

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: P677346

Luminaire Tested: **CCW-SA-2D-835-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677346
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-835-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SLL distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

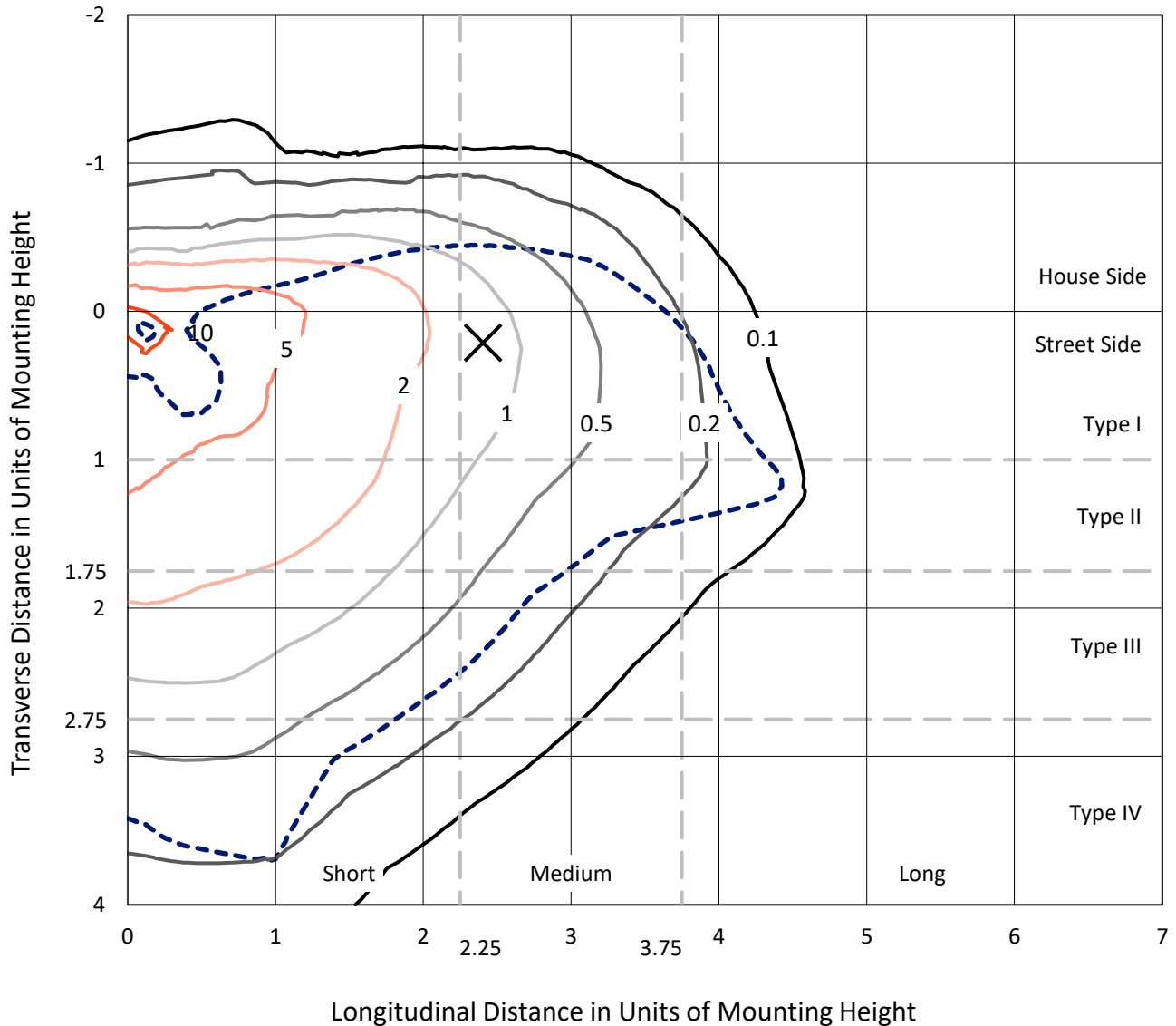
Lumens per Lamp: N/A
Luminaire Lumens: 6667.6 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

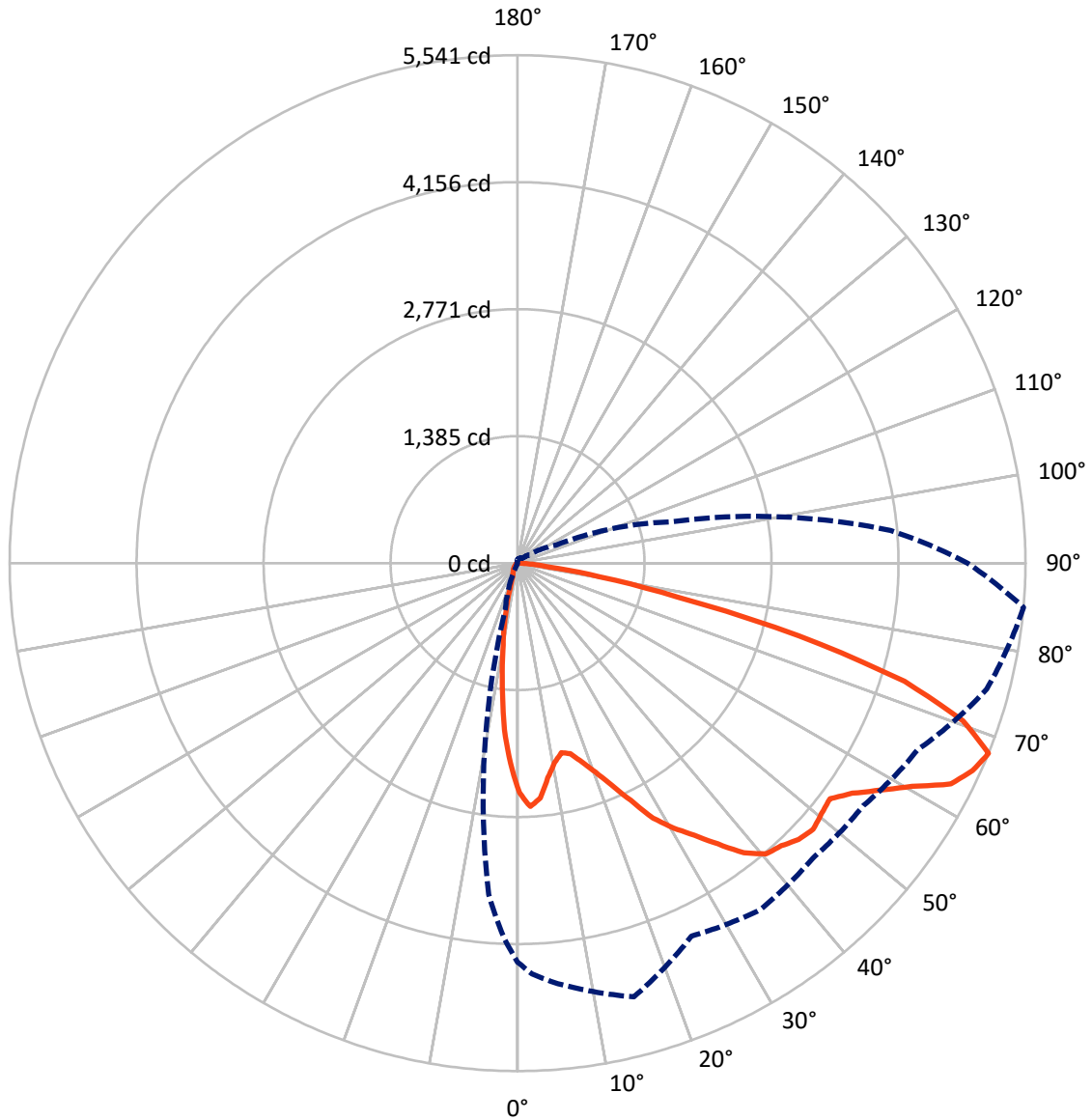
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 12.5 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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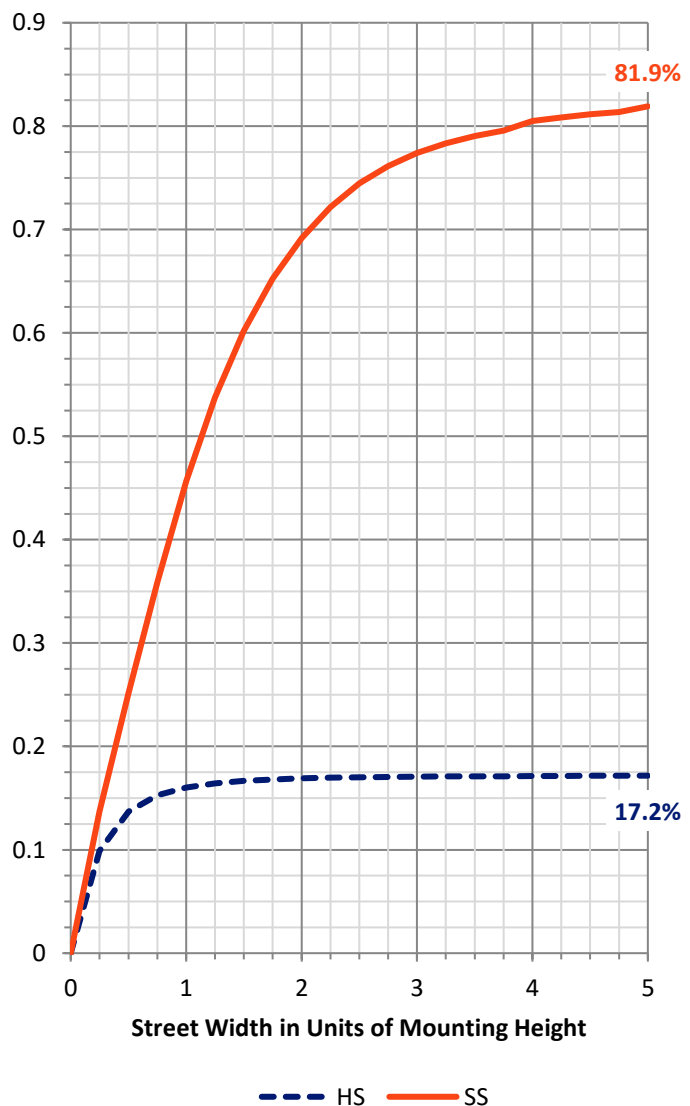
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1157.7	0.0	1157.7
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	5509.9	0.0	5509.9
	% Fixture	82.6	0.0	82.6
Total	Lumens	6667.6	0.0	6667.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.5	2.9
10°-20°	373.5	5.6
20°-30°	516.8	7.8
30°-40°	730.4	11.0
40°-50°	994.5	14.9
50°-60°	1317.1	19.8
60°-70°	1529.2	22.9
70°-80°	866.0	13.0
80°-90°	149.6	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°	6667.6	100.0
0°-180°	6667.6	100.0



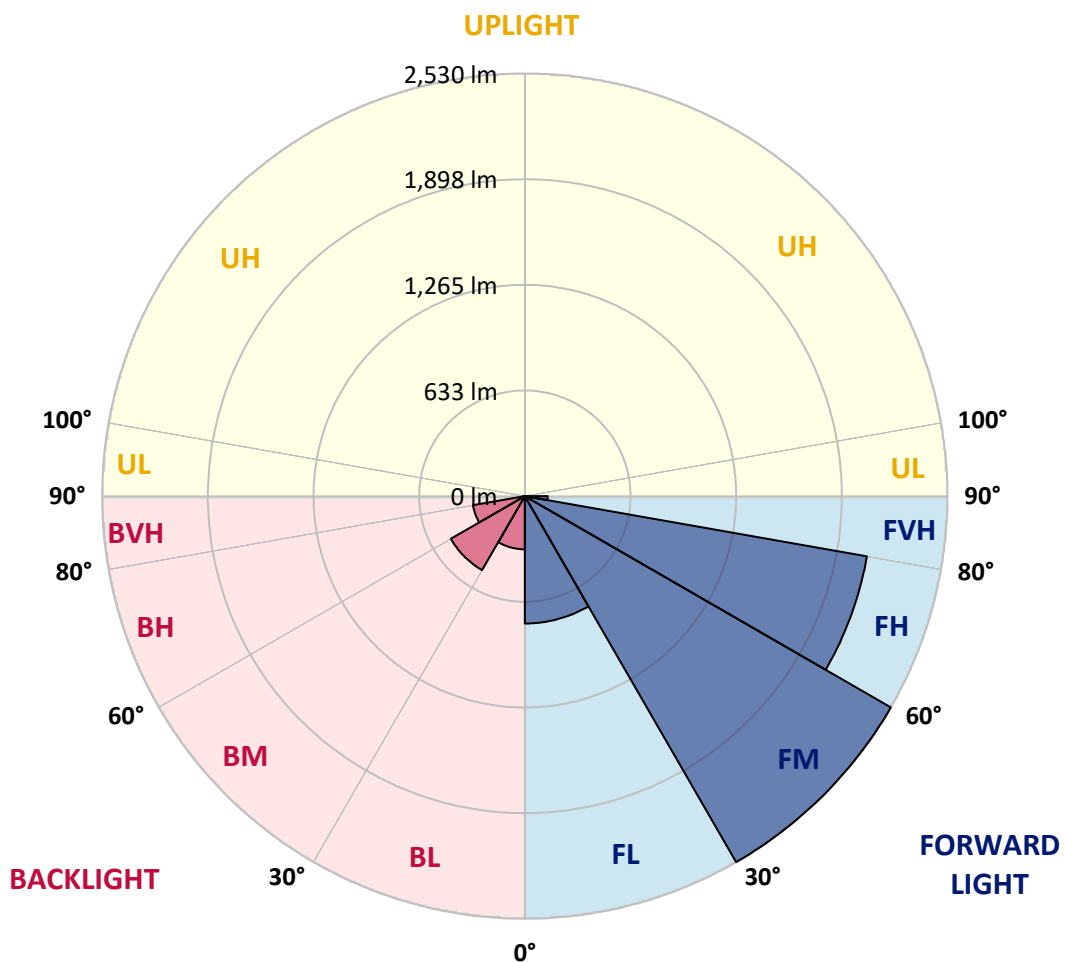
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	762.5	11.4			
FM (30°-60°)	2530.4	38.0			
FH (60°-80°)	2080.0	31.2			G2/5000
FVH (80°-90°)	137.0	2.1			G2/225
BL (0°-30°)	318.3	4.8	B1/500		
