

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: P677292

Luminaire Tested: **CCW-SA-2E-740-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677292
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-740-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) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

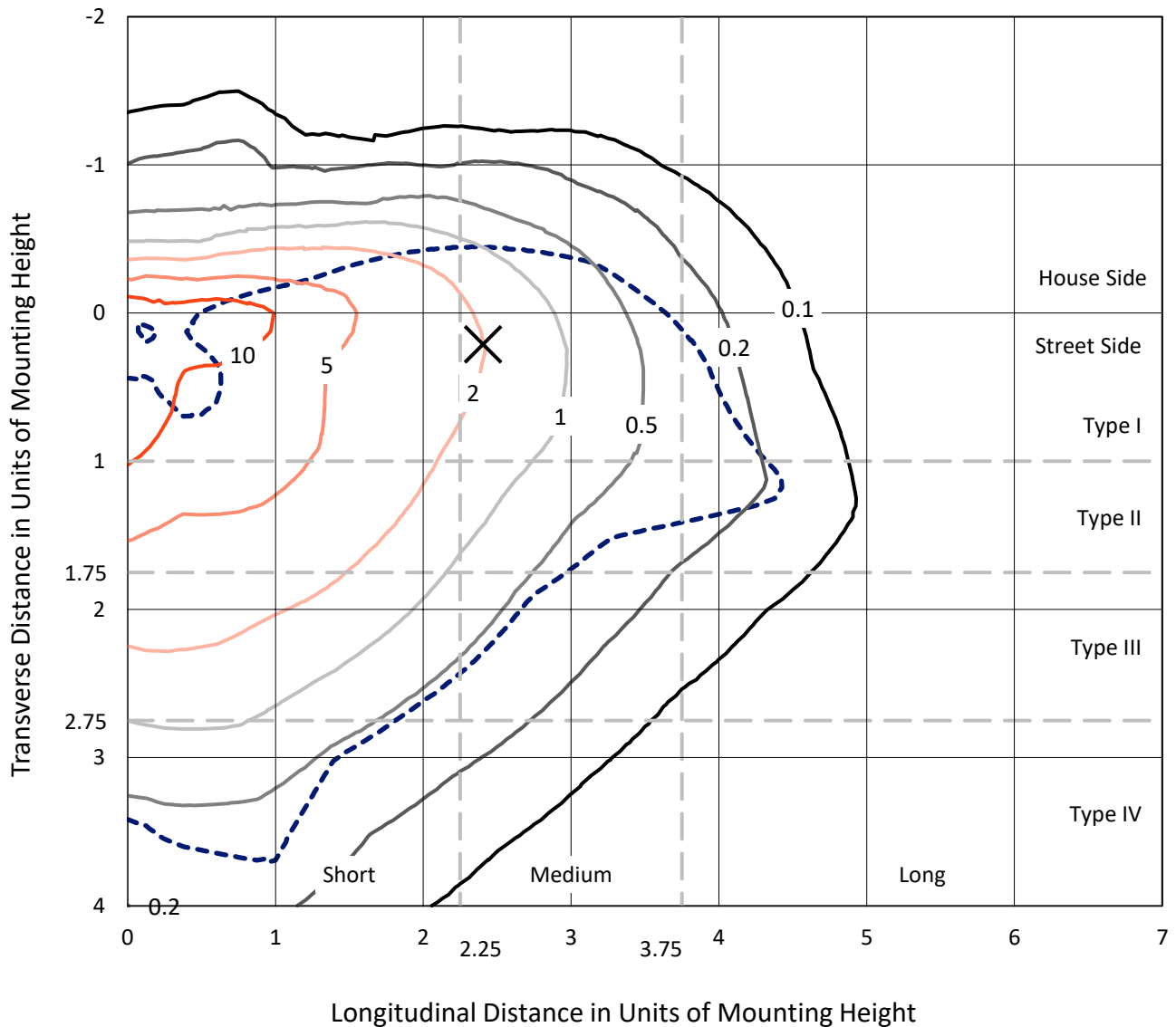
Lumens per Lamp: N/A
Luminaire Lumens: 9920.3 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
Input Voltage (V): 120
Input Current (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

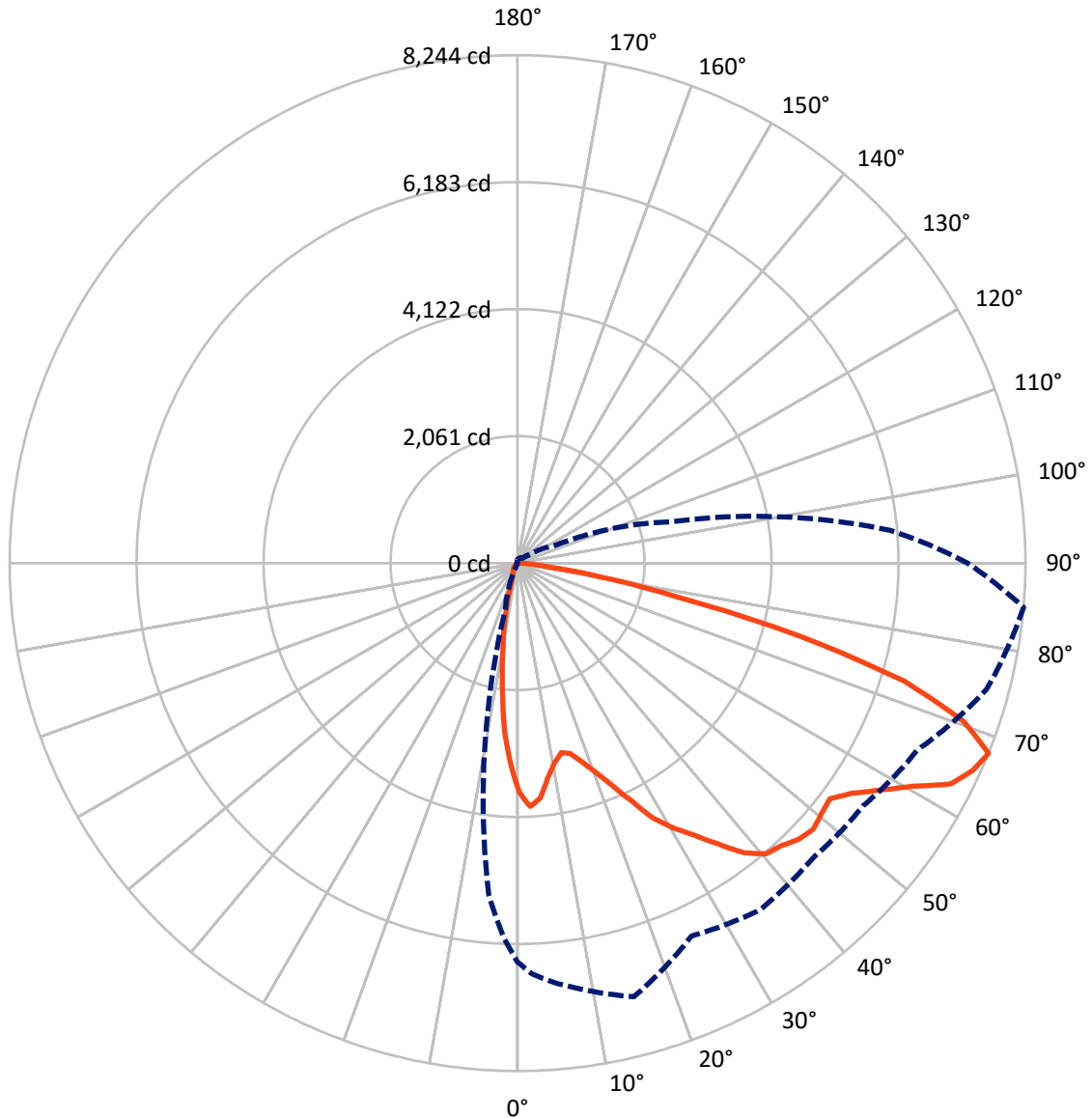
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 18.6 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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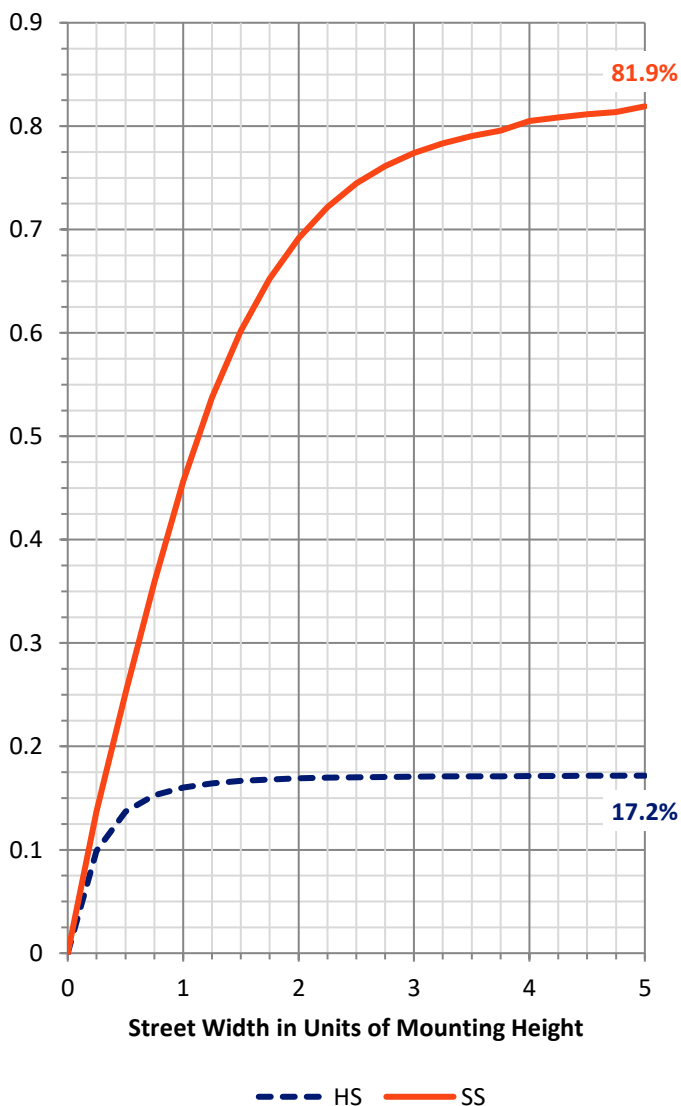
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1722.5	0.0	1722.5
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	8197.8	0.0	8197.8
	% Fixture	82.6	0.0	82.6
Total	Lumens	9920.3	0.0	9920.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.4	2.9
10°-20°	555.7	5.6
20°-30°	769.0	7.8
30°-40°	1086.7	11.0
40°-50°	1479.6	14.9
50°-60°	1959.6	19.8
60°-70°	2275.3	22.9
70°-80°	1288.5	13.0
80°-90°	222.6	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°	9920.3	100.0
0°-180°	9920.3	100.0



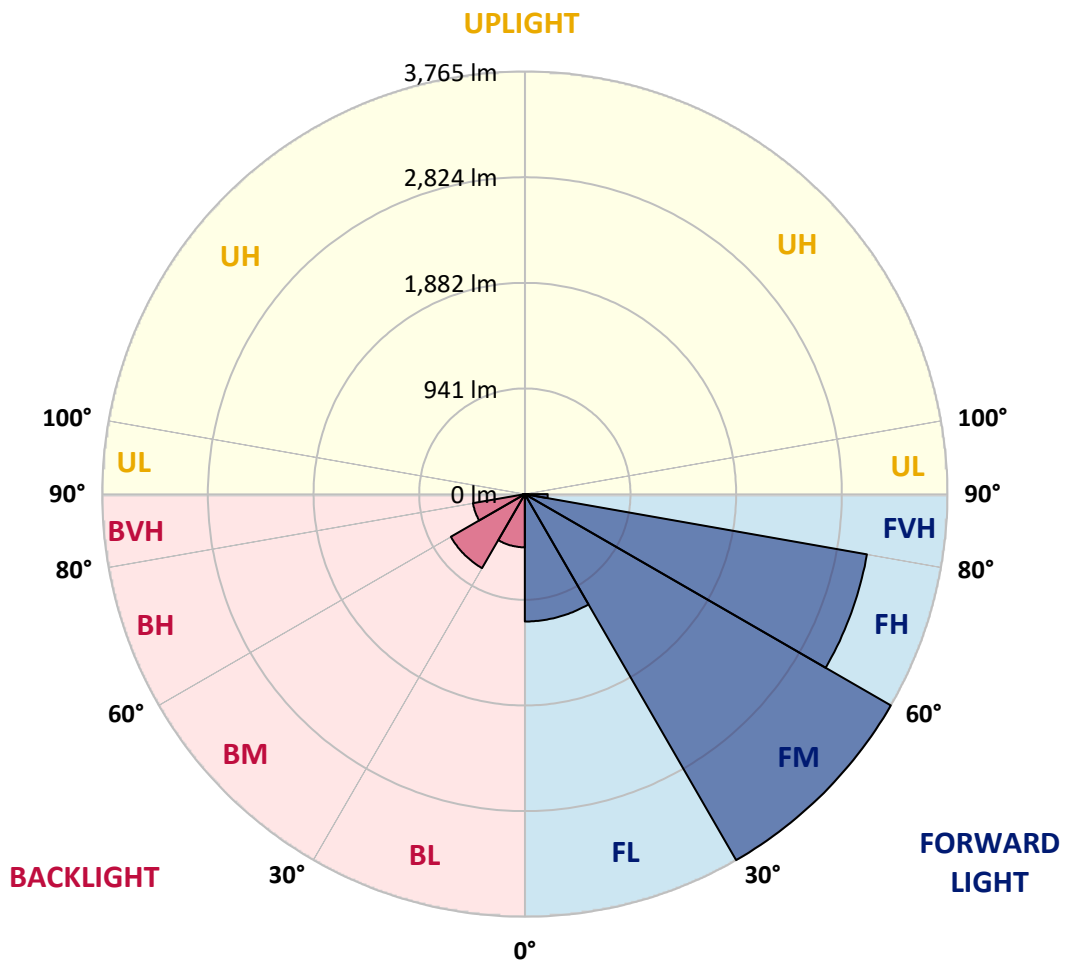
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1134.4	11.4			
FM (30°-60°)	3764.9	38.0			
FH (60°-80°)	3094.7	31.2			G2/5000
FVH (80°-90°)	203.9	2.1			G2/225
