

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: P676339

Luminaire Tested: **CCW-SA-2E-835-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676339
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-835-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, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

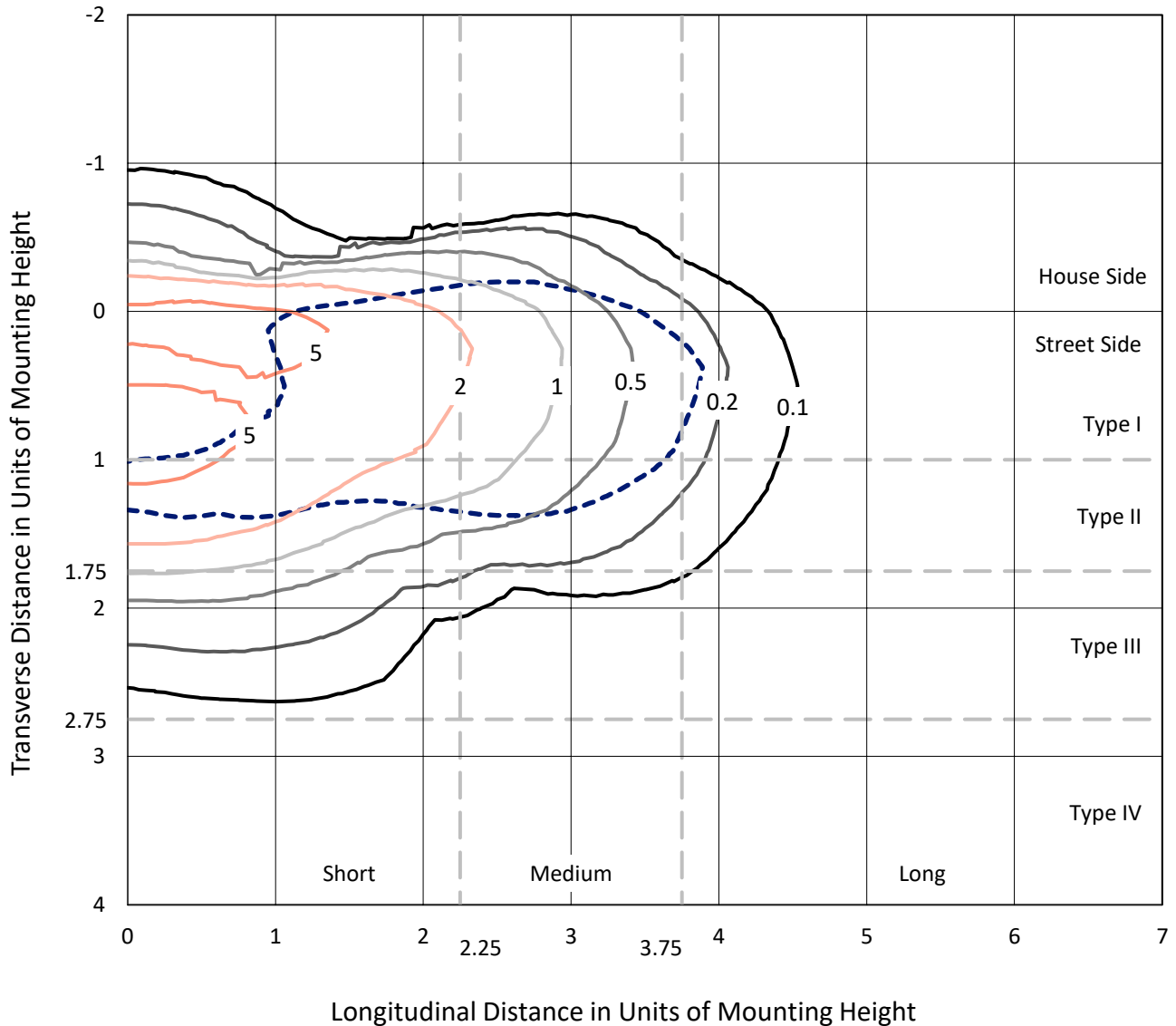
Lumens per Lamp: N/A
Luminaire Lumens: 8698.3 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

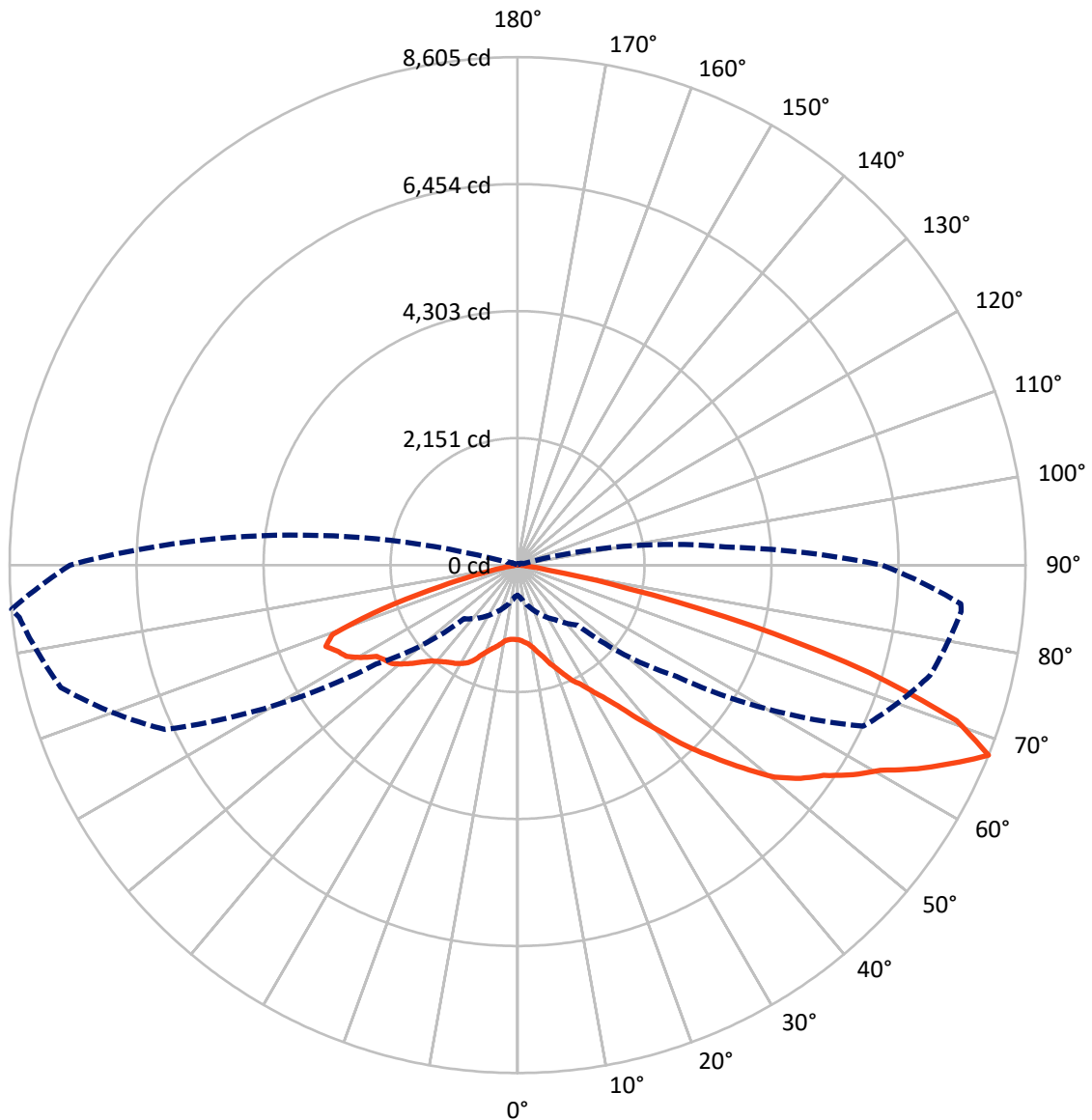
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.7 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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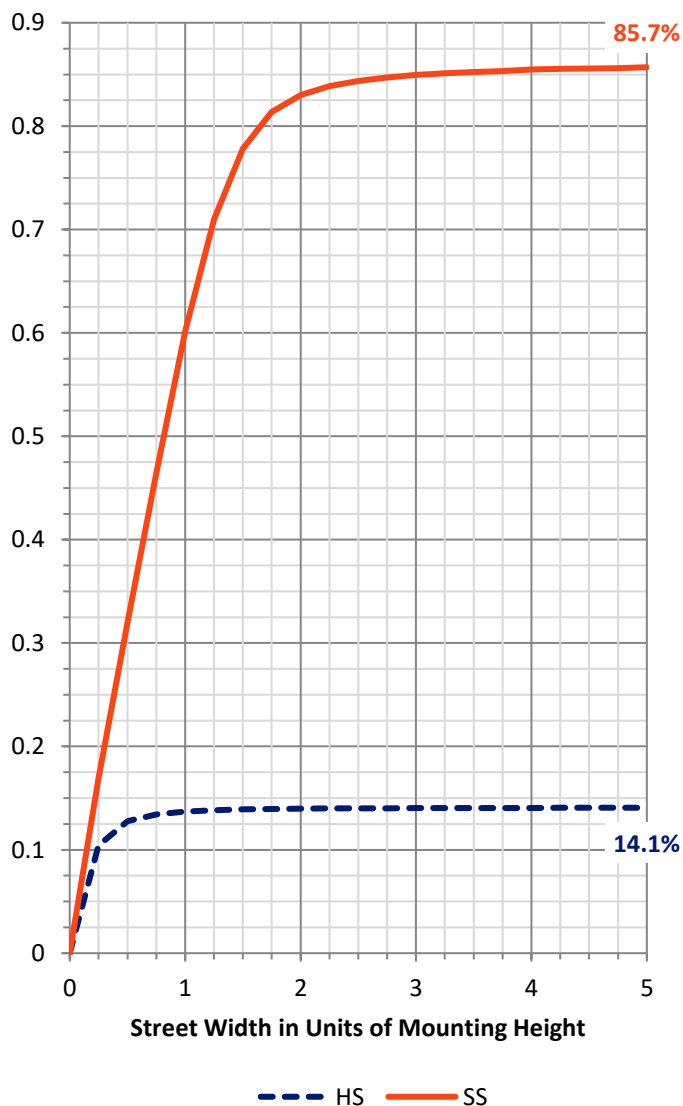
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1235.7	0.0	1235.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	7462.5	0.0	7462.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	8698.3	0.0	8698.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	1.3
10°-20°	310.1	3.6
20°-30°	515.1	5.9
30°-40°	886.1	10.2
40°-50°	1592.4	18.3
50°-60°	2266.9	26.1
60°-70°	2066.7	23.8
70°-80°	880.0	10.1
80°-90°	65.5	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°	8698.3	100.0
0°-180°	8698.3	100.0



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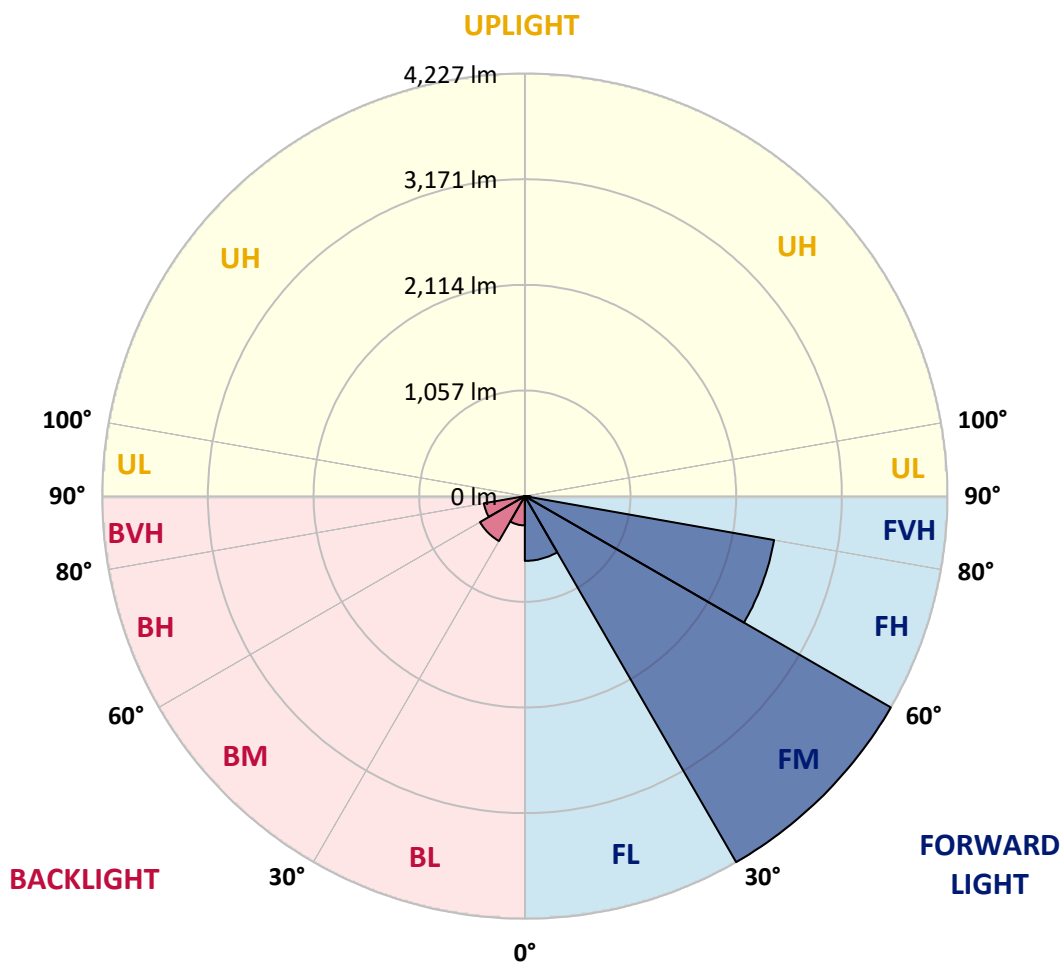
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	648.0	7.4			
FM (30°-60°)	4227.4	48.6			
FH (60°-80°)	2531.5	29.1			G2/5000
FVH (80°-90°)	55.6	0.6			G1/100
BL (0°-30°)	292.5	3.4	B1/500		
