4	3728.5	3772.9	3642.3	3509.0	3493.4	3668.4	3804.3	3859.2	3571.8
22.5°	3877.5	3979.4	4128.3	3901.0	3561.3	3394.1	3362.7	3556.1	3830.4	4073.4	3859.2
25°	4245.9	4324.3	4468.0	4175.3	3652.8	3370.6	3315.7	3482.9	3929.7	4371.3	4206.7
27.5°	4635.2	4703.1	4718.8	4376.5	3702.4	3323.5	3258.2	3482.9	4013.3	4528.1	4622.1
30°	4872.9	4953.9	4969.6	4554.2	3783.4	3362.7	3331.4	3498.6	4070.8	4661.3	4920.0
32.5°	5139.5	5160.4	5147.3	4585.5	3872.2	3477.7	3347.0	3603.1	4136.1	4820.7	5191.7
35°	5458.2	5494.8	5361.6	4729.2	4070.8	3550.9	3503.8	3731.1	4248.5	4893.9	5520.9
37.5°	5701.2	5816.2	5515.7	4784.1	4110.0	3705.0	3712.8	3997.6	4326.9	4982.7	5884.1
40°	6158.5	5965.1	5777.0	4972.2	4258.9	3966.3	3924.5	4272.0	4590.8	5040.2	6121.9
42.5°	6409.3	6307.4	5878.9	4990.5	4488.9	4326.9	4337.3	4582.9	4729.2	5202.2	6187.2
45°	6472.0	6364.9	6017.4	5003.6	4716.2	4752.8	4933.0	4980.1	4933.0	5309.3	6310.0
47.5°	6631.4	6398.8	6001.7	5178.7	5084.6	5225.7	5455.6	5557.5	5210.0	5270.1	6367.5
50°	6600.0	6466.8	5967.7	5251.8	5534.0	5907.6	6061.8	6020.0	5518.3	5189.1	6304.8
52.5°	6469.4	6325.7	6072.2	5450.4	5954.7	6406.7	6620.9	6516.4	5792.7	5372.0	6263.0
55°	6660.1	6550.4	6208.1	5719.5	6270.8	6845.6	6997.2	6918.8	6129.7	5541.8	6500.7
57.5°	6866.5	6843.0	6576.5	6035.7	6644.5	7297.7	7297.7	7201.0	6422.4	5787.4	6853.5
60°	7164.4	7216.7	6848.3	6244.7	6772.5	7271.5	7650.4	7538.0	6717.6	6218.6	7253.2
62.5°	7067.7	7235.0	7198.4	6694.1	6918.8	7399.6	7606.0	7689.6	7083.4	6743.7	7786.3
65°	6756.8	6934.5	7195.8	6989.4	6809.1	7088.6	7193.2	7446.6	7266.3	7237.6	8005.7
67.5°	6385.8	6579.1	6741.1	7187.9	6587.0	6772.5	6681.0	6762.0	7067.7	7778.4	8131.2
70°	5575.8	5761.3	6017.4	6746.4	5999.1	5831.9	5808.3	5769.2	6244.7	7585.1	7561.6
72.5°	4585.5	4671.8	5095.0	5484.4	4439.2	4407.9	4444.4	4400.0	4951.3	6866.5	6477.2
75°	3433.3	3519.5	3759.9	4211.9	3023.1	2842.8	3051.8	3258.2	3780.8	5330.2	4653.5
77.5°	2581.5	2691.2	2842.8	3151.1	2218.3	1936.1	1964.9	2160.8	2733.0	4269.4	2607.6
80°	1674.8	1661.8	1954.4	2168.7	1669.6	1721.9	1648.7	1792.4	1980.5	2283.6	1332.5
82.5°	966.8	979.8	1102.6	1243.7	1162.7	1329.9	958.9	1601.7	1413.5	930.2	496.4
85°	543.5	567.0	679.3	862.2	729.0	488.6	399.8	794.3	888.4	381.5	240.4
87.5°	54.9	47.0	91.4	326.6	198.6	81.0	120.2	190.7	214.3	143.7	70.5
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°	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9
2.5°	3822.6	3822.6	3757.3	3647.5	3603.1	3524.7	3417.6	3451.6	3415.0	3281.7	3247.8
