

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: P180393

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180393
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-F04-LED-E1-SL2-HSS
Description: ICON SITE MEDIUM 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: 5632.2 lumens
Efficiency: N/A
Efficacy: 55.1 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

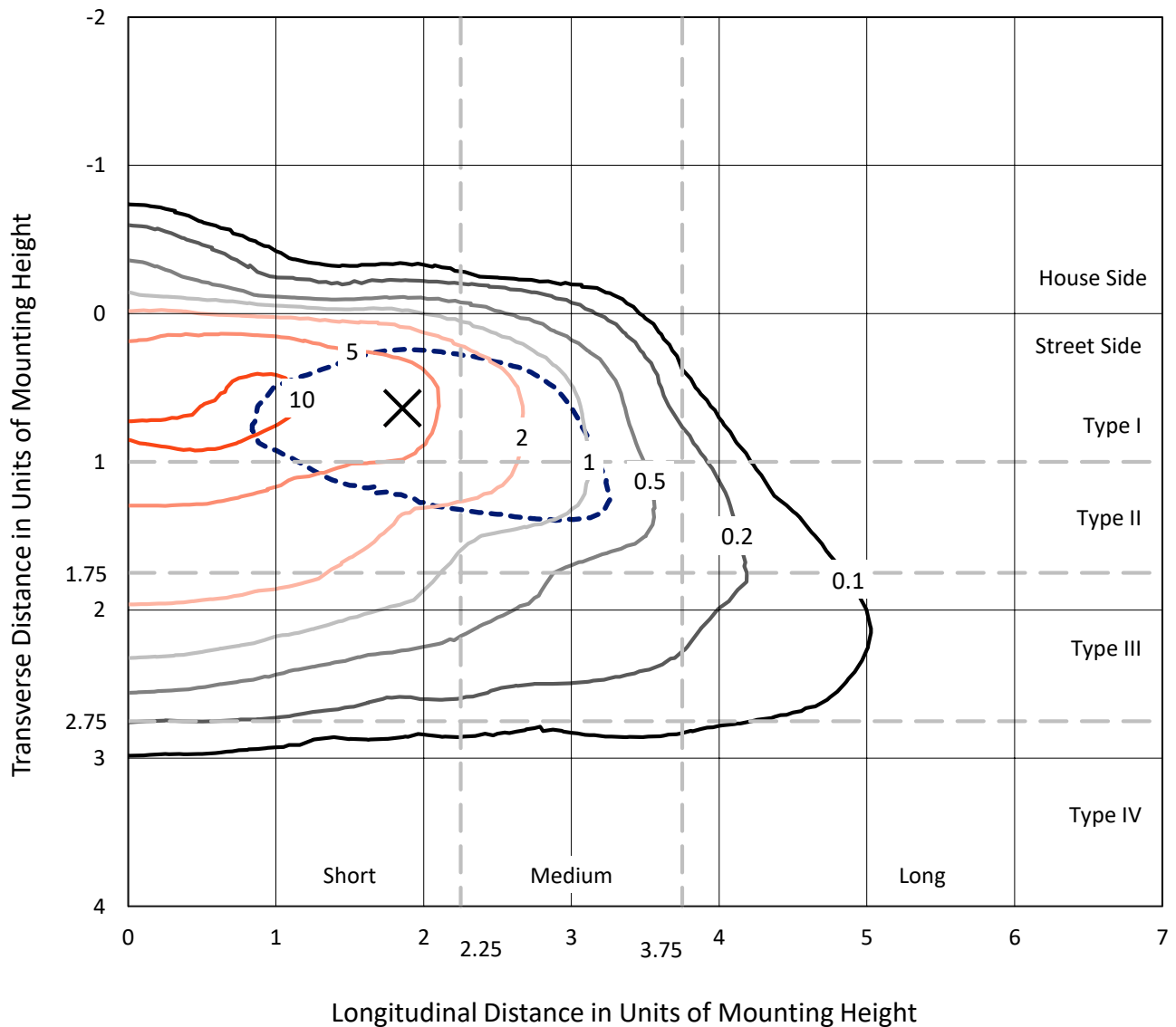


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

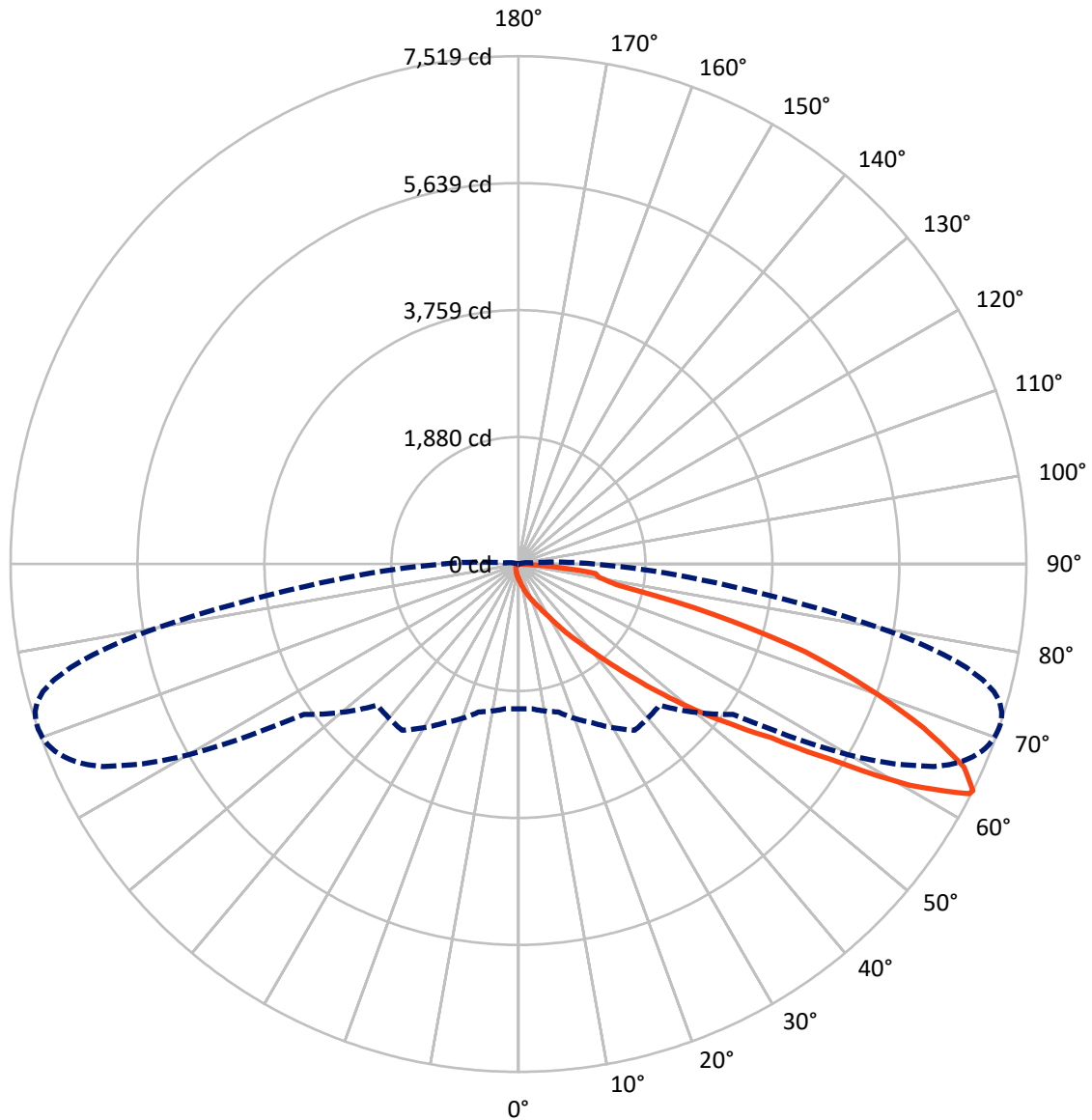


Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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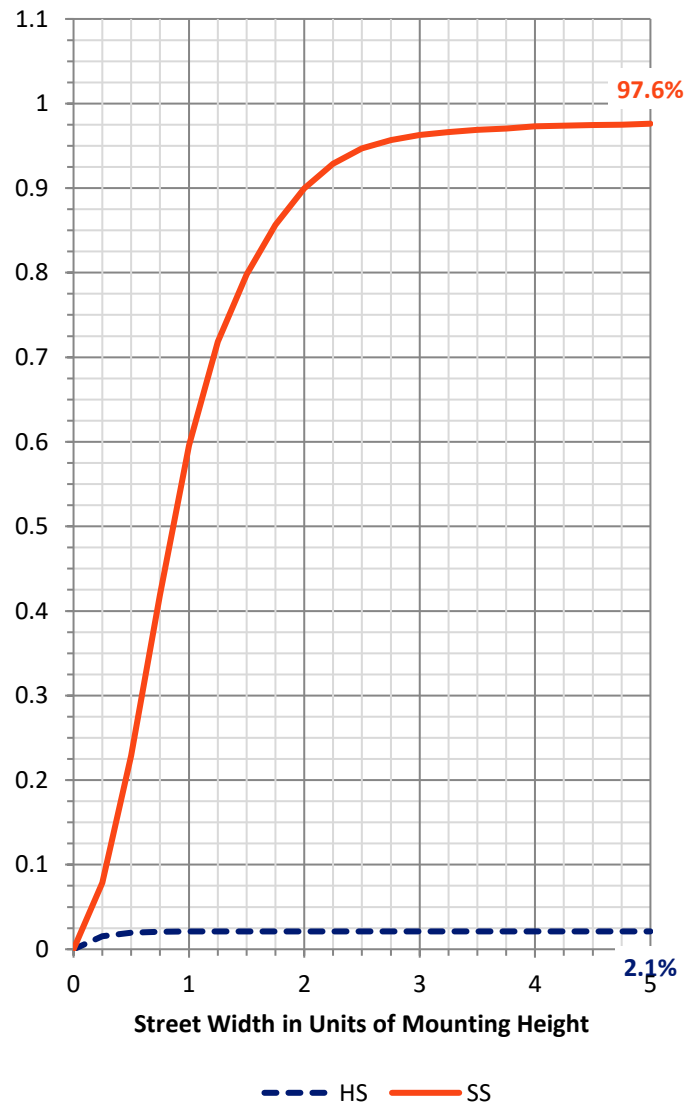
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	119.6	0.0	119.6
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	5512.7	0.0	5512.7
	% Fixture	97.9	0.0	97.9
Total	Lumens	5632.2	0.0	5632.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.9	0.4
10°-20°	92.6	1.6
20°-30°	188.1	3.3
30°-40°	459.6	8.2
40°-50°	1027.8	18.2
50°-60°	1445.2	25.7
60°-70°	1699.4	30.2
70°-80°	613.6	10.9
80°-90°	82.1	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°	5632.2	100.0
0°-180°	5632.2	100.0

Coefficient of Utilization



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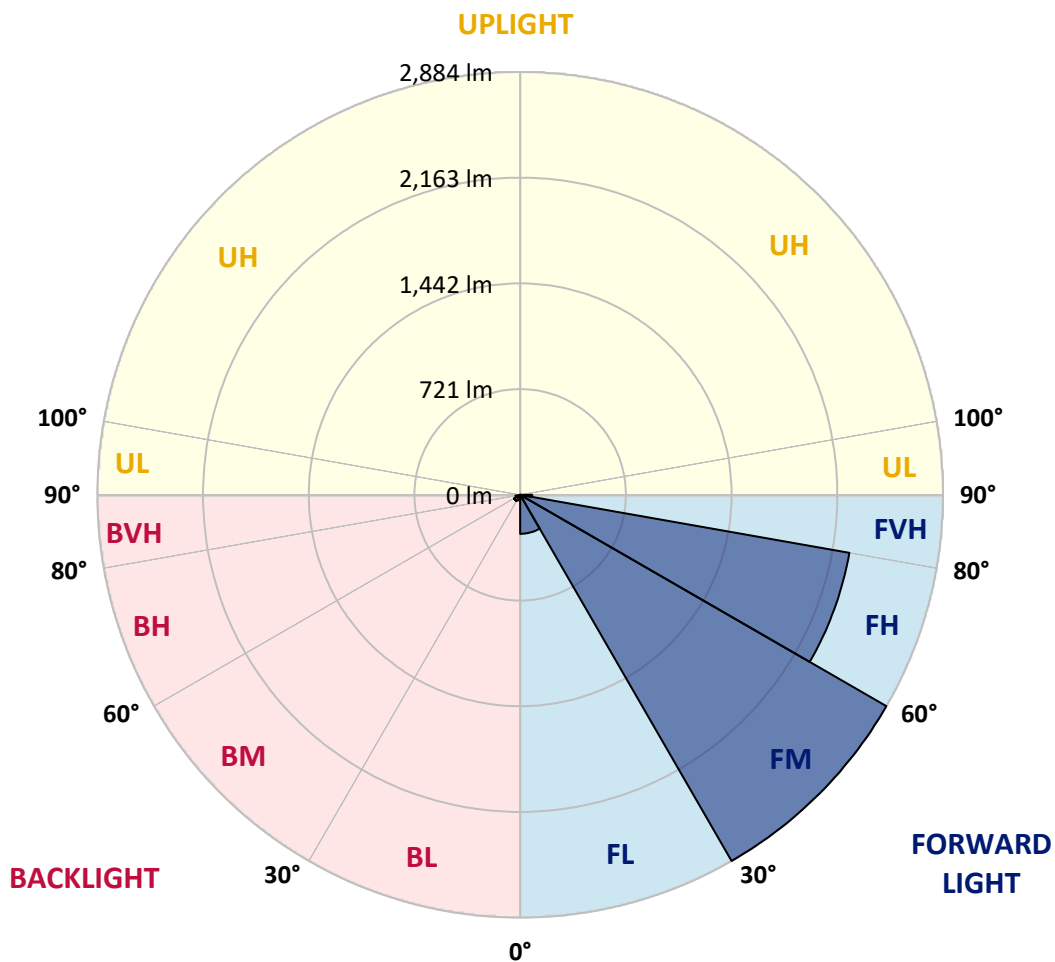
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	266.1	4.7			
FM	(30°-60°)	2884.4	51.2			
FH	(60°-80°)	2280.3	40.5			G2/5000
FVH	(80°-90°)	81.9	1.5			G1/100
BL	(0°-30°)	38.4	0.7	B0/110		
BM	(30°-60°)	48.2	0.9	B0/220		
BH	(60°-80°)	32.8	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°	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0
2.5°	282.6	285.7	283.6	278.5	272.4	264.2	257.0	257.0	256.0	252.9	254.0
