

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: P180386

Luminaire Tested: **ICM-E04-LED-E1-SL2-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180386
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: ICM-E04-LED-E1-SL2-HSS-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5758.3 lumens
Efficiency: N/A
Efficacy: 59.2 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

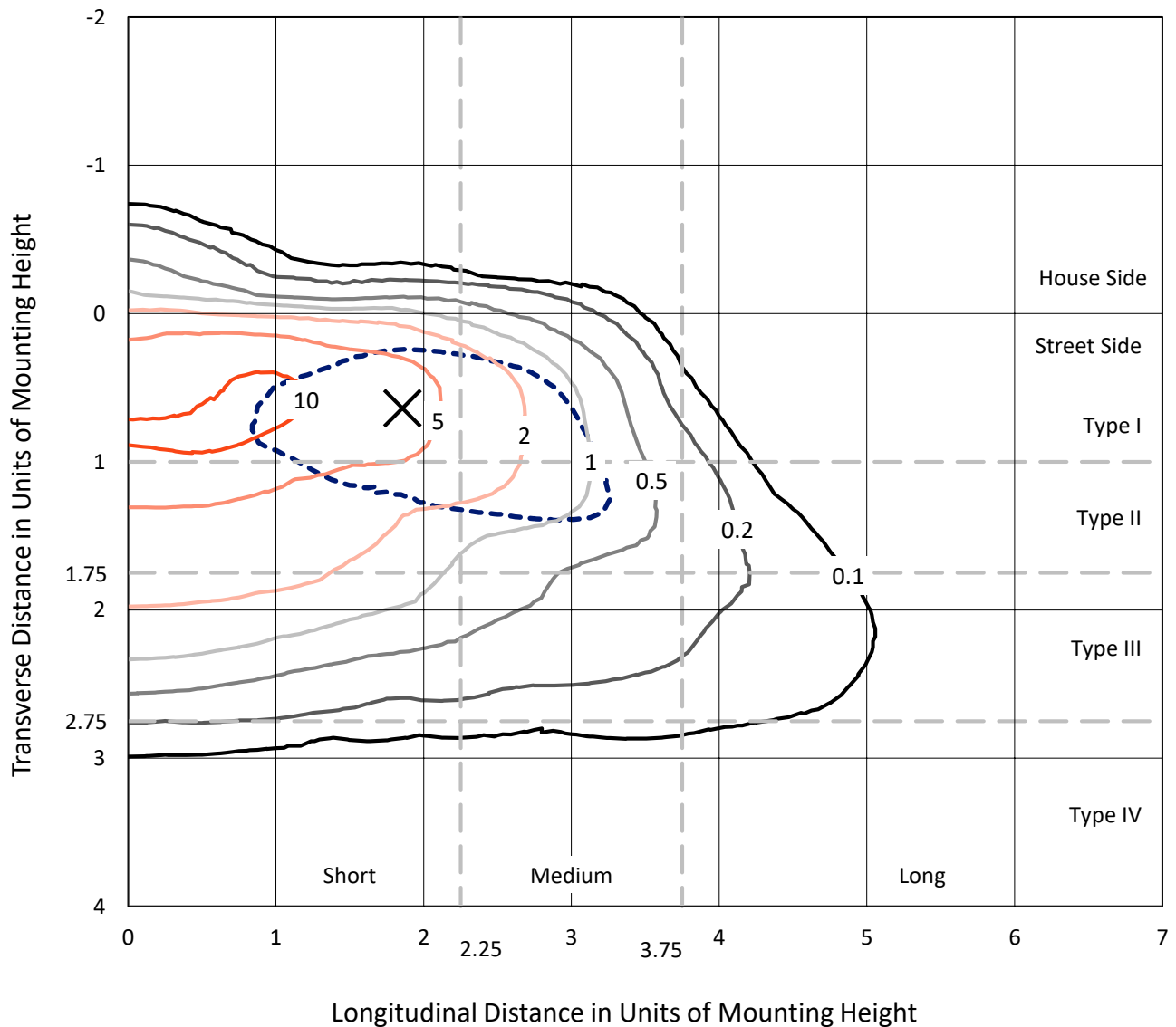
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

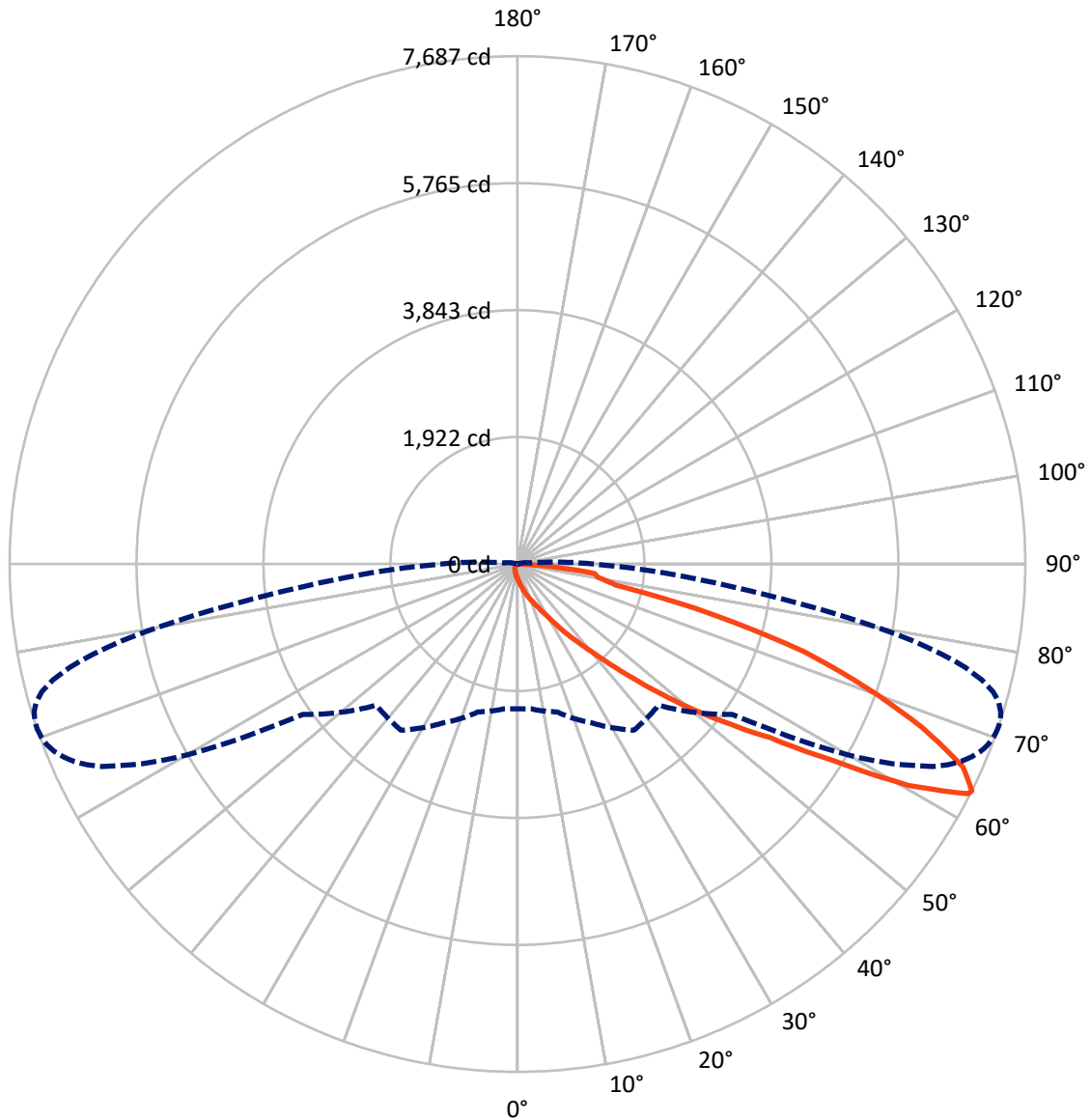
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.1 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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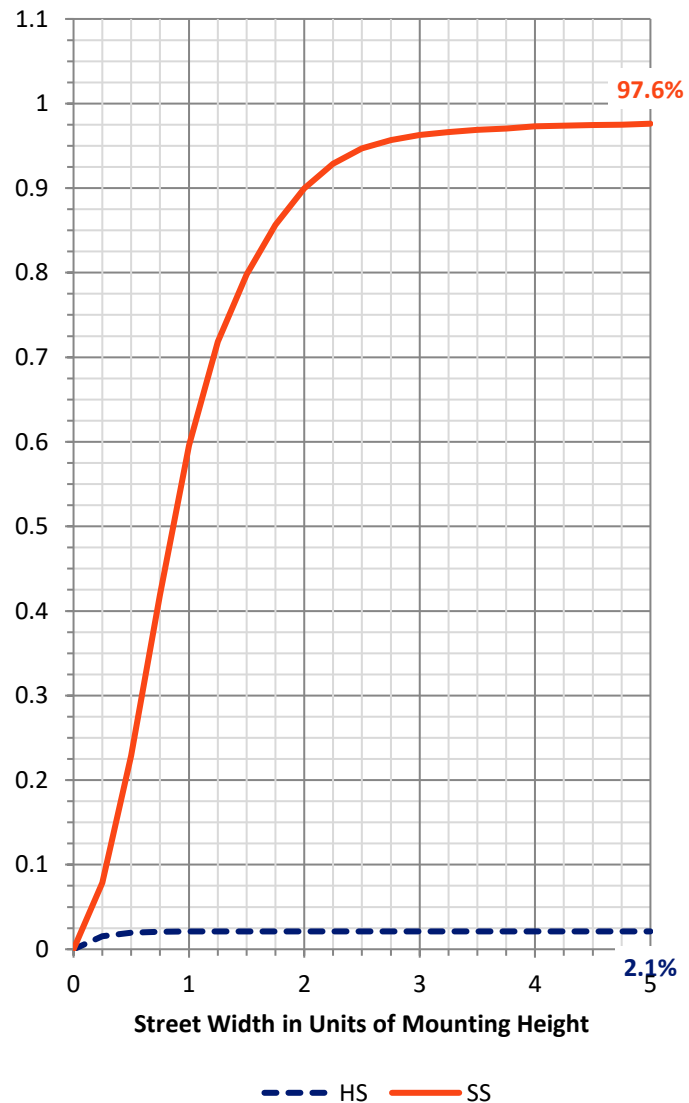
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	122.3	0.0	122.3
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	5636.0	0.0	5636.0
	% Fixture	97.9	0.0	97.9
Total	Lumens	5758.3	0.0	5758.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.4	0.4
10°-20°	94.7	1.6
20°-30°	192.3	3.3
30°-40°	469.9	8.2
40°-50°	1050.8	18.2
50°-60°	1477.5	25.7
60°-70°	1737.4	30.2
70°-80°	627.4	10.9
80°-90°	83.9	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°	5758.3	100.0
0°-180°	5758.3	100.0



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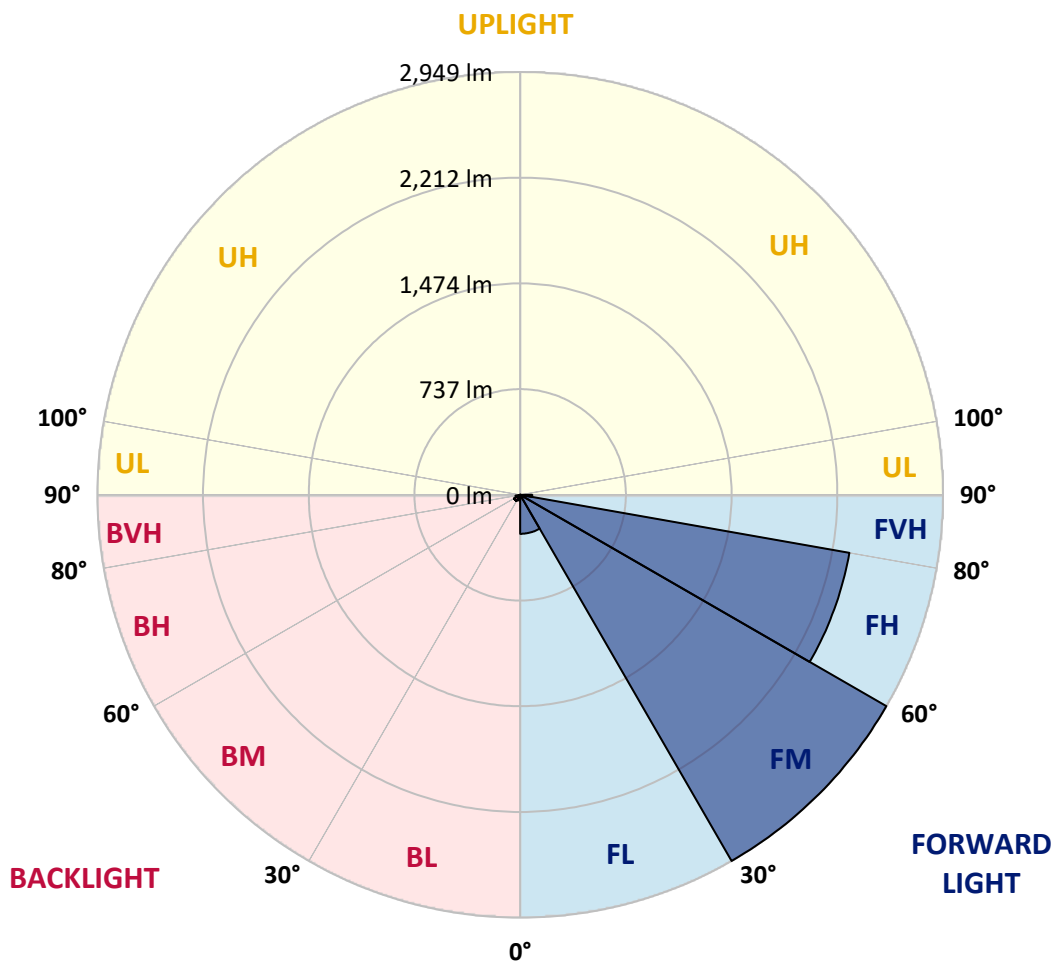
CATALOG NUMBER: ICM-E04-LED-E1-SL2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	272.1	4.7			
FM	(30°-60°)	2948.9	51.2			
FH	(60°-80°)	2331.3	40.5			G2/5000
FVH	(80°-90°)	83.7	1.5			G1/100
BL	(0°-30°)	39.3	0.7	B0/110		
BM	(30°-60°)	49.3	0.9	B0/220		
BH	(60°-80°)	33.5	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°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8
