

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: P676131

Luminaire Tested: **CCW-SA-1B-740-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676131
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-740-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
T1 distribution lens
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

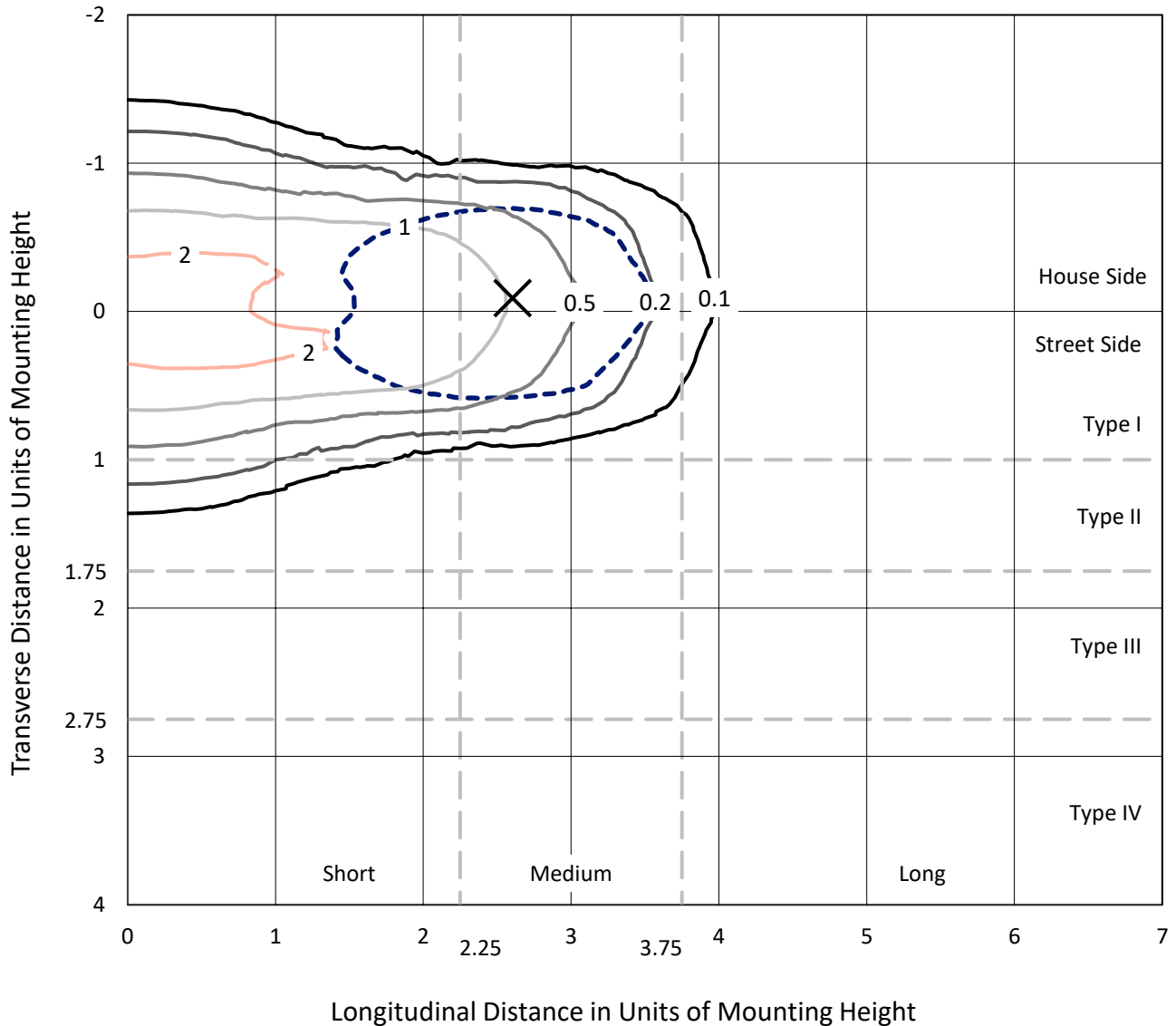
Lumens per Lamp: N/A
Luminaire Lumens: 3363 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 24
Input Voltage (V): 120
Input Current (A_{in}): 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

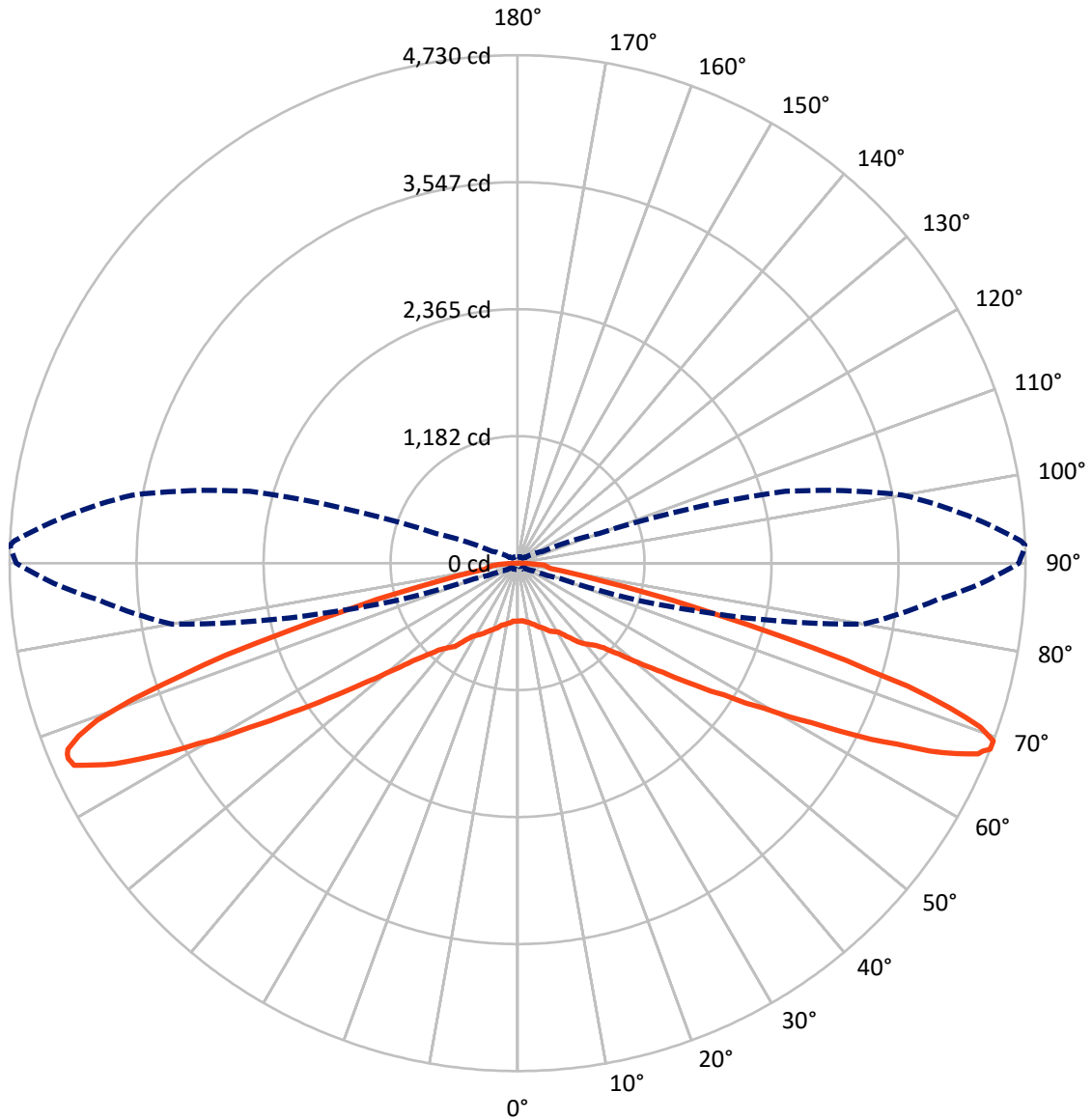
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.6 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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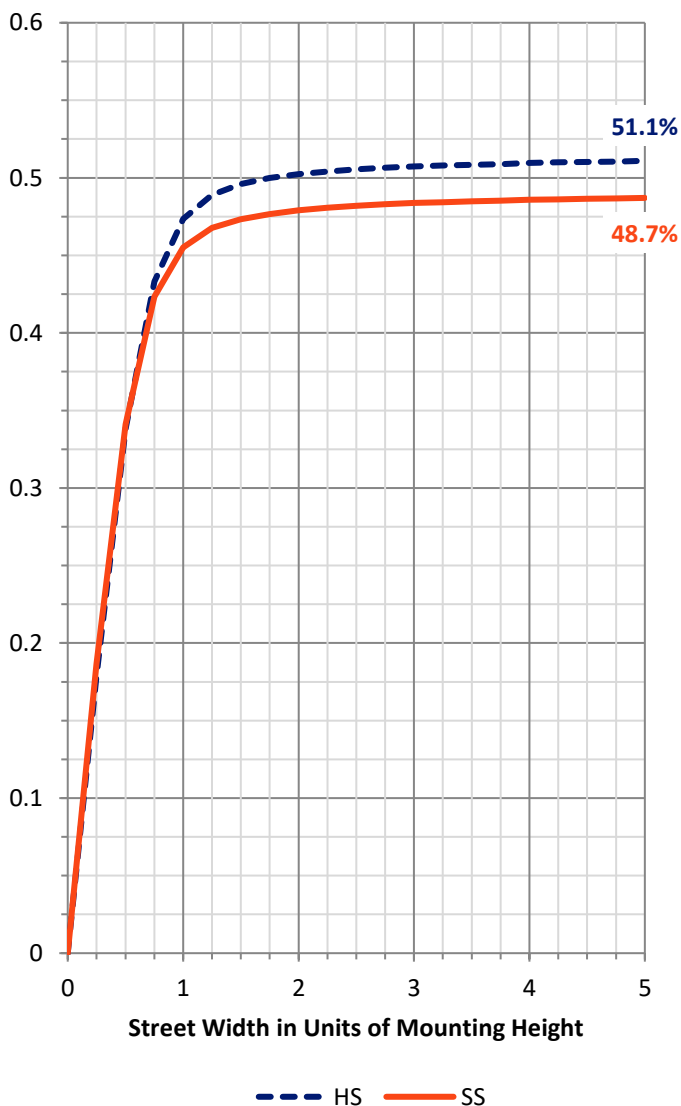
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1731.9	0.0	1731.9
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	1631.1	0.0	1631.1
	% Fixture	48.5	0.0	48.5
Total	Lumens	3363.0	0.0	3363.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	1.6
10°-20°	174.5	5.2
20°-30°	297.7	8.9
30°-40°	415.7	12.4
40°-50°	528.8	15.7
50°-60°	668.6	19.9
60°-70°	824.6	24.5
70°-80°	360.2	10.7
80°-90°	39.1	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°	3363.0	100.0
0°-180°	3363.0	100.0



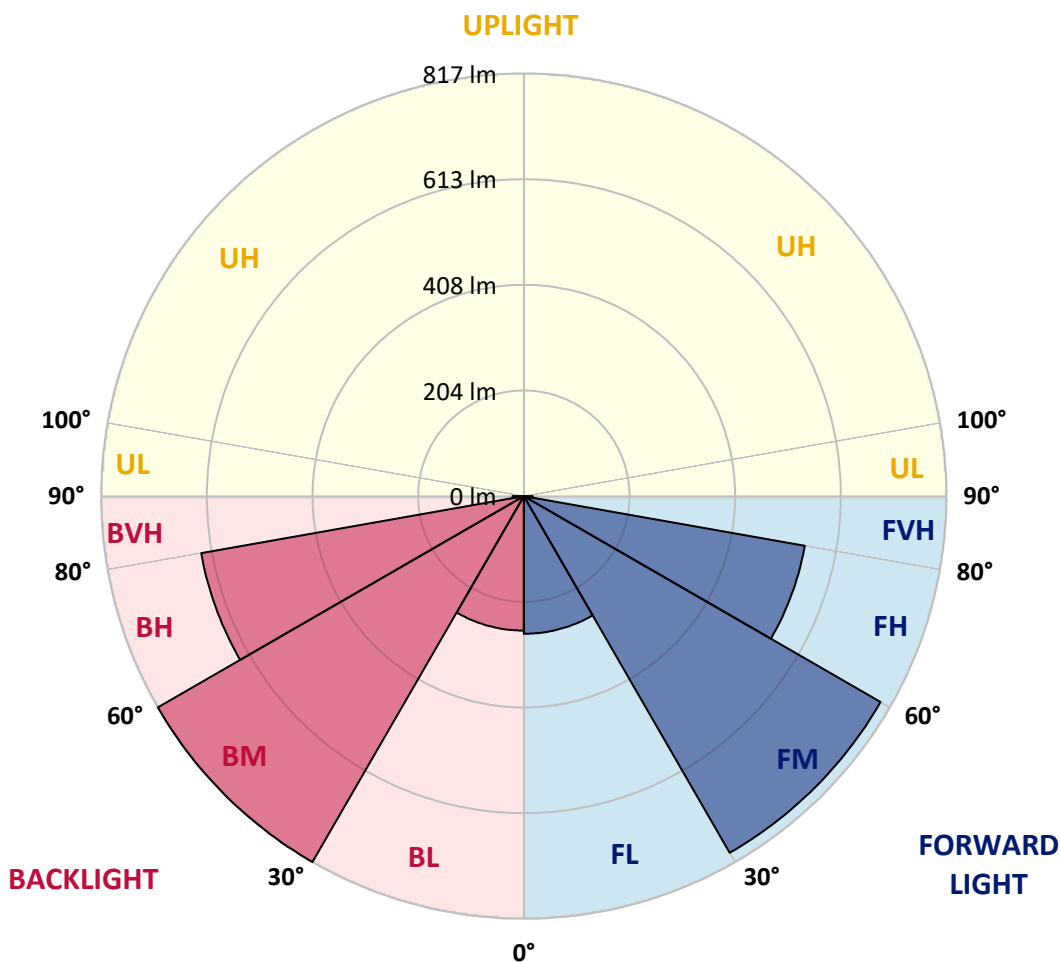
