

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: P676273

Luminaire Tested: **CCW-SA-2E-735-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676273
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-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T2 distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

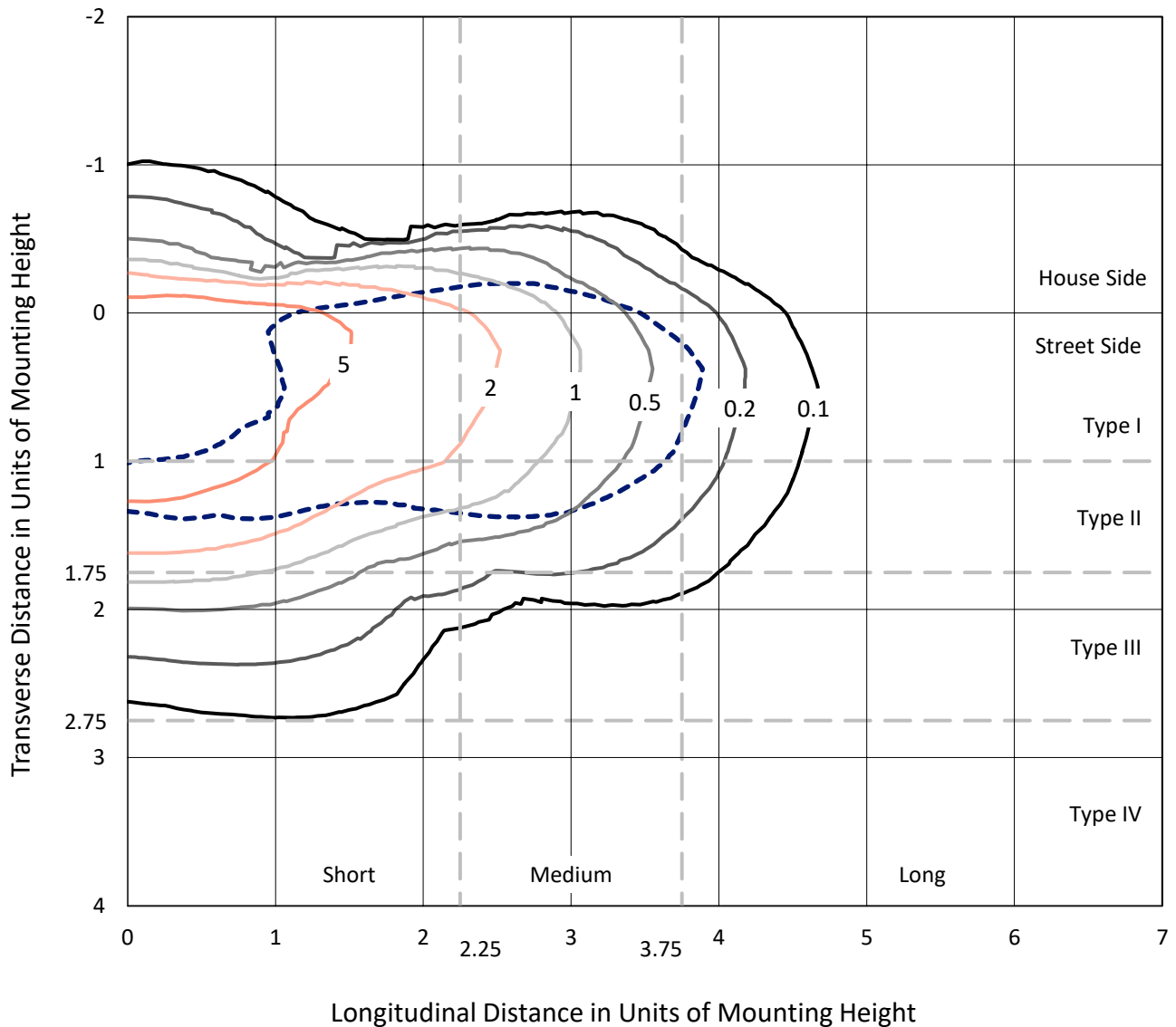
Lumens per Lamp: N/A
Luminaire Lumens: 10411.5 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

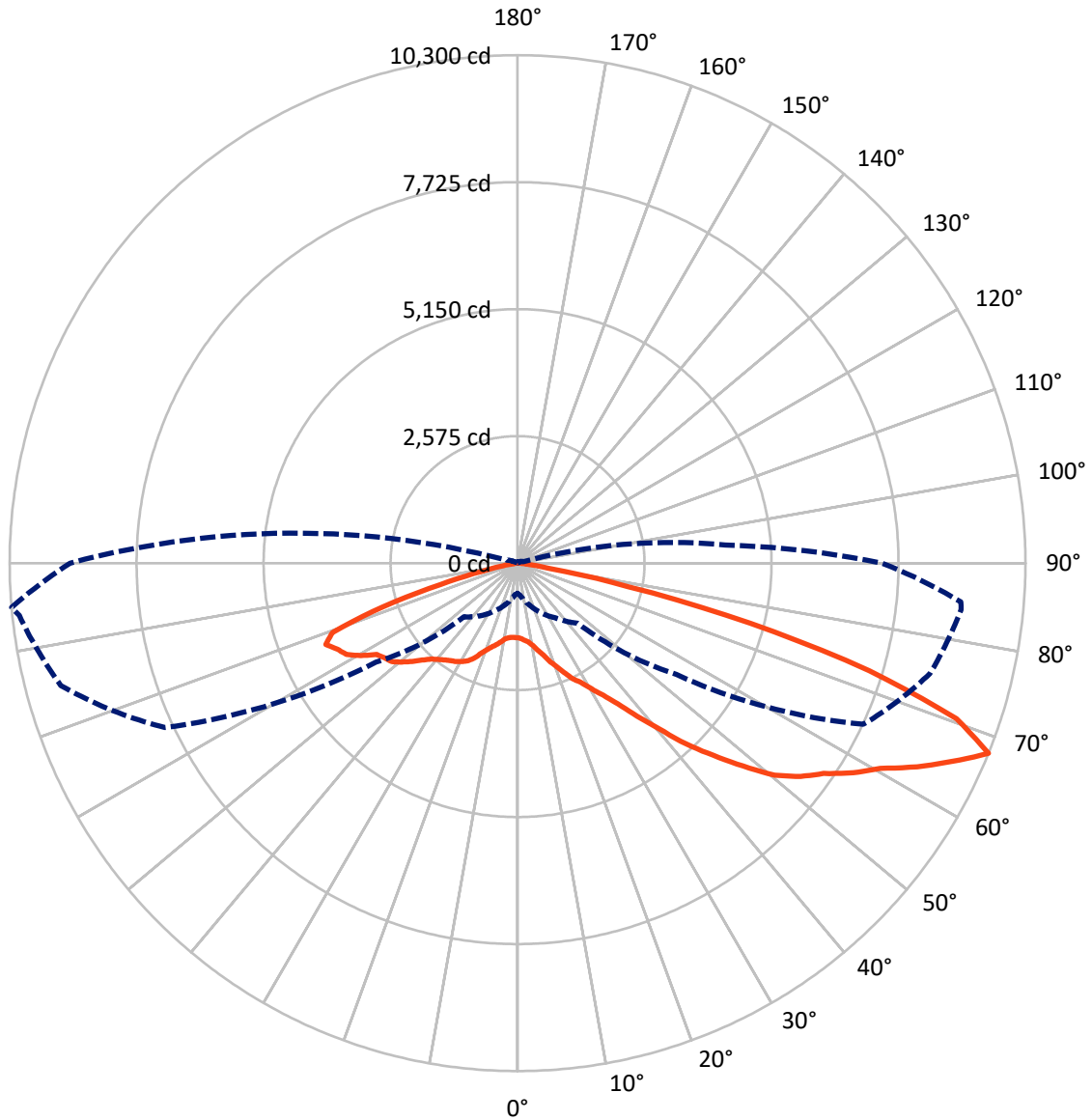
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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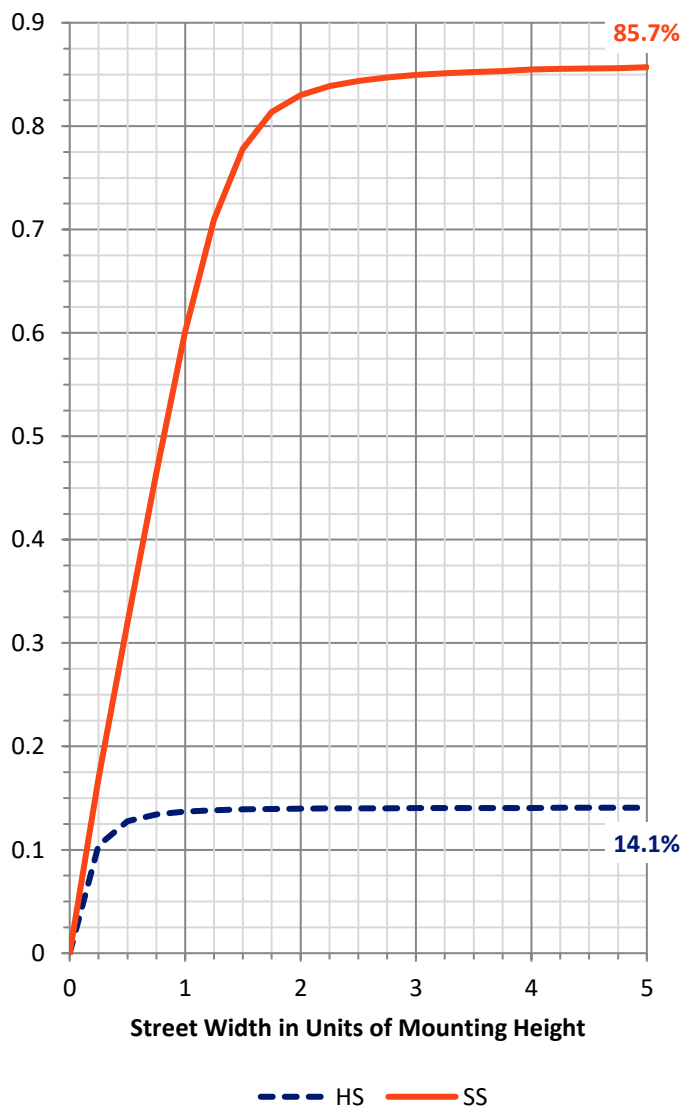
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1479.1	0.0	1479.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	8932.4	0.0	8932.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	10411.5	0.0	10411.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.0	1.3
10°-20°	371.2	3.6
20°-30°	616.5	5.9
30°-40°	1060.7	10.2
40°-50°	1906.0	18.3
50°-60°	2713.4	26.1
60°-70°	2473.8	23.8
70°-80°	1053.4	10.1
80°-90°	78.4	0.8
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°	10411.5	100.0
0°-180°	10411.5	100.0



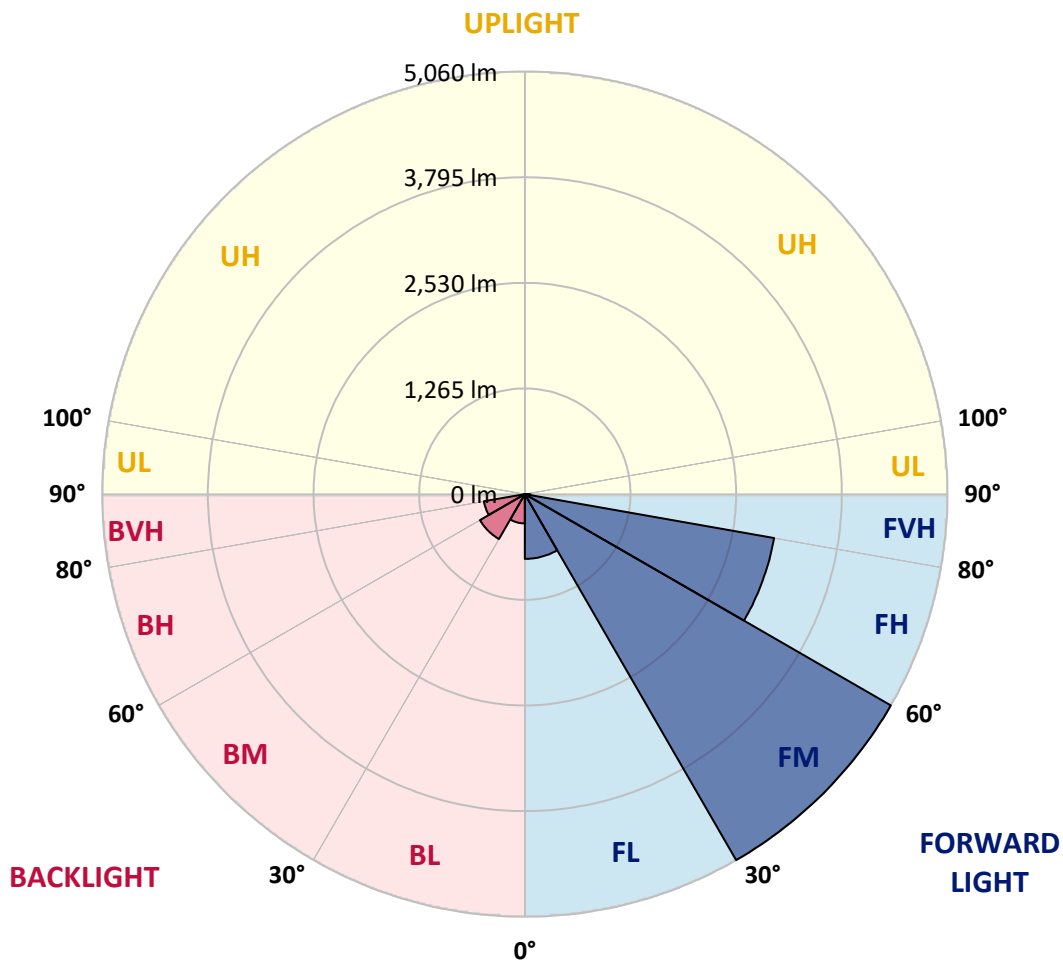
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.6	7.4			
FM (30°-60°)	5060.0	48.6			
FH (60°-80°)	3030.2	29.1			G2/5000
FVH (80°-90°)	66.6	0.6			G1/100
BL (0°-30°)	350.1	3.4	B1/500		
BM (30°-60°)	620.1	6.0	B1/1000		
BH (60°-80°)	497.0	4.8	B1/500		G1/500