5°	370.7	371.7	367.6	355.3	344.0	326.6	307.2	305.1	303.1	300.0	299.0
7.5°	456.7	460.7	456.7	443.4	420.8	394.2	363.4	360.4	354.2	354.2	350.1
10°	544.7	544.7	540.7	525.3	504.7	466.9	428.0	422.9	415.7	413.7	407.5
12.5°	607.2	607.2	605.1	596.9	580.6	546.8	499.6	494.5	485.3	482.2	475.1
15°	631.7	631.7	632.7	639.9	640.9	625.6	576.5	572.4	563.2	555.0	551.9
17.5°	647.1	646.1	646.1	656.3	674.8	685.0	653.2	649.1	638.9	634.8	624.6
20°	680.9	678.9	672.7	672.7	690.1	726.0	726.0	724.9	713.7	710.6	705.5
22.5°	731.1	729.0	710.6	695.3	703.4	748.5	790.4	788.4	784.3	780.2	777.1
25°	813.0	805.9	774.1	729.0	721.9	770.0	839.6	844.7	847.8	847.8	849.9
27.5°	936.8	927.6	871.4	787.4	755.6	804.8	893.9	904.1	913.3	915.4	924.6
30°	1108.9	1092.5	1011.6	888.7	816.1	856.0	973.8	985.0	998.3	1002.4	1016.8
32.5°	1391.5	1382.2	1304.5	1120.2	964.6	956.4	1085.3	1099.7	1117.1	1124.3	1141.7
35°	1821.5	1823.5	1760.1	1594.2	1379.2	1266.6	1285.0	1297.3	1303.4	1324.9	1334.1
37.5°	2113.3	2118.4	2132.9	2067.3	1913.7	1799.0	1654.6	1667.9	1636.2	1639.3	1640.3
40°	2273.1	2289.5	2373.4	2436.9	2424.7	2358.1	2242.3	2249.5	2190.2	2176.9	2112.3
42.5°	2379.5	2401.0	2535.2	2731.8	2832.1	2892.6	2866.0	2862.9	2816.8	2799.4	2745.1
45°	2446.2	2465.6	2634.5	2924.3	3155.7	3331.8	3404.5	3412.7	3373.8	3356.4	3311.4
47.5°	2443.1	2465.6	2646.8	2995.9	3337.0	3618.5	3823.3	3833.5	3857.0	3841.7	3844.8
50°	2307.9	2329.4	2511.6	2874.2	3283.6	3749.6	4124.3	4157.0	4195.0	4220.6	4232.9
52.5°	2144.1	2159.5	2321.2	2665.2	3056.4	3695.3	4302.4	4358.8	4415.1	4463.3	4497.1
55°	2083.6	2101.0	2228.0	2513.7	2874.2	3468.0	4385.4	4468.4	4548.2	4627.1	4691.6
57.5°	2115.4	2131.8	2222.9	2442.1	2765.6	3228.4	4409.0	4538.0	4669.1	4797.1	4924.0
