

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: P671666

Luminaire Tested: **CCP-SA-2E-730-U-SLL**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P671666
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-730-U-SLL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ SLL distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

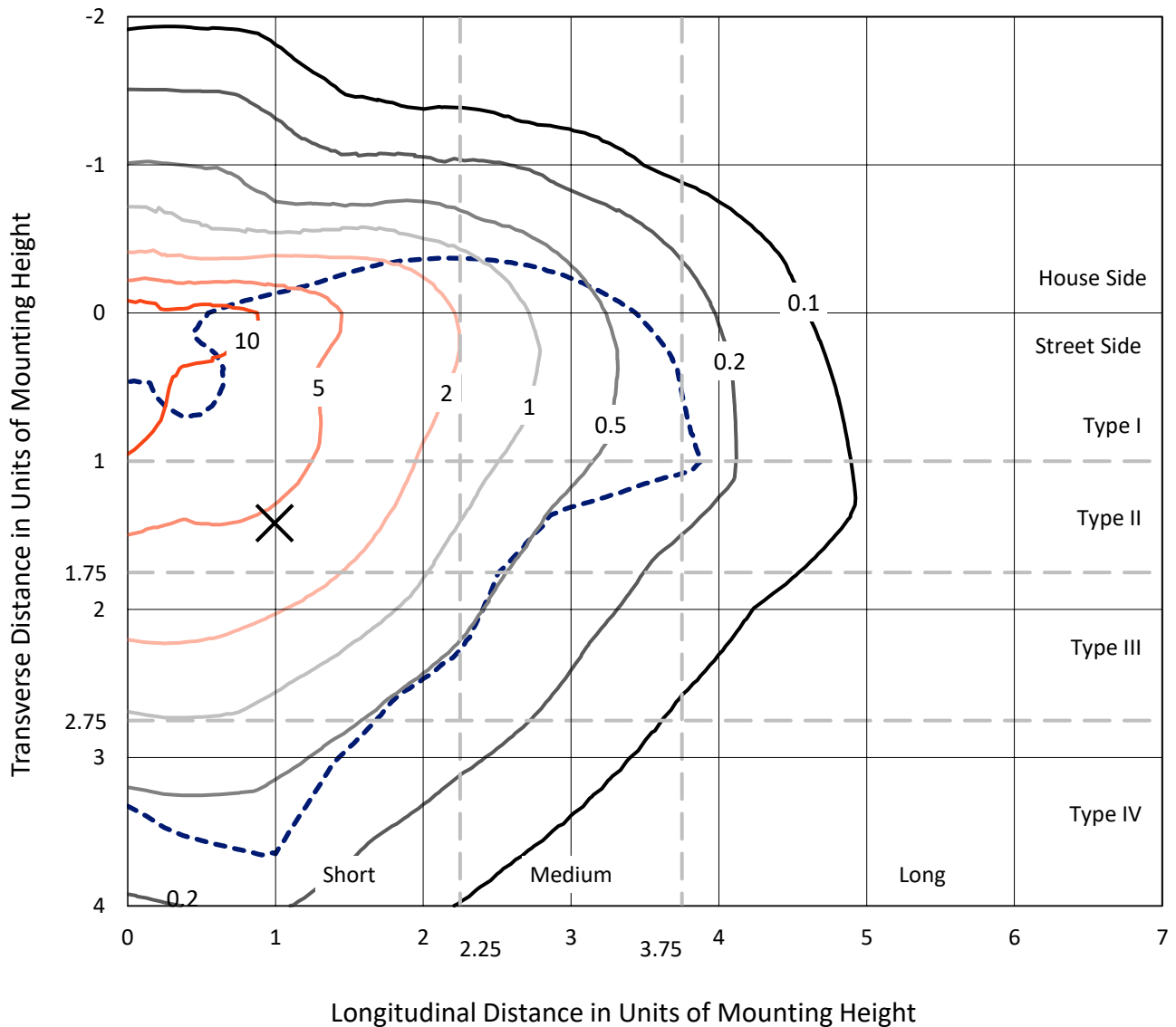
Lumens per Lamp: N/A
Luminaire Lumens: 10330.7 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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

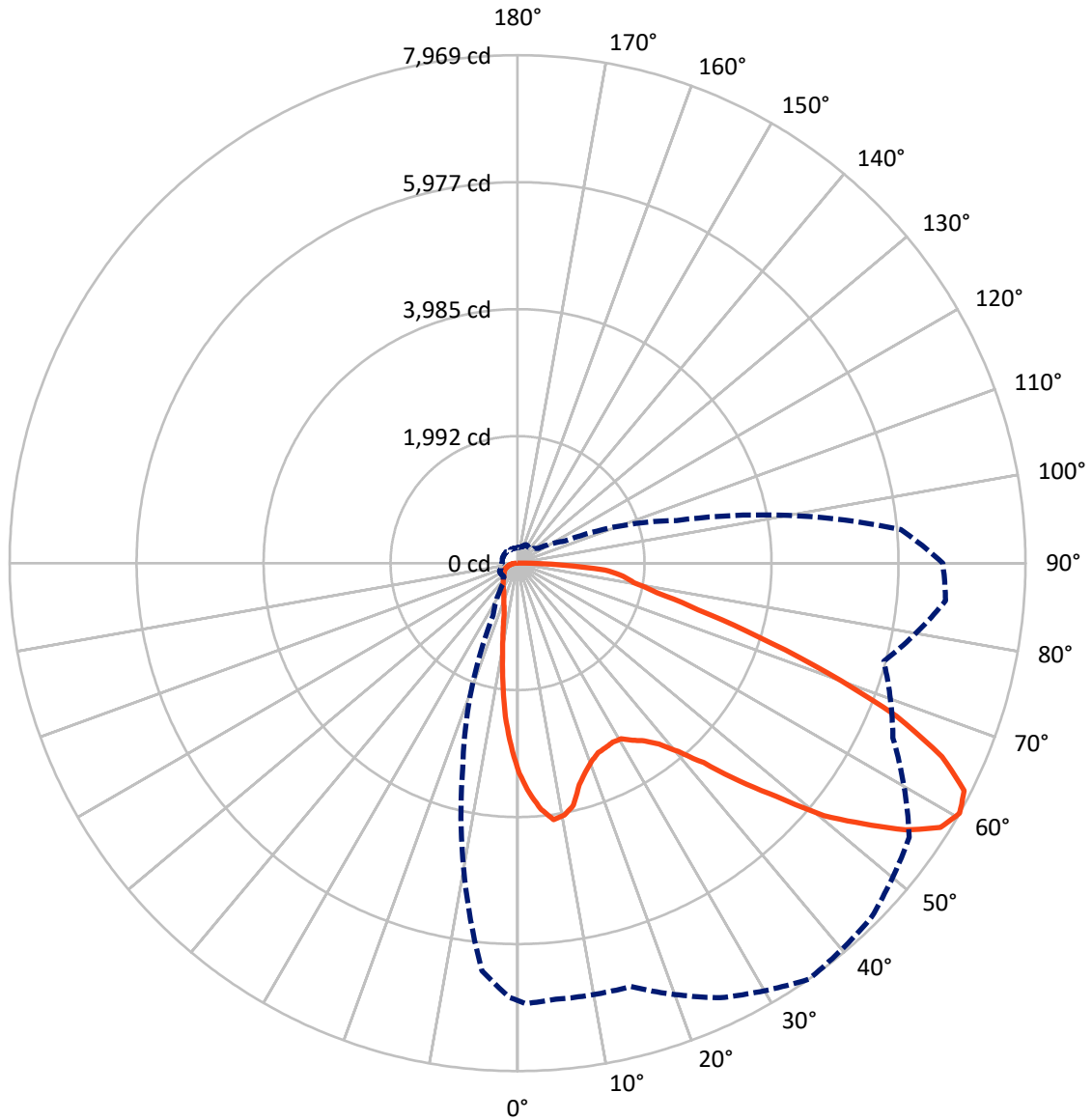
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 16.7 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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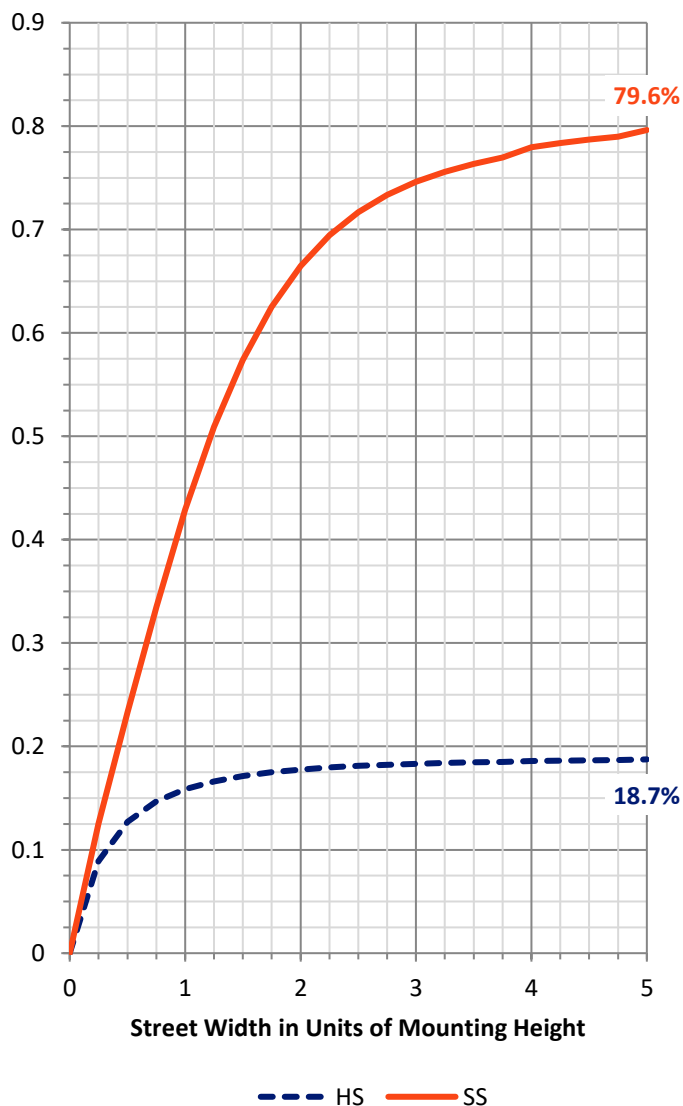
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1966.1	0.0	1966.1
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	8364.6	0.0	8364.6
	% Fixture	81.0	0.0	81.0
Total	Lumens	10330.7	0.0	10330.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.3	2.5
10°-20°	541.2	5.2
20°-30°	791.8	7.7
30°-40°	1115.7	10.8
40°-50°	1533.2	14.8
50°-60°	2089.6	20.2
60°-70°	2287.0	22.1
70°-80°	1320.4	12.8
80°-90°	395.4	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°	10330.7	100.0
0°-180°	10330.7	100.0



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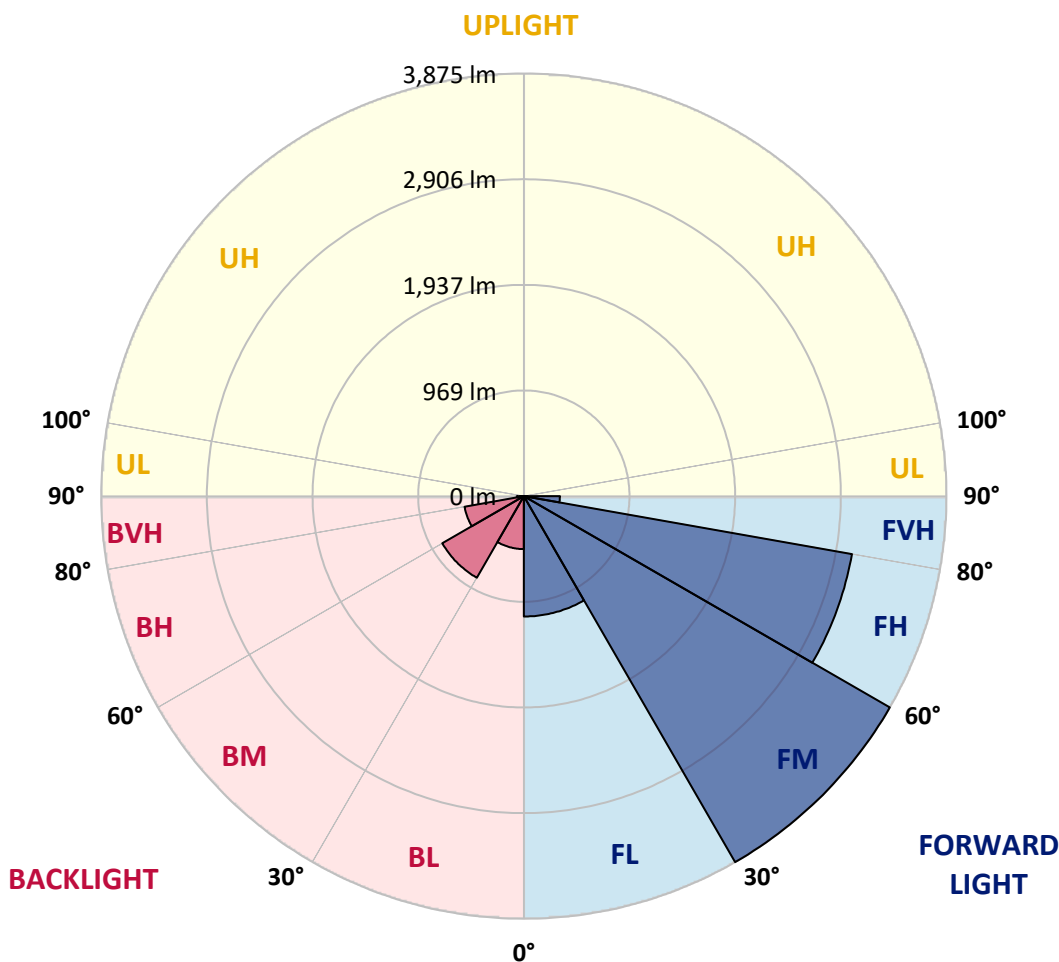
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1103.6	10.7			
FM (30°-60°)	3874.9	37.5			
FH (60°-80°)	3055.2	29.6			G2/5000
FVH (80°-90°)	331.0	3.2			G3/500
