

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: P180733

Luminaire Tested: **ICS-F02-LED-E1-SL3**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180733
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F02-LED-E1-SL3
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4511.8 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

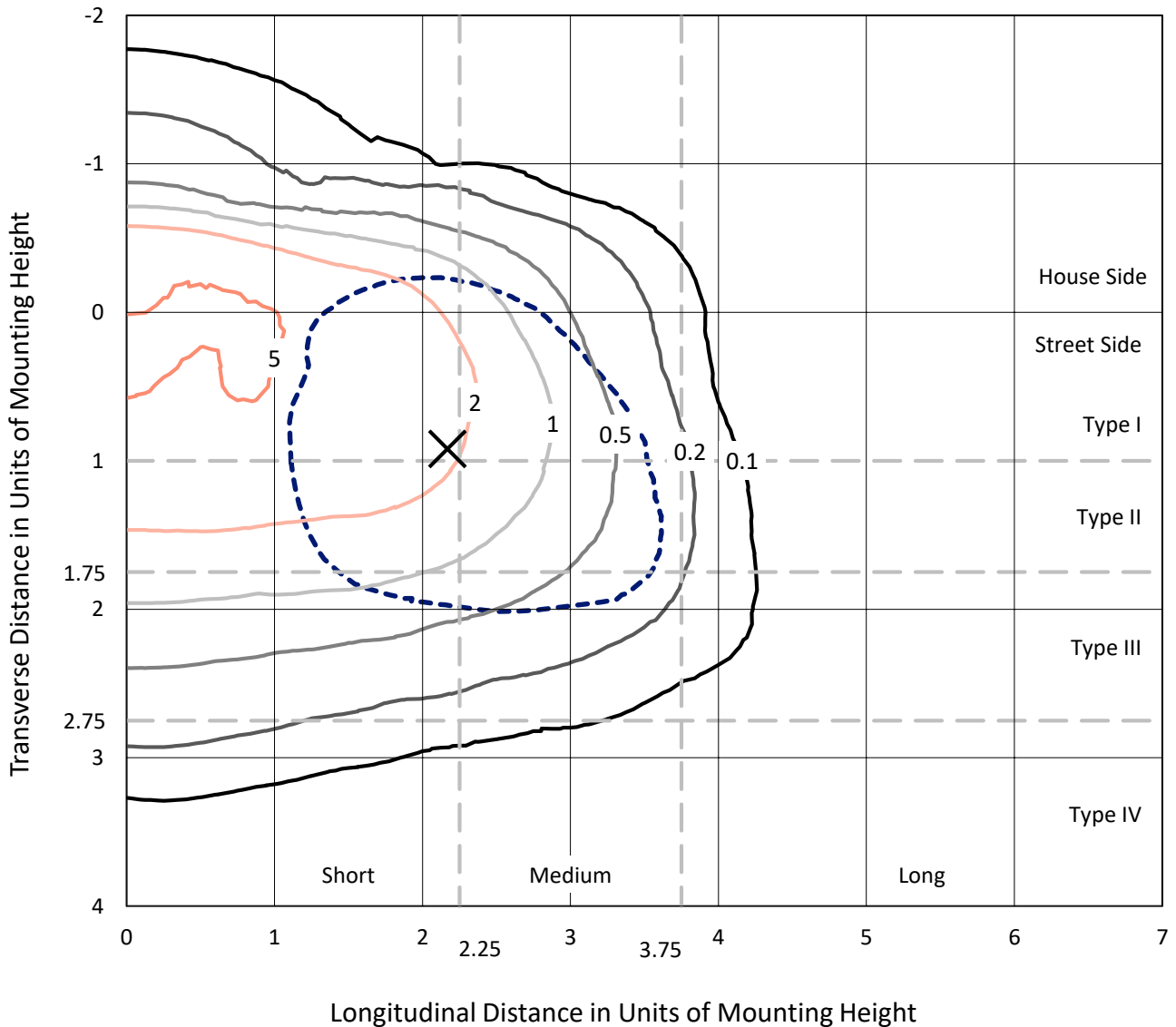
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

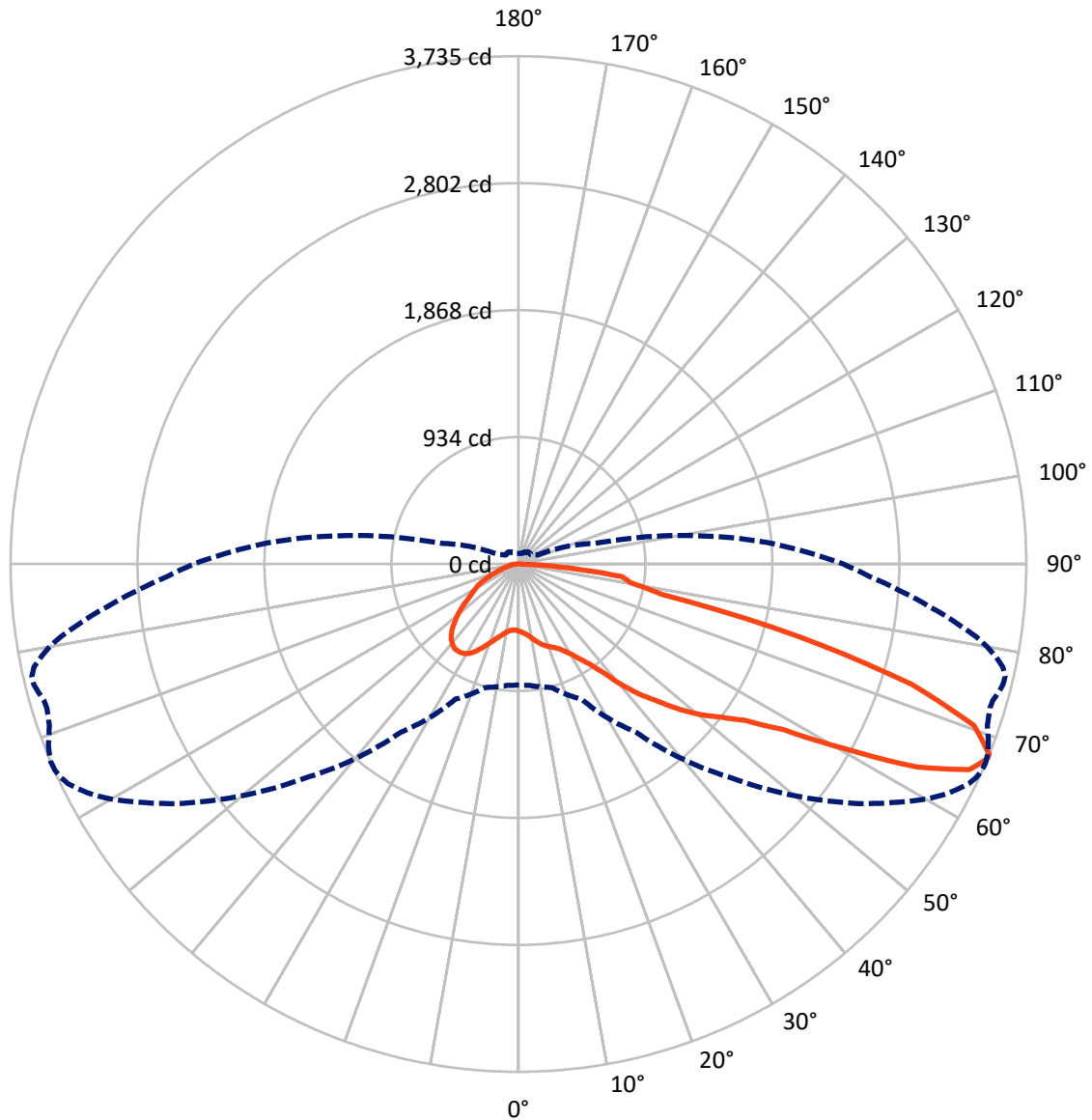
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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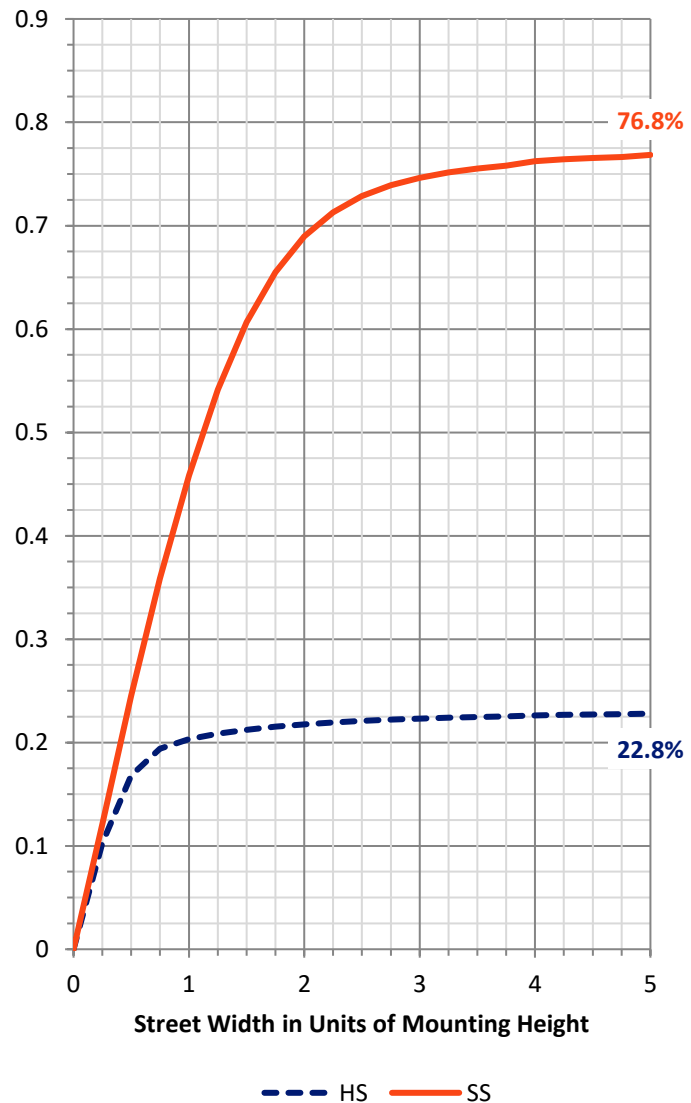
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1041.2	0.0	1041.2
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	3470.6	0.0	3470.6
	% Fixture	76.9	0.0	76.9
Total	Lumens	4511.8	0.0	4511.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	1.1
10°-20°	168.3	3.7
20°-30°	297.1	6.6
30°-40°	426.5	9.5
40°-50°	647.7	14.4
50°-60°	953.6	21.1
60°-70°	1267.3	28.1
70°-80°	620.0	13.7
80°-90°	82.3	1.8
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°	4511.8	100.0
0°-180°	4511.8	100.0



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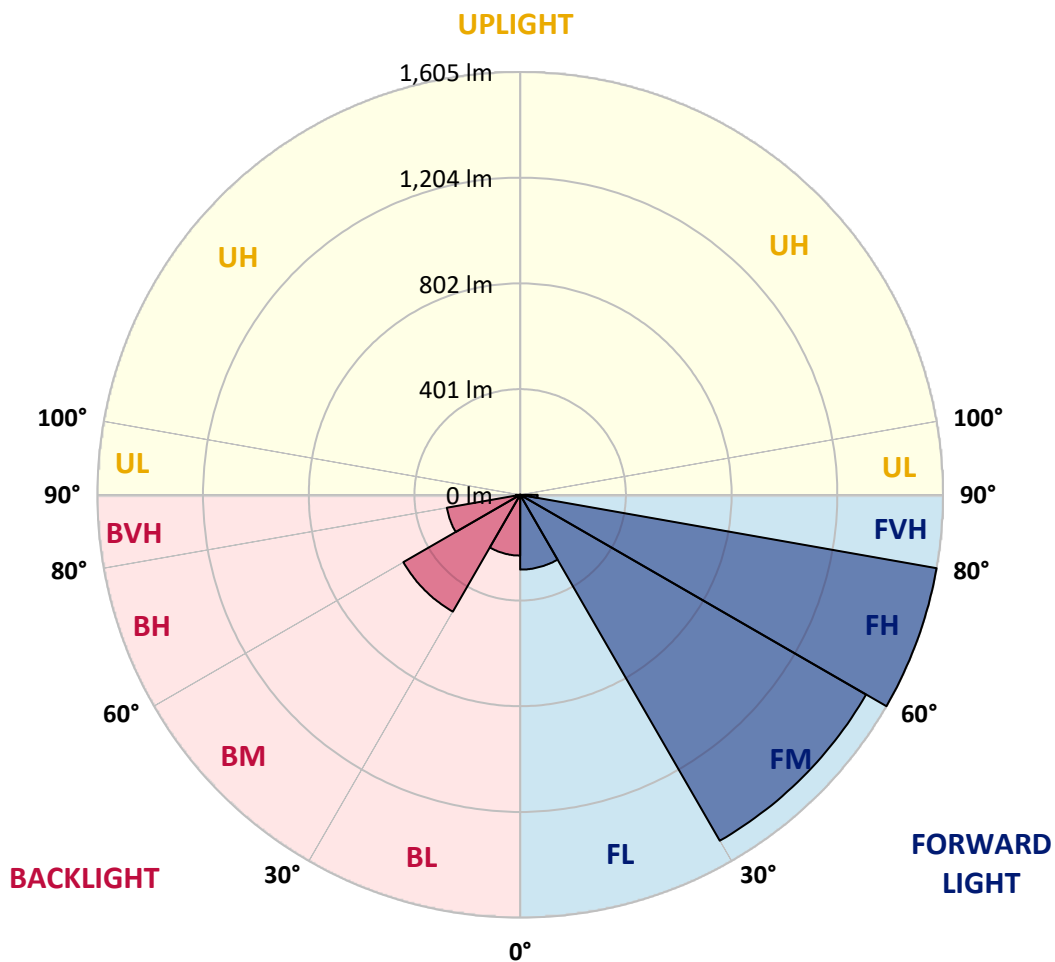
CATALOG NUMBER: ICS-F02-LED-E1-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	283.8	6.3			
FM	(30°-60°)	1515.9	33.6			
FH	(60°-80°)	1604.8	35.6			G1/1800
FVH	(80°-90°)	66.1	1.5			G1/100
BL	(0°-30°)	230.6	5.1	B1/500		
BM	(30°-60°)	511.9	11.3	B1/1000		
BH	(60°-80°)	282.5	6.3	B1/500		G1/500
BVH	(80°-90°)	16.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9
2.5°	516.1	516.6	515.7	515.2	512.2	509.2	507.2	504.8	504.8	504.8	503.8