2.5°	288.9	292.1	290.0	284.7	278.4	270.0	262.8	262.8	261.7	258.6	259.6
5°	379.0	380.0	375.8	363.3	351.7	334.0	314.0	311.9	309.9	306.7	305.7
7.5°	466.9	471.1	466.9	453.3	430.2	403.0	371.6	368.5	362.2	362.2	358.0
10°	556.9	556.9	552.7	537.0	516.1	477.3	437.6	432.4	425.0	422.9	416.7
12.5°	620.7	620.7	618.7	610.3	593.6	559.0	510.9	505.6	496.2	493.0	485.7
15°	645.9	645.9	646.9	654.2	655.4	639.6	589.4	585.2	575.7	567.4	564.2
17.5°	661.6	660.6	660.6	671.0	689.9	700.3	667.9	663.7	653.2	649.0	638.5
20°	696.1	694.1	687.7	687.7	705.6	742.2	742.2	741.1	729.6	726.5	721.2
22.5°	747.4	745.3	726.5	710.8	719.2	765.2	808.1	806.1	801.9	797.7	794.5
25°	831.2	823.8	791.4	745.3	738.1	787.2	858.4	863.6	866.8	866.8	868.8
27.5°	957.9	948.4	890.8	805.0	772.6	822.8	913.9	924.4	933.8	935.8	945.3
30°	1133.7	1116.9	1034.2	908.7	834.3	875.2	995.5	1007.1	1020.7	1024.8	1039.4
32.5°	1422.6	1413.2	1333.7	1145.2	986.1	977.8	1109.6	1124.3	1142.1	1149.4	1167.2
35°	1862.2	1864.4	1799.5	1629.9	1410.1	1294.9	1313.8	1326.3	1332.6	1354.6	1364.0
37.5°	2160.7	2165.9	2180.5	2113.5	1956.5	1839.3	1691.6	1705.2	1672.8	1675.9	1677.0
40°	2323.9	2340.7	2426.5	2491.5	2478.9	2410.8	2292.6	2299.8	2239.2	2225.5	2159.5
42.5°	2432.8	2454.8	2591.9	2792.9	2895.5	2957.2	2930.1	2926.9	2879.8	2862.0	2806.5
45°	2500.9	2520.8	2693.5	2989.7	3226.3	3406.3	3480.7	3489.0	3449.2	3431.5	3385.4
47.5°	2497.7	2520.8	2706.1	3063.0	3411.6	3699.5	3908.8	3919.3	3943.4	3927.7	3930.8
50°	2359.5	2381.5	2567.8	2938.4	3357.1	3833.4	4216.6	4250.1	4288.8	4315.0	4327.6
52.5°	2192.0	2207.7	2373.1	2724.9	3124.8	3778.0	4398.7	4456.3	4513.9	4563.1	4597.6
55°	2130.2	2148.1	2277.9	2570.0	2938.4	3545.6	4483.6	4568.3	4650.0	4730.5	4796.5
57.5°	2162.7	2179.5	2272.7	2496.7	2827.5	3300.6	4507.6	4639.5	4773.5	4904.3	5034.2