BM (30°-60°)	511.5	7.7	B1/1000		
BH (60°-80°)	315.3	4.7	B1/500		G1/500
BVH (80°-90°)	12.6	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°	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0
2.5°	2604.9	2660.1	2661.9	2686.8	2711.7	2711.7	2770.5	2756.3	2704.6	2695.7	2658.3
5°	2624.5	2644.1	2658.3	2784.7	2891.6	2880.9	2912.9	2891.6	2791.9	2663.7	2576.4
7.5°	2455.3	2476.7	2533.7	2749.1	2893.4	2941.4	3002.0	2868.4	2763.4	2531.9	2364.5
10°	2231.0	2272.0	2377.0	2622.7	2800.8	2953.9	2953.9	2847.1	2644.1	2418.0	2213.2
12.5°	2106.4	2188.3	2245.2	2494.5	2726.0	2831.0	2827.5	2770.5	2638.7	2353.9	2122.4
15°	2127.7	2150.9	2272.0	2466.0	2619.2	2613.8	2677.9	2660.1	2567.5	2410.8	2156.2
17.5°	2225.7	2261.3	2366.3	2466.0	2539.0	2517.7	2515.9	2601.4	2606.7	2507.0	2282.6
20°	2385.9	2491.0	2540.8	2571.1	2482.1	2391.2	2380.6	2499.9	2592.4	2629.8	2434.0
22.5°	2642.3	2711.7	2813.2	2658.3	2426.9	2312.9	2291.5	2423.3	2610.3	2775.8	2629.8
25°	2893.4	2946.8	3044.7	2845.3	2489.2	2296.9	2259.5	2373.4	2677.9	2978.8	2866.6
27.5°	3158.7	3204.9	3215.6	2982.4	2523.0	2264.8	2220.3	2373.4	2734.9	3085.7	3149.8
30°	3320.7	3375.9	3386.6	3103.5	2578.2	2291.5	2270.2	2384.1	2774.1	3176.5	3352.7
32.5°	3502.3	3516.5	3507.6	3124.8	2638.7	2369.9	2280.9	2455.3	2818.6	3285.1	3537.9
35°	3719.5	3744.4	3653.6	3222.8	2774.1	2419.7	2387.7	2542.6	2895.1	3334.9	3762.3
37.5°	3885.1	3963.5	3758.7	3260.1	2800.8	2524.8	2530.1	2724.2	2948.6	3395.5	4009.7
40°	4196.7	4064.9	3936.7	3388.3	2902.3	2702.8	2674.4	2911.2	3128.4	3434.6	4171.8