60°	2232.1	2249.5	2327.4	2508.6	2736.9	3090.2	4316.9	4530.8	4748.9	4972.1	5182.0
62.5°	2186.1	2193.2	2307.9	2625.3	2941.7	2972.4	3982.0	4281.0	4613.8	4957.8	5296.7
63°	2142.1	2150.2	2266.9	2593.6	3004.2	2955.0	3878.6	4194.0	4545.1	4915.8	5284.4
65°	1942.3	1943.4	2032.5	2290.5	2934.5	2985.7	3417.8	3718.8	4122.3	4566.6	5032.5
67.5°	1449.9	1442.7	1528.7	1725.3	2303.8	2986.7	2933.5	3102.4	3383.0	3777.2	4195.0
70°	514.0	502.7	642.0	914.3	1435.5	2443.1	2520.9	2532.1	2610.0	2822.9	3085.0
72.5°	166.9	170.0	204.7	334.8	661.5	1644.4	2282.3	2247.5	2227.0	2226.0	2260.8
75°	66.5	67.5	82.0	148.5	296.9	792.5	1998.7	2018.2	2025.3	2035.5	2046.8
77.5°	31.7	34.8	46.0	83.0	147.4	392.2	1430.4	1595.3	1689.5	1762.2	1806.2
80°	11.3	13.3	25.6	51.2	68.6	180.2	753.6	909.2	1047.4	1225.6	1379.2
82.5°	0.0	0.0	5.1	35.8	37.9	72.7	309.2	362.4	414.7	537.6	690.1
85°	0.0	0.0	0.0	10.2	11.3	12.3	104.5	126.0	141.3	164.8	190.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1	6.1	15.3	23.5
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0
2.5°	251.9	250.9	250.9	248.8	247.8	245.8	244.7	241.7	240.7	240.7	240.7
5°	298.0	293.9	291.8	286.7	283.6	282.6	277.5	275.4	272.4	273.4	268.3
7.5°	349.1	342.0	338.9	331.7	329.7	322.5	320.5	315.4	312.3	306.1	304.1
10°	405.5	396.3	391.2	379.9	376.8	371.7	365.5	359.4	354.2	348.1	345.0
12.5°	470.0	461.8	457.7	442.3	435.2	428.0	419.8	411.6	403.4	398.3	391.2
15°	545.8	532.5	528.4	514.0	501.7	492.5	481.2	471.0	464.8	454.6	447.4
17.5°	620.5	607.2	604.1	582.6	569.3	563.2	550.9	537.6	526.3	516.1	504.7
20°	695.3	686.1	677.9	657.3	643.0	632.7	616.4	603.1	593.9	579.5	565.2
22.5°	770.0	760.7	754.6	733.1	719.8	705.5	691.2	676.8	663.5	646.1	629.7
