

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: P676098

Luminaire Tested: **CCW-SA-1B-727-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676098
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-727-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
T1 distribution lens
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

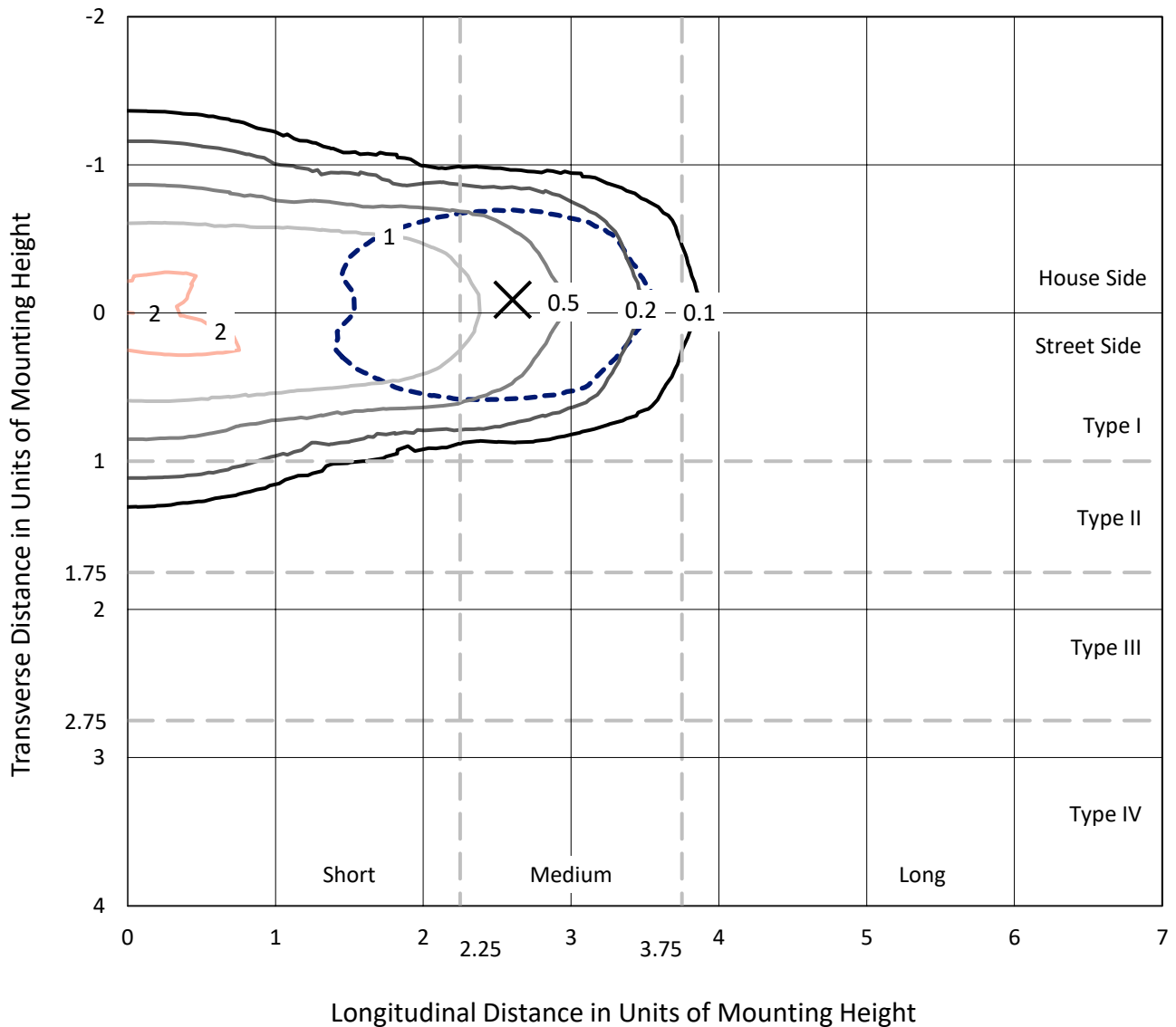
Lumens per Lamp: N/A
Luminaire Lumens: 2812.5 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 24
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

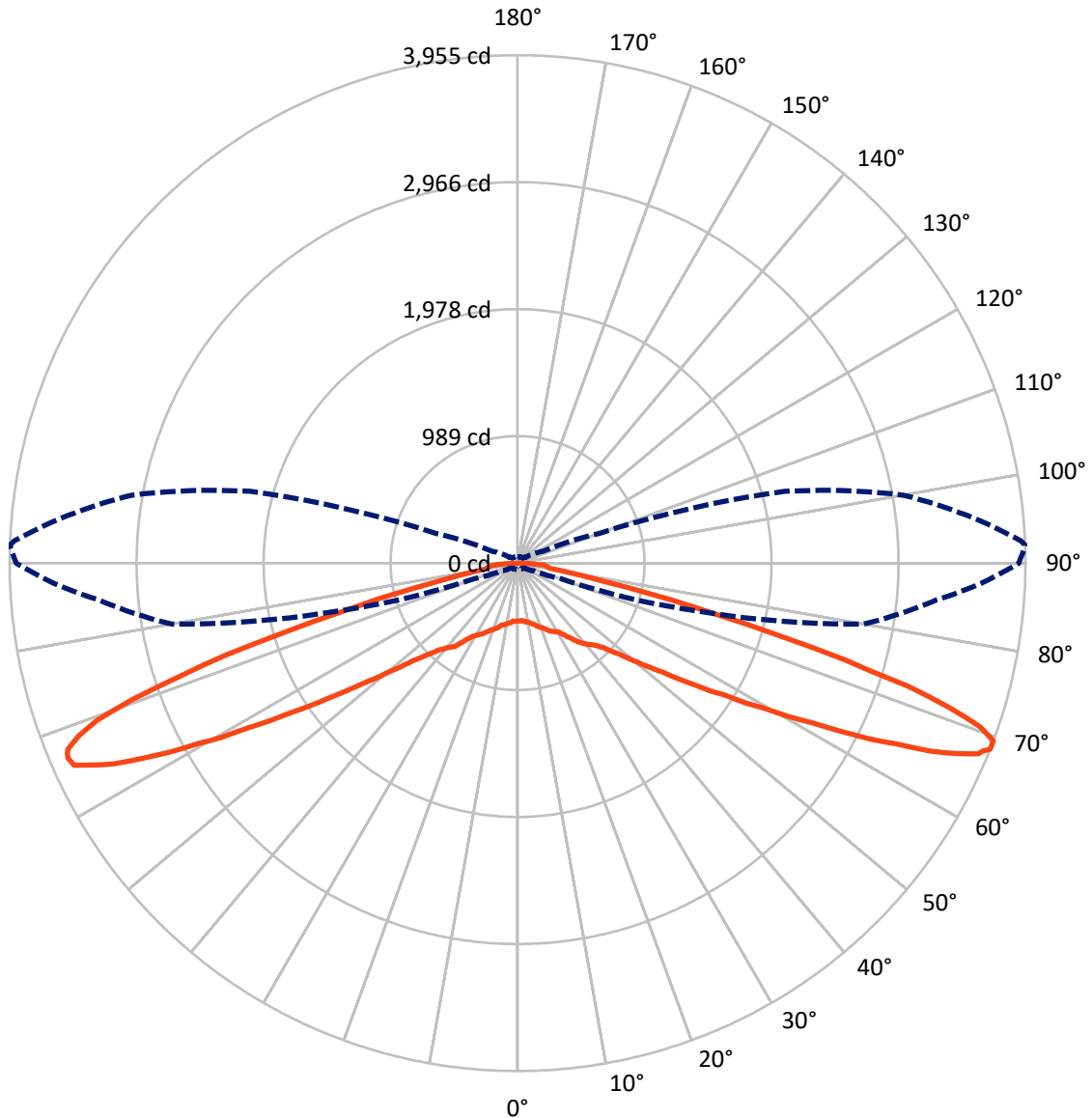
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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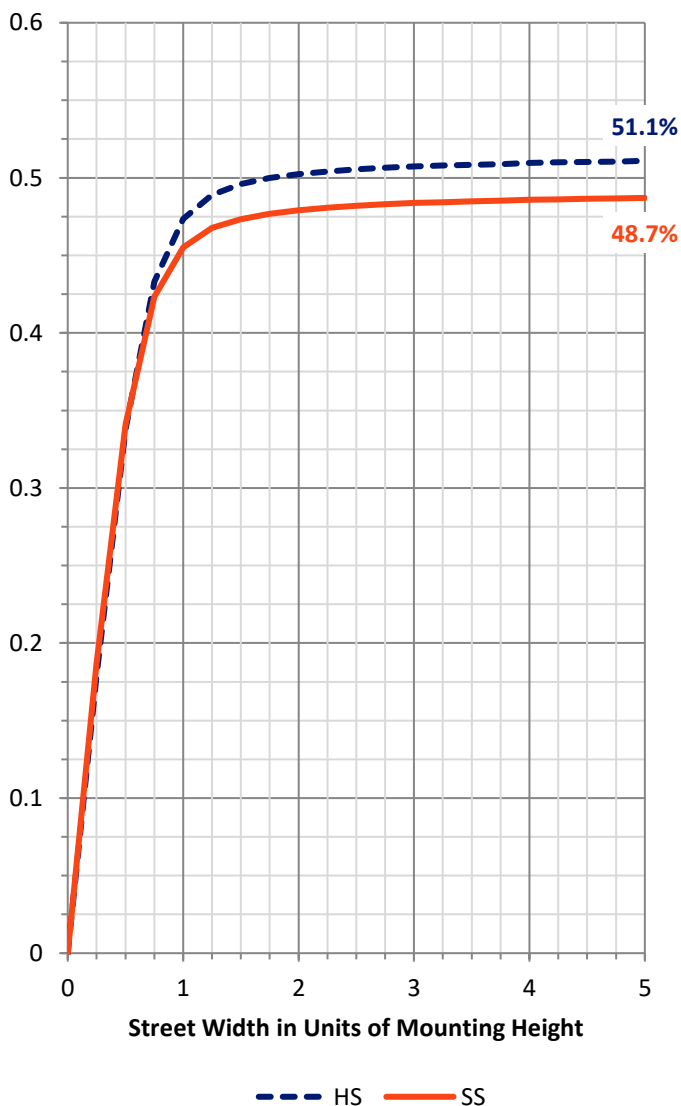
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1448.4	0.0	1448.4
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	1364.1	0.0	1364.1
	% Fixture	48.5	0.0	48.5
Total	Lumens	2812.5	0.0	2812.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.0	1.6
10°-20°	145.9	5.2
20°-30°	249.0	8.9
30°-40°	347.7	12.4
40°-50°	442.2	15.7
50°-60°	559.2	19.9
60°-70°	689.6	24.5
70°-80°	301.2	10.7
80°-90°	32.7	1.2
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°	2812.5	100.0
0°-180°	2812.5	100.0



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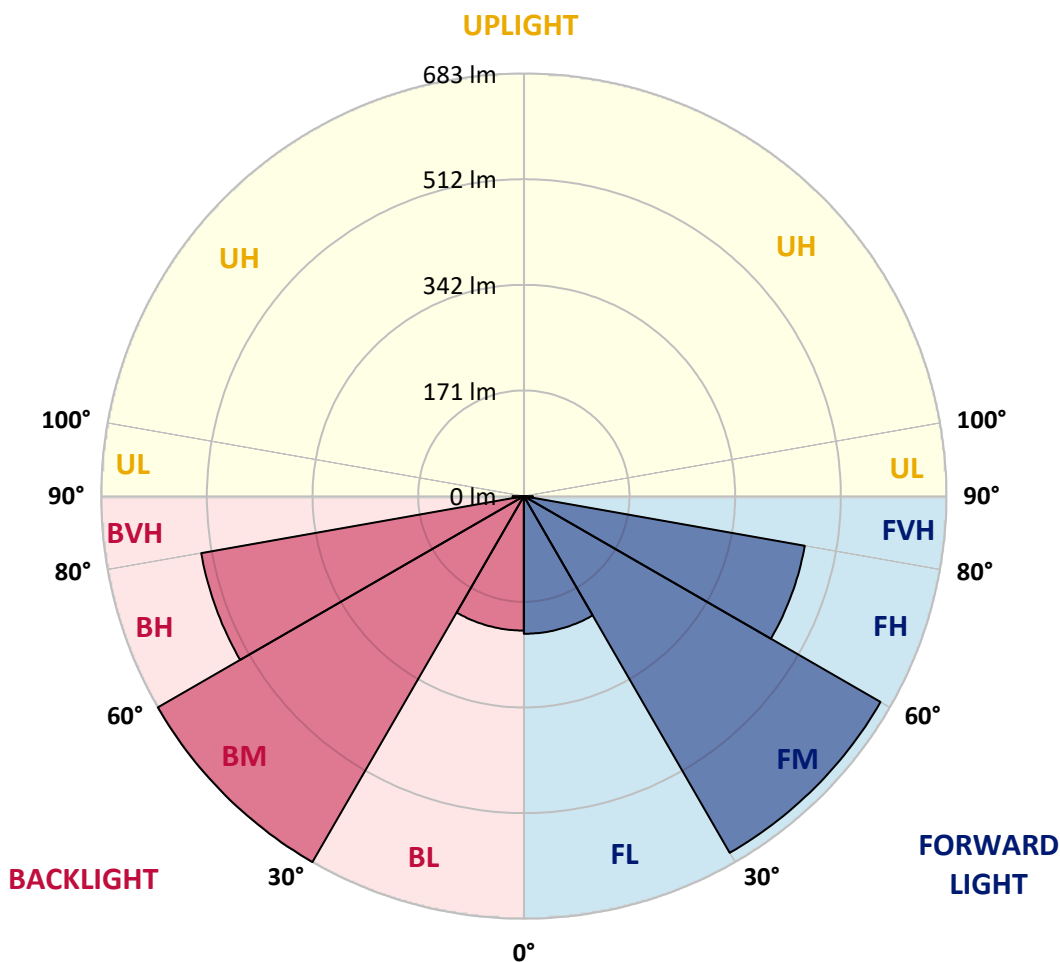
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	222.6	7.9			
