

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: P181489

Luminaire Tested: **ICS-E02-LED-E1-T3**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181489
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-E02-LED-E1-T3
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5551.3 lumens
Efficiency: N/A
Efficacy: 106.6 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: B2 - U0 - G2

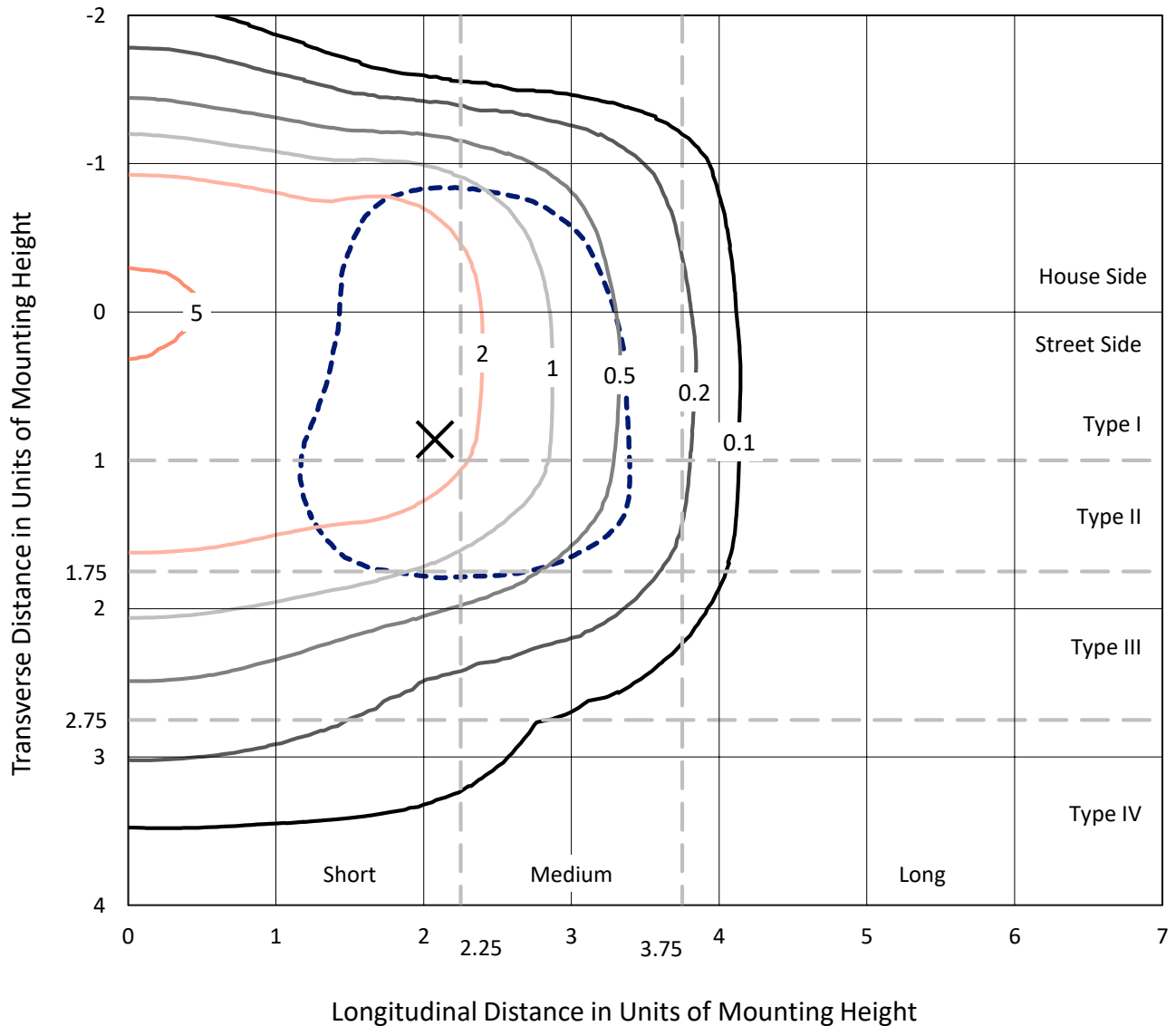
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