BVH (80°-90°)	11.8	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0
2.5°	1568.6	1583.5	1583.5	1578.5	1563.6	1553.7	1548.7	1538.8	1528.9	1528.9	1533.8
5°	1583.5	1568.6	1588.4	1563.6	1563.6	1563.6	1583.5	1573.6	1568.6	1543.8	1543.8
7.5°	1583.5	1568.6	1568.6	1583.5	1568.6	1578.5	1603.3	1593.4	1613.3	1568.6	1578.5
10°	1538.8	1533.8	1543.8	1563.6	1568.6	1588.4	1613.3	1662.9	1667.9	1638.1	1633.1
12.5°	1449.5	1444.5	1479.2	1489.2	1548.7	1598.4	1672.8	1712.5	1757.2	1742.3	1712.5
15°	1384.9	1394.9	1419.7	1459.4	1514.0	1603.3	1687.7	1777.1	1856.5	1836.6	1826.7
17.5°	1409.7	1404.8	1409.7	1434.6	1504.1	1593.4	1737.4	1841.6	1955.8	1955.8	1965.7
20°	1484.2	1499.1	1494.1	1479.2	1514.0	1588.4	1737.4	1921.0	2109.7	2094.8	2094.8
22.5°	1613.3	1618.2	1588.4	1578.5	1573.6	1618.2	1767.1	2020.3	2238.7	2268.5	2258.6
25°	1747.3	1752.3	1742.3	1712.5	1672.8	1682.8	1821.7	2099.7	2417.4	2467.1	2457.1
27.5°	1970.7	1965.7	1940.9	1906.1	1846.6	1801.9	1906.1	2159.3	2556.4	2640.8	2616.0
30°	2194.0	2179.1	2144.4	2099.7	2045.1	1960.7	2010.4	2273.5	2730.1	2809.6	2755.0
32.5°	2467.1	2437.3	2447.2	2377.7	2263.5	2129.5	2119.6	2377.7	2869.1	2983.3	2938.6
35°	2814.5	2779.8	2730.1	2665.6	2556.4	2377.7	2323.1	2546.5	3102.4	3186.8	3186.8
37.5°	3271.2	3305.9	3246.4	2978.3	2859.2	2690.4	2576.3	2720.2	3305.9	3509.5	3459.8
40°	3737.8	3767.6	3658.4	3459.8	3201.7	2993.2	2923.7	3003.2	3613.7	3856.9	3762.6
42.5°	4115.1	4154.8	4115.1	3856.9	3653.4	3385.4	3261.3	3335.7	4010.8	4303.7	4179.6
45°	4512.2	4551.9	4507.2	4338.4	4139.9	3986.0	3673.3	3767.6	4427.8	4864.6	4725.6