5°	3665.8	3540.4	3404.5	3237.3	3140.6	2942.1	2879.4	2767.0	2785.3	2672.9	2678.2
7.5°	3339.2	3239.9	3010.0	2790.5	2599.8	2427.3	2184.3	2092.9	2004.0	1959.6	2011.9
10°	3148.5	2963.0	2649.4	2362.0	2108.6	1954.4	1792.4	1667.0	1552.0	1465.8	1447.5
12.5°	3010.0	2845.4	2466.5	2116.4	1917.8	1792.4	1643.5	1471.0	1358.7	1209.7	1165.3
15°	2968.2	2767.0	2367.2	2019.7	1826.4	1620.0	1450.1	1280.3	1134.0	977.2	922.3
17.5°	3111.9	2879.4	2364.6	1941.3	1669.6	1447.5	1212.4	1021.6	872.7	729.0	695.0
20°	3354.9	2999.5	2440.4	1894.3	1520.7	1222.8	956.3	765.6	598.3	504.3	480.8
22.5°	3631.8	3203.3	2448.2	1768.9	1371.7	998.1	697.6	504.3	410.2	365.8	352.7
25°	3971.5	3529.9	2542.3	1667.0	1196.7	757.7	496.4	386.7	331.8	305.7	300.5
27.5°	4251.1	3757.3	2644.2	1559.9	1024.2	561.8	389.3	316.2	287.4	261.3	258.7
30°	4541.1	4018.5	2672.9	1494.5	875.3	462.5	334.4	279.6	248.2	235.2	232.5
32.5°	4794.6	4303.3	2764.4	1387.4	734.2	407.6	303.1	250.8	229.9	209.0	206.4
35°	5121.2	4468.0	2808.8	1329.9	682.0	368.4	277.0	229.9	198.6	185.5	180.3
37.5°	5471.3	4627.3	2837.5	1285.5	637.5	344.9	261.3	216.9	188.1	169.8	164.6
40°	5797.9	4852.0	2795.7	1230.6	603.6	316.2	250.8	201.2	175.1	156.8	148.9
42.5°	6048.7	5071.5	2782.7	1178.4	567.0	305.7	237.8	193.4	164.6	143.7	141.1
45°	6189.8	5220.5	2691.2	1136.6	538.2	310.9	232.5	182.9	156.8	138.5	128.0
47.5°	6155.9	5335.4	2714.7	1123.5	499.1	290.0	229.9	175.1	143.7	128.0	120.2
50°	6344.0	5568.0	2675.5	1081.7	470.3	261.3	250.8	175.1	141.1	122.8	115.0
52.5°	6375.3	5779.6	2759.2	1005.9	425.9	240.4	248.2	172.4	135.9	117.6	107.1
55°	6636.6	6025.2	2921.2	964.1	389.3	209.0	227.3	167.2	122.8	107.1	101.9
57.5°	6992.0	6534.7	3025.7	924.9	339.7	182.9	190.7	164.6	112.4	99.3	91.4
60°	7334.2	6738.5	3033.5	854.4	292.6	164.6	148.9	164.6	104.5	88.8	81.0
62.5°	7590.3	6738.5	2981.3	794.3	256.1	146.3	130.6	156.8	94.1	78.4	73.2
65°	7451.8	6558.2	2845.4	744.7	232.5	128.0	112.4	120.2	83.6	67.9	62.7
67.5°	7203.6	5996.5	2544.9	684.6	229.9	112.4	96.7	88.8	73.2	60.1	54.9
70°	6806.5	5238.7	2119.0	616.6	224.7	101.9	86.2	75.8	65.3	52.3	47.0
72.5°	5484.4	4326.9	1740.2	577.4	219.5	88.8	73.2	65.3	54.9	44.4	39.2
75°	3799.1	2764.4	1340.4	493.8	214.3	81.0	67.9	57.5	47.0	36.6	34.0
77.5°	2278.4	1847.3	864.9	371.0	141.1	65.3	57.5	44.4	39.2	31.4	28.7
80°	1066.0	872.7	350.1	143.7	67.9	47.0	39.2	34.0	31.4	26.1	23.5
82.5°	418.1	368.4	169.8	83.6	54.9	36.6	31.4	28.7	26.1	20.9	18.3
85°	224.7	198.6	81.0	57.5	39.2	26.1	26.1	23.5	20.9	18.3	15.7