BL (0°-30°)	485.7	4.7	B1/500		
BM (30°-60°)	863.7	8.4	B1/1000		
BH (60°-80°)	552.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	64.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6
2.5°	3533.3	3519.5	3533.3	3583.7	3597.4	3620.3	3620.3	3588.3	3528.7	3501.2	3455.4
5°	3611.2	3588.3	3702.8	3808.2	3890.7	3881.6	3803.7	3739.5	3620.3	3441.6	3272.1
7.5°	3455.4	3478.3	3560.8	3835.7	4028.2	4064.9	3941.1	3812.8	3556.2	3308.7	3079.6
10°	3162.1	3194.2	3372.9	3657.0	3959.5	4019.0	3941.1	3785.3	3478.3	3171.2	2905.4
12.5°	3020.0	3093.3	3198.7	3542.4	3757.8	3899.9	3863.2	3762.4	3418.7	3056.7	2800.0
15°	3020.0	3038.3	3194.2	3482.9	3606.6	3611.2	3624.9	3643.3	3437.0	3107.1	2763.4
17.5°	3116.2	3166.7	3299.6	3478.3	3501.2	3446.2	3446.2	3524.1	3473.7	3249.1	2896.3
20°	3350.0	3331.6	3505.8	3579.1	3455.4	3317.9	3304.1	3437.0	3514.9	3400.4	3139.2
22.5°	3583.7	3666.2	3808.2	3643.3	3414.1	3230.8	3212.5	3377.5	3638.7	3661.6	3418.7
25°	3936.6	4019.0	4092.4	3890.7	3409.5	3207.9	3221.6	3350.0	3789.9	4032.8	3886.1
27.5°	4316.9	4367.3	4472.7	4161.1	3519.5	3180.4	3194.2	3386.6	3932.0	4275.7	4252.8
30°	4532.3	4587.3	4564.4	4211.5	3592.8	3198.7	3162.1	3437.0	3854.1	4275.7	4491.1
32.5°	4743.1	4711.0	4697.3	4294.0	3684.5	3313.3	3221.6	3542.4	3899.9	4344.4	4798.1
35°	4999.7	4953.9	4917.3	4454.4	3835.7	3423.3	3382.0	3679.9	4000.7	4486.5	5045.6
37.5°	5283.9	5283.9	5105.1	4573.6	4014.5	3602.0	3556.2	3877.0	4161.1	4573.6	5384.7
40°	5618.4	5632.2	5316.0	4733.9	4216.1	3886.1	3872.4	4133.6	4316.9	4701.9	5710.1
42.5°	5865.9	5875.0	5499.3	4793.5	4449.8	4280.3	4339.8	4546.1	4495.6	4816.4	5733.0