47.5°	4810.0	4859.6	4780.2	4745.5	4586.6	4561.8	4030.7	4134.9	4864.6	5430.5	5256.8
50°	4879.5	4934.1	5003.6	5043.3	4988.7	5048.3	4512.2	4601.5	5321.3	5951.7	5782.9
52.5°	4715.7	4770.3	4924.2	5107.8	5361.0	5539.7	4998.6	5073.1	5797.8	6383.6	6294.2
55°	4234.2	4283.8	4596.6	4844.8	5450.3	5743.2	5465.2	5778.0	6140.3	6835.3	6616.9
57.5°	3425.1	3484.6	3896.7	4278.9	5152.5	5629.0	5743.2	6363.7	6706.2	7167.9	6914.7
60°	2432.3	2467.1	2824.5	3499.5	4328.5	5058.2	5688.6	6800.5	7153.0	7614.6	7480.6
62.5°	1399.8	1429.6	1801.9	2437.3	3266.2	4224.3	5445.4	7212.5	7634.5	8106.0	8031.6
65°	928.2	938.2	1191.3	1538.8	2124.5	3112.4	4829.9	7579.9	8111.0	8498.2	8413.8
67.5°	610.6	665.2	863.7	1102.0	1360.1	1722.5	3936.4	7733.7	8657.0	9044.2	9024.3
70°	436.8	456.7	620.5	848.8	1022.6	968.0	2303.2	6646.6	8632.2	9193.1	9029.3
72.5°	258.1	278.0	412.0	635.4	804.1	615.5	1077.2	4700.8	7153.0	7336.6	7291.9
75°	188.6	188.6	253.2	456.7	585.7	441.8	506.3	2973.4	4750.4	5157.5	5152.5
77.5°	134.0	139.0	173.7	273.0	451.7	322.7	278.0	1653.0	2596.1	2839.3	2705.3
80°	79.4	84.4	119.1	163.8	327.6	233.3	183.7	754.5	997.7	1007.7	958.0
82.5°	59.6	59.6	79.4	114.2	228.3	158.8	114.2	287.9	322.7	292.9	248.2
85°	34.7	29.8	59.6	84.4	134.0	89.3	79.4	134.0	148.9	109.2	99.3
87.5°	9.9	9.9	24.8	29.8	59.6	49.6	34.7	49.6	69.5	39.7	29.8
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°	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0
2.5°	1523.9	1509.0	1484.2	1474.3	1439.5	1424.6	1414.7	1389.9	1394.9	1380.0	1380.0