BL (0°-30°)	473.5	4.8	B1/500		
BM (30°-60°)	761.1	7.7	B1/1000		
BH (60°-80°)	469.1	4.7	B1/500		G1/500
BVH (80°-90°)	18.8	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°	3730.0	3730.0	3730.0	3730.0	3730.0	3730.0	3730.0	3730.0	3730.0	3730.0	3730.0
2.5°	3875.7	3957.8	3960.5	3997.5	4034.6	4034.6	4122.1	4100.9	4024.0	4010.8	3955.2
5°	3904.8	3934.0	3955.2	4143.2	4302.2	4286.3	4334.0	4302.2	4153.8	3963.1	3833.3
7.5°	3653.2	3684.9	3769.7	4090.3	4304.8	4376.4	4466.4	4267.8	4111.5	3767.1	3518.1
10°	3319.4	3380.3	3536.6	3902.2	4167.1	4394.9	4394.9	4236.0	3934.0	3597.5	3292.9
12.5°	3133.9	3255.8	3340.6	3711.4	4055.8	4212.1	4206.8	4122.1	3926.0	3502.2	3157.8
15°	3165.7	3200.2	3380.3	3669.1	3896.9	3888.9	3984.3	3957.8	3820.1	3586.9	3208.1
17.5°	3311.4	3364.4	3520.7	3669.1	3777.7	3745.9	3743.2	3870.4	3878.3	3730.0	3396.2
20°	3549.8	3706.1	3780.3	3825.4	3692.9	3557.8	3541.9	3719.4	3857.1	3912.8	3621.4
22.5°	3931.3	4034.6	4185.6	3955.2	3610.8	3441.2	3409.4	3605.5	3883.6	4130.0	3912.8
25°	4304.8	4384.3	4530.0	4233.3	3703.5	3417.4	3361.8	3531.3	3984.3	4432.0	4265.1
27.5°	4699.6	4768.4	4784.3	4437.3	3753.8	3369.7	3303.5	3531.3	4069.1	4591.0	4686.3
30°	4940.6	5022.8	5038.7	4617.4	3835.9	3409.4	3377.6	3547.2	4127.4	4726.1	4988.3
32.5°	5210.8	5232.0	5218.8	4649.2	3926.0	3526.0	3393.5	3653.2	4193.6	4887.7	5263.8
35°	5534.0	5571.1	5436.0	4794.9	4127.4	3600.2	3552.5	3783.0	4307.5	4961.8	5597.6
37.5°	5780.4	5897.0	5592.3	4850.6	4167.1	3756.5	3764.4	4053.2	4387.0	5051.9	5965.9
40°	6244.0	6048.0	5857.2	5041.3	4318.1	4021.4	3979.0	4331.3	4654.5	5110.2	6206.9