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	266.2	7.9			
FM (30°-60°)	796.2	23.7			
FH (60°-80°)	551.5	16.4			G0/660
FVH (80°-90°)	17.3	0.5			G1/100
BL (0°-30°)	259.9	7.7	B1/500		
BM (30°-60°)	817.0	24.3	B1/1000		
BH (60°-80°)	633.3	18.8	B2/1000		G2/1000
BVH (80°-90°)	21.7	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°	537.8	537.8	537.8	537.8	537.8	537.8	537.8	537.8	537.8	537.8	537.8
2.5°	549.1	548.5	550.4	551.7	546.0	547.9	546.6	545.4	540.9	539.0	535.3
5°	564.3	566.2	572.5	566.8	569.3	566.2	556.1	559.2	553.6	552.3	548.5
7.5°	590.8	587.0	595.8	589.5	591.4	585.1	580.7	575.0	573.8	564.9	565.6
10°	596.5	604.1	607.8	606.6	607.8	611.0	602.8	594.0	582.0	579.4	570.6
12.5°	592.7	599.6	609.7	617.9	623.6	624.9	621.7	619.8	614.8	600.3	599.6
15°	588.9	583.9	590.2	618.6	637.5	650.1	654.5	643.8	645.1	626.1	618.6
17.5°	563.7	556.1	580.7	608.5	631.8	659.6	681.1	677.9	677.9	662.8	652.0
20°	530.2	542.8	555.5	590.8	633.7	675.4	716.4	714.5	706.9	702.5	679.2
22.5°	501.8	507.5	530.8	568.1	621.7	679.8	728.4	763.1	745.4	727.8	713.9
25°	482.2	477.2	506.8	545.4	610.4	672.2	751.1	787.1	796.6	783.3	756.8
27.5°	454.5	454.5	477.8	514.4	573.8	668.4	773.2	828.1	842.0	822.4	783.9
30°	422.9	426.7	446.9	488.5	546.6	640.7	782.1	875.5	886.8	869.8	830.0
32.5°	398.3	398.3	421.0	465.2	527.7	628.0	776.4	922.2	943.6	931.0	890.0
35°	371.8	369.9	386.3	434.9	497.4	603.4	774.5	959.4	1007.4	1008.0	965.1