45°	6035.4	5989.6	5627.6	4963.1	4706.4	4871.4	4889.8	4949.3	4729.4	4885.2	5824.6
47.5°	6117.9	6108.8	5682.6	5160.1	5247.2	5471.8	5577.2	5494.7	4944.8	4811.9	5824.6
50°	6200.4	6122.5	5733.0	5430.5	5774.2	6227.9	6205.0	6053.8	5242.6	4903.5	5737.6
52.5°	6255.4	6186.7	5833.8	5673.4	6278.3	6791.6	6883.2	6603.7	5590.9	5073.1	5778.8
55°	6452.5	6397.5	6136.3	6003.4	6860.3	7387.3	7401.1	7011.6	5957.5	5352.6	6049.2
57.5°	6690.8	6722.8	6553.3	6470.8	7304.8	7822.7	7772.3	7314.0	6269.2	5691.7	6360.8
60°	6860.3	6910.7	6869.5	6878.7	7524.8	7969.3	7854.8	7501.9	6498.3	5948.4	6741.2
62.5°	6768.7	6869.5	7039.1	7002.4	7534.0	7863.9	7703.5	7254.4	6525.8	6282.9	7029.9
65°	6516.6	6525.8	6855.7	7057.4	7121.5	7318.6	7107.8	6736.6	6241.7	6489.1	6988.6
67.5°	5870.5	5943.8	6241.7	6635.8	6365.4	6411.2	6392.9	5856.7	5810.9	6347.1	6672.4
70°	5183.1	5233.5	5558.8	6021.7	5375.5	5160.1	5201.4	4802.7	4990.6	5907.1	6035.4
72.5°	4284.8	4316.9	4688.1	5096.0	4312.3	3927.4	4023.6	3698.3	3964.0	5169.3	5091.4
75°	3235.4	3295.0	3583.7	4064.9	3175.8	2928.4	3024.6	2891.7	3139.2	4257.3	3950.3
77.5°	2300.5	2254.7	2612.1	3180.4	2387.6	2240.9	2250.1	2273.0	2538.8	3588.3	2836.7
80°	1567.3	1581.0	1901.8	2332.6	1874.3	1851.4	1828.5	2011.8	2131.0	2841.3	2062.2
82.5°	930.3	930.3	1283.2	1658.9	1480.2	1668.1	1562.7	1727.7	1668.1	2089.7	1351.9
85°	435.4	435.4	659.9	1196.1	1145.7	1374.8	1168.6	1306.1	1232.8	1457.3	609.5
87.5°	73.3	64.2	132.9	586.6	472.0	536.2	210.8	696.6	774.5	1017.4	151.2
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°	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6