FM (30°-60°)	665.8	23.7			
FH (60°-80°)	461.2	16.4			G0/660
FVH (80°-90°)	14.5	0.5			G1/100
BL (0°-30°)	217.4	7.7	B1/500		
BM (30°-60°)	683.2	24.3	B1/1000		
BH (60°-80°)	529.6	18.8	B2/1000		G2/1000
BVH (80°-90°)	18.2	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7
2.5°	459.2	458.7	460.3	461.4	456.6	458.2	457.1	456.1	452.4	450.8	447.6
5°	471.9	473.5	478.8	474.0	476.1	473.5	465.1	467.7	462.9	461.9	458.7
7.5°	494.1	490.9	498.3	493.0	494.6	489.3	485.6	480.9	479.8	472.4	473.0
10°	498.8	505.2	508.3	507.3	508.3	511.0	504.1	496.7	486.7	484.6	477.2
12.5°	495.7	501.5	509.9	516.8	521.5	522.6	520.0	518.4	514.1	502.0	501.5
15°	492.5	488.3	493.6	517.3	533.1	543.7	547.4	538.4	539.5	523.6	517.3
17.5°	471.4	465.1	485.6	508.9	528.4	551.6	569.6	566.9	566.9	554.3	545.3
20°	443.4	454.0	464.5	494.1	530.0	564.8	599.1	597.5	591.2	587.5	568.0
22.5°	419.7	424.4	443.9	475.1	520.0	568.5	609.2	638.2	623.4	608.6	597.0
25°	403.3	399.1	423.9	456.1	510.4	562.2	628.2	658.3	666.2	655.1	632.9
27.5°	380.1	380.1	399.6	430.2	479.8	559.0	646.6	692.6	704.2	687.8	655.6
30°	353.7	356.8	373.7	408.6	457.1	535.8	654.0	732.2	741.7	727.4	694.1
32.5°	333.1	333.1	352.1	389.0	441.3	525.2	649.3	771.2	789.2	778.6	744.3
35°	310.9	309.3	323.1	363.7	416.0	504.6	647.7	802.4	842.5	843.0	807.1
37.5°	279.2	285.6	303.0	335.2	395.9	484.6	642.9	839.8	911.6	923.8	899.0