25°	846.8	840.7	837.6	818.1	805.9	792.5	778.1	761.8	745.4	726.0	708.6
27.5°	926.6	928.7	922.5	918.4	905.1	895.9	873.4	862.1	849.9	826.3	804.8
30°	1028.0	1034.1	1032.1	1035.2	1027.0	1020.8	1003.4	989.1	974.8	952.3	927.6
32.5°	1156.0	1164.2	1168.3	1179.5	1175.4	1173.4	1168.3	1147.8	1137.6	1098.7	1088.4
35°	1353.6	1349.5	1366.9	1376.1	1372.0	1370.0	1363.8	1352.6	1340.3	1312.7	1287.1
37.5°	1610.6	1614.7	1620.8	1602.4	1590.1	1589.1	1570.7	1559.5	1542.1	1511.3	1480.6
40°	2081.6	2056.0	2027.4	1949.5	1915.7	1896.3	1842.1	1826.6	1796.9	1755.0	1723.3
42.5°	2693.9	2668.3	2582.3	2452.3	2382.6	2286.4	2242.3	2188.1	2146.2	2077.5	2040.7
45°	3302.2	3228.4	3218.2	3066.6	2980.6	2853.7	2774.8	2683.6	2588.5	2498.3	2432.9
47.5°	3815.1	3798.7	3748.6	3656.4	3576.5	3470.1	3368.7	3228.4	3130.1	3002.2	2884.4
50°	4225.7	4224.7	4206.3	4153.0	4086.4	4000.4	3911.4	3792.6	3681.0	3524.3	3398.3
52.5°	4532.9	4549.2	4555.4	4539.0	4513.4	4437.6	4392.6	4293.2	4199.1	4066.0	3929.8
55°	4758.2	4818.5	4849.2	4884.0	4876.9	4850.3	4848.2	4783.8	4740.7	4635.3	4539.0
57.5°	5036.6	5135.9	5231.2	5400.1	5406.3	5465.6	5496.4	5527.1	5535.3	5493.3	5461.5
60°	5390.9	5593.6	5773.8	6127.1	6219.3	6364.7	6458.8	6561.2	6648.2	6655.4	6653.3
62.5°	5640.8	5953.1	6243.9	6768.0	6947.2	7115.2	7241.1	7340.4	7400.9	7462.3	7490.9
63°	5647.9	5989.9	6299.1	6839.8	7028.1	7187.9	7307.7	7399.9	7463.3	7500.1	7518.6
65°	5474.8	5889.5	6258.2	6796.7	6973.9	7134.6	7197.1	7257.5	7288.2	7302.6	7248.3
67.5°	4640.4	5045.8	5475.8	6078.0	6229.5	6422.0	6473.2	6503.9	6518.3	6515.2	6469.1
70°	3470.1	3810.0	4288.1	4976.2	5176.9	5365.3	5482.0	5532.2	5548.6	5543.5	5474.8
72.5°	2422.6	2622.2	3016.5	3782.3	4055.7	4297.3	4441.7	4516.5	4531.8	4501.1	4437.6
