

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: P676295

Luminaire Tested: **CCW-SA-2E-750-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676295
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-750-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) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

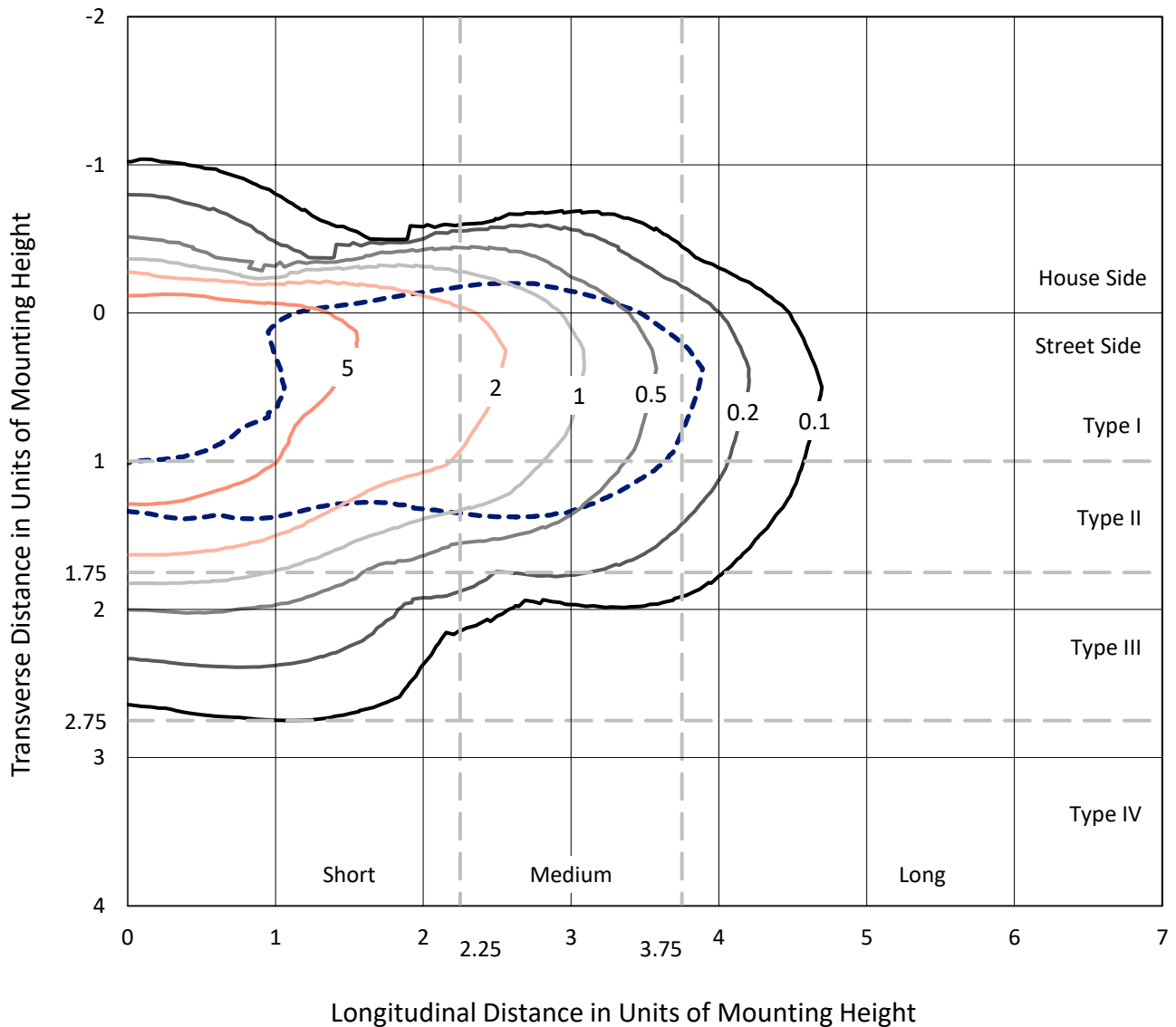
Lumens per Lamp: N/A
Luminaire Lumens: 10797.9 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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

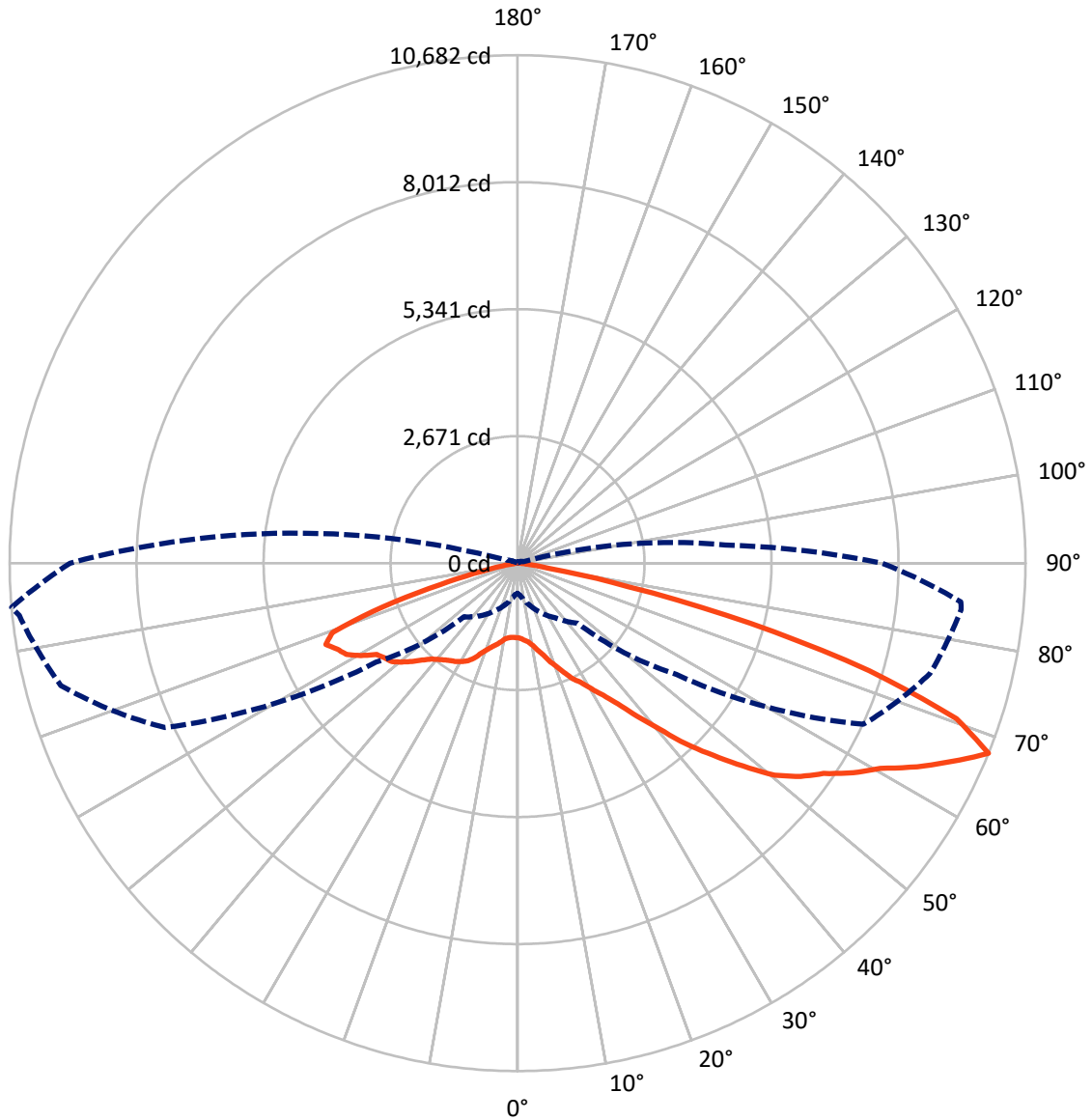
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.3 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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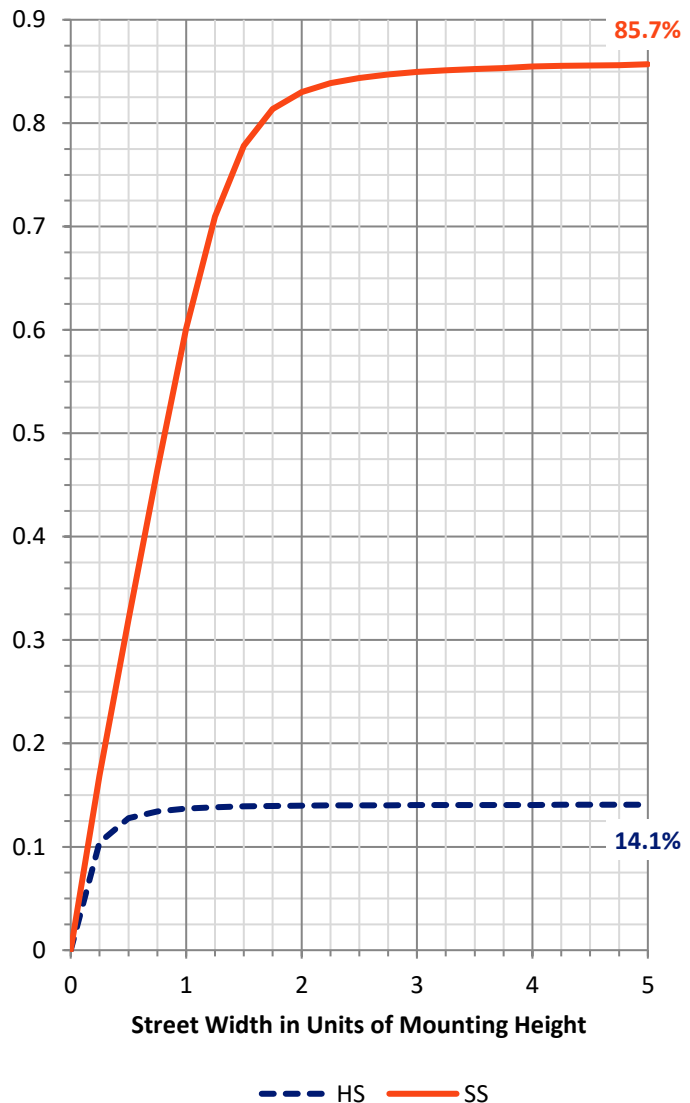
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1534.0	0.0	1534.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	9263.9	0.0	9263.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	10797.9	0.0	10797.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	1.3
10°-20°	385.0	3.6
20°-30°	639.4	5.9
30°-40°	1100.0	10.2
40°-50°	1976.8	18.3
50°-60°	2814.1	26.1
60°-70°	2565.6	23.8
70°-80°	1092.5	10.1
80°-90°	81.3	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°	10797.9	100.0
0°-180°	10797.9	100.0



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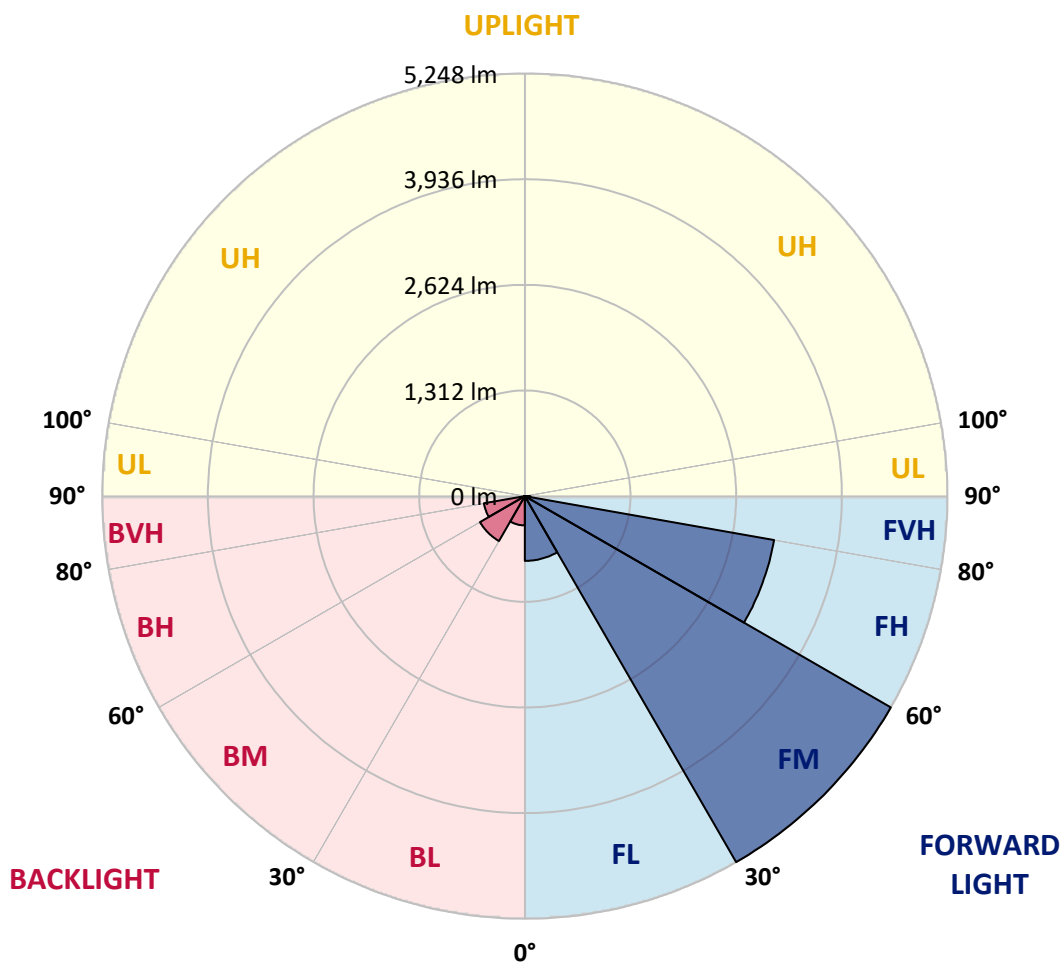
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	804.4	7.4			
FM (30°-60°)	5247.8	48.6			
FH (60°-80°)	3142.6	29.1			G2/5000
FVH (80°-90°)	69.1	0.6			G1/100
