

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: P181187

Luminaire Tested: **ICM-E05-LED-E1-T2-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181187
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33723)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E05-LED-E1-T2-HSS
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ HOUSE SIDE SHIELD
Light Source: (105) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7447.9 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 127.3
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

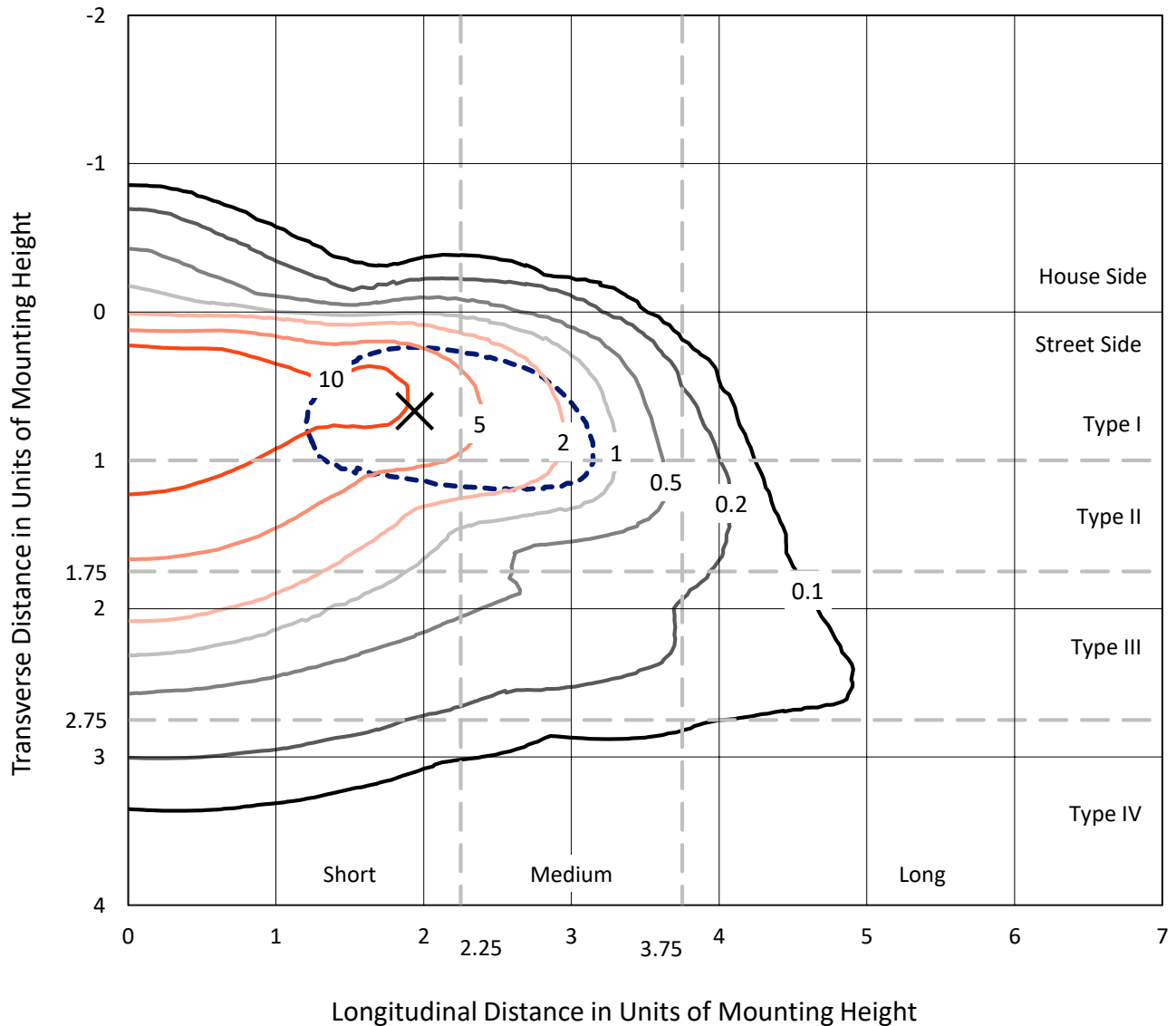


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Iso-Footcandle Lines of Horizontal Illumination

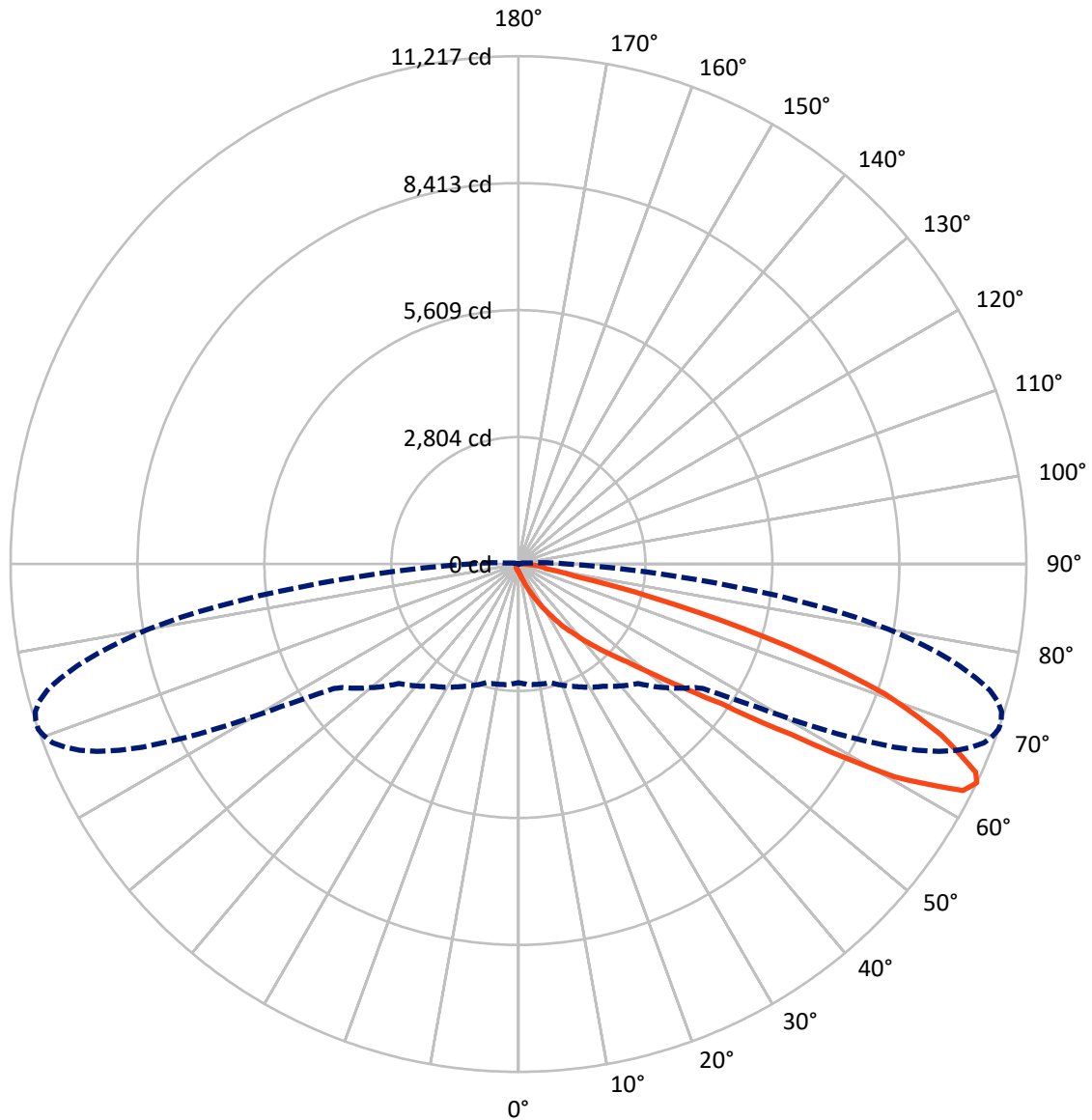
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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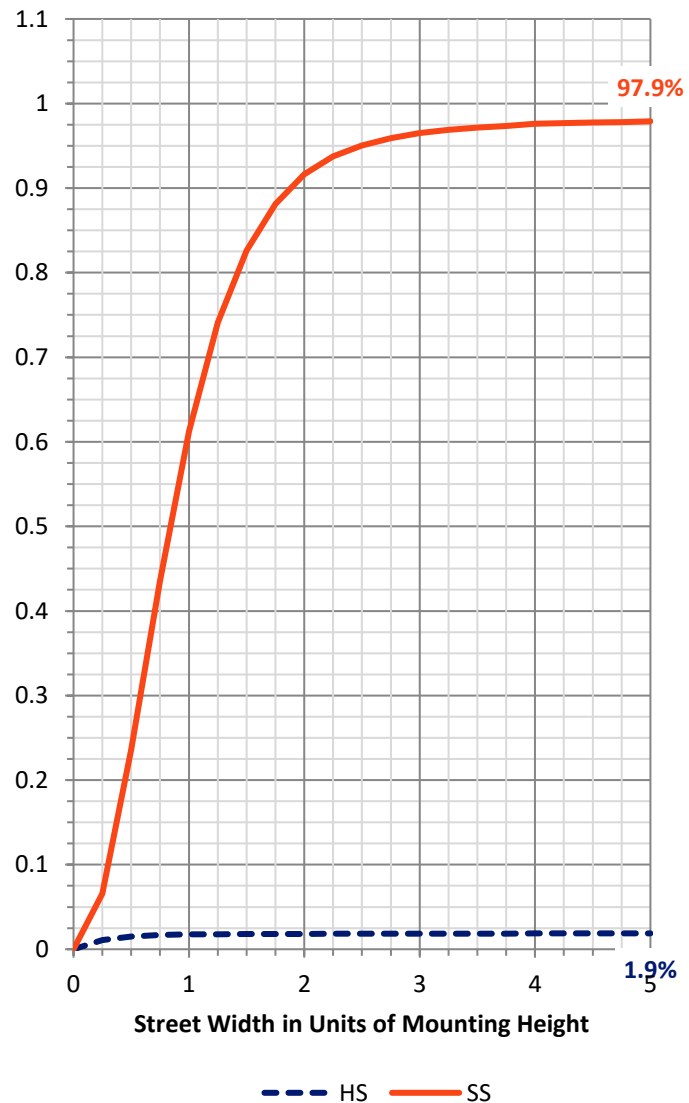
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	142.6	0.0	142.6
	% Fixture	1.9	0.0	1.9
Street Side	Lumens	7305.4	0.0	7305.4
	% Fixture	98.1	0.0	98.1
Total	Lumens	7447.9	0.0	7447.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.8	0.3
10°-20°	134.7	1.8
20°-30°	344.0	4.6
30°-40°	695.7	9.3
40°-50°	1271.7	17.1
50°-60°	1981.3	26.6
60°-70°	2202.3	29.6
70°-80°	718.2	9.6
80°-90°	77.3	1.0
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°	7447.9	100.0
0°-180°	7447.9	100.0



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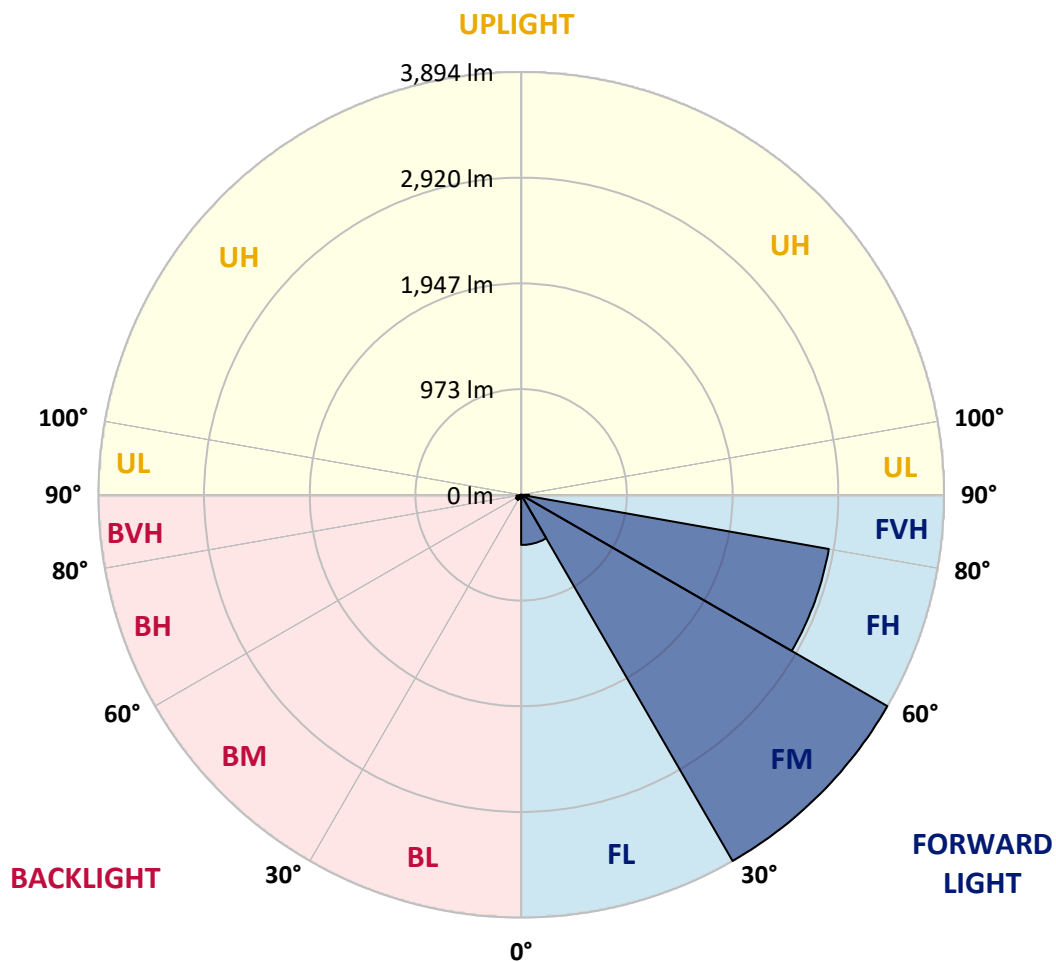
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	461.7	6.2			
FM (30°-60°)	3893.6	52.3			
FH (60°-80°)	2876.5	38.6			G2/5000
FVH (80°-90°)	73.5	1.0			G1/100
BL (0°-30°)	39.7	0.5	B0/110		
BM (30°-60°)	55.1	0.7	B0/220		
BH (60°-80°)	44.0	0.6	B0/110		G0/110
BVH (80°-90°)	3.7	0.1			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°	165.9	165.9	165.9	165.9	165.9	165.9	165.9	165.9	165.9	165.9	165.9