75°	2034.5	2044.8	2133.9	2552.6	2808.6	3066.6	3229.4	3276.5	3245.8	3152.7	2990.8
77.5°	1816.4	1839.0	1839.0	1901.4	1951.5	2023.3	2038.6	1923.9	1790.8	1618.8	1479.5
80°	1523.5	1602.4	1657.7	1703.8	1708.9	1694.6	1656.7	1592.2	1489.8	1358.7	1213.3
82.5°	925.6	1081.2	1144.8	1382.2	1499.0	1577.9	1571.7	1485.7	1407.9	1271.7	1147.8
85°	233.5	251.9	273.4	355.3	398.3	486.3	541.7	567.3	576.5	529.4	479.2
87.5°	22.5	15.3	25.6	19.4	27.6	20.5	27.6	25.6	31.7	33.8	36.8
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0
2.5°	238.6	237.6	236.6	235.5	234.5	233.5	231.4	231.4	229.4	228.4	227.4
5°	265.2	263.2	262.1	260.1	257.0	255.0	251.9	247.8	244.7	243.7	241.7
7.5°	299.0	293.9	291.8	288.7	284.7	278.5	274.4	271.4	266.2	263.2	257.0
10°	336.8	331.7	325.6	319.4	313.3	306.1	301.0	296.9	288.7	284.7	277.5
12.5°	385.0	375.8	368.7	360.4	352.2	344.0	337.9	325.6	318.4	309.2	303.1
15°	434.1	426.0	417.8	407.5	395.3	382.0	375.8	364.5	355.3	340.9	332.7
17.5°	493.5	478.1	465.9	453.6	442.3	430.0	417.8	400.4	387.1	374.8	358.3
20°	551.9	533.5	520.2	503.7	487.4	467.9	453.6	441.3	422.9	406.5	389.1
22.5°	614.3	595.9	574.4	558.0	535.5	520.2	500.7	480.2	461.8	440.3	418.8
25°	690.1	670.7	646.1	624.6	599.0	577.5	554.0	530.4	507.8	483.3	455.6
27.5°	783.3	762.8	736.2	710.6	676.8	650.1	627.6	595.9	567.3	536.6	504.7
30°	901.0	878.5	845.8	808.9	775.1	745.4	713.7	671.7	639.9	603.1	562.1
32.5°	1054.6	1028.0	984.0	949.1	907.2	868.3	824.3	782.2	737.2	689.1	642.0
35°	1248.2	1223.5	1172.4	1121.2	1075.1	1029.0	973.8	925.6	862.1	803.7	743.4
37.5°	1448.8	1404.8	1357.7	1302.4	1245.1	1189.8	1122.2	1055.6	983.0	919.4	843.7
40°	1678.1	1624.9	1586.1	1526.6	1445.8	1366.9	1304.5	1221.5	1130.4	1045.4	956.4