BL (0°-30°)	363.1	3.4	B1/500		
BM (30°-60°)	643.1	6.0	B1/1000		
BH (60°-80°)	515.4	4.8	B2/1000		G2/1000
BVH (80°-90°)	12.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	1570.2	1570.2	1570.2	1570.2	1570.2	1570.2	1570.2	1570.2	1570.2	1570.2	1570.2
2.5°	1626.8	1642.2	1642.2	1637.1	1621.6	1611.4	1606.2	1595.9	1585.6	1585.6	1590.8
5°	1642.2	1626.8	1647.4	1621.6	1621.6	1621.6	1642.2	1631.9	1626.8	1601.1	1601.1
7.5°	1642.2	1626.8	1626.8	1642.2	1626.8	1637.1	1662.8	1652.5	1673.1	1626.8	1637.1
10°	1595.9	1590.8	1601.1	1621.6	1626.8	1647.4	1673.1	1724.6	1729.8	1698.9	1693.7
12.5°	1503.2	1498.1	1534.1	1544.4	1606.2	1657.7	1734.9	1776.1	1822.4	1807.0	1776.1
15°	1436.3	1446.6	1472.4	1513.5	1570.2	1662.8	1750.4	1843.0	1925.4	1904.8	1894.5
17.5°	1462.1	1456.9	1462.1	1487.8	1559.9	1652.5	1801.8	1909.9	2028.3	2028.3	2038.6
20°	1539.3	1554.7	1549.6	1534.1	1570.2	1647.4	1801.8	1992.3	2187.9	2172.5	2172.5
22.5°	1673.1	1678.3	1647.4	1637.1	1631.9	1678.3	1832.7	2095.3	2321.8	2352.7	2342.4
25°	1812.1	1817.3	1807.0	1776.1	1734.9	1745.2	1889.3	2177.6	2507.1	2558.6	2548.3
27.5°	2043.8	2038.6	2012.9	1976.9	1915.1	1868.8	1976.9	2239.4	2651.3	2738.8	2713.0
30°	2275.5	2260.0	2224.0	2177.6	2121.0	2033.5	2085.0	2357.8	2831.4	2913.8	2857.2
32.5°	2558.6	2527.7	2538.0	2465.9	2347.5	2208.5	2198.2	2465.9	2975.6	3094.0	3047.7
35°	2919.0	2882.9	2831.4	2764.5	2651.3	2465.9	2409.3	2641.0	3217.6	3305.1	3305.1
37.5°	3392.6	3428.6	3366.8	3088.9	2965.3	2790.3	2671.9	2821.2	3428.6	3639.7	3588.2
40°	3876.5	3907.4	3794.1	3588.2	3320.5	3104.3	3032.2	3114.6	3747.8	4000.1	3902.3