42.5°	4367.6	4298.2	4006.2	3400.8	3058.9	2948.6	2955.7	3123.0	3222.8	3545.0	4216.3
45°	4410.4	4337.4	4100.6	3409.7	3213.9	3238.8	3361.6	3393.7	3361.6	3618.0	4300.0
47.5°	4519.0	4360.5	4089.9	3529.0	3464.9	3561.1	3717.7	3787.2	3550.4	3591.3	4339.1
50°	4497.6	4406.8	4066.7	3578.9	3771.2	4025.8	4130.8	4102.3	3760.5	3536.1	4296.4
52.5°	4408.6	4310.7	4137.9	3714.2	4057.8	4365.9	4511.9	4440.6	3947.4	3660.8	4267.9
55°	4538.6	4463.8	4230.5	3897.6	4273.3	4665.0	4768.3	4714.8	4177.1	3776.5	4430.0
57.5°	4679.2	4663.2	4481.6	4113.0	4527.9	4973.0	4973.0	4907.1	4376.5	3943.9	4670.3
60°	4882.2	4917.8	4666.8	4255.5	4615.1	4955.2	5213.4	5136.8	4577.7	4237.7	4942.7
62.5°	4816.3	4930.3	4905.4	4561.7	4714.8	5042.5	5183.1	5240.1	4827.0	4595.5	5306.0
65°	4604.4	4725.5	4903.6	4762.9	4640.1	4830.6	4901.8	5074.5	4951.6	4932.1	5455.5
67.5°	4351.6	4483.4	4593.8	4898.2	4488.7	4615.1	4552.8	4608.0	4816.3	5300.6	5541.0
70°	3799.6	3926.1	4100.6	4597.3	4088.1	3974.1	3958.1	3931.4	4255.5	5168.9	5152.8
72.5°	3124.8	3183.6	3472.0	3737.3	3025.1	3003.8	3028.7	2998.4	3374.1	4679.2	4413.9
75°	2339.6	2398.4	2562.2	2870.2	2060.1	1937.2	2079.7	2220.3	2576.4	3632.3	3171.1
77.5°	1759.2	1833.9	1937.2	2147.3	1511.7	1319.4	1339.0	1472.5	1862.4	2909.4	1777.0
80°	1141.3	1132.4	1331.8	1477.8	1137.8	1173.4	1123.5	1221.4	1349.6	1556.2	908.1
82.5°	658.8	667.7	751.4	847.5	792.3	906.3	653.5	1091.5	963.3	633.9	338.3
85°	370.3	386.4	462.9	587.6	496.8	333.0	272.4	541.3	605.4	260.0	163.8
