

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: P180453

Luminaire Tested: **ICS-F04-LED-E1-SL2-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180453
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F04-LED-E1-SL2-HSS
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5449.5 lumens
Efficiency: N/A
Efficacy: 53.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

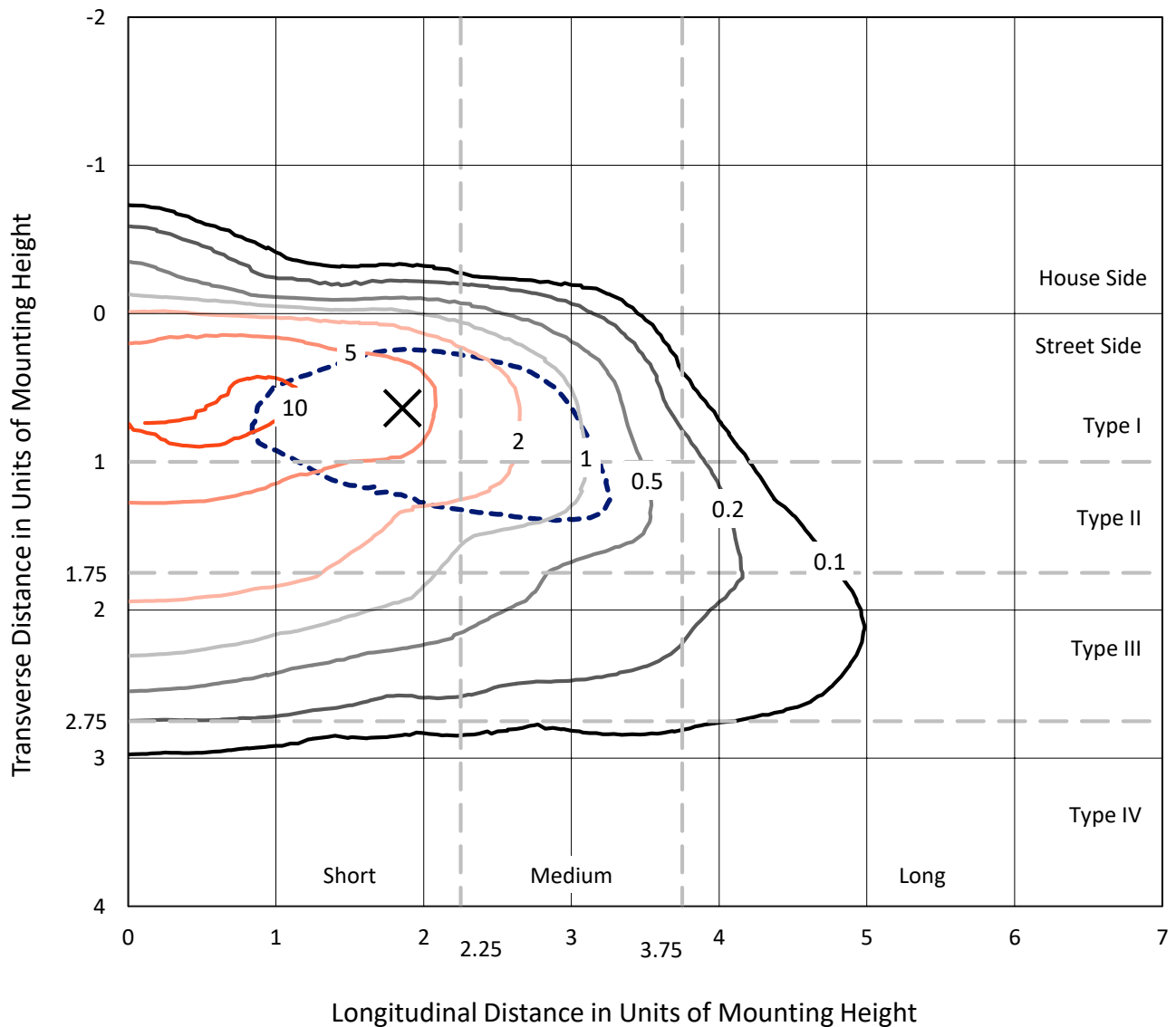
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

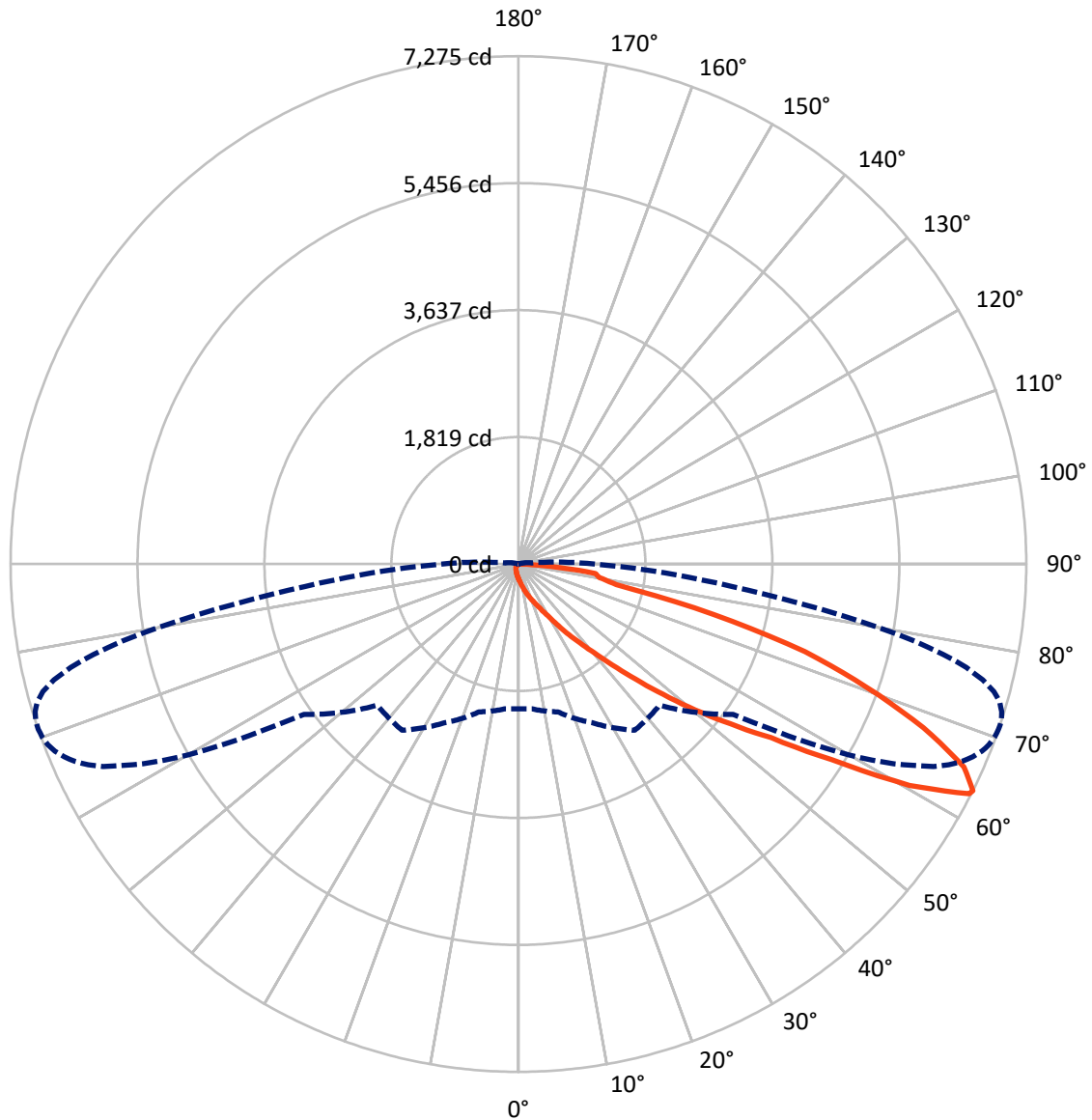
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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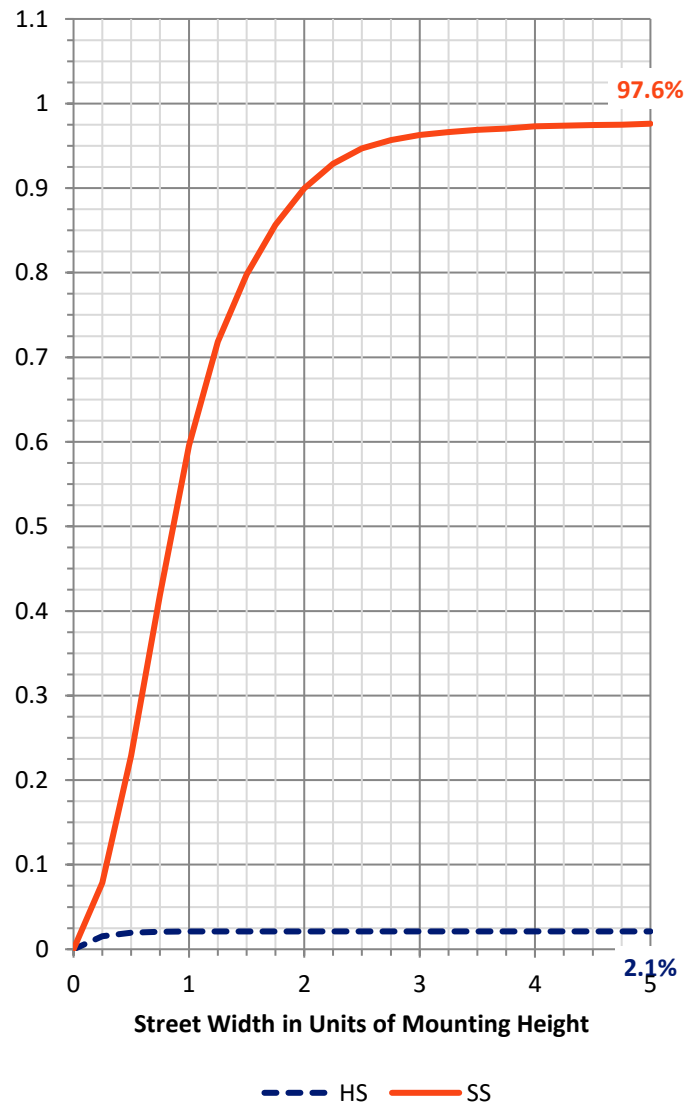
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	115.7	0.0	115.7
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	5333.8	0.0	5333.8
	% Fixture	97.9	0.0	97.9
Total	Lumens	5449.5	0.0	5449.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.1	0.4
10°-20°	89.6	1.6
20°-30°	182.0	3.3
30°-40°	444.7	8.2
40°-50°	994.4	18.2
50°-60°	1398.3	25.7
60°-70°	1644.3	30.2
70°-80°	593.7	10.9
80°-90°	79.4	1.5
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°	5449.5	100.0
0°-180°	5449.5	100.0



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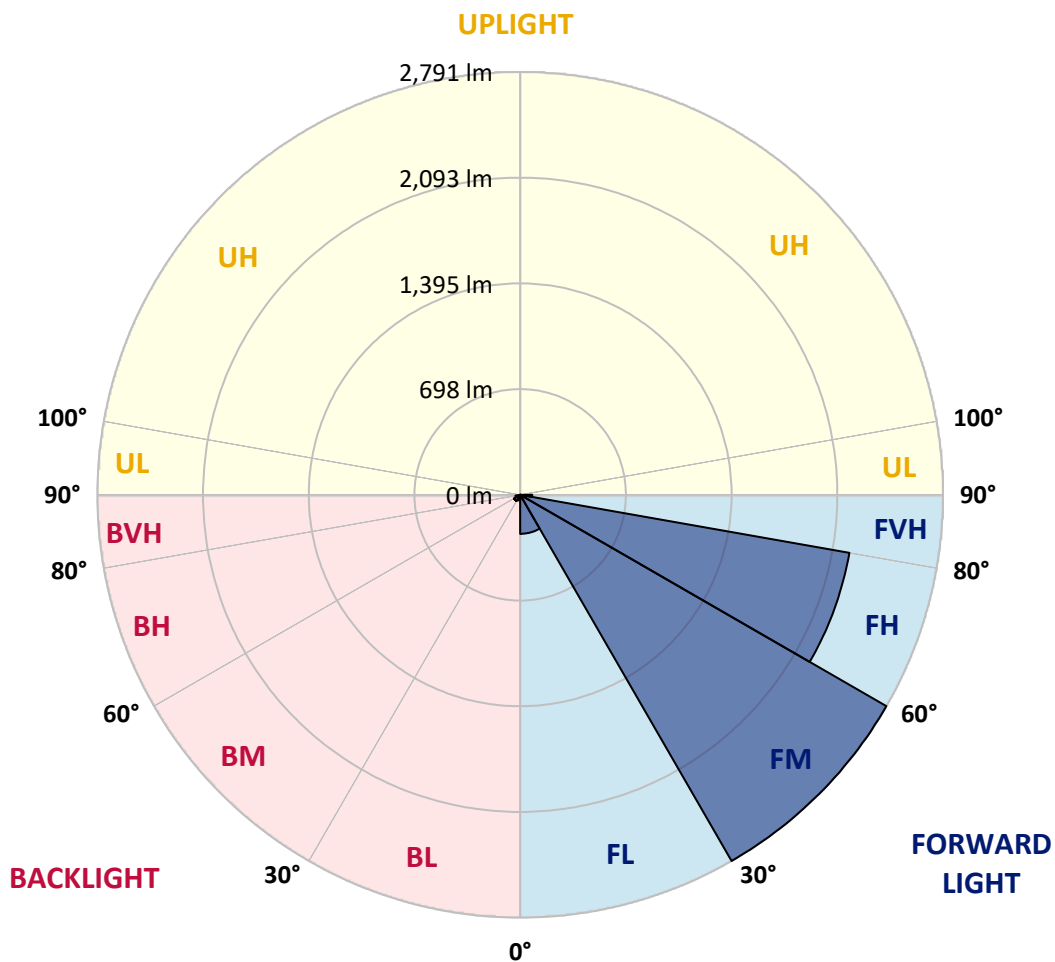
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	257.5	4.7			
FM (30°-60°)	2790.8	51.2			
FH (60°-80°)	2206.3	40.5			G2/5000
FVH (80°-90°)	79.2	1.5			G1/100
BL (0°-30°)	37.2	0.7	B0/110		
BM (30°-60°)	46.6	0.9	B0/220		
BH (60°-80°)	31.7	0.6	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0
2.5°	273.4	276.4	274.4	269.5	263.5	255.6	248.7	248.7	247.7	244.7	245.7
5°	358.6	359.6	355.7	343.8	332.9	316.0	297.2	295.2	293.2	290.3	289.3