5°	1509.0	1509.0	1459.4	1404.8	1350.2	1315.4	1275.7	1226.1	1226.1	1206.2	1211.2
7.5°	1563.6	1523.9	1459.4	1360.1	1270.8	1191.3	1156.6	1106.9	1077.2	1062.3	1062.3
10°	1598.4	1558.7	1449.5	1330.3	1216.2	1116.9	1042.4	972.9	933.2	933.2	928.2
12.5°	1692.7	1633.1	1489.2	1325.4	1156.6	1007.7	893.5	814.1	759.5	719.8	729.7
15°	1772.1	1707.6	1509.0	1285.6	1052.3	843.9	704.9	556.0	481.5	441.8	426.9
17.5°	1896.2	1777.1	1553.7	1216.2	893.5	660.2	456.7	332.6	302.8	297.8	297.8
20°	2000.4	1861.5	1558.7	1082.1	734.7	421.9	292.9	273.0	258.1	253.2	248.2
22.5°	2144.4	1970.7	1538.8	928.2	526.2	282.9	248.2	228.3	218.4	203.5	203.5
25°	2293.3	2114.6	1499.1	784.3	322.7	243.2	218.4	198.6	178.7	168.8	173.7
27.5°	2452.2	2223.8	1384.9	610.6	248.2	213.4	178.7	163.8	153.9	148.9	148.9
30°	2581.2	2293.3	1216.2	407.0	223.4	188.6	158.8	144.0	134.0	129.1	129.1
32.5°	2675.5	2352.9	1027.5	273.0	203.5	168.8	144.0	129.1	119.1	114.2	114.2
35°	2834.4	2397.6	853.8	233.3	183.7	148.9	124.1	114.2	104.2	104.2	104.2
37.5°	3077.6	2457.1	680.1	213.4	168.8	134.0	119.1	104.2	99.3	94.3	94.3
40°	3291.1	2531.6	486.5	193.6	153.9	124.1	104.2	94.3	89.3	84.4	84.4
42.5°	3598.8	2616.0	317.7	173.7	139.0	114.2	94.3	84.4	79.4	74.5	74.5
45°	3991.0	2755.0	248.2	153.9	124.1	104.2	89.3	79.4	69.5	69.5	64.5
47.5°	4407.9	2923.7	223.4	144.0	114.2	94.3	79.4	69.5	64.5	59.6	59.6
50°	4795.1	3087.5	208.5	134.0	104.2	89.3	74.5	64.5	54.6	49.6	49.6
52.5°	5142.6	3241.4	198.6	124.1	99.3	79.4	64.5	54.6	49.6	44.7	44.7