2.5°	3405.0	3372.9	3308.7	3226.2	3157.5	3070.4	3042.9	2983.3	2900.9	2891.7	2855.0
5°	3207.9	3097.9	2960.4	2790.9	2676.3	2557.2	2456.3	2396.8	2328.0	2318.9	2300.5
7.5°	2992.5	2855.0	2625.9	2424.3	2227.2	2039.3	1947.7	1833.1	1755.2	1695.6	1668.1
10°	2790.9	2662.6	2378.4	2103.5	1929.3	1805.6	1695.6	1576.5	1480.2	1406.9	1379.4
12.5°	2658.0	2506.7	2199.7	1938.5	1810.2	1668.1	1544.4	1416.1	1292.3	1196.1	1145.7
15°	2598.4	2456.3	2144.7	1856.0	1668.1	1471.1	1329.0	1200.7	1049.4	980.7	957.8
17.5°	2740.5	2529.7	2126.4	1759.8	1494.0	1269.4	1095.3	957.8	847.8	779.1	751.6
20°	2923.8	2662.6	2158.5	1645.2	1329.0	1076.9	884.5	737.8	664.5	614.1	609.5
22.5°	3157.5	2859.6	2208.9	1562.7	1145.7	866.1	692.0	604.9	554.5	549.9	540.8
25°	3574.5	3217.1	2291.4	1452.7	999.0	714.9	591.2	540.8	517.8	504.1	513.3
27.5°	3932.0	3450.8	2350.9	1384.0	939.5	673.7	572.8	517.8	494.9	490.4	494.9
30°	4142.8	3666.2	2332.6	1255.7	820.3	641.6	609.5	591.2	545.3	508.7	508.7
32.5°	4335.2	3803.7	2328.0	1141.1	701.2	536.2	508.7	494.9	522.4	540.8	527.0
35°	4601.0	4019.0	2314.3	1076.9	650.7	494.9	449.1	412.4	394.1	384.9	398.7
37.5°	4885.2	4165.7	2277.6	1067.8	623.2	472.0	435.4	398.7	380.4	371.2	366.6
40°	5196.8	4321.5	2236.4	1021.9	609.5	458.3	421.6	389.5	366.6	352.9	348.3
42.5°	5398.4	4445.2	2195.1	999.0	582.0	449.1	407.9	380.4	357.5	339.1	339.1
45°	5513.0	4591.9	2153.9	976.1	549.9	453.7	407.9	371.2	343.7	334.5	325.4
47.5°	5563.4	4701.9	2140.1	939.5	522.4	435.4	398.7	362.0	334.5	316.2	311.6
50°	5696.3	4935.6	2190.5	912.0	490.4	417.0	421.6	357.5	330.0	307.0	302.5