42.5°	6498.3	6395.0	5960.6	5059.8	4551.2	4387.0	4397.6	4646.6	4794.9	5274.4	6273.2
45°	6561.9	6453.3	6101.0	5073.1	4781.7	4818.8	5001.6	5049.3	5001.6	5383.0	6397.7
47.5°	6723.5	6487.7	6085.1	5250.6	5155.2	5298.3	5531.4	5634.7	5282.4	5343.3	6455.9
50°	6691.7	6556.6	6050.6	5324.8	5610.9	5989.7	6146.0	6103.6	5595.0	5261.2	6392.4
52.5°	6559.3	6413.6	6156.6	5526.1	6037.4	6495.7	6712.9	6606.9	5873.1	5446.6	6350.0
55°	6752.6	6641.4	6294.3	5799.0	6357.9	6940.7	7094.4	7014.9	6214.9	5618.8	6591.0
57.5°	6961.9	6938.1	6667.9	6119.5	6736.7	7399.0	7399.0	7301.0	6511.6	5867.8	6948.7
60°	7263.9	7316.9	6943.4	6331.4	6866.6	7372.5	7756.7	7642.8	6810.9	6304.9	7354.0
62.5°	7165.9	7335.5	7298.4	6787.1	7014.9	7502.3	7711.6	7796.4	7181.8	6837.4	7894.4
65°	6850.7	7030.8	7295.7	7086.4	6903.6	7187.1	7293.1	7550.0	7367.2	7338.1	8116.9
67.5°	6474.5	6670.5	6834.8	7287.8	6678.5	6866.6	6773.8	6856.0	7165.9	7886.5	8244.1
70°	5653.3	5841.3	6101.0	6840.1	6082.4	5912.9	5889.0	5849.3	6331.4	7690.4	7666.6
72.5°	4649.2	4736.7	5165.8	5560.5	4500.9	4469.1	4506.2	4461.1	5020.1	6961.9	6567.2
75°	3481.0	3568.4	3812.1	4270.4	3065.0	2882.3	3094.2	3303.5	3833.3	5404.2	4718.1
77.5°	2617.3	2728.6	2882.3	3194.9	2249.1	1963.0	1992.1	2190.8	2771.0	4328.7	2643.8
80°	1698.1	1684.8	1981.6	2198.8	1692.8	1745.8	1671.6	1817.3	2008.0	2315.3	1351.1
82.5°	980.2	993.4	1117.9	1261.0	1178.9	1348.4	972.2	1623.9	1433.2	943.1	503.3
85°	551.0	574.9	688.8	874.2	739.1	495.4	405.3	805.3	900.7	386.8	243.7