60°	2282.1	2299.8	2379.5	2564.7	2798.2	3159.3	4413.4	4632.1	4855.1	5083.4	5298.0
62.5°	2235.0	2242.2	2359.5	2684.0	3007.5	3038.9	4071.1	4376.8	4717.0	5068.7	5415.2
63°	2190.0	2198.3	2317.7	2651.6	3071.4	3021.1	3965.3	4287.7	4646.8	5025.8	5402.6
65°	1985.8	1986.9	2078.0	2341.7	3000.2	3052.5	3494.3	3802.1	4214.4	4668.8	5145.1
67.5°	1482.3	1475.0	1562.9	1763.9	2355.4	3053.6	2999.1	3171.8	3458.7	3861.7	4288.8
70°	525.5	514.0	656.4	934.8	1467.6	2497.7	2577.2	2588.8	2668.3	2886.1	3154.1
72.5°	170.6	173.8	209.4	342.3	676.3	1681.2	2333.3	2297.8	2276.9	2275.7	2311.4
75°	68.0	69.1	83.7	151.8	303.5	810.2	2043.4	2063.3	2070.6	2081.0	2092.6
77.5°	32.5	35.6	47.1	84.8	150.7	400.9	1462.4	1631.0	1727.3	1801.6	1846.6
80°	11.5	13.6	26.1	52.4	70.1	184.3	770.4	929.6	1070.9	1253.0	1410.1
82.5°	0.0	0.0	5.2	36.7	38.7	74.3	316.1	370.6	424.0	549.6	705.6
85°	0.0	0.0	0.0	10.5	11.5	12.6	106.8	128.7	144.5	168.6	194.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.2	6.3	15.7	24.1
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°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8
2.5°	257.5	256.5	256.5	254.4	253.3	251.3	250.2	247.1	246.0	246.0	246.0
5°	304.7	300.5	298.3	293.1	290.0	288.9	283.7	281.6	278.4	279.5	274.2
7.5°	356.9	349.7	346.5	339.2	337.1	329.8	327.6	322.4	319.3	313.0	310.9
10°	414.5	405.1	399.9	388.4	385.2	380.0	373.7	367.4	362.2	355.9	352.7
12.5°	480.5	472.1	467.9	452.2	444.9	437.6	429.2	420.8	412.5	407.2	399.9
15°	558.0	544.4	540.2	525.5	512.9	503.5	492.0	481.5	475.3	464.7	457.5
17.5°	634.3	620.7	617.6	595.6	582.1	575.7	563.2	549.6	538.0	527.6	516.1
20°	710.8	701.4	693.0	672.1	657.4	646.9	630.1	616.6	607.2	592.5	577.9
22.5°	787.2	777.8	771.5	749.5	735.9	721.2	706.6	691.9	678.3	660.6	643.8