42.5°	4267.8	4309.0	4267.8	4000.1	3789.0	3511.0	3382.3	3459.5	4159.7	4463.4	4334.7
45°	4679.6	4720.8	4674.5	4499.4	4293.5	4133.9	3809.6	3907.4	4592.1	5045.1	4901.0
47.5°	4988.5	5040.0	4957.6	4921.6	4756.8	4731.1	4180.2	4288.4	5045.1	5632.0	5451.8
50°	5060.6	5117.2	5189.3	5230.5	5173.8	5235.6	4679.6	4772.3	5518.8	6172.6	5997.5
52.5°	4890.7	4947.3	5106.9	5297.4	5559.9	5745.3	5184.1	5261.3	6013.0	6620.4	6527.8
55°	4391.3	4442.8	4767.1	5024.5	5652.6	5956.3	5668.0	5992.4	6368.2	7088.9	6862.4
57.5°	3552.2	3614.0	4041.2	4437.7	5343.7	5837.9	5956.3	6599.8	6955.1	7433.8	7171.3
60°	2522.6	2558.6	2929.3	3629.4	4489.1	5245.9	5899.7	7052.9	7418.4	7897.2	7758.2
62.5°	1451.8	1482.6	1868.8	2527.7	3387.4	4381.0	5647.5	7480.2	7917.8	8406.8	8329.6
65°	962.7	973.0	1235.5	1595.9	2203.4	3227.9	5009.1	7861.1	8412.0	8813.5	8726.0
67.5°	633.2	689.8	895.8	1142.9	1410.6	1786.4	4082.4	8020.7	8978.3	9379.8	9359.2
70°	453.0	473.6	643.5	880.3	1060.5	1003.9	2388.7	6893.3	8952.5	9534.3	9364.4
72.5°	267.7	288.3	427.3	659.0	834.0	638.4	1117.1	4875.2	7418.4	7608.9	7562.5
75°	195.6	195.6	262.6	473.6	607.5	458.2	525.1	3083.7	4926.7	5348.9	5343.7
77.5°	139.0	144.1	180.2	283.1	468.5	334.6	288.3	1714.3	2692.5	2944.7	2805.7
80°	82.4	87.5	123.6	169.9	339.8	242.0	190.5	782.5	1034.8	1045.1	993.6
82.5°	61.8	61.8	82.4	118.4	236.8	164.7	118.4	298.6	334.6	303.7	257.4
85°	36.0	30.9	61.8	87.5	139.0	92.7	82.4	139.0	154.4	113.3	103.0
87.5°	10.3	10.3	25.7	30.9	61.8	51.5	36.0	51.5	72.1	41.2	30.9
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°	1570.2	1570.2	1570.2	1570.2	1570.2	1570.2	1570.2	1570.2	1570.2	1570.2	1570.2