87.5°	37.4	32.0	62.3	222.6	135.3	55.2	81.9	130.0	146.0	97.9	48.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0
2.5°	2604.9	2604.9	2560.4	2485.6	2455.3	2401.9	2328.9	2352.1	2327.1	2236.3	2213.2
5°	2498.1	2412.6	2320.0	2206.1	2140.2	2004.9	1962.1	1885.6	1898.0	1821.5	1825.0
7.5°	2275.5	2207.9	2051.2	1901.6	1771.6	1654.1	1488.5	1426.2	1365.7	1335.4	1371.0
10°	2145.5	2019.1	1805.5	1609.6	1436.9	1331.8	1221.4	1136.0	1057.6	998.9	986.4
12.5°	2051.2	1939.0	1680.8	1442.2	1306.9	1221.4	1120.0	1002.4	925.9	824.4	794.1
15°	2022.7	1885.6	1613.2	1376.3	1244.6	1103.9	988.2	872.5	772.7	665.9	628.5
17.5°	2120.6	1962.1	1611.4	1322.9	1137.8	986.4	826.2	696.2	594.7	496.8	473.6
20°	2286.2	2044.0	1663.0	1290.9	1036.3	833.3	651.7	521.7	407.7	343.6	327.6
22.5°	2474.9	2182.9	1668.4	1205.4	934.8	680.2	475.4	343.6	279.5	249.3	240.4
25°	2706.4	2405.5	1732.5	1136.0	815.5	516.4	338.3	263.5	226.1	208.3	204.8
27.5°	2896.9	2560.4	1801.9	1063.0	698.0	382.8	265.3	215.4	195.9	178.1	176.3
30°	3094.6	2738.5	1821.5	1018.5	596.5	315.2	227.9	190.5	169.2	160.2	158.5
32.5°	3267.3	2932.5	1883.8	945.5	500.3	277.8	206.5	170.9	156.7	142.4	140.7
35°	3489.8	3044.7	1914.1	906.3	464.7	251.1	188.7	156.7	135.3	126.4	122.9
37.5°	3728.4	3153.3	1933.7	876.0	434.4	235.0	178.1	147.8	128.2	115.7	112.2
40°	3951.0	3306.4	1905.2	838.6	411.3	215.4	170.9	137.1	119.3	106.8	101.5
42.5°	4121.9	3456.0	1896.3	803.0	386.4	208.3	162.0	131.8	112.2	97.9	96.1