55°	5326.3	3310.9	193.6	119.1	89.3	74.5	59.6	49.6	44.7	39.7	39.7
57.5°	5614.2	3400.3	188.6	114.2	84.4	64.5	54.6	44.7	39.7	34.7	34.7
60°	6080.8	3693.1	183.7	109.2	79.4	64.5	49.6	39.7	29.8	24.8	24.8
62.5°	6467.9	3936.4	163.8	94.3	69.5	54.6	39.7	29.8	19.9	14.9	14.9
65°	6909.7	4050.5	144.0	84.4	59.6	44.7	29.8	19.9	14.9	5.0	5.0
67.5°	7391.2	4224.3	119.1	74.5	54.6	34.7	24.8	14.9	5.0	0.0	0.0
70°	7138.1	4005.9	99.3	64.5	49.6	29.8	19.9	9.9	0.0	0.0	0.0
72.5°	5594.3	2869.1	79.4	59.6	44.7	29.8	19.9	5.0	0.0	0.0	0.0
75°	3737.8	1623.2	69.5	49.6	34.7	24.8	14.9	5.0	0.0	0.0	0.0
77.5°	2030.2	729.7	59.6	44.7	29.8	19.9	14.9	5.0	0.0	0.0	0.0
80°	660.2	287.9	49.6	39.7	29.8	19.9	14.9	5.0	0.0	0.0	0.0
82.5°	178.7	89.3	49.6	39.7	29.8	19.9	14.9	5.0	0.0	0.0	0.0
85°	74.5	59.6	49.6	39.7	29.8	19.9	14.9	5.0	0.0	0.0	0.0
87.5°	29.8	19.9	19.9	24.8	19.9	14.9	9.9	5.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0
2.5°	1384.9	1394.9	1399.8	1399.8	1424.6	1449.5	1479.2	1504.1	1504.1	1518.9	1533.8
5°	1216.2	1226.1	1241.0	1285.6	1335.3	1389.9	1444.5	1484.2	1538.8	1563.6	1578.5
7.5°	1077.2	1087.1	1126.8	1171.5	1241.0	1335.3	1429.6	1518.9	1573.6	1598.4	1618.2
10°	933.2	948.1	992.8	1072.2	1161.5	1275.7	1384.9	1538.8	1628.2	1677.8	1697.6
12.5°	724.7	764.4	824.0	908.4	1022.6	1196.3	1399.8	1558.7	1712.5	1772.1	1811.8
15°	456.7	491.4	585.7	719.8	873.6	1077.2	1360.1	1588.4	1801.9	1861.5	1926.0
17.5°	292.9	297.8	327.6	471.6	670.1	928.2	1300.5	1633.1	1901.2	1985.6	2084.8
20°	248.2	258.1	263.1	282.9	446.7	764.4	1176.4	1687.7	2020.3	2134.5	2228.8