2.5°	223.3	220.2	220.2	215.5	209.3	203.1	196.9	195.4	193.8	192.3	192.3
5°	350.4	338.0	333.3	316.3	294.6	268.2	244.9	238.8	238.8	234.1	231.0
7.5°	550.4	544.2	511.6	494.6	443.4	379.8	313.2	307.0	305.4	299.3	290.0
10°	806.2	793.8	770.5	720.9	627.9	517.9	423.3	407.7	396.9	384.5	372.1
12.5°	1062.1	1046.5	1012.4	931.8	838.8	697.7	545.8	531.8	514.7	497.7	477.5
15°	1317.9	1307.0	1254.2	1173.7	1052.8	883.7	691.4	666.7	652.7	618.6	603.1
17.5°	1539.5	1525.6	1483.7	1392.3	1266.7	1080.7	852.7	821.7	798.4	778.3	741.1
20°	1731.8	1717.9	1677.5	1601.6	1460.5	1277.5	1026.3	1010.9	969.0	938.0	916.3
22.5°	1849.6	1844.9	1818.6	1745.8	1620.2	1457.4	1224.8	1200.0	1172.1	1130.2	1105.4
25°	1922.5	1917.9	1902.3	1851.2	1765.9	1646.5	1443.5	1412.4	1387.6	1350.4	1319.4
27.5°	1998.4	1995.4	1983.0	1938.0	1893.0	1818.6	1665.1	1648.1	1593.8	1572.1	1542.6
30°	2124.0	2110.1	2120.9	2099.3	2041.9	1995.4	1888.4	1863.5	1840.3	1803.1	1776.8
32.5°	2324.0	2300.8	2324.0	2300.8	2276.0	2220.2	2117.9	2110.1	2086.8	2063.5	2026.3
35°	2569.0	2559.7	2578.3	2598.4	2578.3	2503.9	2379.8	2356.6	2347.3	2310.1	2296.1
37.5°	2815.6	2832.6	2866.7	2911.6	2899.3	2844.9	2669.8	2648.1	2631.0	2598.4	2573.7
40°	3080.7	3082.2	3155.1	3220.2	3252.8	3220.2	2989.1	2972.1	2948.9	2902.3	2896.1
42.5°	3369.0	3356.6	3410.9	3483.7	3550.4	3595.4	3410.9	3378.3	3345.8	3293.0	3257.4
45°	3624.9	3624.9	3668.2	3736.5	3838.8	3951.9	3855.8	3821.7	3790.7	3747.3	3707.0
47.5°	3814.0	3815.6	3841.9	3941.1	4100.8	4269.8	4272.9	4279.1	4255.8	4204.7	4206.3
50°	3947.3	3930.3	3965.9	4062.1	4246.5	4511.7	4702.4	4713.2	4731.8	4690.0	4702.4
52.5°	4045.0	4037.2	4060.5	4141.1	4325.6	4649.6	5054.3	5100.8	5128.7	5134.9	5186.1
55°	3993.8	3998.4	4054.3	4170.5	4369.0	4741.1	5353.5	5429.5	5494.6	5550.5	5614.0
57.5°	3824.9	3838.8	3936.5	4117.9	4378.4	4815.6	5671.4	5787.7	5910.1	6058.9	6184.5