37.5°	333.9	341.5	362.3	400.8	473.4	579.4	768.8	1004.2	1090.1	1104.6	1074.9
40°	308.7	311.8	330.7	373.0	436.2	551.0	760.6	1040.8	1145.0	1194.9	1153.8
42.5°	272.0	276.5	291.0	343.4	400.2	510.6	724.6	1066.7	1223.3	1280.1	1245.3
45°	233.5	236.1	257.5	300.4	361.7	462.7	686.1	1108.4	1299.0	1415.1	1394.9
47.5°	187.5	188.7	207.0	251.8	315.6	414.7	626.8	1106.5	1360.2	1550.2	1607.0
50°	146.4	149.6	163.5	200.1	260.1	356.0	558.0	1091.3	1437.2	1704.2	1815.9
52.5°	116.8	117.4	126.2	155.3	200.7	297.3	484.1	1043.4	1509.8	1855.1	2072.2
55°	96.6	96.6	101.6	119.3	154.0	226.0	397.7	963.8	1518.7	2021.7	2351.8
56°	92.8	91.5	95.9	111.1	138.9	203.9	357.3	910.2	1531.3	2098.7	2492.0
57°	87.7	88.4	90.9	101.6	125.0	180.5	312.4	857.8	1522.4	2161.8	2595.5
58°	85.2	83.9	89.0	95.9	110.5	160.3	281.5	795.9	1508.6	2213.6	2746.3
59°	81.4	80.8	83.9	90.3	102.9	142.7	243.6	729.0	1481.4	2280.5	2858.7
60°	80.2	79.5	80.8	85.8	94.7	125.0	214.6	650.8	1408.8	2349.3	2998.2
61°	76.4	77.0	79.5	82.7	89.6	112.4	193.1	570.6	1361.5	2407.4	3152.2
62°	77.0	75.7	77.0	79.5	84.6	103.5	169.2	491.7	1276.9	2473.0	3267.7
63°	73.2	72.6	74.5	77.6	80.2	93.4	147.7	424.8	1181.0	2488.2	3365.5
64°	72.0	71.3	72.0	76.4	77.0	87.7	130.7	362.9	1042.1	2514.1	3491.1
65°	68.8	68.8	70.1	72.0	74.5	82.7	116.8	315.0	903.9	2445.9	3529.6
66°	66.3	66.9	66.9	70.1	72.0	77.0	107.3	267.6	771.3	2337.3	3566.9
67°	64.4	64.4	65.0	67.5	69.4	72.6	96.6	231.6	650.8	2207.9	3509.4