5°	545.4	543.4	544.9	541.4	535.5	530.0	524.6	520.1	519.1	519.1	517.1
7.5°	580.5	578.1	577.1	572.1	563.2	555.3	544.4	539.9	537.4	536.5	535.5
10°	623.1	623.1	616.7	608.3	596.4	582.5	570.6	562.7	562.2	562.2	557.8
12.5°	666.7	667.7	659.3	650.9	631.6	613.2	599.4	590.4	590.0	588.0	585.5
15°	706.9	704.4	698.9	686.5	665.2	643.4	626.1	617.2	615.2	613.2	611.7
17.5°	740.0	737.6	730.6	714.8	692.5	666.7	645.4	636.0	635.0	634.0	632.1
20°	760.8	758.9	749.0	730.6	707.3	681.1	658.3	651.9	649.9	649.9	648.9
22.5°	772.7	769.8	755.4	731.1	708.3	689.0	670.2	666.2	664.7	665.2	665.2
25°	778.7	776.2	755.9	721.2	699.4	694.0	686.0	683.6	684.1	684.6	685.6
27.5°	779.7	776.2	752.4	708.3	688.0	703.4	708.8	712.8	712.8	714.8	718.2
30°	772.2	768.3	745.5	698.4	683.1	722.2	744.0	754.4	758.4	757.4	765.3
32.5°	759.4	756.9	738.6	698.4	696.9	759.4	798.0	812.9	814.8	815.8	824.7
35°	754.9	754.4	746.5	722.2	740.0	824.7	883.7	895.1	897.6	897.6	904.0
37.5°	753.9	756.4	765.3	766.8	815.8	921.8	999.1	1016.4	1016.4	1021.4	1021.4
40°	753.9	759.4	793.0	833.2	908.5	1048.1	1155.1	1175.0	1175.0	1180.4	1177.4
42.5°	783.1	791.1	846.5	922.8	1025.4	1178.4	1301.3	1323.6	1325.0	1323.6	1328.0
45°	840.6	847.5	914.9	1024.4	1145.7	1318.1	1440.9	1467.7	1462.2	1465.7	1467.2
47.5°	916.9	927.8	1004.6	1135.3	1263.1	1447.4	1597.5	1621.7	1619.8	1621.3	1614.8
50°	998.1	1009.5	1095.2	1245.3	1380.0	1551.4	1723.3	1759.5	1756.0	1758.5	1761.9
52.5°	1069.9	1076.9	1159.6	1328.0	1468.7	1648.5	1819.9	1865.0	1872.9	1873.9	1876.4
55°	1112.5	1121.0	1196.7	1369.1	1533.1	1743.6	1930.3	1998.7	2014.1	2018.0	2028.9
57.5°	1127.4	1136.3	1205.2	1375.1	1568.3	1832.8	2084.4	2204.8	2217.6	2238.9	2273.6