BM (30°-60°)	518.1	6.0	B1/1000		
BH (60°-80°)	415.2	4.8	B1/500		G1/500
BVH (80°-90°)	9.9	0.1			G0/10
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°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1310.5	1322.9	1322.9	1318.8	1306.3	1298.0	1293.9	1285.6	1277.3	1277.3	1281.4
5°	1322.9	1310.5	1327.1	1306.3	1306.3	1306.3	1322.9	1314.6	1310.5	1289.7	1289.7
7.5°	1322.9	1310.5	1310.5	1322.9	1310.5	1318.8	1339.5	1331.2	1347.8	1310.5	1318.8
10°	1285.6	1281.4	1289.7	1306.3	1310.5	1327.1	1347.8	1389.3	1393.4	1368.5	1364.4
12.5°	1210.9	1206.8	1235.8	1244.1	1293.9	1335.4	1397.6	1430.7	1468.1	1455.6	1430.7
15°	1157.0	1165.3	1186.1	1219.2	1264.9	1339.5	1410.0	1484.6	1551.0	1534.4	1526.1
17.5°	1177.8	1173.6	1177.8	1198.5	1256.6	1331.2	1451.5	1538.6	1633.9	1633.9	1642.2
20°	1240.0	1252.4	1248.3	1235.8	1264.9	1327.1	1451.5	1604.9	1762.5	1750.1	1750.1
22.5°	1347.8	1351.9	1327.1	1318.8	1314.6	1351.9	1476.4	1687.9	1870.3	1895.2	1886.9
25°	1459.8	1463.9	1455.6	1430.7	1397.6	1405.9	1522.0	1754.2	2019.6	2061.1	2052.8
27.5°	1646.4	1642.2	1621.5	1592.5	1542.7	1505.4	1592.5	1804.0	2135.7	2206.2	2185.5
30°	1833.0	1820.6	1791.5	1754.2	1708.6	1638.1	1679.6	1899.4	2280.9	2347.2	2301.6
32.5°	2061.1	2036.2	2044.5	1986.4	1891.1	1779.1	1770.8	1986.4	2397.0	2492.4	2455.1
35°	2351.4	2322.4	2280.9	2227.0	2135.7	1986.4	1940.8	2127.4	2591.9	2662.4	2662.4
37.5°	2732.9	2761.9	2712.2	2488.2	2388.7	2247.7	2152.3	2272.6	2761.9	2932.0	2890.5
40°	3122.7	3147.6	3056.4	2890.5	2674.9	2500.7	2442.6	2509.0	3019.1	3222.3	3143.5