7.5°	441.8	445.8	441.8	429.0	407.2	381.4	351.7	348.7	342.8	342.8	338.8
10°	527.0	527.0	523.1	508.2	488.4	451.8	414.1	409.2	402.2	400.2	394.3
12.5°	587.5	587.5	585.5	577.6	561.7	529.0	483.5	478.5	469.6	466.6	459.7
15°	611.3	611.3	612.2	619.2	620.2	605.3	557.8	553.8	544.9	537.0	534.0
17.5°	626.1	625.1	625.1	635.0	652.9	662.8	632.1	628.1	618.2	614.2	604.3
20°	658.8	656.8	650.9	650.9	667.7	702.4	702.4	701.4	690.5	687.5	682.6
22.5°	707.3	705.4	687.5	672.7	680.6	724.2	764.8	762.8	758.9	754.9	751.9
25°	786.6	779.7	749.0	705.4	698.4	745.0	812.4	817.3	820.3	820.3	822.3
27.5°	906.5	897.6	843.1	761.8	731.1	778.7	864.9	874.8	883.7	885.7	894.6
30°	1072.9	1057.1	978.8	859.9	789.6	828.2	942.1	953.0	965.9	969.9	983.7
32.5°	1346.3	1337.4	1262.1	1083.8	933.2	925.3	1050.1	1064.0	1080.8	1087.8	1104.6
35°	1762.4	1764.4	1703.0	1542.5	1334.5	1225.5	1243.3	1255.2	1261.1	1281.9	1290.9
37.5°	2044.8	2049.7	2063.6	2000.2	1851.6	1740.6	1600.9	1613.8	1583.1	1586.1	1587.1
40°	2199.3	2215.2	2296.4	2357.8	2345.9	2281.5	2169.6	2176.5	2119.1	2106.2	2043.8
42.5°	2302.3	2323.2	2452.9	2643.1	2740.2	2798.7	2772.9	2770.0	2725.4	2708.5	2656.0
45°	2366.7	2385.6	2549.0	2829.4	3053.3	3223.7	3294.0	3301.9	3264.3	3247.5	3203.9
47.5°	2363.8	2385.6	2560.9	2898.7	3228.6	3501.1	3699.2	3709.1	3731.9	3717.0	3720.0
50°	2233.0	2253.8	2430.1	2780.8	3177.1	3627.9	3990.5	4022.2	4058.8	4083.6	4095.5
52.5°	2074.5	2089.4	2245.9	2578.7	2957.2	3575.4	4162.9	4217.3	4271.8	4318.4	4351.1
55°	2016.0	2032.9	2155.7	2432.1	2780.8	3355.4	4243.1	4323.3	4400.6	4476.9	4539.3
57.5°	2046.8	2062.6	2150.8	2362.8	2675.8	3123.6	4265.9	4390.7	4517.5	4641.4	4764.2
60°	2159.7	2176.5	2251.8	2427.2	2648.1	2989.9	4176.7	4383.8	4594.8	4810.8	5013.9