87.5°	55.6	47.7	92.7	331.1	201.3	82.1	121.9	193.4	217.2	145.7	71.5
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°	3730.0	3730.0	3730.0	3730.0	3730.0	3730.0	3730.0	3730.0	3730.0	3730.0	3730.0
2.5°	3875.7	3875.7	3809.5	3698.2	3653.2	3573.7	3465.1	3499.5	3462.4	3327.3	3292.9
5°	3716.7	3589.6	3451.8	3282.3	3184.3	2982.9	2919.3	2805.4	2824.0	2710.1	2715.4
7.5°	3385.6	3284.9	3051.8	2829.3	2635.9	2461.0	2214.7	2122.0	2031.9	1986.9	2039.8
10°	3192.2	3004.1	2686.2	2394.8	2137.9	1981.6	1817.3	1690.1	1573.6	1486.2	1467.6
12.5°	3051.8	2884.9	2500.8	2145.8	1944.5	1817.3	1666.3	1491.5	1377.5	1226.5	1181.5
15°	3009.4	2805.4	2400.1	2047.8	1851.7	1642.5	1470.3	1298.1	1149.7	990.8	935.1
17.5°	3155.1	2919.3	2397.5	1968.3	1692.8	1467.6	1229.2	1035.8	884.8	739.1	704.7
20°	3401.5	3041.2	2474.3	1920.6	1541.8	1239.8	969.6	776.2	606.7	511.3	487.4
22.5°	3682.3	3247.8	2482.2	1793.5	1390.8	1012.0	707.3	511.3	415.9	370.9	357.6
25°	4026.7	3579.0	2577.6	1690.1	1213.3	768.2	503.3	392.1	336.4	309.9	304.7
27.5°	4310.1	3809.5	2680.9	1581.5	1038.5	569.6	394.7	320.5	291.4	264.9	262.3
30°	4604.2	4074.4	2710.1	1515.3	887.5	468.9	339.1	283.5	251.7	238.4	235.8
32.5°	4861.2	4363.1	2802.8	1406.7	744.4	413.3	307.3	254.3	233.1	211.9	209.3
35°	5192.3	4530.0	2847.8	1348.4	691.4	373.5	280.8	233.1	201.3	188.1	182.8
37.5°	5547.3	4691.6	2877.0	1303.4	646.4	349.7	264.9	219.9	190.7	172.2	166.9
40°	5878.4	4919.4	2834.6	1247.7	612.0	320.5	254.3	204.0	177.5	158.9	151.0
42.5°	6132.7	5142.0	2821.3	1194.8	574.9	309.9	241.1	196.0	166.9	145.7	143.1