45°	4218.1	3557.5	1833.9	774.5	366.8	211.9	158.5	124.6	106.8	94.4	87.2
47.5°	4194.9	3635.8	1850.0	765.6	340.1	197.6	156.7	119.3	97.9	87.2	81.9
50°	4323.1	3794.3	1823.3	737.1	320.5	178.1	170.9	119.3	96.1	83.7	78.3
52.5°	4344.5	3938.5	1880.2	685.5	290.2	163.8	169.2	117.5	92.6	80.1	73.0
55°	4522.5	4105.9	1990.6	657.0	265.3	142.4	154.9	114.0	83.7	73.0	69.4
57.5°	4764.7	4453.1	2061.9	630.3	231.5	124.6	130.0	112.2	76.6	67.7	62.3
60°	4997.9	4592.0	2067.2	582.2	199.4	112.2	101.5	112.2	71.2	60.5	55.2
62.5°	5172.4	4592.0	2031.6	541.3	174.5	99.7	89.0	106.8	64.1	53.4	49.9
65°	5078.1	4469.1	1939.0	507.5	158.5	87.2	76.6	81.9	57.0	46.3	42.7
67.5°	4908.9	4086.3	1734.2	466.5	156.7	76.6	65.9	60.5	49.9	41.0	37.4
70°	4638.3	3570.0	1444.0	420.2	153.1	69.4	58.8	51.6	44.5	35.6	32.0
72.5°	3737.3	2948.6	1185.8	393.5	149.6	60.5	49.9	44.5	37.4	30.3	26.7
75°	2588.9	1883.8	913.4	336.5	146.0	55.2	46.3	39.2	32.0	24.9	23.1
77.5°	1552.6	1258.8	589.4	252.8	96.1	44.5	39.2	30.3	26.7	21.4	19.6
80°	726.5	594.7	238.6	97.9	46.3	32.0	26.7	23.1	21.4	17.8	16.0
82.5°	284.9	251.1	115.7	57.0	37.4	24.9	21.4	19.6	17.8	14.2	12.5
85°	153.1	135.3	55.2	39.2	26.7	17.8	17.8	16.0	14.2	12.5	10.7
87.5°	33.8	24.9	23.1	23.1	19.6	14.2	14.2	12.5	10.7	8.9	7.1
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°	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0
2.5°	2200.7	2227.4	2184.7	2211.4	2174.0	2202.5	2206.1	2179.4	2186.5	2222.1	2238.1
5°	1874.9	1857.1	1817.9	1805.5	1807.2	1784.1	1793.0	1805.5	1825.0	1835.7	1867.8