62.5°	2115.1	2122.0	2233.0	2540.1	2846.2	2876.0	3852.8	4142.0	4464.0	4796.9	5124.8
63°	2072.5	2080.4	2193.4	2509.4	2906.7	2859.1	3752.7	4057.8	4397.6	4756.3	5112.9
65°	1879.3	1880.3	1966.5	2216.2	2839.3	2888.8	3306.9	3598.2	3988.5	4418.4	4869.2
67.5°	1402.8	1395.9	1479.1	1669.3	2229.0	2889.8	2838.3	3001.8	3273.2	3654.6	4058.8
70°	497.3	486.4	621.2	884.7	1388.9	2363.8	2439.1	2450.0	2525.3	2731.3	2984.9
72.5°	161.5	164.5	198.1	324.0	640.0	1591.0	2208.2	2174.6	2154.7	2153.7	2187.4
75°	64.4	65.4	79.3	143.6	287.3	766.8	1933.8	1952.6	1959.6	1969.5	1980.4
77.5°	30.7	33.7	44.6	80.2	142.7	379.4	1384.0	1543.5	1634.6	1705.0	1747.6
80°	10.9	12.9	24.8	49.5	66.4	174.4	729.1	879.7	1013.5	1185.8	1334.5
82.5°	0.0	0.0	5.0	34.7	36.7	70.3	299.2	350.7	401.2	520.1	667.7
85°	0.0	0.0	0.0	9.9	10.9	11.9	101.0	121.9	136.7	159.5	184.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.0	5.9	14.9	22.8
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0
2.5°	243.7	242.7	242.7	240.7	239.7	237.8	236.8	233.8	232.8	232.8	232.8
5°	288.3	284.3	282.3	277.4	274.4	273.4	268.5	266.5	263.5	264.5	259.6
7.5°	337.8	330.9	327.9	321.0	319.0	312.1	310.1	305.1	302.2	296.2	294.2
10°	392.3	383.4	378.4	367.5	364.6	359.6	353.7	347.7	342.8	336.8	333.9
12.5°	454.7	446.8	442.8	428.0	421.0	414.1	406.2	398.3	390.3	385.4	378.4
15°	528.0	515.2	511.2	497.3	485.4	476.5	465.6	455.7	449.8	439.9	432.9
17.5°	600.4	587.5	584.5	563.7	550.8	544.9	533.0	520.1	509.2	499.3	488.4
20°	672.7	663.8	655.8	636.0	622.1	612.2	596.4	583.5	574.6	560.7	546.9
22.5°	745.0	736.1	730.1	709.3	696.5	682.6	668.7	654.8	642.0	625.1	609.3
25°	819.3	813.4	810.4	791.6	779.7	766.8	752.9	737.1	721.2	702.4	685.6