60°	3555.1	3587.6	3719.4	3973.7	4288.4	4717.9	5765.9	5944.2	6131.9	6358.2	6610.9
62.5°	3159.7	3165.9	3252.8	3499.3	3846.5	4198.4	5331.8	5559.8	5807.8	6134.9	6488.4
64°	2618.6	2674.4	2714.7	2986.1	3296.1	3734.9	4758.2	4916.3	5262.1	5663.6	6108.6
65°	2161.2	2227.9	2260.5	2531.8	2886.8	3305.4	4258.9	4427.9	4792.3	5200.0	5755.1
67.5°	1274.4	1229.5	1324.0	1483.7	1781.4	2277.5	2872.9	3001.6	3272.9	3758.2	4201.6
70°	821.7	821.7	908.6	1071.4	1347.3	1727.2	1973.7	1919.4	1976.8	2164.4	2477.5
72.5°	527.2	555.1	607.7	745.8	1001.6	1448.1	2017.0	1761.2	1627.9	1565.9	1562.8
75°	240.3	255.8	313.2	395.4	534.9	944.2	2034.2	1922.5	1800.0	1682.1	1590.7
77.5°	51.2	58.9	99.3	204.7	260.5	435.6	1443.5	1610.9	1744.2	1783.0	1783.0
80°	26.3	27.9	41.9	96.1	111.6	147.3	556.6	731.8	902.3	1127.2	1362.8
82.5°	10.9	12.4	24.8	43.4	46.5	44.9	147.3	186.0	255.8	372.1	555.1
85°	3.1	3.1	10.9	17.0	24.8	20.2	32.6	37.2	48.1	69.8	133.3
87.5°	0.0	0.0	1.6	3.1	4.7	7.7	9.3	9.3	9.3	9.3	9.3
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°	165.9	165.9	165.9	165.9	165.9	165.9	165.9	165.9	165.9	165.9	165.9
2.5°	190.7	190.7	189.1	187.6	187.6	184.5	184.5	183.0	183.0	181.4	181.4
5°	229.5	226.3	223.3	218.6	217.0	214.0	210.9	207.7	204.7	203.1	200.0
7.5°	285.3	282.1	272.8	266.7	258.9	254.2	248.1	243.4	238.8	235.6	229.5
10°	359.7	348.8	344.2	322.5	317.9	307.0	297.7	291.4	279.1	271.4	263.5
12.5°	465.1	444.9	437.2	400.0	389.1	373.7	362.8	347.3	333.3	324.0	310.0
15°	584.5	569.0	539.5	502.3	482.1	465.1	438.8	426.3	407.7	387.6	367.4
17.5°	727.2	699.3	666.7	618.6	593.8	567.4	542.6	516.3	485.3	466.7	444.9
20°	893.0	863.5	823.3	762.8	733.3	707.0	663.5	644.9	607.7	570.5	542.6
22.5°	1074.4	1044.9	1006.2	938.0	899.3	855.8	820.2	787.6	744.2	707.0	674.4
25°	1279.1	1244.9	1215.5	1136.5	1088.4	1043.4	1004.7	947.3	910.1	866.7	821.7