7.5°	1351.4	1392.4	1390.6	1420.9	1422.6	1419.1	1394.2	1340.7	1358.5	1344.3	1362.1
10°	966.8	984.6	1018.5	1038.0	1073.7	1054.1	997.1	975.7	965.0	963.3	981.1
12.5°	772.7	730.0	726.5	733.6	751.4	728.2	699.7	674.8	687.3	712.2	731.8
15°	598.3	562.6	516.4	509.2	512.8	502.1	471.8	439.8	448.7	473.6	487.9
17.5°	459.4	418.4	386.4	365.0	357.9	320.5	276.0	249.3	242.2	240.4	252.8
20°	309.8	302.7	297.3	270.6	270.6	217.2	179.8	160.2	160.2	163.8	165.6
22.5°	231.5	222.6	224.3	219.0	204.8	162.0	142.4	137.1	137.1	140.7	140.7
25°	201.2	188.7	185.2	183.4	169.2	138.9	124.6	119.3	119.3	122.9	122.9
27.5°	170.9	167.4	162.0	154.9	142.4	119.3	110.4	105.1	106.8	108.6	106.8
30°	156.7	147.8	140.7	140.7	126.4	106.8	99.7	96.1	92.6	96.1	97.9
32.5°	138.9	133.5	130.0	124.6	108.6	94.4	87.2	83.7	81.9	81.9	83.7
35°	119.3	119.3	115.7	108.6	94.4	85.5	76.6	73.0	71.2	73.0	73.0
37.5°	106.8	101.5	103.3	96.1	83.7	74.8	65.9	62.3	62.3	60.5	62.3
40°	99.7	90.8	85.5	81.9	74.8	64.1	57.0	53.4	51.6	51.6	51.6
42.5°	89.0	81.9	71.2	69.4	67.7	55.2	46.3	44.5	42.7	41.0	41.0
45°	83.7	73.0	64.1	55.2	55.2	46.3	39.2	35.6	33.8	32.0	33.8
47.5°	76.6	65.9	55.2	46.3	44.5	37.4	30.3	26.7	24.9	24.9	24.9
50°	73.0	58.8	48.1	39.2	33.8	30.3	23.1	19.6	17.8	17.8	17.8
52.5°	67.7	55.2	42.7	33.8	26.7	23.1	17.8	14.2	12.5	12.5	12.5
55°	60.5	49.9	37.4	28.5	23.1	17.8	12.5	8.9	7.1	7.1	7.1
57.5°	57.0	44.5	32.0	24.9	17.8	12.5	7.1	5.3	5.3	3.6	5.3
60°	51.6	39.2	26.7	19.6	14.2	8.9	5.3	1.8	1.8	1.8	1.8
62.5°	44.5	33.8	23.1	16.0	10.7	5.3	1.8	0.0	0.0	0.0	0.0