87.5°	49.6	36.6	34.0	34.0	28.7	20.9	20.9	18.3	15.7	13.1	10.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9
2.5°	3229.5	3268.7	3206.0	3245.1	3190.3	3232.1	3237.3	3198.1	3208.6	3260.8	3284.3
5°	2751.3	2725.2	2667.7	2649.4	2652.0	2618.1	2631.1	2649.4	2678.2	2693.8	2740.9
7.5°	1983.1	2043.2	2040.6	2085.0	2087.7	2082.4	2045.9	1967.5	1993.6	1972.7	1998.8
10°	1418.8	1444.9	1494.5	1523.3	1575.5	1546.8	1463.2	1431.8	1416.2	1413.5	1439.7
12.5°	1134.0	1071.3	1066.0	1076.5	1102.6	1068.7	1026.8	990.3	1008.6	1045.1	1073.9
15°	877.9	825.7	757.7	747.3	752.5	736.8	692.4	645.4	658.4	695.0	715.9
17.5°	674.1	614.0	567.0	535.6	525.2	470.3	405.0	365.8	355.3	352.7	371.0
20°	454.6	444.2	436.3	397.2	397.2	318.8	263.9	235.2	235.2	240.4	243.0
22.5°	339.7	326.6	329.2	321.4	300.5	237.8	209.0	201.2	201.2	206.4	206.4
25°	295.3	277.0	271.7	269.1	248.2	203.8	182.9	175.1	175.1	180.3	180.3
27.5°	250.8	245.6	237.8	227.3	209.0	175.1	162.0	154.2	156.8	159.4	156.8
30°	229.9	216.9	206.4	206.4	185.5	156.8	146.3	141.1	135.9	141.1	143.7
32.5°	203.8	196.0	190.7	182.9	159.4	138.5	128.0	122.8	120.2	120.2	122.8
35°	175.1	175.1	169.8	159.4	138.5	125.4	112.4	107.1	104.5	107.1	107.1
37.5°	156.8	148.9	151.5	141.1	122.8	109.7	96.7	91.4	91.4	88.8	91.4
40°	146.3	133.3	125.4	120.2	109.7	94.1	83.6	78.4	75.8	75.8	75.8
42.5°	130.6	120.2	104.5	101.9	99.3	81.0	67.9	65.3	62.7	60.1	60.1
45°	122.8	107.1	94.1	81.0	81.0	67.9	57.5	52.3	49.6	47.0	49.6
47.5°	112.4	96.7	81.0	67.9	65.3	54.9	44.4	39.2	36.6	36.6	36.6
50°	107.1	86.2	70.5	57.5	49.6	44.4	34.0	28.7	26.1	26.1	26.1
52.5°	99.3	81.0	62.7	49.6	39.2	34.0	26.1	20.9	18.3	18.3	18.3
55°	88.8	73.2	54.9	41.8	34.0	26.1	18.3	13.1	10.5	10.5	10.5
57.5°	83.6	65.3	47.0	36.6	26.1	18.3	10.5	7.8	7.8	5.2	7.8
60°	75.8	57.5	39.2	28.7	20.9	13.1	7.8	2.6	2.6	2.6	2.6
62.5°	65.3	49.6	34.0	23.5	15.7	7.8	2.6	0.0	0.0	0.0	0.0
65°	54.9	39.2	26.1	18.3	10.5	2.6	0.0	0.0	0.0	0.0	0.0
67.5°	47.0	34.0	20.9	13.1	7.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	41.8	28.7	15.7	10.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	34.0	23.5	13.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	28.7	18.3	7.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	23.5	13.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.3	10.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.7	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	2.6	0.0	0.0	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	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9	3678.9