25°	865.7	859.4	856.3	836.4	823.8	810.2	795.5	778.8	762.1	742.2	724.4
27.5°	947.4	949.5	943.2	939.0	925.4	916.0	892.9	881.4	868.8	844.7	822.8
30°	1051.0	1057.3	1055.2	1058.3	1050.0	1043.6	1025.9	1011.3	996.6	973.5	948.4
32.5°	1181.9	1190.2	1194.4	1206.0	1201.8	1199.6	1194.4	1173.5	1163.0	1123.3	1112.8
35°	1383.9	1379.7	1397.5	1406.9	1402.7	1400.7	1394.3	1382.8	1370.2	1342.1	1315.8
37.5°	1646.6	1650.8	1657.1	1638.2	1625.7	1624.7	1605.8	1594.3	1576.5	1545.1	1513.7
40°	2128.2	2102.0	2072.7	1993.1	1958.6	1938.7	1883.3	1867.5	1837.1	1794.2	1761.8
42.5°	2754.2	2728.0	2640.1	2507.1	2435.9	2337.5	2292.6	2237.0	2194.2	2124.0	2086.3
45°	3376.0	3300.6	3290.2	3135.2	3047.3	2917.5	2836.9	2743.7	2646.3	2554.2	2487.3
47.5°	3900.4	3883.7	3832.4	3738.2	3656.5	3547.6	3444.0	3300.6	3200.1	3069.2	2948.9
50°	4320.2	4319.2	4300.3	4245.9	4177.9	4089.9	3998.8	3877.4	3763.3	3603.2	3474.3
52.5°	4634.3	4651.0	4657.3	4640.5	4614.4	4536.9	4490.8	4389.3	4293.0	4157.0	4017.7
55°	4864.6	4926.4	4957.7	4993.3	4986.0	4958.7	4956.7	4890.7	4846.7	4738.9	4640.5
57.5°	5149.3	5250.8	5348.2	5520.9	5527.2	5587.9	5619.3	5650.7	5659.1	5616.1	5583.8
60°	5511.5	5718.7	5903.0	6264.1	6358.4	6507.0	6603.3	6708.0	6797.0	6804.3	6802.2
62.5°	5766.9	6086.2	6383.5	6919.5	7102.6	7274.4	7403.1	7504.6	7566.4	7629.2	7658.6
63°	5774.3	6123.9	6440.0	6992.7	7185.3	7348.7	7471.1	7565.3	7630.3	7668.0	7686.7
65°	5597.3	6021.2	6398.2	6948.8	7129.9	7294.2	7358.1	7419.9	7451.2	7465.9	7410.4
67.5°	4744.2	5158.7	5598.4	6213.9	6368.9	6565.6	6618.0	6649.3	6664.0	6660.9	6613.8
70°	3547.6	3895.2	4384.0	5087.6	5292.7	5485.3	5604.7	5655.9	5672.7	5667.5	5597.3
72.5°	2476.8	2680.9	3083.9	3866.9	4146.4	4393.5	4541.1	4617.5	4633.2	4601.8	4536.9
75°	2080.0	2090.5	2181.6	2609.7	2871.5	3135.2	3301.7	3349.8	3318.4	3223.2	3057.8