60°	1126.9	1136.3	1196.3	1361.7	1603.9	1943.2	2324.1	2525.7	2591.1	2612.9	2662.5
62.5°	1080.8	1091.7	1152.7	1321.1	1649.5	2084.4	2680.8	2990.9	3075.1	3114.7	3168.2
65°	979.8	987.7	1044.7	1218.0	1636.6	2223.6	2979.0	3365.8	3442.6	3500.6	3596.2
67°	890.1	895.1	939.7	1096.2	1510.8	2228.5	3073.1	3459.0	3525.8	3587.3	3685.8
67.5°	867.3	877.7	912.4	1059.0	1463.7	2200.3	3066.7	3444.6	3513.0	3576.9	3680.9
70°	705.9	720.7	738.1	836.6	1150.7	1851.1	2839.3	3195.9	3255.9	3315.3	3460.5
72.5°	435.4	462.2	465.6	528.0	749.0	1279.5	2297.4	2695.2	2740.2	2782.8	2931.4
75°	256.6	260.5	272.9	323.5	439.4	764.8	1541.5	2002.2	2043.8	2064.6	2181.0
77.5°	143.2	147.1	157.5	201.1	337.8	515.2	897.6	1176.4	1201.7	1228.0	1209.1
80°	59.4	64.9	69.8	81.2	158.0	406.7	617.2	748.0	764.3	779.7	799.0
82.5°	28.7	30.7	37.6	43.1	57.5	166.9	483.9	648.4	667.7	690.0	735.1
85°	13.4	14.9	20.8	24.8	27.7	42.1	162.0	315.5	342.3	347.2	356.2
87.5°	1.0	1.0	2.5	3.5	5.0	5.4	16.8	23.8	26.7	24.3	30.7
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9
2.5°	503.3	502.8	501.8	501.8	501.3	501.3	501.3	500.3	500.3	500.3	499.8
5°	516.6	516.1	514.7	514.7	513.7	513.7	512.2	511.7	510.7	510.7	510.2
7.5°	534.0	533.5	531.5	531.5	530.0	529.5	528.5	527.0	527.0	526.1	525.1
10°	557.8	556.3	555.8	553.3	553.8	552.8	551.8	550.3	549.3	548.3	547.4
12.5°	584.5	584.5	582.0	580.5	581.5	580.5	578.6	578.1	576.6	576.6	575.1
15°	609.8	609.8	608.8	606.8	607.3	605.8	605.3	604.3	602.3	602.8	602.3
17.5°	631.6	631.6	630.1	629.1	629.1	627.6	628.1	627.1	626.1	625.6	624.1
20°	648.9	648.9	647.9	646.9	647.4	647.4	645.9	645.9	645.9	644.9	644.9
22.5°	665.7	666.2	666.2	666.2	666.7	667.2	666.7	667.7	667.2	668.2	668.2
25°	688.0	689.5	690.5	690.5	693.0	693.5	694.0	695.5	695.5	696.9	697.4