67.5°	63.1	63.8	63.8	66.3	68.2	72.6	92.2	219.7	582.0	2065.9	3466.5
68°	61.2	61.9	61.9	64.4	66.3	70.1	89.0	200.7	536.5	1973.7	3387.0
69°	60.0	59.3	59.3	61.9	64.4	66.9	82.7	175.5	426.7	1716.2	3270.9
70°	56.2	56.2	57.4	59.3	61.2	63.8	76.4	154.6	361.0	1420.8	2971.7
71°	54.3	53.7	54.3	56.2	58.1	61.2	70.1	137.0	295.4	1179.7	2677.5
72°	50.5	51.8	51.8	53.7	55.5	57.4	65.6	119.3	248.1	943.0	2353.7
72.5°	49.9	49.9	50.5	52.4	53.7	56.8	63.1	114.2	226.6	831.3	2218.0
73°	48.0	48.0	48.6	50.5	51.8	54.9	61.2	102.9	206.4	739.8	1964.3
74°	46.1	45.4	45.4	48.0	48.6	51.8	57.4	90.9	172.9	557.3	1576.7
75°	42.9	42.9	43.6	44.8	45.4	48.0	53.0	80.8	145.8	432.4	1233.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	35.3	36.0	36.6	37.9	37.9	39.8	43.6	56.2	89.0	219.0	566.2
80°	25.9	27.1	29.0	30.9	30.3	30.3	34.1	40.4	53.0	98.5	217.1
82.5°	20.8	22.1	20.2	22.7	22.7	21.5	24.6	29.7	36.0	48.6	77.6
85°	13.9	14.5	12.0	13.9	13.3	13.3	16.4	17.7	22.1	27.1	38.5
87.5°	6.3	6.3	5.0	5.7	5.7	5.7	8.2	6.3	9.5	13.3	22.7
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):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	537.8	537.8	537.8	537.8	537.8	537.8	537.8	537.8	537.8	537.8	537.8
2.5°	539.0	541.6	541.6	539.0	537.1	539.0	537.8	534.6	537.8	539.0	539.7
5°	546.6	541.6	544.1	538.4	542.2	541.6	540.3	543.5	544.1	544.1	548.5
7.5°	554.8	561.1	552.9	553.6	555.5	547.9	550.4	551.7	549.1	554.2	558.0