77.5°	1857.0	1880.1	1880.1	1943.9	1995.3	2068.5	2084.2	1967.0	1830.9	1655.0	1512.7
80°	1557.7	1638.2	1694.8	1741.9	1747.2	1732.5	1693.8	1627.8	1523.1	1389.1	1240.5
82.5°	946.3	1105.4	1170.3	1413.2	1532.6	1613.1	1606.9	1518.9	1439.4	1300.1	1173.5
85°	238.7	257.5	279.5	363.3	407.2	497.2	553.8	579.9	589.4	541.2	490.0
87.5°	23.1	15.7	26.1	19.9	28.3	20.9	28.3	26.1	32.5	34.5	37.7
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°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8
2.5°	243.9	242.9	241.8	240.7	239.7	238.7	236.6	236.6	234.5	233.4	232.4
5°	271.2	269.0	268.0	265.9	262.8	260.7	257.5	253.3	250.2	249.1	247.1
7.5°	305.7	300.5	298.3	295.2	291.0	284.7	280.6	277.4	272.2	269.0	262.8
10°	344.4	339.2	332.9	326.6	320.3	313.0	307.7	303.5	295.2	291.0	283.7
12.5°	393.6	384.2	376.8	368.5	360.1	351.7	345.5	332.9	325.6	316.1	309.9
15°	443.8	435.4	427.1	416.7	404.1	390.4	384.2	372.7	363.3	348.6	340.2
17.5°	504.6	488.8	476.3	463.7	452.2	439.6	427.1	409.3	395.7	383.2	366.4
20°	564.2	545.4	531.8	515.1	498.3	478.4	463.7	451.2	432.4	415.6	397.8
22.5°	628.1	609.2	587.3	570.5	547.4	531.8	511.9	491.0	472.1	450.1	428.2
25°	705.6	685.7	660.6	638.5	612.4	590.4	566.3	542.2	519.3	494.1	465.9
27.5°	800.8	779.9	752.7	726.5	691.9	664.7	641.7	609.2	579.9	548.6	516.1
30°	921.2	898.1	864.7	827.0	792.5	762.1	729.6	686.7	654.2	616.6	574.7
32.5°	1078.2	1051.0	1006.0	970.4	927.4	887.7	842.7	799.7	753.7	704.5	656.4
35°	1276.1	1251.0	1198.6	1146.2	1099.2	1052.0	995.5	946.3	881.4	821.8	760.0
37.5°	1481.2	1436.2	1388.1	1331.5	1272.9	1216.4	1147.4	1079.3	1004.9	940.0	862.6
40°	1715.7	1661.3	1621.5	1560.8	1478.1	1397.5	1333.7	1248.8	1155.7	1068.8	977.8
42.5°	2037.1	1976.4	1905.2	1813.1	1753.4	1659.2	1576.5	1476.0	1353.5	1256.2	1146.2