65°	37.4	26.7	17.8	12.5	7.1	1.8	0.0	0.0	0.0	0.0	0.0
67.5°	32.0	23.1	14.2	8.9	5.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	28.5	19.6	10.7	7.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	23.1	16.0	8.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	19.6	12.5	5.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	16.0	8.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	12.5	7.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	1.8	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°	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0
2.5°	2261.3	2250.6	2304.0	2391.2	2435.8	2523.0	2544.4	2599.6	2585.3	2604.9
5°	1871.3	1892.7	1971.0	2099.2	2145.5	2272.0	2391.2	2510.5	2587.1	2624.5
7.5°	1388.8	1460.0	1556.2	1673.7	1793.0	1958.6	2161.6	2300.4	2375.2	2455.3
10°	1034.5	1111.0	1221.4	1337.2	1531.3	1716.4	1919.4	2092.1	2156.2	2231.0
12.5°	813.7	933.0	1061.2	1185.8	1301.6	1477.8	1728.9	1979.9	2049.4	2106.4
15°	566.2	712.2	895.6	1057.6	1219.7	1372.8	1632.7	1937.2	2031.6	2127.7
17.5°	313.4	429.1	639.2	867.1	1105.7	1340.7	1664.8	2015.6	2158.0	2225.7
20°	181.6	227.9	377.5	648.1	963.3	1271.3	1680.8	2163.3	2352.1	2385.9
22.5°	149.6	165.6	213.7	406.0	788.8	1226.8	1762.7	2369.9	2562.2	2642.3
25°	128.2	140.7	165.6	243.9	596.5	1132.4	1814.4	2628.1	2806.1	2893.4
27.5°	114.0	126.4	146.0	179.8	406.0	1002.4	1899.8	2861.3	3039.4	3158.7
30°	99.7	110.4	130.0	153.1	281.3	856.4	1972.8	3032.2	3283.3	3320.7