10°	569.3	571.9	569.3	559.9	566.2	561.1	559.2	564.9	563.7	564.9	570.6
12.5°	582.6	587.0	580.1	579.4	576.3	571.9	574.4	573.8	582.6	583.9	590.8
15°	609.7	598.4	595.8	595.2	594.0	592.1	593.3	594.0	605.3	607.2	623.6
17.5°	633.1	631.2	617.3	622.4	622.4	614.8	611.6	622.4	631.2	640.7	652.0
20°	657.1	655.2	640.0	640.7	635.0	641.9	638.1	648.2	663.4	666.5	676.6
22.5°	685.5	677.3	666.5	667.8	669.7	664.6	662.1	676.0	691.2	700.0	700.6
25°	730.3	709.5	700.6	701.9	699.4	695.6	697.5	715.1	722.7	741.7	737.9
27.5°	754.3	742.3	736.0	721.5	722.1	716.4	724.0	750.5	765.6	780.2	751.1
30°	783.3	775.7	748.0	742.9	742.3	739.8	753.6	787.7	810.5	818.7	777.0
32.5°	840.1	809.8	802.9	798.5	788.4	791.5	798.5	843.3	879.3	877.4	801.0
35°	905.1	884.3	864.7	861.0	859.7	850.9	862.8	915.2	943.0	934.8	809.8
37.5°	1009.3	977.7	951.2	936.7	934.2	927.9	956.3	997.9	1033.9	1001.7	816.8
40°	1060.4	1025.1	1000.4	991.6	993.5	1002.3	1030.1	1093.9	1109.6	1050.3	822.4
42.5°	1133.6	1095.1	1046.5	1042.1	1036.4	1040.8	1094.5	1180.3	1193.6	1116.0	801.0
45°	1263.7	1205.6	1149.4	1124.2	1125.4	1137.4	1220.7	1314.8	1290.2	1161.4	766.9
47.5°	1427.8	1342.6	1297.1	1263.0	1279.4	1266.2	1398.7	1473.8	1389.9	1218.8	725.2
50°	1674.6	1555.3	1493.4	1452.4	1459.3	1470.7	1605.1	1668.9	1500.4	1246.6	661.5
52.5°	1985.7	1832.4	1741.5	1686.6	1691.6	1716.2	1889.8	1870.2	1626.6	1270.0	576.3
55°	2358.1	2200.3	2024.2	2001.5	1995.8	2054.5	2245.8	2081.1	1740.2	1232.7	487.9