27.5°	721.2	722.2	726.2	727.2	727.7	731.6	732.1	734.1	736.1	736.6	737.1
30°	766.8	769.3	772.2	774.2	774.2	779.2	781.2	780.2	785.6	787.1	789.1
32.5°	827.7	829.7	832.7	834.7	836.6	839.1	839.6	842.1	846.5	850.5	848.0
35°	904.5	909.4	904.5	909.9	911.4	914.9	913.9	916.9	918.9	920.3	919.8
37.5°	1015.9	1013.5	1012.5	1010.5	1007.0	1018.9	1013.0	1012.5	1009.5	1017.9	1012.5
40°	1162.6	1164.1	1165.5	1157.6	1153.2	1153.2	1151.7	1146.2	1143.7	1151.2	1150.2
42.5°	1315.6	1317.1	1310.2	1305.2	1293.8	1292.3	1285.4	1283.9	1281.4	1285.4	1281.4
45°	1454.8	1455.8	1440.5	1442.9	1434.0	1435.5	1424.6	1429.1	1423.1	1427.1	1434.5
47.5°	1610.4	1612.3	1599.0	1604.4	1595.5	1590.0	1589.6	1592.5	1586.1	1590.0	1592.0
50°	1751.5	1749.1	1742.1	1743.6	1739.6	1740.6	1734.7	1740.1	1732.7	1740.6	1739.6
52.5°	1876.9	1873.9	1872.4	1877.3	1873.9	1873.9	1870.4	1872.9	1873.9	1885.8	1888.2
55°	2028.9	2031.4	2033.9	2042.8	2046.8	2040.3	2046.8	2059.1	2059.6	2087.9	2103.2
57.5°	2273.1	2290.5	2299.4	2304.8	2328.1	2325.6	2340.5	2370.2	2373.2	2438.6	2476.7
60°	2699.1	2729.8	2759.1	2743.2	2790.3	2804.6	2813.5	2869.0	2886.4	2948.3	2981.5
62.5°	3237.1	3240.5	3286.1	3271.7	3298.5	3292.0	3302.9	3328.2	3351.0	3402.0	3433.2
65°	3612.5	3628.9	3646.7	3628.4	3627.9	3606.1	3592.2	3591.7	3605.6	3616.5	3651.2
67°	3714.6	3730.9	3735.4	3722.0	3702.7	3674.9	3649.2	3635.8	3626.9	3631.8	3653.6
67.5°	3713.6	3728.9	3734.4	3721.5	3694.8	3671.5	3644.2	3628.9	3617.0	3619.5	3637.8
70°	3502.6	3535.8	3553.6	3557.5	3554.1	3513.5	3490.2	3476.3	3466.4	3442.1	3440.6
72.5°	2967.6	3007.7	3021.6	3043.9	3053.8	2993.8	2968.6	2983.9	2949.3	2872.5	2876.0