40°	258.1	260.8	276.6	312.0	364.8	460.8	636.1	870.5	957.6	999.3	964.9
42.5°	227.5	231.2	243.3	287.2	334.7	427.0	606.0	892.1	1023.0	1070.5	1041.5
45°	195.3	197.4	215.4	251.3	302.5	386.9	573.8	926.9	1086.4	1183.5	1166.6
47.5°	156.8	157.8	173.1	210.6	263.9	346.8	524.2	925.4	1137.6	1296.4	1344.0
50°	122.5	125.1	136.7	167.3	217.5	297.7	466.6	912.7	1202.0	1425.2	1518.7
52.5°	97.7	98.2	105.6	129.9	167.9	248.6	404.9	872.6	1262.7	1551.4	1733.0
55°	80.8	80.8	85.0	99.8	128.8	189.0	332.6	806.1	1270.1	1690.8	1966.8
56°	77.6	76.5	80.2	92.9	116.1	170.5	298.8	761.2	1280.6	1755.2	2084.0
57°	73.4	73.9	76.0	85.0	104.5	151.0	261.3	717.4	1273.2	1808.0	2170.6
58°	71.3	70.2	74.4	80.2	92.4	134.1	235.4	665.6	1261.6	1851.2	2296.8
59°	68.1	67.6	70.2	75.5	86.0	119.3	203.8	609.7	1238.9	1907.2	2390.7
60°	67.0	66.5	67.6	71.8	79.2	104.5	179.5	544.2	1178.2	1964.7	2507.4
61°	63.9	64.4	66.5	69.2	75.0	94.0	161.5	477.2	1138.6	2013.3	2636.2
62°	64.4	63.3	64.4	66.5	70.7	86.6	141.5	411.2	1067.9	2068.2	2732.8
63°	61.2	60.7	62.3	64.9	67.0	78.1	123.5	355.3	987.6	2080.9	2814.6
64°	60.2	59.6	60.2	63.9	64.4	73.4	109.3	303.5	871.5	2102.5	2919.6
65°	57.5	57.5	58.6	60.2	62.3	69.2	97.7	263.4	755.9	2045.5	2951.8
66°	55.4	56.0	56.0	58.6	60.2	64.4	89.7	223.8	645.1	1954.7	2983.0
67°	53.8	53.8	54.4	56.5	58.1	60.7	80.8	193.7	544.2	1846.5	2934.9
67.5°	52.8	53.3	53.3	55.4	57.0	60.7	77.1	183.7	486.7	1727.7	2899.1