45°	2408.8	2326.1	2256.9	2167.9	2095.7	1978.5	1882.2	1748.2	1625.7	1498.0	1364.0
47.5°	2832.7	2730.1	2629.6	2541.7	2426.5	2311.4	2188.9	2046.5	1889.5	1749.2	1590.1
50°	3319.5	3174.0	3034.7	2921.7	2763.6	2630.6	2497.7	2337.5	2163.7	2002.5	1821.5
52.5°	3860.7	3692.1	3507.9	3334.1	3150.9	2980.3	2820.1	2635.9	2442.2	2245.4	2043.4
55°	4513.9	4387.2	4170.5	3949.6	3704.7	3476.5	3270.3	3042.1	2806.5	2547.9	2335.5
57.5°	5536.6	5474.8	5293.7	5072.9	4753.6	4476.2	4126.5	3847.1	3505.8	3149.9	2875.6
60°	6922.6	6846.2	6744.6	6565.6	6312.3	5935.5	5550.3	5115.8	4596.6	4103.6	3635.6
62.5°	7661.6	7634.5	7551.8	7428.2	7191.7	6894.4	6506.0	6028.6	5442.4	4843.7	4246.9
63°	7683.7	7649.1	7577.9	7452.3	7244.0	6956.1	6575.0	6111.3	5537.6	4927.4	4318.2
65°	7386.4	7372.7	7300.5	7163.4	7021.0	6801.2	6506.0	6107.1	5625.6	5048.8	4442.7
67.5°	6551.0	6510.2	6399.2	6357.3	6257.9	6105.1	5879.9	5605.7	5261.3	4808.0	4284.6
70°	5540.8	5480.1	5340.9	5266.5	5145.1	5048.8	4911.7	4715.9	4503.4	4187.3	3796.8
72.5°	4469.9	4344.3	4216.6	4022.9	3853.3	3681.7	3529.9	3391.6	3158.3	3030.5	2734.2
75°	2902.8	2674.6	2455.8	2162.7	1898.9	1665.5	1438.3	1323.2	1083.4	986.1	846.9
77.5°	1377.6	1249.9	1078.2	945.3	775.7	633.3	517.1	388.4	304.7	238.7	182.1
80°	1111.7	1003.9	900.3	779.9	652.2	520.3	398.8	298.3	211.4	146.5	103.6
82.5°	991.4	874.1	746.4	663.7	576.8	472.1	387.4	316.1	233.4	170.6	116.2
85°	385.2	324.5	250.2	204.1	159.1	130.9	118.3	81.7	63.8	50.2	38.7
87.5°	33.5	27.3	22.0	14.7	15.7	8.4	9.4	6.3	5.2	5.2	4.2
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°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8
2.5°	231.4	230.3	229.2	227.2	227.2	225.0	224.0	223.0	217.8	206.2	196.8