42.5°	3437.9	3471.1	3437.9	3222.3	3052.2	2828.3	2724.6	2786.8	3350.8	3595.5	3491.8
45°	3769.7	3802.9	3765.5	3624.5	3458.6	3330.1	3068.8	3147.6	3699.2	4064.1	3948.0
47.5°	4018.5	4060.0	3993.6	3964.6	3831.9	3811.1	3367.4	3454.5	4064.1	4536.9	4391.7
50°	4076.6	4122.2	4180.2	4213.4	4167.8	4217.6	3769.7	3844.3	4445.6	4972.3	4831.3
52.5°	3939.7	3985.3	4113.9	4267.3	4478.8	4628.1	4176.1	4238.3	4843.8	5333.1	5258.5
55°	3537.4	3578.9	3840.2	4047.5	4553.5	4798.1	4565.9	4827.2	5129.9	5710.5	5528.0
57.5°	2861.5	2911.2	3255.4	3574.8	4304.6	4702.8	4798.1	5316.5	5602.7	5988.4	5776.9
60°	2032.1	2061.1	2359.7	2923.7	3616.2	4225.9	4752.5	5681.5	5975.9	6361.6	6249.6
62.5°	1169.5	1194.4	1505.4	2036.2	2728.8	3529.1	4549.3	6025.7	6378.2	6772.1	6709.9
65°	775.5	783.8	995.3	1285.6	1774.9	2600.2	4035.1	6332.6	6776.3	7099.8	7029.3
67.5°	510.1	555.7	721.6	920.6	1136.3	1439.0	3288.6	6461.1	7232.5	7555.9	7539.4
70°	364.9	381.5	518.4	709.1	854.3	808.7	1924.2	5552.9	7211.7	7680.4	7543.5
72.5°	215.6	232.2	344.2	530.8	671.8	514.2	899.9	3927.3	5975.9	6129.4	6092.0
75°	157.6	157.6	211.5	381.5	489.4	369.1	423.0	2484.1	3968.7	4308.8	4304.6
77.5°	112.0	116.1	145.1	228.1	377.4	269.6	232.2	1381.0	2168.9	2372.1	2260.1
80°	66.4	70.5	99.5	136.9	273.7	194.9	153.4	630.4	833.6	841.9	800.4
82.5°	49.8	49.8	66.4	95.4	190.8	132.7	95.4	240.5	269.6	244.7	207.4
85°	29.0	24.9	49.8	70.5	112.0	74.6	66.4	112.0	124.4	91.2	82.9
87.5°	8.3	8.3	20.7	24.9	49.8	41.5	29.0	41.5	58.1	33.2	24.9