68°	51.2	51.7	51.7	53.8	55.4	58.6	74.4	167.9	448.7	1650.6	2832.5
69°	50.1	49.6	49.6	51.7	53.8	56.0	69.2	146.7	356.8	1435.3	2735.4
70°	47.0	47.0	48.0	49.6	51.2	53.3	63.9	129.3	301.9	1188.2	2485.2
71°	45.4	44.9	45.4	47.0	48.6	51.2	58.6	114.5	247.0	986.6	2239.2
72°	42.2	43.3	43.3	44.9	46.5	48.0	54.9	99.8	207.5	788.6	1968.4
72.5°	41.7	41.7	42.2	43.8	44.9	47.5	52.8	95.5	189.5	695.2	1854.9
73°	40.1	40.1	40.6	42.2	43.3	45.9	51.2	86.0	172.6	618.7	1642.7
74°	38.5	38.0	38.0	40.1	40.6	43.3	48.0	76.0	144.6	466.1	1318.6
75°	35.9	35.9	36.4	37.5	38.0	40.1	44.3	67.6	121.9	361.6	1031.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	29.6	30.1	30.6	31.7	31.7	33.3	36.4	47.0	74.4	183.2	473.5
80°	21.6	22.7	24.3	25.9	25.3	25.3	28.5	33.8	44.3	82.3	181.6
82.5°	17.4	18.5	16.9	19.0	19.0	17.9	20.6	24.8	30.1	40.6	64.9
85°	11.6	12.1	10.0	11.6	11.1	11.1	13.7	14.8	18.5	22.7	32.2
87.5°	5.3	5.3	4.2	4.8	4.8	4.8	6.9	5.3	7.9	11.1	19.0
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):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7
2.5°	450.8	452.9	452.9	450.8	449.2	450.8	449.7	447.1	449.7	450.8	451.3
5°	457.1	452.9	455.0	450.3	453.4	452.9	451.9	454.5	455.0	455.0	458.7
7.5°	464.0	469.3	462.4	462.9	464.5	458.2	460.3	461.4	459.2	463.5	466.6
10°	476.1	478.2	476.1	468.2	473.5	469.3	467.7	472.4	471.4	472.4	477.2