27.5°	1511.6	1471.4	1432.6	1345.8	1300.8	1251.2	1204.7	1144.2	1108.6	1037.2	995.4
30°	1750.4	1700.8	1660.5	1572.1	1531.8	1480.7	1417.0	1362.8	1302.3	1254.2	1186.1
32.5°	2001.6	1961.2	1928.7	1835.6	1784.5	1720.9	1663.5	1606.2	1553.5	1476.0	1414.0
35°	2269.8	2234.2	2198.4	2117.9	2072.8	2024.8	1959.7	1890.0	1817.0	1736.5	1680.7
37.5°	2551.9	2524.0	2496.1	2398.4	2345.8	2294.6	2220.2	2150.4	2085.3	2000.0	1905.4
40°	2848.1	2821.7	2776.8	2696.1	2640.3	2593.8	2525.6	2460.5	2372.1	2277.5	2193.8
42.5°	3220.2	3162.8	3124.0	3035.6	2976.8	2925.6	2865.1	2767.5	2693.0	2579.8	2499.3
45°	3655.8	3601.6	3538.0	3448.1	3375.2	3291.5	3206.3	3139.6	3046.5	2944.2	2840.3
47.5°	4145.8	4102.4	4027.9	3939.6	3866.7	3783.0	3682.2	3597.0	3483.7	3364.4	3223.3
50°	4685.3	4640.3	4590.7	4491.5	4418.6	4339.6	4260.5	4159.7	4057.4	3914.7	3769.0
52.5°	5186.1	5195.4	5165.9	5119.4	5083.8	5001.6	4928.7	4832.6	4742.6	4612.4	4499.3
55°	5680.7	5761.2	5792.3	5837.2	5852.8	5786.1	5784.5	5643.5	5589.2	5513.2	5448.1
57.5°	6333.3	6511.7	6652.8	6925.6	7040.3	7156.6	7178.4	7079.1	7181.4	7049.6	7094.6
60°	6888.4	7215.6	7565.9	8271.4	8624.9	8891.5	9105.5	9263.6	9365.9	9539.6	9548.9
62.5°	6938.0	7452.8	7986.1	9015.6	9499.3	9904.0	10290.0	10559.8	10773.7	10970.6	11018.7
64°	6700.8	7338.0	7986.1	9231.0	9725.6	10175.2	10527.2	10795.4	11014.0	11136.5	11217.1
65°	6269.8	6983.0	7728.7	9088.4	9598.5	10076.1	10412.4	10682.2	10888.4	11011.0	11094.7
67.5°	4645.0	5334.9	6083.8	7666.7	8469.8	8907.0	9338.0	9716.3	9882.2	10037.3	10066.8
70°	2831.0	3331.8	3848.1	5316.3	6062.1	6848.1	7333.3	7886.8	8274.5	8513.3	8592.3
72.5°	1708.6	1882.2	2190.7	2979.8	3694.6	4246.5	4917.9	5446.5	5880.7	6121.0	6241.9
75°	1520.9	1499.3	1539.5	1868.2	2122.5	2454.2	2697.7	3029.5	3297.7	3381.4	3538.0
77.5°	1758.2	1696.1	1632.6	1570.5	1558.1	1527.2	1477.5	1490.0	1372.1	1258.9	1262.1