42.5°	1992.6	1933.1	1863.5	1773.4	1715.1	1622.9	1542.1	1443.7	1323.9	1228.7	1121.2
45°	2356.0	2275.2	2207.5	2120.5	2049.9	1935.2	1841.0	1710.0	1590.1	1465.2	1334.1
47.5°	2770.7	2670.3	2572.1	2486.1	2373.4	2260.8	2141.0	2001.8	1848.2	1711.0	1555.4
50°	3246.8	3104.5	2968.3	2857.8	2703.1	2573.1	2443.1	2286.4	2116.4	1958.7	1781.6
52.5°	3776.2	3611.4	3431.1	3261.1	3082.0	2915.1	2758.4	2578.2	2388.8	2196.3	1998.7
55°	4415.1	4291.2	4079.3	3863.2	3623.7	3400.4	3198.7	2975.5	2745.1	2492.2	2284.4
57.5°	5415.5	5355.1	5177.9	4961.9	4649.6	4378.3	4036.3	3762.9	3429.0	3080.9	2812.7
60°	6771.1	6696.4	6597.1	6422.0	6174.2	5805.6	5428.8	5003.8	4496.0	4013.7	3556.0
62.5°	7494.0	7467.4	7386.5	7265.7	7034.3	6743.5	6363.6	5896.7	5323.3	4737.6	4154.0
63°	7515.5	7481.7	7412.1	7289.3	7085.4	6803.9	6431.2	5977.6	5416.5	4819.6	4223.7
65°	7224.7	7211.4	7140.8	7006.6	6867.4	6652.3	6363.6	5973.5	5502.5	4938.4	4345.5
67.5°	6407.7	6367.8	6259.2	6218.3	6121.0	5971.5	5751.3	5483.0	5146.2	4702.8	4190.9
70°	5419.6	5360.2	5224.0	5151.3	5032.5	4938.4	4804.2	4612.8	4404.9	4095.7	3713.7
72.5°	4372.1	4249.2	4124.3	3934.9	3769.0	3601.1	3452.7	3317.5	3089.1	2964.2	2674.4
75°	2839.3	2616.1	2402.1	2115.4	1857.4	1629.0	1406.9	1294.2	1059.7	964.6	828.4
77.5°	1347.5	1222.5	1054.6	924.6	758.7	619.4	505.8	379.9	298.0	233.5	178.1
80°	1087.4	982.0	880.6	762.8	637.9	508.8	390.1	291.8	206.8	143.3	101.4
82.5°	969.7	855.0	730.1	649.1	564.2	461.8	378.9	309.2	228.4	166.9	113.7
85°	376.8	317.4	244.7	199.6	155.6	128.0	115.7	79.9	62.4	49.1	37.9
87.5°	32.7	26.6	21.5	14.3	15.3	8.2	9.2	6.1	5.1	5.1	4.1
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0
2.5°	226.3	225.3	224.3	222.2	222.2	220.2	219.1	218.0	212.9	201.7	192.5
5°	237.6	235.5	233.5	230.4	228.4	225.3	223.3	220.2	208.8	187.3	168.9