12.5°	487.2	490.9	485.1	484.6	481.9	478.2	480.4	479.8	487.2	488.3	494.1
15°	509.9	500.4	498.3	497.8	496.7	495.1	496.2	496.7	506.2	507.8	521.5
17.5°	529.5	527.9	516.3	520.5	520.5	514.1	511.5	520.5	527.9	535.8	545.3
20°	549.5	547.9	535.3	535.8	531.0	536.8	533.7	542.1	554.8	557.4	565.9
22.5°	573.3	566.4	557.4	558.5	560.1	555.8	553.7	565.3	578.0	585.4	585.9
25°	610.7	593.3	585.9	587.0	584.9	581.7	583.3	598.1	604.4	620.2	617.1
27.5°	630.8	620.8	615.5	603.4	603.9	599.1	605.5	627.6	640.3	652.4	628.2
30°	655.1	648.8	625.5	621.3	620.8	618.7	630.3	658.8	677.8	684.6	649.8
32.5°	702.6	677.3	671.4	667.8	659.3	661.9	667.8	705.2	735.3	733.7	669.9
35°	757.0	739.5	723.2	720.0	719.0	711.6	721.6	765.4	788.6	781.8	677.3
37.5°	844.1	817.7	795.5	783.4	781.2	776.0	799.7	834.6	864.6	837.7	683.1
40°	886.8	857.3	836.7	829.3	830.9	838.3	861.5	914.8	928.0	878.4	687.8
42.5°	948.1	915.9	875.2	871.5	866.8	870.5	915.3	987.1	998.2	933.3	669.9
45°	1056.8	1008.2	961.2	940.1	941.2	951.2	1020.9	1099.6	1079.0	971.3	641.4
47.5°	1194.0	1122.8	1084.8	1056.3	1070.0	1058.9	1169.8	1232.6	1162.4	1019.3	606.5
50°	1400.4	1300.7	1248.9	1214.6	1220.4	1229.9	1342.4	1395.7	1254.7	1042.5	553.2
52.5°	1660.7	1532.4	1456.4	1410.5	1414.7	1435.3	1580.4	1564.1	1360.3	1062.1	481.9
55°	1972.1	1840.2	1692.9	1673.9	1669.1	1718.2	1878.2	1740.4	1455.3	1030.9	408.0
56°	2136.8	1996.4	1843.3	1804.3	1792.6	1827.0	2014.9	1828.5	1488.1	996.1	372.7