2.5°	1580.5	1565.0	1539.3	1529.0	1492.9	1477.5	1467.2	1441.5	1446.6	1431.2	1431.2
5°	1565.0	1565.0	1513.5	1456.9	1400.3	1364.2	1323.1	1271.6	1271.6	1251.0	1256.1
7.5°	1621.6	1580.5	1513.5	1410.6	1317.9	1235.5	1199.5	1148.0	1117.1	1101.7	1101.7
10°	1657.7	1616.5	1503.2	1379.7	1261.3	1158.3	1081.1	1009.0	967.8	967.8	962.7
12.5°	1755.5	1693.7	1544.4	1374.5	1199.5	1045.1	926.7	844.3	787.7	746.5	756.8
15°	1837.9	1770.9	1565.0	1333.4	1091.4	875.2	731.0	576.6	499.4	458.2	442.7
17.5°	1966.6	1843.0	1611.4	1261.3	926.7	684.7	473.6	344.9	314.0	308.9	308.9
20°	2074.7	1930.5	1616.5	1122.3	761.9	437.6	303.7	283.1	267.7	262.6	257.4
22.5°	2224.0	2043.8	1595.9	962.7	545.7	293.4	257.4	236.8	226.5	211.1	211.1
25°	2378.4	2193.1	1554.7	813.4	334.6	252.3	226.5	205.9	185.3	175.0	180.2
27.5°	2543.2	2306.3	1436.3	633.2	257.4	221.4	185.3	169.9	159.6	154.4	154.4
30°	2677.0	2378.4	1261.3	422.1	231.7	195.6	164.7	149.3	139.0	133.9	133.9
32.5°	2774.8	2440.2	1065.7	283.1	211.1	175.0	149.3	133.9	123.6	118.4	118.4
35°	2939.6	2486.5	885.5	242.0	190.5	154.4	128.7	118.4	108.1	108.1	108.1
37.5°	3191.8	2548.3	705.3	221.4	175.0	139.0	123.6	108.1	103.0	97.8	97.8
40°	3413.2	2625.5	504.5	200.8	159.6	128.7	108.1	97.8	92.7	87.5	87.5
42.5°	3732.4	2713.0	329.5	180.2	144.1	118.4	97.8	87.5	82.4	77.2	77.2
45°	4139.1	2857.2	257.4	159.6	128.7	108.1	92.7	82.4	72.1	72.1	66.9
47.5°	4571.5	3032.2	231.7	149.3	118.4	97.8	82.4	72.1	66.9	61.8	61.8
50°	4973.1	3202.1	216.2	139.0	108.1	92.7	77.2	66.9	56.6	51.5	51.5