27.5°	896.6	898.6	892.6	888.6	875.8	866.8	845.1	834.2	822.3	799.5	778.7
30°	994.6	1000.6	998.6	1001.6	993.7	987.7	970.9	957.0	943.1	921.3	897.6
32.5°	1118.5	1126.4	1130.4	1141.3	1137.3	1135.3	1130.4	1110.6	1100.6	1063.0	1053.1
35°	1309.7	1305.7	1322.6	1331.5	1327.5	1325.5	1319.6	1308.7	1296.8	1270.1	1245.3
37.5°	1558.3	1562.3	1568.3	1550.4	1538.5	1537.5	1519.7	1508.8	1492.0	1462.2	1432.5
40°	2014.1	1989.3	1961.6	1886.3	1853.6	1834.7	1782.2	1767.4	1738.7	1698.0	1667.3
42.5°	2606.5	2581.7	2498.5	2372.7	2305.3	2212.2	2169.6	2117.1	2076.5	2010.1	1974.4
45°	3195.0	3123.6	3113.7	2967.1	2883.9	2761.0	2684.8	2596.6	2504.4	2417.3	2353.9
47.5°	3691.3	3675.4	3626.9	3537.7	3460.5	3357.4	3259.3	3123.6	3028.5	2904.7	2790.8
50°	4088.6	4087.6	4069.7	4018.2	3953.8	3870.6	3784.4	3669.5	3561.5	3409.9	3288.1
52.5°	4385.8	4401.6	4407.6	4391.7	4366.9	4293.6	4250.0	4153.9	4062.8	3934.0	3802.2
55°	4603.7	4662.2	4691.9	4725.6	4718.6	4692.9	4690.9	4628.5	4586.9	4484.8	4391.7
57.5°	4873.2	4969.3	5061.4	5224.9	5230.8	5288.3	5318.0	5347.7	5355.6	5315.0	5284.3
60°	5216.0	5412.1	5586.5	5928.3	6017.4	6158.1	6249.2	6348.3	6432.5	6439.4	6437.5
62.5°	5457.7	5759.8	6041.2	6548.4	6721.8	6884.3	7006.1	7102.2	7160.7	7220.1	7247.8
63°	5464.6	5795.5	6094.7	6617.8	6800.1	6954.6	7070.5	7159.7	7221.1	7256.8	7274.6
65°	5297.2	5698.4	6055.1	6576.2	6747.5	6903.1	6963.5	7022.0	7051.7	7065.6	7013.1
67.5°	4489.8	4882.1	5298.2	5880.7	6027.3	6213.6	6263.1	6292.8	6306.7	6303.7	6259.1
70°	3357.4	3686.3	4149.0	4814.7	5008.9	5191.2	5304.1	5352.7	5368.5	5363.6	5297.2
72.5°	2344.0	2537.1	2918.6	3659.6	3924.1	4157.9	4297.6	4369.9	4384.8	4355.0	4293.6
75°	1968.5	1978.4	2064.6	2469.8	2717.4	2967.1	3124.6	3170.2	3140.5	3050.3	2893.8