5°	242.9	240.7	238.7	235.5	233.4	230.3	228.2	225.0	213.6	191.5	172.7
7.5°	259.6	255.4	252.3	246.0	242.9	238.7	235.5	230.3	211.4	178.0	151.8
10°	279.5	272.2	267.0	259.6	253.3	248.1	242.9	235.5	209.4	163.3	132.9
12.5°	303.5	295.2	284.7	276.4	268.0	260.7	253.3	243.9	206.2	150.7	118.3
15°	327.6	315.1	307.7	296.3	284.7	274.2	263.8	255.4	207.3	137.1	105.8
17.5°	354.9	342.3	326.6	314.0	301.5	287.9	275.4	258.6	202.0	126.7	96.3
20°	381.0	363.3	348.6	332.9	315.1	298.3	282.6	268.0	197.9	116.2	87.9
22.5°	409.3	388.4	369.5	349.7	327.6	308.8	290.0	271.2	190.5	106.8	80.6
25°	443.8	419.8	392.6	368.5	345.5	322.4	298.3	275.4	183.2	98.4	75.3
27.5°	485.7	454.3	427.1	396.7	364.3	335.0	308.8	283.7	175.9	92.1	70.1
30°	539.1	502.5	463.7	425.0	390.4	356.9	320.3	288.9	168.6	85.9	64.9
32.5°	610.3	564.2	517.1	472.1	426.0	383.2	344.4	303.5	164.4	80.6	59.6
35°	704.5	644.8	587.3	530.7	475.3	422.9	372.7	326.6	164.4	74.3	53.4
37.5°	793.5	724.4	651.1	581.0	515.1	454.3	394.6	339.2	156.0	69.1	48.2
40°	889.8	807.1	721.2	638.5	559.0	483.6	415.6	351.7	148.7	62.8	42.9
42.5°	1037.4	932.7	820.7	724.4	629.1	536.0	451.2	375.8	139.3	56.6	37.7
45°	1231.1	1098.1	966.2	848.9	727.5	613.4	512.9	419.8	137.1	51.3	32.5
47.5°	1438.3	1281.3	1126.3	976.7	834.3	701.4	581.0	468.9	137.1	46.0	28.3
50°	1644.6	1447.7	1282.3	1108.6	948.4	791.4	648.0	520.3	138.1	41.9	23.1
52.5°	1830.9	1620.5	1435.2	1234.2	1057.3	875.2	719.2	570.5	136.1	36.7	18.9
55°	2089.4	1842.4	1627.8	1405.9	1198.6	993.4	816.6	645.9	137.1	32.5	15.7
57.5°	2565.8	2275.7	2017.2	1726.2	1487.5	1222.7	1008.1	800.8	149.7	27.3	11.5
60°	3249.3	2872.5	2509.2	2154.3	1850.8	1535.6	1257.2	1013.3	175.9	22.0	8.4
62.5°	3708.9	3215.8	2782.4	2390.9	2038.2	1708.4	1404.8	1127.4	193.7	17.8	5.2
63°	3756.0	3246.2	2810.7	2406.6	2046.5	1716.8	1411.1	1135.8	194.7	16.7	5.2