80°	1565.9	1714.7	1803.1	1738.0	1590.7	1441.9	1258.9	1031.0	806.2	666.7	607.7
82.5°	786.1	1117.9	1437.2	1753.5	1731.8	1600.0	1398.4	1148.8	890.0	683.7	545.8
85°	241.9	429.5	604.7	840.3	975.2	956.6	840.3	817.0	583.0	454.2	350.4
87.5°	10.9	10.9	10.9	9.3	10.9	10.9	10.9	12.4	12.4	14.0	14.0
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	165.9	165.9	165.9	165.9	165.9	165.9	165.9	165.9	165.9	165.9	165.9
2.5°	181.4	179.8	178.3	176.7	176.7	176.7	175.2	175.2	173.7	173.7	172.1
5°	200.0	196.9	195.4	192.3	192.3	189.1	187.6	186.0	183.0	181.4	179.8
7.5°	224.8	221.7	217.0	212.4	210.9	206.2	201.6	198.4	195.4	192.3	189.1
10°	257.4	251.2	241.9	235.6	231.0	224.8	218.6	214.0	207.7	201.6	198.4
12.5°	299.3	286.8	277.5	266.7	257.4	248.1	237.2	231.0	224.8	215.5	209.3
15°	347.3	334.9	324.0	305.4	290.0	277.5	268.2	254.2	243.4	231.0	221.7
17.5°	429.5	396.9	375.2	356.6	341.1	317.9	299.3	283.7	269.8	254.2	243.4
20°	510.0	482.1	452.7	431.0	396.9	376.7	351.9	330.2	305.4	286.8	268.2
22.5°	627.9	592.3	555.1	522.5	476.0	448.1	415.5	387.6	356.6	325.6	305.4
25°	776.7	724.0	674.4	627.9	584.5	542.6	500.7	455.8	423.3	386.0	351.9
27.5°	933.3	874.4	826.3	765.9	710.1	658.9	606.2	558.1	502.3	454.2	414.0
30°	1130.2	1049.6	993.8	920.9	865.1	793.8	728.7	665.1	596.9	541.1	483.7
32.5°	1330.2	1276.0	1181.4	1119.4	1035.6	950.4	882.1	809.3	725.6	652.7	583.0
35°	1593.8	1500.8	1421.7	1334.9	1243.4	1155.1	1066.7	962.8	877.5	787.6	702.3
37.5°	1826.3	1731.8	1640.3	1527.2	1423.3	1330.2	1223.3	1114.7	1014.0	907.0	804.7
40°	2096.1	1978.3	1869.8	1764.4	1635.6	1525.6	1414.0	1279.1	1162.8	1044.9	924.0
42.5°	2390.7	2271.4	2142.6	2021.7	1880.7	1745.8	1607.7	1472.8	1342.6	1200.0	1058.9
45°	2713.2	2587.6	2443.5	2305.4	2151.9	2003.1	1838.8	1683.7	1530.2	1370.5	1207.7
47.5°	3113.2	2951.9	2818.6	2646.5	2455.8	2299.3	2097.7	1920.9	1745.8	1559.7	1376.8