52.5°	5333.4	3361.7	205.9	128.7	103.0	82.4	66.9	56.6	51.5	46.3	46.3
55°	5523.9	3433.8	200.8	123.6	92.7	77.2	61.8	51.5	46.3	41.2	41.2
57.5°	5822.5	3526.4	195.6	118.4	87.5	66.9	56.6	46.3	41.2	36.0	36.0
60°	6306.4	3830.2	190.5	113.3	82.4	66.9	51.5	41.2	30.9	25.7	25.7
62.5°	6708.0	4082.4	169.9	97.8	72.1	56.6	41.2	30.9	20.6	15.4	15.4
65°	7166.1	4200.8	149.3	87.5	61.8	46.3	30.9	20.6	15.4	5.1	5.1
67.5°	7665.5	4381.0	123.6	77.2	56.6	36.0	25.7	15.4	5.1	0.0	0.0
70°	7403.0	4154.5	103.0	66.9	51.5	30.9	20.6	10.3	0.0	0.0	0.0
72.5°	5801.9	2975.6	82.4	61.8	46.3	30.9	20.6	5.1	0.0	0.0	0.0
75°	3876.5	1683.4	72.1	51.5	36.0	25.7	15.4	5.1	0.0	0.0	0.0
77.5°	2105.6	756.8	61.8	46.3	30.9	20.6	15.4	5.1	0.0	0.0	0.0
80°	684.7	298.6	51.5	41.2	30.9	20.6	15.4	5.1	0.0	0.0	0.0
82.5°	185.3	92.7	51.5	41.2	30.9	20.6	15.4	5.1	0.0	0.0	0.0
85°	77.2	61.8	51.5	41.2	30.9	20.6	15.4	5.1	0.0	0.0	0.0
87.5°	30.9	20.6	20.6	25.7	20.6	15.4	10.3	5.1	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°	1570.2	1570.2	1570.2	1570.2	1570.2	1570.2	1570.2	1570.2	1570.2	1570.2	1570.2
2.5°	1436.3	1446.6	1451.8	1451.8	1477.5	1503.2	1534.1	1559.9	1559.9	1575.3	1590.8
5°	1261.3	1271.6	1287.0	1333.4	1384.8	1441.5	1498.1	1539.3	1595.9	1621.6	1637.1
7.5°	1117.1	1127.4	1168.6	1214.9	1287.0	1384.8	1482.6	1575.3	1631.9	1657.7	1678.3
10°	967.8	983.3	1029.6	1112.0	1204.7	1323.1	1436.3	1595.9	1688.6	1740.1	1760.6
12.5°	751.6	792.8	854.6	942.1	1060.5	1240.7	1451.8	1616.5	1776.1	1837.9	1879.1
15°	473.6	509.7	607.5	746.5	906.1	1117.1	1410.6	1647.4	1868.8	1930.5	1997.5