57°	2276.7	2142.6	1974.8	1908.2	1923.0	1987.4	2150.5	1911.4	1518.2	960.2	339.4
58°	2468.8	2315.8	2138.4	2087.7	2074.5	2125.7	2296.8	1994.8	1528.2	923.2	308.8
59°	2660.5	2476.8	2316.8	2224.4	2228.1	2321.6	2440.9	2094.1	1543.5	876.3	269.7
60°	2806.2	2713.8	2500.0	2430.8	2421.3	2556.5	2584.4	2160.6	1559.9	812.9	242.3
61°	3012.5	2892.2	2693.2	2604.0	2629.8	2738.1	2739.6	2244.0	1535.6	732.7	208.5
62°	3160.9	3129.2	2920.2	2835.2	2827.3	2970.8	2901.2	2317.3	1514.5	656.7	184.2
63°	3334.5	3334.5	3144.0	3077.5	3081.2	3194.7	2971.4	2390.7	1490.2	572.7	162.1
64°	3424.8	3538.3	3362.5	3269.1	3293.4	3391.6	3096.5	2438.8	1415.2	487.8	142.5
65°	3502.9	3673.4	3575.8	3532.5	3495.5	3553.6	3204.7	2483.6	1300.7	414.9	126.7
66°	3568.9	3800.7	3768.5	3722.0	3718.3	3705.1	3225.8	2482.0	1182.4	350.5	110.9
67°	3535.7	3803.3	3861.9	3881.4	3875.6	3736.3	3188.9	2425.6	1030.9	296.1	98.7
67.5°	3505.6	3781.7	3917.8	3906.8	3931.0	3762.6	3195.2	2356.4	923.2	268.2	92.9
68°	3479.2	3752.6	3940.5	3954.8	3942.7	3765.8	3160.3	2301.5	849.9	251.8	87.6
69°	3279.1	3614.8	3904.1	3955.3	3924.2	3644.9	3049.5	2158.5	675.1	214.8	80.8
70°	3078.5	3436.4	3727.3	3821.2	3782.7	3411.1	2909.6	1930.9	556.9	183.7	72.8
71°	2800.9	3104.9	3491.9	3548.3	3501.9	3145.0	2620.3	1690.8	433.4	155.7	64.9
72°	2424.0	2682.1	3051.6	3188.3	3119.7	2762.3	2327.9	1397.3	351.0	130.9	59.1