50°	3631.0	3448.1	3255.8	3065.1	2854.3	2655.8	2432.6	2223.3	1989.1	1781.4	1572.1
52.5°	4317.9	4181.4	3958.2	3739.6	3482.2	3229.5	2922.5	2651.2	2350.4	2085.3	1829.5
55°	5293.1	5203.1	5009.3	4770.5	4545.8	4176.8	3823.3	3401.6	3010.9	2629.5	2269.8
57.5°	7058.9	6961.3	6745.8	6688.4	6342.6	6071.4	5657.4	5111.7	4449.6	3866.7	3285.3
60°	9601.6	9410.9	9200.1	9161.3	8755.1	8469.8	8058.9	7477.5	6854.3	5924.0	5131.8
62.5°	11021.7	10964.4	10793.8	10584.5	10232.6	9809.4	9347.3	8784.5	8152.0	7336.5	6393.8
64°	11212.4	11159.8	11012.4	10776.8	10423.3	10003.1	9491.5	8930.3	8296.1	7552.0	6691.5
65°	11093.1	11018.7	10893.1	10676.1	10347.3	9944.2	9429.5	8860.5	8217.1	7500.8	6700.8
67.5°	10130.3	10096.2	9981.5	9779.9	9573.7	9210.9	8758.2	8249.6	7724.0	7014.0	6358.2
70°	8601.6	8576.8	8431.0	8350.5	8009.4	7779.9	7414.0	7014.0	6548.9	6054.3	5496.1
72.5°	6376.8	6293.1	6175.2	6052.8	5821.7	5507.0	5221.7	4795.4	4555.1	4138.0	3823.3
75°	3381.4	3328.7	3145.8	2890.0	2604.7	2457.4	2161.2	1896.1	1685.3	1590.7	1362.8
77.5°	1169.0	1065.1	962.8	848.1	672.8	530.2	423.3	338.0	266.7	235.6	196.9
80°	583.0	553.5	520.9	455.8	383.0	308.6	241.9	190.7	156.6	133.3	119.3
82.5°	472.8	418.6	373.7	327.2	262.0	215.5	170.5	139.5	114.7	100.7	88.4
85°	279.1	214.0	162.8	147.3	114.7	99.3	85.3	72.8	62.0	58.9	54.2
87.5°	10.9	14.0	14.0	10.9	14.0	12.4	12.4	10.9	10.9	10.9	10.9
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	165.9	165.9	165.9	165.9	165.9	165.9	165.9	165.9	165.9	165.9	165.9
2.5°	172.1	170.5	170.5	169.0	167.4	167.4	167.4	165.9	162.8	156.6	151.9
5°	178.3	176.7	175.2	172.1	170.5	169.0	167.4	167.4	159.7	148.8	141.1
7.5°	186.0	183.0	179.8	176.7	175.2	172.1	169.0	167.4	156.6	142.6	134.9
10°	193.8	189.1	184.5	183.0	178.3	175.2	170.5	167.4	155.1	138.0	127.2
12.5°	203.1	196.9	190.7	186.0	179.8	176.7	172.1	167.4	151.9	133.3	120.9
15°	214.0	204.7	196.9	192.3	186.0	178.3	172.1	167.4	148.8	128.7	114.7