17.5°	303.7	308.9	339.8	489.1	695.0	962.7	1348.8	1693.7	1971.7	2059.2	2162.2
20°	257.4	267.7	272.8	293.4	463.3	792.8	1220.1	1750.4	2095.3	2213.7	2311.5
22.5°	216.2	221.4	231.7	247.1	278.0	576.6	1045.1	1750.4	2203.4	2378.4	2491.7
25°	175.0	185.3	195.6	211.1	242.0	360.4	864.9	1719.5	2332.1	2548.3	2692.5
27.5°	154.4	154.4	164.7	180.2	205.9	252.3	684.7	1626.8	2429.9	2651.3	2841.7
30°	133.9	139.0	144.1	159.6	185.3	221.4	473.6	1477.5	2532.9	2852.0	3068.3
32.5°	118.4	118.4	128.7	139.0	164.7	200.8	303.7	1251.0	2666.7	3006.5	3310.2
35°	108.1	108.1	113.3	123.6	149.3	180.2	236.8	1060.5	2826.3	3299.9	3634.6
37.5°	97.8	97.8	103.0	113.3	133.9	159.6	216.2	911.2	2991.0	3593.4	4082.4
40°	87.5	87.5	92.7	103.0	118.4	144.1	195.6	736.2	3197.0	4025.8	4571.5
42.5°	77.2	77.2	82.4	92.7	108.1	128.7	169.9	550.8	3469.8	4494.3	5204.7
45°	66.9	66.9	72.1	82.4	92.7	118.4	154.4	422.1	3768.4	5014.2	5760.7
47.5°	56.6	61.8	66.9	77.2	87.5	108.1	139.0	370.7	4061.8	5565.1	6378.5
50°	51.5	51.5	56.6	66.9	82.4	97.8	128.7	365.5	4360.4	5987.2	7011.7
52.5°	46.3	46.3	51.5	61.8	77.2	92.7	123.6	375.8	4607.5	6378.5	7454.4
55°	41.2	41.2	46.3	51.5	66.9	87.5	113.3	386.1	4782.6	6774.9	7809.7
57.5°	36.0	36.0	41.2	51.5	61.8	77.2	103.0	396.4	5065.7	7166.1	8324.5
60°	25.7	25.7	36.0	46.3	56.6	66.9	97.8	406.7	5518.8	7706.7	8762.0
62.5°	15.4	15.4	20.6	36.0	46.3	61.8	87.5	386.1	5940.9	8401.7	9431.3
65°	5.1	10.3	15.4	20.6	36.0	51.5	72.1	350.1	6296.1	9096.7	10049.1
67.5°	0.0	0.0	5.1	15.4	30.9	41.2	61.8	257.4	6352.7	9410.7	10682.3
70°	0.0	0.0	5.1	15.4	25.7	41.2	56.6	144.1	5410.6	8406.8	9791.7