56°	2555.1	2387.2	2204.1	2157.4	2143.5	2184.6	2409.3	2186.5	1779.3	1191.1	445.6
57°	2722.3	2562.0	2361.3	2281.8	2299.4	2376.5	2571.5	2285.6	1815.3	1148.1	405.9
58°	2952.1	2769.1	2557.0	2496.4	2480.6	2541.8	2746.3	2385.3	1827.3	1104.0	369.2
59°	3181.2	2961.6	2770.3	2659.9	2664.3	2776.0	2918.6	2504.0	1845.6	1047.8	322.5
60°	3355.4	3245.0	2989.3	2906.7	2895.3	3056.9	3090.3	2583.5	1865.2	972.0	289.7
61°	3602.2	3458.3	3220.4	3113.7	3144.6	3274.0	3275.9	2683.2	1836.1	876.1	249.3
62°	3779.6	3741.7	3491.8	3390.2	3380.7	3552.4	3469.0	2770.9	1810.9	785.2	220.3
63°	3987.3	3987.3	3759.4	3679.9	3684.3	3820.0	3553.0	2858.7	1781.9	684.8	193.8
64°	4095.2	4230.9	4020.7	3909.0	3938.0	4055.4	3702.6	2916.1	1692.2	583.2	170.4
65°	4188.6	4392.5	4275.7	4224.0	4179.8	4249.2	3832.0	2969.8	1555.3	496.1	151.5
66°	4267.5	4544.6	4506.1	4450.6	4446.1	4430.4	3857.2	2967.9	1413.9	419.1	132.6
67°	4227.7	4547.8	4617.8	4641.2	4634.2	4467.6	3813.1	2900.3	1232.7	354.1	118.0
67.5°	4191.8	4521.9	4684.7	4671.5	4700.5	4499.2	3820.6	2817.7	1104.0	320.6	111.1
68°	4160.2	4487.2	4711.9	4728.9	4714.4	4502.9	3779.0	2752.0	1016.2	301.1	104.8
69°	3921.0	4322.4	4668.3	4729.5	4692.3	4358.4	3646.4	2581.0	807.3	256.9	96.6
70°	3681.1	4109.1	4456.9	4569.2	4523.1	4078.8	3479.1	2308.9	665.9	219.7	87.1
71°	3349.1	3712.7	4175.4	4242.9	4187.4	3760.7	3133.3	2021.7	518.2	186.2	77.6