17.5°	227.9	217.0	207.7	198.4	189.1	181.4	175.2	169.0	144.2	122.5	107.0
20°	249.6	235.6	220.2	209.3	196.9	187.6	176.7	169.0	141.1	116.3	100.7
22.5°	279.1	257.4	240.3	221.7	206.2	193.8	181.4	172.1	136.5	110.0	93.0
25°	320.9	293.0	265.1	241.9	221.7	204.7	189.1	176.7	133.3	105.4	88.4
27.5°	367.4	334.9	297.7	269.8	241.9	217.0	200.0	184.5	133.3	102.3	83.7
30°	432.6	386.0	341.1	305.4	268.2	240.3	215.5	195.4	133.3	100.7	79.1
32.5°	511.6	458.9	401.6	350.4	307.0	266.7	235.6	209.3	136.5	97.7	76.0
35°	621.7	544.2	476.0	412.4	355.1	308.6	268.2	232.6	141.1	96.1	71.3
37.5°	708.6	615.5	528.7	455.8	389.1	331.8	280.7	241.9	136.5	90.0	66.7
40°	812.4	707.0	601.6	510.0	434.1	359.7	300.7	254.2	133.3	82.1	60.5
42.5°	938.0	806.2	683.7	579.8	485.3	396.9	327.2	269.8	133.3	77.5	55.8
45°	1055.8	911.6	775.2	644.9	534.9	437.2	351.9	286.8	131.8	72.8	49.6
47.5°	1201.6	1031.0	871.4	720.9	593.8	474.4	378.3	302.3	130.2	68.2	44.9
50°	1373.7	1165.9	986.1	806.2	651.2	519.4	409.3	319.4	127.2	63.5	40.3
52.5°	1564.4	1341.1	1111.6	903.9	722.5	567.4	438.8	334.9	122.5	58.9	35.6
55°	1902.3	1595.4	1324.0	1066.7	831.0	638.8	482.1	358.1	117.9	54.2	31.0
57.5°	2713.2	2204.7	1820.2	1432.6	1094.6	820.2	600.0	424.8	111.6	48.1	24.8
60°	4260.5	3421.7	2769.0	2172.1	1655.8	1258.9	883.7	627.9	119.3	40.3	21.7
62.5°	5465.1	4500.8	3669.8	2920.9	2268.2	1724.0	1286.8	938.0	172.1	35.6	17.0
64°	5779.8	4803.1	3916.3	3131.8	2452.8	1891.5	1435.6	1060.5	221.7	35.6	15.5
65°	5826.4	4896.1	4004.7	3209.3	2516.3	1936.5	1479.1	1100.8	241.9	37.2	14.0
67.5°	5634.2	4841.9	4031.0	3241.9	2564.4	1998.4	1538.0	1164.4	272.8	35.6	10.9
70°	4921.0	4338.0	3671.4	3032.6	2418.6	1899.3	1479.1	1128.7	285.3	34.1	9.3
72.5°	3348.9	2947.3	2553.5	2100.8	1683.7	1387.6	1079.1	795.4	200.0	27.9	7.7
75°	1116.3	1088.4	973.7	738.0	620.2	503.9	403.1	310.0	76.0	17.0	7.7