65°	3845.0	3298.5	2826.4	2409.8	2038.2	1705.2	1406.9	1134.7	196.8	13.6	4.2
67.5°	3743.4	3217.9	2735.4	2319.7	1964.8	1637.2	1354.6	1092.8	195.7	9.4	3.2
70°	3347.7	2912.2	2488.3	2100.9	1778.5	1482.3	1233.1	996.6	180.1	6.3	2.1
72.5°	2458.0	2161.7	1832.9	1553.5	1339.9	1112.8	949.5	748.5	139.3	4.2	1.0
75°	728.6	663.7	558.0	492.0	434.4	359.1	319.3	249.1	71.2	2.1	0.0
77.5°	145.5	131.9	118.3	107.8	101.6	86.9	82.7	68.0	29.3	1.0	0.0
80°	76.4	62.8	53.4	47.1	40.8	33.5	28.3	23.1	5.2	0.0	0.0
82.5°	73.3	49.2	35.6	29.3	25.1	19.9	15.7	11.5	3.2	0.0	0.0
85°	27.3	20.9	15.7	12.6	10.5	9.4	7.3	6.3	0.0	0.0	0.0
87.5°	4.2	3.2	3.2	2.1	2.1	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°	220.8	220.8	220.8	220.8	220.8	220.8	220.8
2.5°	187.3	179.0	174.8	169.6	169.6	168.6	170.6
5°	156.0	144.5	136.1	129.8	130.9	127.7	128.7
7.5°	131.9	120.4	113.0	108.8	107.8	106.8	106.8
10°	114.1	103.6	97.4	94.2	93.2	93.2	93.2
12.5°	101.6	91.1	85.9	83.7	83.7	82.7	82.7
15°	91.1	82.7	77.5	75.3	75.3	74.3	75.3
17.5°	82.7	74.3	70.1	68.0	68.0	67.0	67.0
20°	75.3	68.0	63.8	60.7	60.7	59.6	60.7
22.5°	69.1	61.8	56.6	54.4	53.4	52.4	53.4
25°	62.8	55.4	50.2	47.1	46.0	46.0	45.0
27.5°	57.6	50.2	44.0	40.8	39.8	39.8	38.7
30°	52.4	44.0	37.7	34.5	33.5	33.5	33.5
32.5°	47.1	37.7	32.5	29.3	28.3	28.3	28.3
35°	41.9	32.5	27.3	24.1	23.1	23.1	23.1
37.5°	35.6	27.3	20.9	18.9	17.8	16.7	16.7
40°	30.3	20.9	15.7	13.6	11.5	11.5	11.5
42.5°	25.1	16.7	11.5	8.4	7.3	6.3	7.3
45°	20.9	12.6	7.3	4.2	3.2	3.2	3.2
47.5°	16.7	8.4	3.2	1.0	1.0	1.0	1.0
50°	12.6	5.2	1.0	0.0	0.0	1.0	1.0
52.5°	9.4	3.2	0.0	0.0	0.0	0.0	0.0
55°	5.2	1.0	0.0	0.0	0.0	0.0	0.0
57.5°	3.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.1	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)