22.5°	208.5	213.4	223.4	238.3	268.0	556.0	1007.7	1687.7	2124.5	2293.3	2402.5
25°	168.8	178.7	188.6	203.5	233.3	347.5	833.9	1657.9	2248.6	2457.1	2596.1
27.5°	148.9	148.9	158.8	173.7	198.6	243.2	660.2	1568.6	2343.0	2556.4	2740.1
30°	129.1	134.0	139.0	153.9	178.7	213.4	456.7	1424.6	2442.2	2750.0	2958.5
32.5°	114.2	114.2	124.1	134.0	158.8	193.6	292.9	1206.2	2571.3	2898.9	3191.8
35°	104.2	104.2	109.2	119.1	144.0	173.7	228.3	1022.6	2725.2	3181.9	3504.5
37.5°	94.3	94.3	99.3	109.2	129.1	153.9	208.5	878.6	2884.0	3464.8	3936.4
40°	84.4	84.4	89.3	99.3	114.2	139.0	188.6	709.8	3082.6	3881.8	4407.9
42.5°	74.5	74.5	79.4	89.3	104.2	124.1	163.8	531.1	3345.7	4333.5	5018.5
45°	64.5	64.5	69.5	79.4	89.3	114.2	148.9	407.0	3633.6	4834.8	5554.6
47.5°	54.6	59.6	64.5	74.5	84.4	104.2	134.0	357.4	3916.5	5366.0	6150.3
50°	49.6	49.6	54.6	64.5	79.4	94.3	124.1	352.4	4204.4	5773.0	6760.8
52.5°	44.7	44.7	49.6	59.6	74.5	89.3	119.1	362.4	4442.7	6150.3	7187.7
55°	39.7	39.7	44.7	49.6	64.5	84.4	109.2	372.3	4611.5	6532.5	7530.2
57.5°	34.7	34.7	39.7	49.6	59.6	74.5	99.3	382.2	4884.5	6909.7	8026.6
60°	24.8	24.8	34.7	44.7	54.6	64.5	94.3	392.1	5321.3	7430.9	8448.5
62.5°	14.9	14.9	19.9	34.7	44.7	59.6	84.4	372.3	5728.3	8101.1	9093.8
65°	5.0	9.9	14.9	19.9	34.7	49.6	69.5	337.5	6070.8	8771.2	9689.5
67.5°	0.0	0.0	5.0	14.9	29.8	39.7	59.6	248.2	6125.4	9074.0	10300.1
70°	0.0	0.0	5.0	14.9	24.8	39.7	54.6	139.0	5217.0	8106.0	9441.3
72.5°	0.0	0.0	0.0	9.9	24.8	34.7	49.6	104.2	3847.0	6110.5	7460.7
75°	0.0	0.0	0.0	5.0	19.9	29.8	44.7	79.4	2338.0	4075.4	4869.6