77.5°	1757.5	1779.3	1779.3	1839.7	1888.2	1957.6	1972.5	1861.5	1732.7	1566.3	1431.5
80°	1474.1	1550.4	1603.9	1648.5	1653.5	1639.6	1602.9	1540.5	1441.4	1314.6	1174.0
82.5°	895.6	1046.2	1107.6	1337.4	1450.4	1526.6	1520.7	1437.5	1362.2	1230.4	1110.6
85°	225.9	243.7	264.5	343.8	385.4	470.6	524.1	548.8	557.8	512.2	463.6
87.5°	21.8	14.9	24.8	18.8	26.7	19.8	26.7	24.8	30.7	32.7	35.7
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0
2.5°	230.8	229.8	228.8	227.9	226.9	225.9	223.9	223.9	221.9	220.9	219.9
5°	256.6	254.6	253.6	251.6	248.7	246.7	243.7	239.7	236.8	235.8	233.8
7.5°	289.3	284.3	282.3	279.4	275.4	269.5	265.5	262.5	257.6	254.6	248.7
10°	325.9	321.0	315.0	309.1	303.1	296.2	291.3	287.3	279.4	275.4	268.5
12.5°	372.5	363.6	356.6	348.7	340.8	332.9	326.9	315.0	308.1	299.2	293.2
15°	420.0	412.1	404.2	394.3	382.4	369.5	363.6	352.7	343.8	329.9	322.0
17.5°	477.5	462.6	450.8	438.9	428.0	416.1	404.2	387.4	374.5	362.6	346.7
20°	534.0	516.1	503.3	487.4	471.6	452.7	438.9	427.0	409.2	393.3	376.5
22.5°	594.4	576.6	555.8	539.9	518.1	503.3	484.4	464.6	446.8	426.0	405.2
25°	667.7	648.9	625.1	604.3	579.6	558.7	536.0	513.2	491.4	467.6	440.9
27.5°	757.9	738.1	712.3	687.5	654.8	629.1	607.3	576.6	548.8	519.1	488.4
30°	871.8	850.0	818.3	782.6	749.9	721.2	690.5	649.9	619.2	583.5	543.9
32.5°	1020.4	994.6	952.0	918.4	877.7	840.1	797.5	756.9	713.3	666.7	621.2
35°	1207.6	1183.9	1134.3	1084.8	1040.2	995.6	942.1	895.6	834.2	777.7	719.2
37.5°	1401.8	1359.2	1313.6	1260.1	1204.7	1151.2	1085.8	1021.4	951.1	889.6	816.3
40°	1623.7	1572.2	1534.6	1477.1	1398.8	1322.6	1262.1	1181.9	1093.7	1011.5	925.3
42.5°	1927.9	1870.4	1803.0	1715.9	1659.4	1570.2	1492.0	1396.9	1281.0	1188.8	1084.8