45°	6275.8	5293.0	2728.6	1152.4	545.7	315.2	235.8	185.4	158.9	140.4	129.8
47.5°	6241.4	5409.5	2752.5	1139.1	506.0	294.1	233.1	177.5	145.7	129.8	121.9
50°	6432.1	5645.3	2712.7	1096.7	476.8	264.9	254.3	177.5	143.1	124.5	116.6
52.5°	6463.9	5859.9	2797.5	1019.9	431.8	243.7	251.7	174.8	137.8	119.2	108.6
55°	6728.8	6108.9	2961.7	977.5	394.7	211.9	230.5	169.5	124.5	108.6	103.3
57.5°	7089.1	6625.5	3067.7	937.8	344.4	185.4	193.4	166.9	113.9	100.7	92.7
60°	7436.1	6832.1	3075.6	866.3	296.7	166.9	151.0	166.9	106.0	90.1	82.1
62.5°	7695.7	6832.1	3022.7	805.3	259.6	148.4	132.5	158.9	95.4	79.5	74.2
65°	7555.3	6649.3	2884.9	755.0	235.8	129.8	113.9	121.9	84.8	68.9	63.6
67.5°	7303.7	6079.8	2580.3	694.1	233.1	113.9	98.0	90.1	74.2	60.9	55.6
70°	6901.0	5311.5	2148.4	625.2	227.8	103.3	87.4	76.8	66.2	53.0	47.7
72.5°	5560.5	4387.0	1764.3	585.5	222.5	90.1	74.2	66.2	55.6	45.0	39.7
75°	3851.8	2802.8	1359.0	500.7	217.2	82.1	68.9	58.3	47.7	37.1	34.4
77.5°	2310.0	1872.9	876.9	376.2	143.1	66.2	58.3	45.0	39.7	31.8	29.1
80°	1080.8	884.8	355.0	145.7	68.9	47.7	39.7	34.4	31.8	26.5	23.8
82.5°	423.9	373.5	172.2	84.8	55.6	37.1	31.8	29.1	26.5	21.2	18.5
85°	227.8	201.3	82.1	58.3	39.7	26.5	26.5	23.8	21.2	18.5	15.9
87.5°	50.3	37.1	34.4	34.4	29.1	21.2	21.2	18.5	15.9	13.2	10.6
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3730.0	3730.0	3730.0	3730.0	3730.0	3730.0	3730.0	3730.0	3730.0	3730.0	3730.0
2.5°	3274.3	3314.1	3250.5	3290.2	3234.6	3277.0	3282.3	3242.5	3253.1	3306.1	3330.0
5°	2789.5	2763.0	2704.8	2686.2	2688.9	2654.4	2667.7	2686.2	2715.4	2731.3	2778.9