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°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1273.1	1260.7	1240.0	1231.7	1202.6	1190.2	1181.9	1161.2	1165.3	1152.9	1152.9
5°	1260.7	1260.7	1219.2	1173.6	1128.0	1099.0	1065.8	1024.3	1024.3	1007.7	1011.9
7.5°	1306.3	1273.1	1219.2	1136.3	1061.6	995.3	966.3	924.8	899.9	887.5	887.5
10°	1335.4	1302.2	1210.9	1111.4	1016.0	933.1	870.9	812.8	779.6	779.6	775.5
12.5°	1414.1	1364.4	1244.1	1107.3	966.3	841.9	746.5	680.1	634.5	601.3	609.6
15°	1480.5	1426.6	1260.7	1074.1	879.2	705.0	588.9	464.5	402.3	369.1	356.6
17.5°	1584.2	1484.6	1298.0	1016.0	746.5	551.6	381.5	277.9	253.0	248.8	248.8
20°	1671.3	1555.1	1302.2	904.1	613.8	352.5	244.7	228.1	215.6	211.5	207.4
22.5°	1791.5	1646.4	1285.6	775.5	439.6	236.4	207.4	190.8	182.5	170.0	170.0
25°	1915.9	1766.6	1252.4	655.2	269.6	203.2	182.5	165.9	149.3	141.0	145.1
27.5°	2048.6	1857.9	1157.0	510.1	207.4	178.3	149.3	136.9	128.6	124.4	124.4
30°	2156.5	1915.9	1016.0	340.1	186.6	157.6	132.7	120.3	112.0	107.8	107.8
32.5°	2235.3	1965.7	858.4	228.1	170.0	141.0	120.3	107.8	99.5	95.4	95.4
35°	2368.0	2003.0	713.3	194.9	153.4	124.4	103.7	95.4	87.1	87.1	87.1
37.5°	2571.2	2052.8	568.1	178.3	141.0	112.0	99.5	87.1	82.9	78.8	78.8
40°	2749.5	2115.0	406.4	161.7	128.6	103.7	87.1	78.8	74.6	70.5	70.5
42.5°	3006.6	2185.5	265.4	145.1	116.1	95.4	78.8	70.5	66.4	62.2	62.2
45°	3334.2	2301.6	207.4	128.6	103.7	87.1	74.6	66.4	58.1	58.1	53.9
47.5°	3682.6	2442.6	186.6	120.3	95.4	78.8	66.4	58.1	53.9	49.8	49.8
50°	4006.1	2579.5	174.2	112.0	87.1	74.6	62.2	53.9	45.6	41.5	41.5
52.5°	4296.4	2708.0	165.9	103.7	82.9	66.4	53.9	45.6	41.5	37.3	37.3