45°	2279.6	2201.3	2135.9	2051.7	1983.3	1872.4	1781.2	1654.4	1538.5	1417.7	1290.9
47.5°	2680.8	2583.7	2488.6	2405.4	2296.4	2187.4	2071.5	1936.8	1788.2	1655.4	1504.8
50°	3141.5	3003.8	2872.0	2765.0	2615.4	2489.6	2363.8	2212.2	2047.7	1895.2	1723.8
52.5°	3653.6	3494.1	3319.8	3155.3	2982.0	2820.5	2668.9	2494.5	2311.3	2125.0	1933.8
55°	4271.8	4152.0	3946.9	3737.8	3506.0	3290.1	3094.9	2878.9	2656.0	2411.3	2210.2
57.5°	5239.7	5181.3	5009.9	4800.9	4498.7	4236.2	3905.3	3640.8	3317.8	2981.0	2721.4
60°	6551.4	6479.1	6383.0	6213.6	5973.8	5617.2	5252.6	4841.5	4350.1	3883.5	3440.6
62.5°	7250.8	7225.1	7146.8	7029.9	6806.0	6524.6	6157.1	5705.3	5150.6	4583.9	4019.2
63°	7271.6	7238.9	7171.6	7052.7	6855.5	6583.1	6222.5	5783.6	5240.7	4663.1	4086.6
65°	6990.3	6977.4	6909.0	6779.2	6644.5	6436.5	6157.1	5779.6	5323.9	4778.1	4204.5
67.5°	6199.7	6161.1	6056.1	6016.4	5922.3	5777.7	5564.7	5305.1	4979.2	4550.2	4054.9
70°	5243.7	5186.2	5054.5	4984.1	4869.2	4778.1	4648.3	4463.0	4261.9	3962.7	3593.2
72.5°	4230.2	4111.3	3990.5	3807.2	3646.7	3484.2	3340.6	3209.8	2988.9	2868.0	2587.7
75°	2747.2	2531.2	2324.1	2046.8	1797.1	1576.2	1361.2	1252.2	1025.4	933.2	801.5
77.5°	1303.7	1182.9	1020.4	894.6	734.1	599.4	489.4	367.5	288.3	225.9	172.4
80°	1052.1	950.1	852.0	738.1	617.2	492.4	377.5	282.3	200.1	138.7	98.1
82.5°	938.2	827.2	706.4	628.1	545.9	446.8	366.6	299.2	220.9	161.5	110.0
85°	364.6	307.1	236.8	193.2	150.6	123.8	111.9	77.3	60.4	47.6	36.7
87.5°	31.7	25.8	20.8	13.9	14.9	7.9	8.9	5.9	5.0	5.0	4.0
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0
2.5°	218.9	218.0	217.0	215.0	215.0	213.0	212.0	211.0	206.1	195.2	186.2
5°	229.8	227.9	225.9	222.9	220.9	218.0	216.0	213.0	202.1	181.3	163.5