52.5°	5774.2	5123.5	2300.5	870.7	467.4	394.1	412.4	348.3	316.2	293.3	293.3
55°	6058.4	5435.1	2419.7	838.6	439.9	362.0	380.4	330.0	293.3	279.5	279.5
57.5°	6420.4	5765.1	2520.5	824.9	421.6	339.1	339.1	320.8	279.5	261.2	256.6
60°	6672.4	6035.4	2580.1	815.7	403.3	316.2	302.5	320.8	265.8	247.5	242.9
62.5°	6699.9	5879.6	2520.5	811.1	398.7	293.3	275.0	307.0	252.0	233.7	224.6
65°	6525.8	5563.4	2355.5	792.8	394.1	270.4	256.6	265.8	233.7	220.0	210.8
67.5°	6177.5	5050.2	2117.2	783.6	389.5	252.0	233.7	229.1	215.4	201.6	192.5
70°	5366.4	4381.1	1837.7	742.4	380.4	238.3	210.8	206.2	192.5	183.3	178.7
72.5°	4504.8	3583.7	1516.9	687.4	362.0	215.4	192.5	183.3	178.7	165.0	160.4
75°	3450.8	2758.8	1214.4	609.5	316.2	192.5	169.6	160.4	155.8	146.6	142.1
77.5°	2424.3	2053.1	898.2	494.9	265.8	174.1	151.2	142.1	137.5	123.7	123.7
80°	1645.2	1439.0	609.5	343.7	206.2	142.1	132.9	123.7	114.6	105.4	105.4
82.5°	1021.9	1008.2	439.9	224.6	151.2	114.6	105.4	105.4	91.7	82.5	82.5
85°	467.4	618.7	307.0	155.8	114.6	87.1	87.1	82.5	73.3	59.6	59.6
87.5°	146.6	206.2	160.4	68.7	64.2	50.4	50.4	45.8	45.8	36.7	36.7
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°	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6
2.5°	2891.7	2887.1	2887.1	2868.8	2914.6	2914.6	2942.1	2919.2	2932.9	2937.5	2974.2
5°	2295.9	2332.6	2360.1	2415.1	2447.2	2460.9	2460.9	2497.6	2483.8	2511.3	2566.3
7.5°	1681.9	1727.7	1810.2	1878.9	1933.9	1952.2	1947.7	1956.8	1970.6	1938.5	1947.7
10°	1361.1	1329.0	1356.5	1420.6	1471.1	1530.6	1484.8	1480.2	1494.0	1480.2	1507.7
12.5°	1136.5	1099.9	1076.9	1076.9	1113.6	1141.1	1127.3	1150.3	1200.7	1214.4	1246.5