55°	4449.8	2766.1	161.7	99.5	74.6	62.2	49.8	41.5	37.3	33.2	33.2
57.5°	4690.3	2840.7	157.6	95.4	70.5	53.9	45.6	37.3	33.2	29.0	29.0
60°	5080.1	3085.4	153.4	91.2	66.4	53.9	41.5	33.2	24.9	20.7	20.7
62.5°	5403.6	3288.6	136.9	78.8	58.1	45.6	33.2	24.9	16.6	12.4	12.4
65°	5772.7	3384.0	120.3	70.5	49.8	37.3	24.9	16.6	12.4	4.1	4.1
67.5°	6175.0	3529.1	99.5	62.2	45.6	29.0	20.7	12.4	4.1	0.0	0.0
70°	5963.5	3346.7	82.9	53.9	41.5	24.9	16.6	8.3	0.0	0.0	0.0
72.5°	4673.7	2397.0	66.4	49.8	37.3	24.9	16.6	4.1	0.0	0.0	0.0
75°	3122.7	1356.1	58.1	41.5	29.0	20.7	12.4	4.1	0.0	0.0	0.0
77.5°	1696.1	609.6	49.8	37.3	24.9	16.6	12.4	4.1	0.0	0.0	0.0
80°	551.6	240.5	41.5	33.2	24.9	16.6	12.4	4.1	0.0	0.0	0.0
82.5°	149.3	74.6	41.5	33.2	24.9	16.6	12.4	4.1	0.0	0.0	0.0
85°	62.2	49.8	41.5	33.2	24.9	16.6	12.4	4.1	0.0	0.0	0.0
87.5°	24.9	16.6	16.6	20.7	16.6	12.4	8.3	4.1	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°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1157.0	1165.3	1169.5	1169.5	1190.2	1210.9	1235.8	1256.6	1256.6	1269.0	1281.4
5°	1016.0	1024.3	1036.8	1074.1	1115.6	1161.2	1206.8	1240.0	1285.6	1306.3	1318.8
7.5°	899.9	908.2	941.4	978.7	1036.8	1115.6	1194.4	1269.0	1314.6	1335.4	1351.9
10°	779.6	792.1	829.4	895.8	970.4	1065.8	1157.0	1285.6	1360.2	1401.7	1418.3
12.5°	605.5	638.6	688.4	758.9	854.3	999.4	1169.5	1302.2	1430.7	1480.5	1513.7
15°	381.5	410.6	489.4	601.3	729.9	899.9	1136.3	1327.1	1505.4	1555.1	1609.1
17.5°	244.7	248.8	273.7	394.0	559.9	775.5	1086.5	1364.4	1588.3	1658.8	1741.8