75°	2179.0	2182.0	2135.4	2126.5	2093.3	1957.6	1917.0	1879.8	1820.4	1727.8	1640.6
77.5°	1135.8	1135.3	1081.8	1054.6	1015.0	933.2	929.3	862.9	816.3	731.6	700.9
80°	806.9	819.8	837.6	846.5	832.7	801.0	757.4	710.3	656.3	603.3	539.9
82.5°	750.4	758.4	767.8	733.1	713.8	669.2	636.0	567.7	529.5	469.1	405.2
85°	365.1	389.3	370.5	348.7	341.3	267.0	258.1	215.5	195.7	161.0	150.1
87.5°	23.3	28.7	25.8	23.3	20.3	11.4	15.4	10.9	11.4	8.4	7.4
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9
2.5°	499.8	499.3	498.8	498.3	497.8	497.8	497.3	496.8	496.3	495.3	495.3
5°	509.2	509.2	508.7	507.7	507.7	506.7	505.2	504.8	504.8	503.8	502.8
7.5°	524.6	524.1	523.1	522.6	521.6	520.6	519.6	518.6	518.1	516.6	516.1
10°	547.8	546.9	544.4	543.4	542.9	541.9	540.9	539.9	538.4	537.4	537.0
12.5°	574.1	573.6	571.6	572.6	570.1	569.1	568.2	565.7	566.7	564.7	563.7
15°	600.4	600.8	599.9	599.9	597.9	596.4	595.4	593.4	592.9	591.9	590.9
17.5°	623.6	624.6	623.1	622.1	621.2	620.2	618.2	616.2	616.2	614.2	613.2
20°	644.9	645.9	645.4	644.4	643.0	642.5	641.5	640.0	640.0	639.0	637.5
22.5°	669.2	669.7	669.7	669.2	667.7	668.2	667.2	665.7	666.2	664.3	664.3
25°	698.4	699.4	700.4	700.9	699.9	700.4	699.4	698.4	697.9	698.4	697.9
27.5°	738.6	739.5	742.5	740.0	742.5	743.0	741.5	739.5	741.0	743.5	742.0
30°	791.6	790.6	794.5	795.0	794.5	795.0	794.0	792.5	793.5	798.0	795.5
32.5°	851.0	853.0	854.0	855.0	856.4	858.4	856.9	855.5	857.9	856.4	859.9
35°	922.8	927.3	928.8	927.3	928.3	931.7	931.2	931.7	936.7	931.7	938.2
37.5°	1013.5	1017.9	1021.4	1019.4	1021.9	1021.9	1025.9	1036.8	1029.8	1038.7	1045.7
40°	1145.2	1152.2	1152.7	1152.2	1154.6	1157.6	1161.6	1173.5	1165.5	1175.0	1181.4
42.5°	1281.0	1289.4	1292.3	1287.4	1292.8	1299.3	1299.8	1310.2	1310.7	1312.2	1315.6