72°	2898.4	3207.1	3648.9	3812.4	3730.4	3303.0	2783.6	1670.8	419.7	156.5	70.7
72.5°	2675.0	2991.2	3417.3	3430.5	3446.3	3104.2	2635.2	1467.5	366.1	145.2	68.8
73°	2462.9	2772.8	3141.5	3188.2	3121.3	2769.1	2413.7	1312.3	334.5	132.6	66.3
74°	1995.8	2172.6	2478.1	2523.5	2464.8	2257.8	1972.5	1006.1	266.4	114.2	60.6
75°	1570.4	1667.6	1944.1	1916.3	1828.6	1756.0	1529.4	768.8	215.9	100.4	56.2



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	705.7	764.4	810.5	810.5	815.5	778.3	705.0	352.8	133.2	72.6	46.1
80°	268.9	301.1	311.2	311.8	316.2	327.6	304.9	173.6	78.9	51.8	37.2
82.5°	195.0	272.7	293.5	278.4	279.6	252.5	116.8	77.0	49.9	36.0	27.1
85°	176.7	237.3	251.2	249.3	250.0	233.5	68.8	37.9	29.0	22.7	18.9
87.5°	85.8	83.9	89.0	100.4	97.8	126.9	58.1	18.9	12.6	9.5	9.5
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°	537.8	537.8	537.8	537.8	537.8	537.8
2.5°	534.6	534.0	542.8	534.0	539.0	535.3
5°	540.9	543.5	545.4	549.1	540.3	549.1
7.5°	559.9	562.4	563.0	566.2	562.4	561.8
10°	574.4	580.7	584.5	571.9	579.4	578.8
12.5°	602.8	596.5	595.8	593.3	586.4	583.9
15°	623.0	613.5	607.8	597.7	589.5	586.4
17.5°	651.4	633.1	609.7	588.9	574.4	563.0
20°	669.1	636.2	589.5	564.9	542.8	547.9
22.5°	680.4	633.1	571.2	539.7	517.6	523.9
25°	684.2	617.3	558.6	519.5	498.0	493.6
27.5°	673.5	599.0	534.0	489.8	470.9	474.7
30°	668.4	572.5	511.3	467.7	442.5	446.3
32.5°	655.2	545.4	481.0	436.8	418.5	412.2
35°	636.2	522.6	451.9	410.3	388.2	383.1