7.5°	2010.7	2071.6	2069.0	2114.0	2116.7	2111.4	2074.3	1994.8	2021.3	2000.1	2026.6
10°	1438.5	1465.0	1515.3	1544.4	1597.4	1568.3	1483.5	1451.7	1435.8	1433.2	1459.7
12.5°	1149.7	1086.1	1080.8	1091.4	1117.9	1083.5	1041.1	1004.0	1022.6	1059.7	1088.8
15°	890.1	837.1	768.2	757.7	763.0	747.1	702.0	654.3	667.6	704.7	725.9
17.5°	683.5	622.5	574.9	543.1	532.5	476.8	410.6	370.9	360.3	357.6	376.2
20°	460.9	450.4	442.4	402.7	402.7	323.2	267.6	238.4	238.4	243.7	246.4
22.5°	344.4	331.1	333.8	325.8	304.7	241.1	211.9	204.0	204.0	209.3	209.3
25°	299.4	280.8	275.5	272.9	251.7	206.6	185.4	177.5	177.5	182.8	182.8
27.5°	254.3	249.0	241.1	230.5	211.9	177.5	164.2	156.3	158.9	161.6	158.9
30°	233.1	219.9	209.3	209.3	188.1	158.9	148.4	143.1	137.8	143.1	145.7
32.5°	206.6	198.7	193.4	185.4	161.6	140.4	129.8	124.5	121.9	121.9	124.5
35°	177.5	177.5	172.2	161.6	140.4	127.2	113.9	108.6	106.0	108.6	108.6
37.5°	158.9	151.0	153.6	143.1	124.5	111.3	98.0	92.7	92.7	90.1	92.7
40°	148.4	135.1	127.2	121.9	111.3	95.4	84.8	79.5	76.8	76.8	76.8
42.5°	132.5	121.9	106.0	103.3	100.7	82.1	68.9	66.2	63.6	60.9	60.9
45°	124.5	108.6	95.4	82.1	82.1	68.9	58.3	53.0	50.3	47.7	50.3
47.5°	113.9	98.0	82.1	68.9	66.2	55.6	45.0	39.7	37.1	37.1	37.1
50°	108.6	87.4	71.5	58.3	50.3	45.0	34.4	29.1	26.5	26.5	26.5
52.5°	100.7	82.1	63.6	50.3	39.7	34.4	26.5	21.2	18.5	18.5	18.5
55°	90.1	74.2	55.6	42.4	34.4	26.5	18.5	13.2	10.6	10.6	10.6
57.5°	84.8	66.2	47.7	37.1	26.5	18.5	10.6	7.9	7.9	5.3	7.9
60°	76.8	58.3	39.7	29.1	21.2	13.2	7.9	2.6	2.6	2.6	2.6
62.5°	66.2	50.3	34.4	23.8	15.9	7.9	2.6	0.0	0.0	0.0	0.0