45°	1434.0	1441.4	1447.4	1444.9	1445.4	1453.8	1451.8	1461.8	1454.3	1454.3	1456.3
47.5°	1597.0	1603.9	1607.9	1611.8	1606.9	1614.3	1617.8	1615.8	1606.9	1604.9	1593.0
50°	1745.6	1751.5	1757.5	1768.4	1767.9	1771.3	1773.8	1764.9	1762.9	1752.0	1738.7
52.5°	1903.1	1918.5	1931.8	1954.6	1958.1	1970.0	1965.5	1950.7	1948.2	1930.3	1912.5
55°	2122.5	2166.6	2185.9	2221.1	2244.9	2244.4	2234.5	2232.0	2213.2	2177.5	2156.2
57.5°	2504.4	2573.3	2606.5	2652.1	2659.5	2655.0	2642.2	2619.4	2586.7	2526.7	2488.1
60°	3055.8	3098.4	3137.0	3147.9	3153.3	3144.9	3099.8	3049.3	2985.4	2902.7	2833.9
62.5°	3472.3	3515.9	3544.7	3540.2	3506.0	3462.9	3397.1	3312.4	3222.7	3130.1	3027.0
65°	3684.4	3702.7	3698.2	3663.5	3605.1	3529.8	3433.7	3329.2	3223.7	3114.2	3007.2
67°	3673.0	3673.5	3643.2	3575.9	3501.1	3406.5	3289.1	3175.1	3051.3	2936.4	2809.1
67.5°	3652.7	3650.7	3608.6	3534.8	3454.0	3356.4	3234.6	3116.7	2988.4	2872.5	2740.7
70°	3422.8	3395.1	3300.0	3182.1	3069.6	2937.9	2810.1	2674.8	2530.2	2430.6	2279.1
72.5°	2812.6	2718.9	2555.0	2431.6	2311.3	2138.9	2059.1	1891.2	1789.7	1726.3	1611.8
75°	1628.7	1550.4	1423.6	1308.2	1249.7	1147.7	1099.2	975.8	950.1	949.1	909.4
77.5°	621.7	542.4	460.7	371.0	315.5	250.6	220.9	197.6	179.8	192.2	174.4
80°	466.1	383.4	299.7	218.0	155.5	114.9	98.6	91.1	86.7	83.2	80.7
82.5°	347.2	273.9	212.5	138.7	97.1	73.3	63.4	59.4	57.5	54.0	51.0
85°	117.4	94.1	74.3	51.5	40.6	33.2	30.7	29.7	28.2	25.8	24.3
87.5°	6.4	5.9	6.4	5.0	5.9	5.0	5.4	5.4	5.4	5.0	5.0
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9
2.5°	494.8	494.8	494.8	493.9	492.4	489.4	486.4	483.9	481.5	480.0	479.0
5°	502.3	501.3	500.8	500.3	496.8	490.9	485.4	480.5	475.5	471.6	470.1