77.5°	186.0	159.7	139.5	133.3	111.6	108.6	94.6	76.0	32.6	10.9	7.7
80°	108.6	99.3	86.8	77.5	68.2	60.5	51.2	43.4	20.2	7.7	9.3
82.5°	80.7	71.3	63.5	55.8	48.1	41.9	35.6	29.5	10.9	7.7	9.3
85°	46.5	40.3	35.6	31.0	24.8	21.7	18.6	15.5	7.7	7.7	7.7
87.5°	9.3	9.3	7.7	7.7	7.7	7.7	7.7	6.2	7.7	7.7	6.2
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):

	125°	135°	145°	155°	165°	175°	180°
0°	165.9	165.9	165.9	165.9	165.9	165.9	165.9
2.5°	148.8	144.2	142.6	142.6	142.6	142.6	142.6
5°	136.5	131.8	128.7	127.2	127.2	127.2	127.2
7.5°	127.2	120.9	117.9	114.7	114.7	113.2	113.2
10°	117.9	111.6	107.0	103.9	102.3	102.3	102.3
12.5°	110.0	103.9	97.7	94.6	94.6	93.0	93.0
15°	103.9	94.6	90.0	86.8	86.8	85.3	85.3
17.5°	96.1	88.4	83.7	80.7	79.1	79.1	79.1
20°	88.4	80.7	76.0	74.4	72.8	72.8	71.3
22.5°	82.1	74.4	69.8	68.2	66.7	66.7	65.1
25°	76.0	68.2	63.5	62.0	60.5	58.9	58.9
27.5°	71.3	63.5	58.9	55.8	54.2	52.7	52.7
30°	66.7	57.4	52.7	49.6	48.1	46.5	46.5
32.5°	62.0	52.7	46.5	43.4	41.9	40.3	40.3
35°	55.8	46.5	40.3	38.8	37.2	35.6	34.1
37.5°	51.2	40.3	35.6	32.6	31.0	29.5	29.5
40°	44.9	35.6	31.0	27.9	24.8	23.3	23.3
42.5°	40.3	31.0	26.3	21.7	20.2	18.6	18.6
45°	35.6	27.9	21.7	17.0	15.5	14.0	14.0
47.5°	31.0	23.3	17.0	14.0	12.4	10.9	10.9
50°	26.3	18.6	12.4	9.3	10.9	9.3	9.3
52.5°	23.3	14.0	9.3	9.3	9.3	9.3	9.3
55°	18.6	10.9	7.7	7.7	9.3	9.3	9.3
57.5°	15.5	7.7	6.2	7.7	7.7	7.7	7.7
60°	10.9	6.2	6.2	7.7	7.7	7.7	7.7
62.5°	9.3	6.2	6.2	6.2	7.7	7.7	7.7
64°	7.7	6.2	6.2	6.2	7.7	7.7	7.7
65°	7.7	6.2	6.2	6.2	7.7	7.7	7.7
67.5°	7.7	6.2	6.2	6.2	7.7	7.7	7.7
70°	6.2	6.2	6.2	6.2	7.7	7.7	7.7
72.5°	6.2	6.2	6.2	6.2	7.7	7.7	7.7
75°	6.2	6.2	6.2	6.2	7.7	7.7	7.7
77.5°	6.2	6.2	6.2	7.7	7.7	7.7	7.7
80°	6.2	6.2	6.2	7.7	7.7	7.7	7.7
82.5°	6.2	6.2	6.2	7.7	7.7	7.7	7.7
85°	6.2	6.2	6.2	7.7	7.7	7.7	7.7
87.5°	6.2	6.2	6.2	7.7	7.7	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)