77.5°	0.0	0.0	0.0	5.0	14.9	29.8	44.7	69.5	824.0	1940.9	2288.4
80°	0.0	0.0	0.0	9.9	19.9	29.8	39.7	59.6	198.6	486.5	655.2
82.5°	0.0	0.0	0.0	5.0	14.9	24.8	34.7	49.6	79.4	144.0	228.3
85°	0.0	0.0	0.0	5.0	9.9	24.8	34.7	44.7	54.6	69.5	99.3
87.5°	0.0	0.0	0.0	0.0	5.0	9.9	14.9	19.9	19.9	19.9	34.7
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):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0
2.5°	1528.9	1548.7	1558.7	1578.5	1588.4	1583.5	1578.5	1593.4	1583.5	1568.6
5°	1583.5	1583.5	1598.4	1603.3	1603.3	1588.4	1598.4	1593.4	1583.5	1583.5
7.5°	1643.0	1667.9	1667.9	1638.1	1633.1	1623.2	1623.2	1583.5	1568.6	1583.5
10°	1702.6	1722.5	1727.4	1692.7	1648.0	1628.2	1603.3	1553.7	1528.9	1538.8
12.5°	1826.7	1826.7	1772.1	1732.4	1672.8	1603.3	1543.8	1474.3	1439.5	1449.5
15°	1916.1	1935.9	1861.5	1772.1	1667.9	1538.8	1474.3	1419.7	1399.8	1384.9
17.5°	2089.8	2050.1	1931.0	1801.9	1653.0	1518.9	1474.3	1424.6	1409.7	1409.7
20°	2238.7	2218.9	2040.2	1806.9	1648.0	1558.7	1528.9	1504.1	1499.1	1484.2
22.5°	2442.2	2352.9	2124.5	1861.5	1702.6	1623.2	1613.3	1638.1	1623.2	1613.3
25°	2596.1	2521.7	2189.1	1940.9	1787.0	1762.2	1777.1	1801.9	1762.2	1747.3
27.5°	2804.6	2665.6	2313.2	2045.1	1901.2	1926.0	1975.6	1980.6	1955.8	1970.7
30°	2998.2	2849.3	2407.5	2164.3	2094.8	2119.6	2194.0	2248.6	2213.9	2194.0
32.5°	3276.2	3047.8	2596.1	2362.8	2338.0	2402.5	2486.9	2521.7	2477.0	2467.1
35°	3569.0	3276.2	2789.7	2586.2	2630.9	2720.2	2794.7	2854.2	2784.7	2814.5