7.5°	515.7	513.7	513.2	511.7	507.2	498.3	490.4	482.5	475.5	470.1	467.6
10°	536.0	536.0	533.0	531.0	526.1	514.2	502.8	492.4	483.0	477.0	475.5
12.5°	561.7	561.7	559.2	557.8	551.8	536.5	522.6	510.2	501.3	495.3	494.8
15°	588.5	588.0	586.0	584.0	577.6	561.2	547.4	536.5	529.0	522.1	520.1
17.5°	612.2	612.2	609.8	607.8	601.3	587.5	575.1	567.2	558.7	544.4	533.5
20°	636.0	636.5	634.5	632.6	627.1	615.2	609.8	601.8	583.0	551.8	526.1
22.5°	662.3	664.3	661.8	659.8	655.3	650.4	648.4	629.6	590.0	539.9	502.3
25°	696.0	699.4	696.5	695.5	693.0	694.5	688.5	644.9	580.0	514.2	467.1
27.5°	742.0	742.0	742.5	742.5	741.5	747.0	725.2	645.4	558.3	481.0	425.0
30°	796.0	799.0	798.0	798.0	802.0	805.4	745.5	634.5	530.5	439.9	373.5
32.5°	860.9	863.4	864.4	859.9	875.8	857.9	752.9	614.7	496.3	388.8	312.1
35°	939.2	942.6	945.1	945.6	956.0	903.5	749.0	585.5	447.3	324.9	244.7
37.5°	1041.2	1048.1	1053.6	1056.1	1056.6	942.1	738.1	546.9	383.4	253.6	182.3
40°	1176.9	1184.4	1182.9	1187.8	1159.6	964.9	713.3	490.9	304.1	186.2	140.7
42.5°	1307.7	1308.7	1310.7	1306.2	1248.8	976.8	678.6	422.5	227.9	139.2	120.4
45°	1453.8	1445.4	1436.0	1429.1	1331.0	981.3	631.1	339.3	161.0	116.9	111.5
47.5°	1591.0	1579.6	1560.3	1540.5	1404.3	974.3	570.1	254.1	122.3	107.0	105.5
50°	1725.8	1704.5	1677.2	1654.4	1474.6	963.9	502.8	183.3	107.0	102.0	100.6
52.5°	1892.7	1857.0	1821.4	1791.7	1566.3	947.6	431.9	139.2	100.6	98.1	96.1
55°	2121.5	2072.0	2014.6	1972.9	1690.6	922.8	357.6	117.9	97.6	95.6	92.6
57.5°	2438.6	2364.3	2299.4	2231.5	1860.5	897.6	293.7	109.5	97.1	94.1	90.2
60°	2762.5	2673.4	2590.6	2493.6	2033.9	872.3	249.2	108.5	98.6	94.1	88.2
62.5°	2930.9	2838.8	2739.2	2640.7	2108.7	812.9	218.4	110.0	102.0	95.6	88.2