7.5°	254.0	249.9	246.8	240.7	237.6	233.5	230.4	225.3	206.8	174.0	148.5
10°	273.4	266.2	261.1	254.0	247.8	242.7	237.6	230.4	204.7	159.7	130.0
12.5°	296.9	288.7	278.5	270.3	262.1	255.0	247.8	238.6	201.7	147.4	115.7
15°	320.5	308.2	301.0	289.8	278.5	268.3	258.0	249.9	202.7	134.1	103.4
17.5°	347.1	334.8	319.4	307.2	294.9	281.6	269.3	252.9	197.6	123.9	94.2
20°	372.7	355.3	340.9	325.6	308.2	291.8	276.5	262.1	193.5	113.7	86.0
22.5°	400.4	379.9	361.4	342.0	320.5	302.0	283.6	265.2	186.3	104.5	78.9
25°	434.1	410.6	384.0	360.4	337.9	315.4	291.8	269.3	179.2	96.3	73.8
27.5°	475.1	444.4	417.8	388.1	356.3	327.6	302.0	277.5	172.0	90.1	68.6
30°	527.4	491.4	453.6	415.7	382.0	349.1	313.3	282.6	164.8	84.0	63.4
32.5°	596.9	551.9	505.8	461.8	416.7	374.8	336.8	296.9	160.7	78.9	58.3
35°	689.1	630.7	574.4	519.2	464.8	413.7	364.5	319.4	160.7	72.7	52.2
37.5°	776.1	708.6	636.8	568.3	503.7	444.4	386.0	331.7	152.6	67.5	47.1
40°	870.3	789.4	705.5	624.6	546.8	473.0	406.5	344.0	145.4	61.4	42.0
42.5°	1014.7	912.3	802.7	708.6	615.4	524.3	441.3	367.6	136.2	55.3	36.8
45°	1204.1	1074.1	945.0	830.4	711.6	600.0	501.7	410.6	134.1	50.1	31.7
47.5°	1406.9	1253.3	1101.8	955.4	816.1	686.1	568.3	458.7	134.1	45.0	27.6
50°	1608.6	1416.1	1254.3	1084.3	927.6	774.1	633.8	508.8	135.2	40.9	22.5
52.5°	1790.8	1585.0	1403.8	1207.2	1034.1	856.0	703.4	558.0	133.1	35.8	18.4
55°	2043.7	1802.1	1592.2	1375.1	1172.4	971.7	798.6	631.7	134.1	31.7	15.3
57.5°	2509.6	2226.0	1973.0	1688.5	1455.0	1195.9	986.1	783.3	146.4	26.6	11.3
60°	3178.3	2809.6	2454.3	2107.2	1810.2	1502.1	1229.7	991.2	172.0	21.5	8.2
62.5°	3627.7	3145.5	2721.6	2338.6	1993.6	1671.0	1374.1	1102.8	189.4	17.4	5.1