32.5°	89.0	97.9	112.2	131.8	208.3	649.9	2031.6	3208.5	3420.4	3502.3
35°	76.6	87.2	96.1	112.2	158.5	489.6	1996.0	3345.6	3621.6	3719.5
37.5°	67.7	74.8	83.7	94.4	133.5	382.8	1923.0	3509.4	3794.3	3885.1
40°	57.0	62.3	73.0	83.7	121.1	295.6	1839.3	3707.1	4036.5	4196.7
42.5°	48.1	53.4	60.5	78.3	99.7	219.0	1670.1	3860.2	4232.3	4367.6
45°	37.4	44.5	55.2	78.3	80.1	162.0	1495.6	3974.1	4342.7	4410.4
47.5°	28.5	35.6	53.4	67.7	64.1	112.2	1289.1	4104.1	4456.7	4519.0
50°	21.4	28.5	60.5	58.8	53.4	85.5	1159.1	4194.9	4463.8	4497.6
52.5°	14.2	21.4	49.9	44.5	44.5	74.8	1123.5	4191.4	4481.6	4408.6
55°	10.7	16.0	28.5	32.0	39.2	65.9	1091.5	4324.9	4486.9	4538.6
57.5°	7.1	12.5	19.6	24.9	33.8	57.0	1025.6	4485.1	4652.5	4679.2
60°	3.6	8.9	14.2	19.6	28.5	49.9	933.0	4602.7	4853.7	4882.2
62.5°	1.8	5.3	10.7	16.0	23.1	39.2	836.8	4415.7	4766.5	4816.3
65°	0.0	3.6	7.1	10.7	14.2	28.5	680.2	3986.6	4421.0	4604.4
67.5°	0.0	0.0	3.6	7.1	8.9	21.4	512.8	3626.9	4102.3	4351.6
70°	0.0	0.0	1.8	1.8	5.3	16.0	327.6	3003.8	3662.5	3799.6
72.5°	0.0	0.0	0.0	0.0	1.8	10.7	190.5	2231.0	2870.2	3124.8
75°	0.0	0.0	0.0	0.0	0.0	8.9	96.1	1435.1	1997.8	2339.6
77.5°	0.0	0.0	0.0	0.0	0.0	7.1	51.6	925.9	1472.5	1759.2
80°	0.0	0.0	0.0	0.0	0.0	1.8	30.3	537.7	941.9	1141.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	12.5	263.5	562.6	658.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	140.7	281.3	370.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	19.6	37.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)