15°	921.1	889.0	870.7	847.8	884.5	893.6	907.4	939.5	976.1	994.4	1031.1
17.5°	737.8	737.8	737.8	719.5	733.2	747.0	751.6	792.8	797.4	815.7	829.5
20°	604.9	618.7	641.6	650.7	664.5	664.5	655.3	678.2	659.9	673.7	682.8
22.5°	545.3	563.7	572.8	577.4	595.8	600.3	577.4	582.0	586.6	572.8	577.4
25°	513.3	522.4	513.3	517.8	522.4	513.3	517.8	527.0	522.4	531.6	527.0
27.5°	499.5	490.4	485.8	481.2	481.2	472.0	476.6	476.6	485.8	490.4	490.4
30°	499.5	485.8	467.4	453.7	453.7	439.9	449.1	458.3	462.9	472.0	472.0
32.5°	513.3	485.8	453.7	439.9	426.2	417.0	426.2	439.9	458.3	462.9	467.4
35°	407.9	421.6	417.0	398.7	394.1	394.1	389.5	389.5	375.8	375.8	371.2
37.5°	366.6	362.0	371.2	375.8	380.4	366.6	366.6	348.3	343.7	348.3	348.3
40°	343.7	343.7	343.7	357.5	362.0	352.9	339.1	330.0	330.0	330.0	334.5
42.5°	334.5	325.4	320.8	330.0	343.7	334.5	320.8	316.2	316.2	320.8	320.8
45°	320.8	316.2	311.6	307.0	325.4	311.6	307.0	302.5	302.5	302.5	307.0
47.5°	307.0	302.5	293.3	293.3	297.9	293.3	288.7	288.7	288.7	297.9	297.9
50°	297.9	293.3	284.1	284.1	284.1	284.1	279.5	279.5	279.5	284.1	288.7
52.5°	284.1	279.5	275.0	270.4	270.4	270.4	270.4	270.4	270.4	275.0	279.5
55°	270.4	265.8	261.2	261.2	265.8	265.8	261.2	265.8	261.2	265.8	270.4
57.5°	256.6	252.0	247.5	252.0	256.6	252.0	252.0	252.0	252.0	252.0	256.6
60°	238.3	238.3	238.3	238.3	247.5	247.5	247.5	247.5	238.3	242.9	247.5
62.5°	229.1	224.6	224.6	229.1	233.7	233.7	238.3	233.7	229.1	233.7	233.7
65°	210.8	210.8	210.8	215.4	215.4	220.0	220.0	220.0	215.4	220.0	220.0