20°	207.4	215.6	219.8	236.4	373.2	638.6	982.9	1410.0	1687.9	1783.2	1862.0
22.5°	174.2	178.3	186.6	199.1	223.9	464.5	841.9	1410.0	1774.9	1915.9	2007.2
25°	141.0	149.3	157.6	170.0	194.9	290.3	696.7	1385.1	1878.6	2052.8	2168.9
27.5°	124.4	124.4	132.7	145.1	165.9	203.2	551.6	1310.5	1957.4	2135.7	2289.2
30°	107.8	112.0	116.1	128.6	149.3	178.3	381.5	1190.2	2040.4	2297.5	2471.6
32.5°	95.4	95.4	103.7	112.0	132.7	161.7	244.7	1007.7	2148.2	2421.9	2666.6
35°	87.1	87.1	91.2	99.5	120.3	145.1	190.8	854.3	2276.7	2658.3	2927.8
37.5°	78.8	78.8	82.9	91.2	107.8	128.6	174.2	734.0	2409.4	2894.6	3288.6
40°	70.5	70.5	74.6	82.9	95.4	116.1	157.6	593.0	2575.3	3243.0	3682.6
42.5°	62.2	62.2	66.4	74.6	87.1	103.7	136.9	443.7	2795.1	3620.4	4192.7
45°	53.9	53.9	58.1	66.4	74.6	95.4	124.4	340.1	3035.6	4039.2	4640.6
47.5°	45.6	49.8	53.9	62.2	70.5	87.1	112.0	298.6	3272.0	4483.0	5138.2
50°	41.5	41.5	45.6	53.9	66.4	78.8	103.7	294.4	3512.6	4823.0	5648.3
52.5°	37.3	37.3	41.5	49.8	62.2	74.6	99.5	302.7	3711.6	5138.2	6004.9
55°	33.2	33.2	37.3	41.5	53.9	70.5	91.2	311.0	3852.6	5457.5	6291.1
57.5°	29.0	29.0	33.2	41.5	49.8	62.2	82.9	319.3	4080.7	5772.7	6705.8
60°	20.7	20.7	29.0	37.3	45.6	53.9	78.8	327.6	4445.6	6208.1	7058.3
62.5°	12.4	12.4	16.6	29.0	37.3	49.8	70.5	311.0	4785.7	6768.0	7597.4
65°	4.1	8.3	12.4	16.6	29.0	41.5	58.1	282.0	5071.9	7327.9	8095.1
67.5°	0.0	0.0	4.1	12.4	24.9	33.2	49.8	207.4	5117.5	7580.8	8605.1
70°	0.0	0.0	4.1	12.4	20.7	33.2	45.6	116.1	4358.6	6772.1	7887.7
72.5°	0.0	0.0	0.0	8.3	20.7	29.0	41.5	87.1	3214.0	5105.0	6233.0