72.5°	2237.1	2501.6	2857.9	2869.0	2882.2	2596.1	2203.9	1227.3	306.2	121.4	57.5
73°	2059.7	2318.9	2627.2	2666.3	2610.3	2315.8	2018.6	1097.4	279.8	110.9	55.4
74°	1669.1	1816.9	2072.4	2110.4	2061.3	1888.2	1649.6	841.4	222.8	95.5	50.7
75°	1313.3	1394.6	1625.8	1602.6	1529.2	1468.5	1279.0	642.9	180.5	83.9	47.0



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	590.2	639.2	677.8	677.8	682.0	650.9	589.6	295.1	111.4	60.7	38.5
80°	224.9	251.8	260.2	260.8	264.5	274.0	255.0	145.2	66.0	43.3	31.1
82.5°	163.1	228.0	245.5	232.8	233.8	211.1	97.7	64.4	41.7	30.1	22.7
85°	147.8	198.5	210.1	208.5	209.0	195.3	57.5	31.7	24.3	19.0	15.8
87.5°	71.8	70.2	74.4	83.9	81.8	106.1	48.6	15.8	10.6	7.9	7.9
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):

	135°	145°	155°	165°	175°	180°
0°	449.7	449.7	449.7	449.7	449.7	449.7
2.5°	447.1	446.6	454.0	446.6	450.8	447.6
5°	452.4	454.5	456.1	459.2	451.9	459.2
7.5°	468.2	470.3	470.9	473.5	470.3	469.8
10°	480.4	485.6	488.8	478.2	484.6	484.1
12.5°	504.1	498.8	498.3	496.2	490.4	488.3
15°	521.0	513.1	508.3	499.9	493.0	490.4
17.5°	544.8	529.5	509.9	492.5	480.4	470.9
20°	559.5	532.1	493.0	472.4	454.0	458.2
22.5°	569.0	529.5	477.7	451.3	432.9	438.1
25°	572.2	516.3	467.2	434.4	416.5	412.8
27.5°	563.2	500.9	446.6	409.6	393.8	397.0
30°	559.0	478.8	427.6	391.2	370.0	373.2
32.5°	547.9	456.1	402.2	365.3	350.0	344.7
35°	532.1	437.1	378.0	343.1	324.6	320.4