63°	3673.8	3175.2	2749.2	2354.0	2001.8	1679.2	1380.2	1111.0	190.4	16.4	5.1
65°	3760.9	3226.3	2764.6	2357.0	1993.6	1667.9	1376.1	1110.0	192.5	13.3	4.1
67.5°	3661.5	3147.6	2675.5	2269.0	1921.9	1601.4	1324.9	1068.9	191.4	9.2	3.1
70°	3274.4	2848.5	2433.9	2055.0	1739.6	1449.9	1206.1	974.8	176.1	6.1	2.0
72.5°	2404.1	2114.3	1792.8	1519.5	1310.6	1088.4	928.7	732.1	136.2	4.1	1.0
75°	712.7	649.1	545.8	481.2	424.9	351.2	312.3	243.7	69.6	2.0	0.0
77.5°	142.3	129.0	115.7	105.5	99.3	85.0	80.9	66.5	28.7	1.0	0.0
80°	74.8	61.4	52.2	46.0	39.9	32.7	27.6	22.5	5.1	0.0	0.0
82.5°	71.6	48.1	34.8	28.7	24.6	19.4	15.3	11.3	3.1	0.0	0.0
85°	26.6	20.5	15.3	12.3	10.2	9.2	7.2	6.1	0.0	0.0	0.0
87.5°	4.1	3.1	3.1	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°	216.0	216.0	216.0	216.0	216.0	216.0	216.0
2.5°	183.3	175.1	171.0	165.9	165.9	164.8	166.9
5°	152.6	141.3	133.1	127.0	128.0	124.9	126.0
7.5°	129.0	117.8	110.6	106.5	105.5	104.5	104.5
10°	111.6	101.4	95.3	92.2	91.2	91.2	91.2
12.5°	99.3	89.1	84.0	82.0	82.0	80.9	80.9
15°	89.1	80.9	75.8	73.8	73.8	72.7	73.8
17.5°	80.9	72.7	68.6	66.5	66.5	65.5	65.5
20°	73.8	66.5	62.4	59.3	59.3	58.3	59.3
22.5°	67.5	60.4	55.3	53.2	52.2	51.2	52.2
25°	61.4	54.2	49.1	46.0	45.0	45.0	44.0
27.5°	56.3	49.1	43.0	39.9	38.9	38.9	37.9
30°	51.2	43.0	36.8	33.8	32.7	32.7	32.7
32.5°	46.0	36.8	31.7	28.7	27.6	27.6	27.6
35°	40.9	31.7	26.6	23.5	22.5	22.5	22.5
37.5°	34.8	26.6	20.5	18.4	17.4	16.4	16.4
40°	29.7	20.5	15.3	13.3	11.3	11.3	11.3
42.5°	24.6	16.4	11.3	8.2	7.2	6.1	7.2
45°	20.5	12.3	7.2	4.1	3.1	3.1	3.1
47.5°	16.4	8.2	3.1	1.0	1.0	1.0	1.0
50°	12.3	5.1	1.0	0.0	0.0	1.0	1.0
52.5°	9.2	3.1	0.0	0.0	0.0	0.0	0.0
55°	5.1	1.0	0.0	0.0	0.0	0.0	0.0
57.5°	3.1	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)