65°	55.6	39.7	26.5	18.5	10.6	2.6	0.0	0.0	0.0	0.0	0.0
67.5°	47.7	34.4	21.2	13.2	7.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	42.4	29.1	15.9	10.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	34.4	23.8	13.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	29.1	18.5	7.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	23.8	13.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.5	10.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.9	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	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°	3730.0	3730.0	3730.0	3730.0	3730.0	3730.0	3730.0	3730.0	3730.0	3730.0
2.5°	3364.4	3348.5	3428.0	3557.8	3624.0	3753.8	3785.6	3867.7	3846.5	3875.7
5°	2784.2	2816.0	2932.6	3123.3	3192.2	3380.3	3557.8	3735.3	3849.2	3904.8
7.5°	2066.3	2172.3	2315.3	2490.2	2667.7	2914.0	3216.0	3422.7	3533.9	3653.2
10°	1539.1	1653.1	1817.3	1989.5	2278.3	2553.8	2855.8	3112.7	3208.1	3319.4
12.5°	1210.7	1388.1	1578.9	1764.3	1936.5	2198.8	2572.3	2945.8	3049.2	3133.9
15°	842.4	1059.7	1332.5	1573.6	1814.7	2042.5	2429.3	2882.3	3022.7	3165.7
17.5°	466.2	638.4	951.0	1290.1	1645.1	1994.8	2476.9	2998.8	3210.8	3311.4
20°	270.2	339.1	561.6	964.3	1433.2	1891.5	2500.8	3218.7	3499.5	3549.8
22.5°	222.5	246.4	317.9	604.0	1173.6	1825.3	2622.6	3526.0	3812.1	3931.3
25°	190.7	209.3	246.4	362.9	887.5	1684.8	2699.5	3910.1	4175.0	4304.8
27.5°	169.5	188.1	217.2	267.6	604.0	1491.5	2826.6	4257.2	4522.1	4699.6
30°	148.4	164.2	193.4	227.8	418.6	1274.2	2935.2	4511.5	4885.0	4940.6