67.5°	197.1	197.1	197.1	197.1	206.2	206.2	206.2	206.2	201.6	201.6	206.2
70°	174.1	178.7	174.1	183.3	192.5	187.9	192.5	192.5	187.9	183.3	192.5
72.5°	160.4	160.4	160.4	160.4	174.1	174.1	174.1	178.7	174.1	169.6	174.1
75°	142.1	142.1	142.1	146.6	155.8	155.8	155.8	155.8	155.8	151.2	151.2
77.5°	123.7	128.3	123.7	128.3	137.5	132.9	137.5	142.1	137.5	132.9	132.9
80°	105.4	105.4	105.4	110.0	114.6	114.6	114.6	119.2	114.6	110.0	110.0
82.5°	82.5	82.5	87.1	87.1	91.7	91.7	91.7	96.2	91.7	87.1	87.1
85°	64.2	64.2	64.2	68.7	68.7	73.3	73.3	77.9	77.9	73.3	73.3
87.5°	41.2	36.7	41.2	41.2	45.8	45.8	41.2	36.7	41.2	36.7	32.1
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6
2.5°	3010.8	3093.3	3152.9	3194.2	3253.7	3368.3	3414.1	3496.6	3519.5	3533.3
5°	2589.2	2676.3	2804.6	2896.3	3001.7	3217.1	3382.0	3505.8	3560.8	3611.2
7.5°	2030.1	2144.7	2277.6	2396.8	2570.9	2836.7	3052.1	3308.7	3405.0	3455.4
10°	1585.6	1691.0	1837.7	1984.3	2227.2	2451.8	2758.8	2992.5	3125.4	3162.1
12.5°	1338.2	1461.9	1636.0	1814.8	1966.0	2222.6	2534.2	2873.4	2997.1	3020.0
15°	1136.5	1306.1	1484.8	1668.1	1842.3	2066.8	2401.3	2813.8	2997.1	3020.0
17.5°	939.5	1090.7	1301.5	1498.5	1700.2	2007.2	2424.3	2864.2	3047.5	3116.2
20°	747.0	893.6	1058.6	1306.1	1581.0	1906.4	2474.7	3033.8	3276.6	3350.0
22.5°	618.7	682.8	843.2	1081.5	1406.9	1837.7	2525.1	3299.6	3556.2	3583.7
25°	540.8	586.6	687.4	912.0	1269.4	1791.8	2644.2	3606.6	3936.6	3936.6
27.5°	504.1	522.4	591.2	792.8	1173.2	1750.6	2763.4	3945.7	4252.8	4316.9
30°	494.9	540.8	577.4	705.7	1067.8	1636.0	2873.4	4211.5	4527.7	4532.3
32.5°	485.8	476.6	504.1	614.1	939.5	1516.9	2965.0	4481.9	4729.4	4743.1