75°	0.0	0.0	0.0	4.1	16.6	24.9	37.3	66.4	1953.3	3404.7	4068.3
77.5°	0.0	0.0	0.0	4.1	12.4	24.9	37.3	58.1	688.4	1621.5	1911.8
80°	0.0	0.0	0.0	8.3	16.6	24.9	33.2	49.8	165.9	406.4	547.4
82.5°	0.0	0.0	0.0	4.1	12.4	20.7	29.0	41.5	66.4	120.3	190.8
85°	0.0	0.0	0.0	4.1	8.3	20.7	29.0	37.3	45.6	58.1	82.9
87.5°	0.0	0.0	0.0	0.0	4.1	8.3	12.4	16.6	16.6	16.6	29.0
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):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1277.3	1293.9	1302.2	1318.8	1327.1	1322.9	1318.8	1331.2	1322.9	1310.5
5°	1322.9	1322.9	1335.4	1339.5	1339.5	1327.1	1335.4	1331.2	1322.9	1322.9
7.5°	1372.7	1393.4	1393.4	1368.5	1364.4	1356.1	1356.1	1322.9	1310.5	1322.9
10°	1422.4	1439.0	1443.2	1414.1	1376.8	1360.2	1339.5	1298.0	1277.3	1285.6
12.5°	1526.1	1526.1	1480.5	1447.3	1397.6	1339.5	1289.7	1231.7	1202.6	1210.9
15°	1600.8	1617.4	1555.1	1480.5	1393.4	1285.6	1231.7	1186.1	1169.5	1157.0
17.5°	1745.9	1712.7	1613.2	1505.4	1381.0	1269.0	1231.7	1190.2	1177.8	1177.8
20°	1870.3	1853.7	1704.4	1509.5	1376.8	1302.2	1277.3	1256.6	1252.4	1240.0
22.5°	2040.4	1965.7	1774.9	1555.1	1422.4	1356.1	1347.8	1368.5	1356.1	1347.8
25°	2168.9	2106.7	1828.9	1621.5	1492.9	1472.2	1484.6	1505.4	1472.2	1459.8
27.5°	2343.1	2227.0	1932.5	1708.6	1588.3	1609.1	1650.5	1654.7	1633.9	1646.4
30°	2504.8	2380.4	2011.3	1808.1	1750.1	1770.8	1833.0	1878.6	1849.6	1833.0
32.5°	2737.1	2546.3	2168.9	1974.0	1953.3	2007.2	2077.7	2106.7	2069.4	2061.1
35°	2981.7	2737.1	2330.6	2160.6	2197.9	2272.6	2334.8	2384.6	2326.5	2351.4