37.5°	512.6	413.3	356.8	314.6	298.2	295.1
40°	483.5	384.8	326.2	289.8	270.8	270.3
42.5°	458.2	357.4	297.7	260.2	241.2	242.3
45°	426.0	320.4	265.0	232.8	213.8	214.8
47.5°	384.8	286.1	233.8	198.0	182.1	181.1
50°	336.3	247.0	195.8	165.2	152.0	149.4
52.5°	289.8	207.5	160.5	133.0	121.9	120.9
55°	231.2	161.5	125.1	104.5	96.1	96.6
56°	210.1	148.9	114.0	95.5	89.2	89.2
57°	190.0	132.0	103.5	88.2	82.3	82.3
58°	167.9	116.1	94.0	79.7	77.1	75.0
59°	152.6	105.6	85.0	75.5	71.3	70.7
60°	134.6	95.0	79.2	70.7	67.6	67.0
61°	119.3	85.5	72.8	66.0	64.9	64.9
62°	106.6	79.2	67.6	63.9	63.3	61.8
63°	95.5	72.8	64.9	60.7	59.1	60.7
64°	85.5	67.0	62.8	59.6	57.5	58.6
65°	77.6	64.4	60.2	58.1	56.0	56.5
66°	72.3	60.2	58.1	55.4	54.4	54.9
67°	65.5	58.1	56.0	53.3	52.8	53.3
67.5°	63.3	56.5	54.9	52.3	51.7	52.3
68°	61.8	55.4	54.4	51.7	51.2	50.7
69°	57.5	53.3	51.7	50.7	49.6	49.1
70°	53.8	51.2	50.1	48.6	47.5	47.0
71°	51.7	48.6	48.0	46.5	45.4	44.9
72°	49.1	47.0	45.9	43.8	43.3	43.8
72.5°	48.6	45.9	45.4	43.3	42.8	42.8
73°	47.0	43.8	44.3	42.2	41.2	42.2
74°	43.8	42.8	41.7	40.1	39.6	39.6
75°	41.2	40.1	39.1	38.0	38.0	38.0



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	34.8	34.3	34.8	32.7	32.2	31.7
80°	28.0	28.0	28.5	26.9	25.9	25.3
82.5°	21.1	21.6	22.7	21.1	20.1	19.0
85°	13.7	14.3	14.3	12.7	14.8	13.7
87.5°	6.9	7.4	6.9	6.3	7.4	7.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)