35°	380.4	398.7	444.5	540.8	843.2	1429.8	3010.8	4628.5	4986.0	4999.7
37.5°	357.5	380.4	417.0	499.5	779.1	1356.5	3024.6	4912.7	5256.4	5283.9
40°	348.3	366.6	394.1	462.9	728.7	1264.8	3052.1	5206.0	5655.1	5618.4
42.5°	330.0	352.9	380.4	444.5	687.4	1196.1	3056.7	5366.4	5865.9	5865.9
45°	325.4	339.1	371.2	444.5	641.6	1136.5	2983.3	5526.8	6108.8	6035.4
47.5°	307.0	334.5	362.0	430.8	586.6	1076.9	2896.3	5609.2	6140.8	6117.9
50°	302.5	330.0	375.8	407.9	554.5	1049.4	2877.9	5815.5	6205.0	6200.4
52.5°	293.3	320.8	389.5	389.5	513.3	1012.8	2965.0	5907.1	6218.7	6255.4
55°	279.5	320.8	362.0	357.5	476.6	967.0	3061.3	6145.4	6461.6	6452.5
57.5°	270.4	311.6	343.7	325.4	435.4	934.9	3203.3	6374.6	6754.9	6690.8
60°	256.6	311.6	307.0	302.5	403.3	907.4	3322.5	6420.4	6819.1	6860.3
62.5°	247.5	325.4	270.4	279.5	375.8	893.6	3272.1	6076.7	6732.0	6768.7
65°	238.3	279.5	247.5	256.6	366.6	866.1	3075.0	5664.2	6356.2	6516.6
67.5°	220.0	229.1	229.1	238.3	357.5	802.0	2671.7	4921.8	5783.4	5870.5
70°	201.6	206.2	206.2	220.0	348.3	728.7	2204.3	4257.3	5018.1	5183.1
72.5°	183.3	183.3	183.3	201.6	320.8	669.1	1814.8	3272.1	4170.3	4284.8
75°	160.4	160.4	160.4	178.7	288.7	609.5	1429.8	2433.4	3070.4	3235.4
77.5°	142.1	142.1	137.5	160.4	252.0	494.9	1031.1	1718.5	2163.0	2300.5
80°	119.2	114.6	114.6	128.3	197.1	357.5	664.5	1214.4	1507.7	1567.3
82.5°	96.2	91.7	87.1	96.2	142.1	224.6	412.4	847.8	967.0	930.3
85°	91.7	96.2	77.9	73.3	100.8	146.6	261.2	522.4	435.4	435.4
87.5°	36.7	32.1	32.1	27.5	50.4	55.0	114.6	96.2	73.3	73.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)