7.5°	245.7	241.7	238.8	232.8	229.8	225.9	222.9	218.0	200.1	168.4	143.6
10°	264.5	257.6	252.6	245.7	239.7	234.8	229.8	222.9	198.1	154.5	125.8
12.5°	287.3	279.4	269.5	261.5	253.6	246.7	239.7	230.8	195.2	142.7	111.9
15°	310.1	298.2	291.3	280.4	269.5	259.6	249.7	241.7	196.2	129.8	100.1
17.5°	335.8	324.0	309.1	297.2	285.3	272.4	260.5	244.7	191.2	119.9	91.1
20°	360.6	343.8	329.9	315.0	298.2	282.3	267.5	253.6	187.2	110.0	83.2
22.5°	387.4	367.5	349.7	330.9	310.1	292.3	274.4	256.6	180.3	101.0	76.3
25°	420.0	397.3	371.5	348.7	326.9	305.1	282.3	260.5	173.4	93.1	71.3
27.5°	459.7	430.0	404.2	375.5	344.8	317.0	292.3	268.5	166.4	87.2	66.4
30°	510.2	475.5	438.9	402.2	369.5	337.8	303.1	273.4	159.5	81.2	61.4
32.5°	577.6	534.0	489.4	446.8	403.2	362.6	325.9	287.3	155.5	76.3	56.5
35°	666.7	610.3	555.8	502.3	449.8	400.2	352.7	309.1	155.5	70.3	50.5
37.5°	750.9	685.6	616.2	549.8	487.4	430.0	373.5	321.0	147.6	65.4	45.6
40°	842.1	763.8	682.6	604.3	529.0	457.7	393.3	332.9	140.7	59.4	40.6
42.5°	981.8	882.7	776.7	685.6	595.4	507.2	427.0	355.7	131.8	53.5	35.7
45°	1165.0	1039.2	914.4	803.4	688.5	580.5	485.4	397.3	129.8	48.5	30.7
47.5°	1361.2	1212.6	1066.0	924.3	789.6	663.8	549.8	443.8	129.8	43.6	26.7
50°	1556.4	1370.1	1213.6	1049.1	897.6	749.0	613.2	492.4	130.8	39.6	21.8
52.5°	1732.7	1533.6	1358.2	1168.0	1000.6	828.2	680.6	539.9	128.8	34.7	17.8
55°	1977.4	1743.6	1540.5	1330.5	1134.3	940.2	772.7	611.3	129.8	30.7	14.9
57.5°	2428.2	2153.7	1909.0	1633.6	1407.8	1157.1	954.0	757.9	141.7	25.8	10.9
60°	3075.1	2718.4	2374.7	2038.8	1751.5	1453.3	1189.8	959.0	166.4	20.8	7.9
62.5°	3510.0	3043.4	2633.2	2262.7	1928.9	1616.8	1329.5	1067.0	183.3	16.8	5.0
63°	3554.6	3072.1	2660.0	2277.6	1936.8	1624.7	1335.4	1074.9	184.3	15.9	5.0