37.5°	4025.7	3643.5	3117.3	2938.6	2958.5	2993.2	3132.2	3296.0	3330.8	3271.2
40°	4502.2	4040.6	3420.1	3281.1	3325.8	3420.1	3583.9	3737.8	3817.2	3737.8
42.5°	5053.2	4422.8	3886.7	3722.9	3767.6	3901.6	4120.0	4244.1	4234.2	4115.1
45°	5733.3	4954.0	4323.5	4120.0	4283.8	4403.0	4621.4	4636.3	4542.0	4512.2
47.5°	6254.5	5400.7	4795.1	4666.1	4889.4	4894.4	4944.0	4949.0	4844.8	4810.0
50°	6830.3	5917.0	5321.3	5132.7	5509.9	5336.2	5202.2	5112.8	4954.0	4879.5
52.5°	7396.2	6284.3	5807.7	5614.2	6006.3	5544.7	5301.4	5028.4	4795.1	4715.7
55°	7699.0	6889.9	6517.6	6065.9	6115.5	5604.2	4993.7	4651.2	4254.1	4234.2
57.5°	8056.4	7296.9	7118.2	6373.6	5931.8	5187.3	4353.3	3901.6	3474.7	3425.1
60°	8478.3	7942.2	7753.6	6324.0	5281.6	4358.3	3449.9	2869.1	2467.1	2432.3
62.5°	8949.9	8706.7	8145.7	5837.5	4194.5	3067.7	2278.4	1792.0	1419.7	1399.8
65°	9694.5	9347.0	8354.2	4914.2	2774.8	1965.7	1514.0	1161.5	938.2	928.2
67.5°	10161.1	9590.2	7887.6	3504.5	1538.8	1300.5	1062.3	843.9	650.3	610.6
70°	9500.9	8801.0	6239.6	2005.4	893.5	987.8	819.0	565.9	446.7	436.8
72.5°	7589.8	6532.5	4199.4	943.1	556.0	774.4	595.7	382.2	268.0	258.1
75°	5177.3	4110.1	2635.8	436.8	392.1	565.9	436.8	223.4	188.6	188.6
77.5°	2313.2	2094.8	1350.2	268.0	292.9	431.9	253.2	153.9	139.0	134.0
80°	704.9	739.6	551.0	183.7	218.4	327.6	153.9	104.2	84.4	79.4
82.5°	238.3	278.0	248.2	109.2	148.9	233.3	104.2	69.5	59.6	59.6
85°	114.2	139.0	124.1	69.5	79.4	114.2	84.4	54.6	34.7	34.7
87.5°	44.7	64.5	44.7	29.8	44.7	59.6	34.7	24.8	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)