72.5°	0.0	0.0	0.0	10.3	25.7	36.0	51.5	108.1	3989.8	6337.3	7737.6
75°	0.0	0.0	0.0	5.1	20.6	30.9	46.3	82.4	2424.7	4226.6	5050.3
77.5°	0.0	0.0	0.0	5.1	15.4	30.9	46.3	72.1	854.6	2012.9	2373.3
80°	0.0	0.0	0.0	10.3	20.6	30.9	41.2	61.8	205.9	504.5	679.5
82.5°	0.0	0.0	0.0	5.1	15.4	25.7	36.0	51.5	82.4	149.3	236.8
85°	0.0	0.0	0.0	5.1	10.3	25.7	36.0	46.3	56.6	72.1	103.0
87.5°	0.0	0.0	0.0	0.0	5.1	10.3	15.4	20.6	20.6	20.6	36.0
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°	1570.2	1570.2	1570.2	1570.2	1570.2	1570.2	1570.2	1570.2	1570.2	1570.2
2.5°	1585.6	1606.2	1616.5	1637.1	1647.4	1642.2	1637.1	1652.5	1642.2	1626.8
5°	1642.2	1642.2	1657.7	1662.8	1662.8	1647.4	1657.7	1652.5	1642.2	1642.2
7.5°	1704.0	1729.8	1729.8	1698.9	1693.7	1683.4	1683.4	1642.2	1626.8	1642.2
10°	1765.8	1786.4	1791.5	1755.5	1709.2	1688.6	1662.8	1611.4	1585.6	1595.9
12.5°	1894.5	1894.5	1837.9	1796.7	1734.9	1662.8	1601.1	1529.0	1492.9	1503.2
15°	1987.2	2007.8	1930.5	1837.9	1729.8	1595.9	1529.0	1472.4	1451.8	1436.3
17.5°	2167.3	2126.2	2002.6	1868.8	1714.3	1575.3	1529.0	1477.5	1462.1	1462.1
20°	2321.8	2301.2	2115.9	1873.9	1709.2	1616.5	1585.6	1559.9	1554.7	1539.3
22.5°	2532.9	2440.2	2203.4	1930.5	1765.8	1683.4	1673.1	1698.9	1683.4	1673.1
25°	2692.5	2615.2	2270.3	2012.9	1853.3	1827.6	1843.0	1868.8	1827.6	1812.1
27.5°	2908.7	2764.5	2399.0	2121.0	1971.7	1997.5	2048.9	2054.1	2028.3	2043.8
30°	3109.4	2955.0	2496.8	2244.6	2172.5	2198.2	2275.5	2332.1	2296.0	2275.5
32.5°	3397.7	3160.9	2692.5	2450.5	2424.7	2491.7	2579.2	2615.2	2568.9	2558.6
35°	3701.5	3397.7	2893.2	2682.2	2728.5	2821.2	2898.4	2960.2	2888.1	2919.0