65°	3638.8	3121.6	2674.8	2280.6	1928.9	1613.8	1331.5	1073.9	186.2	12.9	4.0
67.5°	3542.7	3045.4	2588.7	2195.4	1859.5	1549.4	1281.9	1034.3	185.3	8.9	3.0
70°	3168.2	2756.1	2354.9	1988.3	1683.2	1402.8	1167.0	943.1	170.4	5.9	2.0
72.5°	2326.1	2045.8	1734.7	1470.2	1268.1	1053.1	898.6	708.3	131.8	4.0	1.0
75°	689.5	628.1	528.0	465.6	411.1	339.8	302.2	235.8	67.4	2.0	0.0
77.5°	137.7	124.8	111.9	102.0	96.1	82.2	78.3	64.4	27.7	1.0	0.0
80°	72.3	59.4	50.5	44.6	38.6	31.7	26.7	21.8	5.0	0.0	0.0
82.5°	69.3	46.6	33.7	27.7	23.8	18.8	14.9	10.9	3.0	0.0	0.0
85°	25.8	19.8	14.9	11.9	9.9	8.9	6.9	5.9	0.0	0.0	0.0
87.5°	4.0	3.0	3.0	2.0	2.0	1.0	1.0	1.0	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):

	125°	135°	145°	155°	165°	175°	180°
0°	209.0	209.0	209.0	209.0	209.0	209.0	209.0
2.5°	177.3	169.4	165.4	160.5	160.5	159.5	161.5
5°	147.6	136.7	128.8	122.8	123.8	120.9	121.9
7.5°	124.8	113.9	107.0	103.0	102.0	101.0	101.0
10°	108.0	98.1	92.1	89.2	88.2	88.2	88.2
12.5°	96.1	86.2	81.2	79.3	79.3	78.3	78.3
15°	86.2	78.3	73.3	71.3	71.3	70.3	71.3
17.5°	78.3	70.3	66.4	64.4	64.4	63.4	63.4
20°	71.3	64.4	60.4	57.5	57.5	56.5	57.5
22.5°	65.4	58.5	53.5	51.5	50.5	49.5	50.5
25°	59.4	52.5	47.6	44.6	43.6	43.6	42.6
27.5°	54.5	47.6	41.6	38.6	37.6	37.6	36.7
30°	49.5	41.6	35.7	32.7	31.7	31.7	31.7
32.5°	44.6	35.7	30.7	27.7	26.7	26.7	26.7
35°	39.6	30.7	25.8	22.8	21.8	21.8	21.8
37.5°	33.7	25.8	19.8	17.8	16.8	15.9	15.9
40°	28.7	19.8	14.9	12.9	10.9	10.9	10.9
42.5°	23.8	15.9	10.9	7.9	6.9	5.9	6.9
45°	19.8	11.9	6.9	4.0	3.0	3.0	3.0
47.5°	15.9	7.9	3.0	1.0	1.0	1.0	1.0
50°	11.9	5.0	1.0	0.0	0.0	1.0	1.0
52.5°	8.9	3.0	0.0	0.0	0.0	0.0	0.0
55°	5.0	1.0	0.0	0.0	0.0	0.0	0.0
57.5°	3.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)