32.5°	132.5	145.7	166.9	196.0	309.9	966.9	3022.7	4773.7	5089.0	5210.8
35°	113.9	129.8	143.1	166.9	235.8	728.5	2969.7	4977.7	5388.3	5534.0
37.5°	100.7	111.3	124.5	140.4	198.7	569.6	2861.1	5221.4	5645.3	5780.4
40°	84.8	92.7	108.6	124.5	180.1	439.8	2736.6	5515.5	6005.6	6244.0
42.5°	71.5	79.5	90.1	116.6	148.4	325.8	2484.9	5743.3	6297.0	6498.3
45°	55.6	66.2	82.1	116.6	119.2	241.1	2225.3	5912.9	6461.2	6561.9
47.5°	42.4	53.0	79.5	100.7	95.4	166.9	1918.0	6106.3	6630.8	6723.5
50°	31.8	42.4	90.1	87.4	79.5	127.2	1724.6	6241.4	6641.4	6691.7
52.5°	21.2	31.8	74.2	66.2	66.2	111.3	1671.6	6236.1	6667.9	6559.3
55°	15.9	23.8	42.4	47.7	58.3	98.0	1623.9	6434.7	6675.8	6752.6
57.5°	10.6	18.5	29.1	37.1	50.3	84.8	1525.9	6673.2	6922.2	6961.9
60°	5.3	13.2	21.2	29.1	42.4	74.2	1388.1	6848.0	7221.5	7263.9
62.5°	2.6	7.9	15.9	23.8	34.4	58.3	1245.1	6569.9	7091.7	7165.9
65°	0.0	5.3	10.6	15.9	21.2	42.4	1012.0	5931.4	6577.8	6850.7
67.5°	0.0	0.0	5.3	10.6	13.2	31.8	763.0	5396.3	6103.6	6474.5
70°	0.0	0.0	2.6	2.6	7.9	23.8	487.4	4469.1	5449.3	5653.3
72.5°	0.0	0.0	0.0	0.0	2.6	15.9	283.5	3319.4	4270.4	4649.2
75°	0.0	0.0	0.0	0.0	0.0	13.2	143.1	2135.2	2972.3	3481.0
77.5°	0.0	0.0	0.0	0.0	0.0	10.6	76.8	1377.5	2190.8	2617.3
80°	0.0	0.0	0.0	0.0	0.0	2.6	45.0	800.0	1401.4	1698.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	18.5	392.1	837.1	980.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	5.3	209.3	418.6	551.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	29.1	55.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)