37.5°	4175.1	3778.7	3233.0	3047.7	3068.3	3104.3	3248.4	3418.3	3454.4	3392.6
40°	4669.3	4190.5	3547.0	3402.9	3449.2	3547.0	3716.9	3876.5	3958.9	3876.5
42.5°	5240.8	4586.9	4031.0	3861.1	3907.4	4046.4	4272.9	4401.6	4391.3	4267.8
45°	5946.0	5137.8	4484.0	4272.9	4442.8	4566.4	4792.9	4808.3	4710.5	4679.6
47.5°	6486.6	5601.1	4973.1	4839.2	5070.9	5076.0	5127.5	5132.6	5024.5	4988.5
50°	7083.8	6136.5	5518.8	5323.1	5714.4	5534.2	5395.2	5302.5	5137.8	5060.6
52.5°	7670.7	6517.5	6023.3	5822.5	6229.2	5750.4	5498.2	5215.0	4973.1	4890.7
55°	7984.7	7145.5	6759.4	6291.0	6342.4	5812.2	5179.0	4823.8	4411.9	4391.3
57.5°	8355.3	7567.7	7382.4	6610.1	6152.0	5379.8	4514.9	4046.4	3603.7	3552.2
60°	8792.9	8236.9	8041.3	6558.7	5477.6	4520.0	3577.9	2975.6	2558.6	2522.6
62.5°	9282.0	9029.7	8448.0	6054.2	4350.1	3181.5	2363.0	1858.5	1472.4	1451.8
65°	10054.2	9693.9	8664.2	5096.6	2877.8	2038.6	1570.2	1204.7	973.0	962.7
67.5°	10538.1	9946.1	8180.3	3634.6	1595.9	1348.8	1101.7	875.2	674.4	633.2
70°	9853.4	9127.6	6471.1	2079.8	926.7	1024.5	849.4	586.9	463.3	453.0
72.5°	7871.4	6774.9	4355.3	978.1	576.6	803.1	617.8	396.4	278.0	267.7
75°	5369.5	4262.6	2733.6	453.0	406.7	586.9	453.0	231.7	195.6	195.6
77.5°	2399.0	2172.5	1400.3	278.0	303.7	447.9	262.6	159.6	144.1	139.0
80°	731.0	767.1	571.4	190.5	226.5	339.8	159.6	108.1	87.5	82.4
82.5°	247.1	288.3	257.4	113.3	154.4	242.0	108.1	72.1	61.8	61.8
85°	118.4	144.1	128.7	72.1	82.4	118.4	87.5	56.6	36.0	36.0
87.5°	46.3	66.9	46.3	30.9	46.3	61.8	36.0	25.7	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)