37.5°	612.9	494.2	426.7	376.2	356.6	352.8
40°	578.2	460.1	390.1	346.5	323.8	323.2
42.5°	547.9	427.3	356.0	311.2	288.5	289.7
45°	509.4	383.1	316.9	278.4	255.6	256.9
47.5°	460.1	342.1	279.6	236.7	217.8	216.5
50°	402.1	295.4	234.2	197.6	181.8	178.6
52.5°	346.5	248.1	191.9	159.1	145.8	144.5
55°	276.5	193.1	149.6	125.0	114.9	115.5
56°	251.2	178.0	136.3	114.2	106.7	106.7
57°	227.2	157.8	123.7	105.4	98.5	98.5
58°	200.7	138.9	112.4	95.3	92.2	89.6
59°	182.4	126.2	101.6	90.3	85.2	84.6
60°	161.0	113.6	94.7	84.6	80.8	80.2
61°	142.7	102.3	87.1	78.9	77.6	77.6
62°	127.5	94.7	80.8	76.4	75.7	73.8
63°	114.2	87.1	77.6	72.6	70.7	72.6
64°	102.3	80.2	75.1	71.3	68.8	70.1
65°	92.8	77.0	72.0	69.4	66.9	67.5
66°	86.5	72.0	69.4	66.3	65.0	65.6
67°	78.3	69.4	66.9	63.8	63.1	63.8
67.5°	75.7	67.5	65.6	62.5	61.9	62.5
68°	73.8	66.3	65.0	61.9	61.2	60.6
69°	68.8	63.8	61.9	60.6	59.3	58.7
70°	64.4	61.2	60.0	58.1	56.8	56.2
71°	61.9	58.1	57.4	55.5	54.3	53.7
72°	58.7	56.2	54.9	52.4	51.8	52.4
72.5°	58.1	54.9	54.3	51.8	51.1	51.1
73°	56.2	52.4	53.0	50.5	49.2	50.5
74°	52.4	51.1	49.9	48.0	47.3	47.3
75°	49.2	48.0	46.7	45.4	45.4	45.4



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	41.7	41.0	41.7	39.1	38.5	37.9
80°	33.5	33.5	34.1	32.2	30.9	30.3
82.5°	25.2	25.9	27.1	25.2	24.0	22.7
85°	16.4	17.0	17.0	15.1	17.7	16.4
87.5°	8.2	8.8	8.2	7.6	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)