37.5°	3363.3	3043.9	2604.4	2455.1	2471.6	2500.7	2616.8	2753.6	2782.7	2732.9
40°	3761.4	3375.7	2857.3	2741.2	2778.5	2857.3	2994.2	3122.7	3189.1	3122.7
42.5°	4221.7	3695.0	3247.1	3110.3	3147.6	3259.6	3442.1	3545.7	3537.4	3437.9
45°	4789.9	4138.8	3612.1	3442.1	3578.9	3678.4	3860.9	3873.4	3794.6	3769.7
47.5°	5225.3	4512.0	4006.1	3898.2	4084.9	4089.0	4130.5	4134.6	4047.5	4018.5
50°	5706.4	4943.3	4445.6	4288.1	4603.2	4458.1	4346.1	4271.5	4138.8	4076.6
52.5°	6179.1	5250.2	4852.1	4690.3	5017.9	4632.3	4429.1	4201.0	4006.1	3939.7
55°	6432.1	5756.1	5445.1	5067.7	5109.2	4682.0	4171.9	3885.8	3554.0	3537.4
57.5°	6730.7	6096.2	5946.9	5324.8	4955.7	4333.7	3637.0	3259.6	2902.9	2861.5
60°	7083.2	6635.3	6477.7	5283.4	4412.5	3641.1	2882.2	2397.0	2061.1	2032.1
62.5°	7477.1	7273.9	6805.3	4876.9	3504.3	2562.9	1903.5	1497.1	1186.1	1169.5
65°	8099.2	7808.9	6979.5	4105.6	2318.2	1642.2	1264.9	970.4	783.8	775.5
67.5°	8489.0	8012.1	6589.7	2927.8	1285.6	1086.5	887.5	705.0	543.3	510.1
70°	7937.5	7352.7	5212.9	1675.4	746.5	825.3	684.3	472.8	373.2	364.9
72.5°	6340.9	5457.5	3508.4	787.9	464.5	646.9	497.6	319.3	223.9	215.6
75°	4325.4	3433.8	2202.1	364.9	327.6	472.8	364.9	186.6	157.6	157.6
77.5°	1932.5	1750.1	1128.0	223.9	244.7	360.8	211.5	128.6	116.1	112.0
80°	588.9	617.9	460.3	153.4	182.5	273.7	128.6	87.1	70.5	66.4
82.5°	199.1	232.2	207.4	91.2	124.4	194.9	87.1	58.1	49.8	49.8
85°	95.4	116.1	103.7	58.1	66.4	95.4	70.5	45.6	29.0	29.0
87.5°	37.3	53.9	37.3	24.9	37.3	49.8	29.0	20.7	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)