65°	2892.3	2779.9	2678.8	2578.3	2022.0	700.4	184.8	111.9	109.0	101.5	89.7
67°	2698.1	2580.7	2483.6	2387.5	1828.8	586.5	158.5	113.9	116.4	108.5	92.6
67.5°	2629.8	2512.4	2416.8	2323.2	1771.8	562.7	152.1	114.9	117.9	110.5	93.6
70°	2180.5	2094.3	1992.8	1920.4	1434.5	416.6	124.8	116.9	126.8	121.9	98.1
72.5°	1569.2	1487.0	1410.7	1370.6	1056.6	291.3	105.0	114.9	132.3	128.3	100.1
75°	834.2	829.2	801.5	821.3	653.9	190.2	92.6	107.5	126.3	117.4	93.1
77.5°	168.4	173.4	203.6	200.6	211.0	106.0	79.3	92.1	97.6	86.2	75.8
80°	78.3	76.8	75.3	76.3	74.8	67.9	64.4	72.3	67.9	55.5	50.5
82.5°	48.5	47.6	46.1	45.6	50.5	54.0	56.5	57.0	45.1	38.6	37.2
85°	23.3	23.3	22.8	23.8	29.7	44.1	47.6	42.1	30.2	27.7	26.3
87.5°	4.5	4.5	5.0	4.5	5.9	10.4	11.9	13.9	11.4	11.9	13.4
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):

	165°	175°	180°
0°	492.9	492.9	492.9
2.5°	478.0	477.0	477.0
5°	468.1	467.6	467.6
7.5°	465.6	466.1	465.6
10°	475.0	474.5	476.5
12.5°	495.8	497.3	496.8
15°	517.6	518.6	518.6
17.5°	524.1	520.6	520.1
20°	507.2	500.8	499.3
22.5°	475.5	463.6	464.1
25°	435.4	421.0	422.0
27.5°	388.8	373.5	373.0
30°	332.9	316.0	307.6
32.5°	265.5	245.2	245.2
35°	199.6	183.3	177.3
37.5°	151.6	142.2	139.2
40°	126.3	121.9	120.9
42.5°	114.9	113.4	112.9
45°	109.0	108.0	107.5
47.5°	103.5	103.0	102.5
50°	99.6	99.1	98.6
52.5°	96.1	95.1	94.6
55°	91.1	91.1	91.1
57.5°	88.2	88.2	87.7
60°	85.2	84.7	84.7
62.5°	82.7	81.7	82.2
65°	81.2	79.8	79.8
67°	80.2	77.3	77.3
67.5°	80.2	76.3	76.3
70°	78.8	72.3	71.3
72.5°	77.3	67.9	66.4
75°	73.3	64.4	62.9
77.5°	62.9	57.5	56.5
80°	48.5	42.1	43.1
82.5°	35.2	30.2	29.7
85°	25.3	21.8	21.8
87.5°	13.4	11.4	11.9
90°	0.0	0.0	0.0

(END OF REPORT)