2.5°	3318.3	3302.6	3381.0	3509.0	3574.4	3702.4	3733.8	3814.7	3793.8	3822.6
5°	2746.1	2777.5	2892.4	3080.5	3148.5	3334.0	3509.0	3684.1	3796.5	3851.3
7.5°	2038.0	2142.5	2283.6	2456.1	2631.1	2874.1	3172.0	3375.8	3485.5	3603.1
10°	1518.1	1630.4	1792.4	1962.2	2247.0	2518.8	2816.6	3070.1	3164.2	3273.9
12.5°	1194.1	1369.1	1557.3	1740.2	1910.0	2168.7	2537.1	2905.5	3007.4	3091.0
15°	830.9	1045.1	1314.3	1552.0	1789.8	2014.5	2396.0	2842.8	2981.3	3122.3
17.5°	459.9	629.7	938.0	1272.5	1622.6	1967.5	2443.0	2957.7	3166.8	3266.1
20°	266.5	334.4	553.9	951.1	1413.5	1865.6	2466.5	3174.6	3451.6	3501.2
22.5°	219.5	243.0	313.5	595.7	1157.5	1800.2	2586.7	3477.7	3759.9	3877.5
25°	188.1	206.4	243.0	358.0	875.3	1661.8	2662.5	3856.6	4117.8	4245.9
27.5°	167.2	185.5	214.3	263.9	595.7	1471.0	2787.9	4198.8	4460.1	4635.2
30°	146.3	162.0	190.7	224.7	412.8	1256.8	2895.0	4449.7	4818.1	4872.9
32.5°	130.6	143.7	164.6	193.4	305.7	953.7	2981.3	4708.3	5019.3	5139.5
35°	112.4	128.0	141.1	164.6	232.5	718.5	2929.0	4909.5	5314.5	5458.2
37.5°	99.3	109.7	122.8	138.5	196.0	561.8	2821.9	5149.9	5568.0	5701.2
40°	83.6	91.4	107.1	122.8	177.7	433.7	2699.1	5439.9	5923.3	6158.5
42.5°	70.5	78.4	88.8	115.0	146.3	321.4	2450.8	5664.6	6210.7	6409.3
45°	54.9	65.3	81.0	115.0	117.6	237.8	2194.8	5831.9	6372.7	6472.0
47.5°	41.8	52.3	78.4	99.3	94.1	164.6	1891.7	6022.6	6539.9	6631.4
50°	31.4	41.8	88.8	86.2	78.4	125.4	1701.0	6155.9	6550.4	6600.0
52.5°	20.9	31.4	73.2	65.3	65.3	109.7	1648.7	6150.6	6576.5	6469.4
55°	15.7	23.5	41.8	47.0	57.5	96.7	1601.7	6346.6	6584.4	6660.1
57.5°	10.5	18.3	28.7	36.6	49.6	83.6	1505.0	6581.7	6827.4	6866.5
60°	5.2	13.1	20.9	28.7	41.8	73.2	1369.1	6754.2	7122.6	7164.4
62.5°	2.6	7.8	15.7	23.5	34.0	57.5	1228.0	6479.8	6994.6	7067.7
65°	0.0	5.2	10.5	15.7	20.9	41.8	998.1	5850.2	6487.7	6756.8
67.5°	0.0	0.0	5.2	10.5	13.1	31.4	752.5	5322.4	6020.0	6385.8
70°	0.0	0.0	2.6	2.6	7.8	23.5	480.8	4407.9	5374.6	5575.8
72.5°	0.0	0.0	0.0	0.0	2.6	15.7	279.6	3273.9	4211.9	4585.5
75°	0.0	0.0	0.0	0.0	0.0	13.1	141.1	2106.0	2931.6	3433.3
77.5°	0.0	0.0	0.0	0.0	0.0	10.5	75.8	1358.7	2160.8	2581.5
80°	0.0	0.0	0.0	0.0	0.0	2.6	44.4	789.1	1382.2	1674.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	18.3	386.7	825.7	966.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	5.2	206.4	412.8	543.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	28.7	54.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)