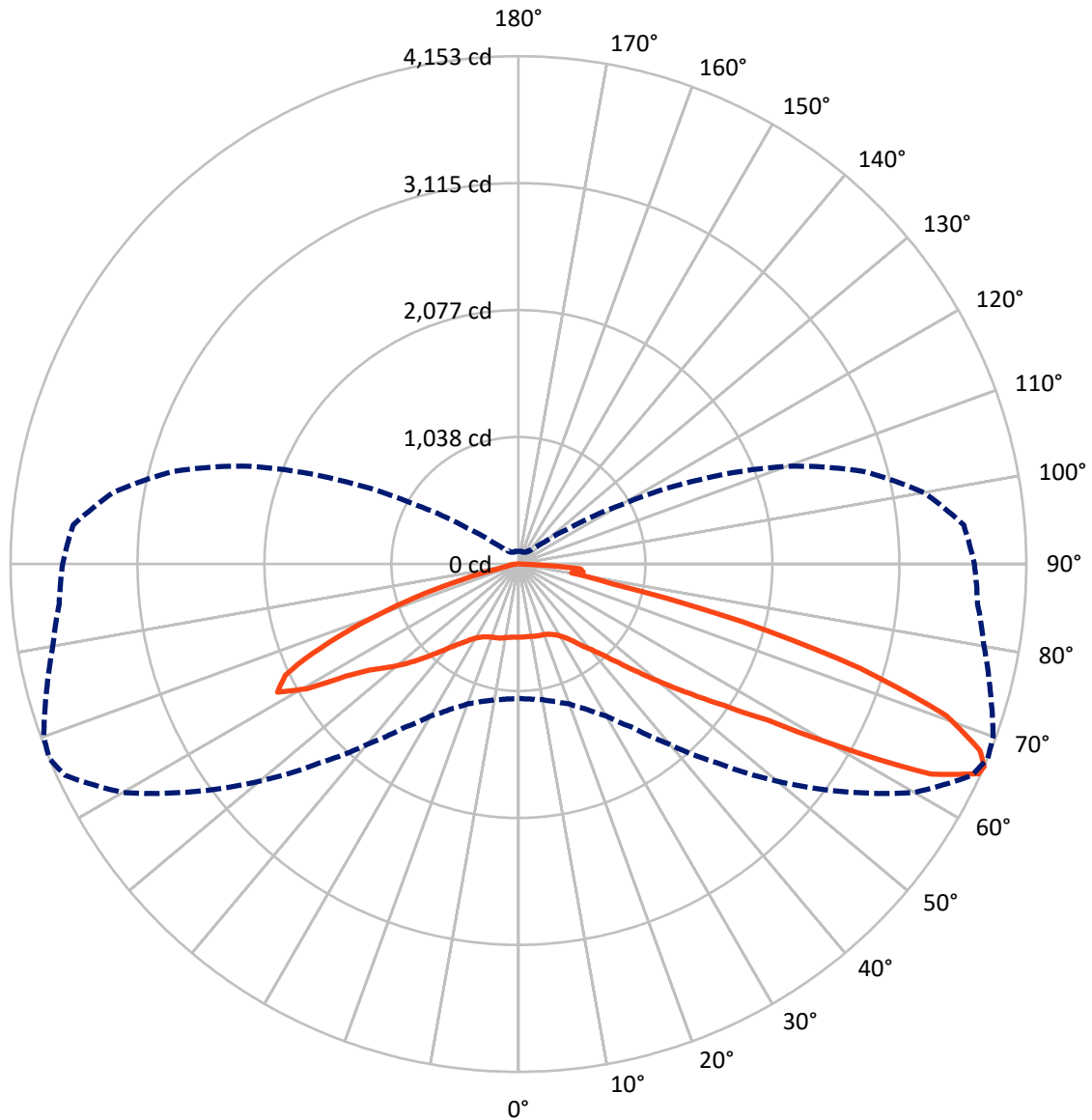
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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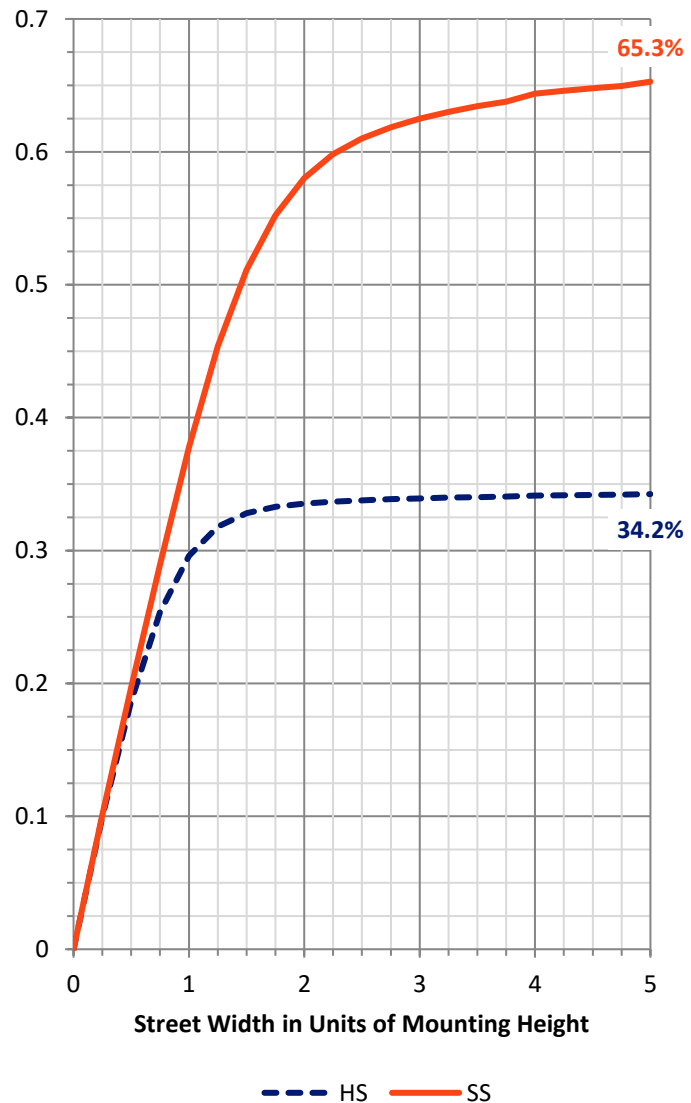
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1917.0	0.0	1917.0
	% Fixture	34.5	0.0	34.5
Street Side	Lumens	3634.3	0.0	3634.3
	% Fixture	65.5	0.0	65.5
Total	Lumens	5551.3	0.0	5551.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	1.0
10°-20°	169.1	3.0
20°-30°	290.6	5.2
30°-40°	471.9	8.5
40°-50°	787.8	14.2
50°-60°	1240.6	22.3
60°-70°	1691.6	30.5
70°-80°	732.3	13.2
80°-90°	110.1	2.0
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°	5551.3	100.0
0°-180°	5551.3	100.0

Coefficient of Utilization



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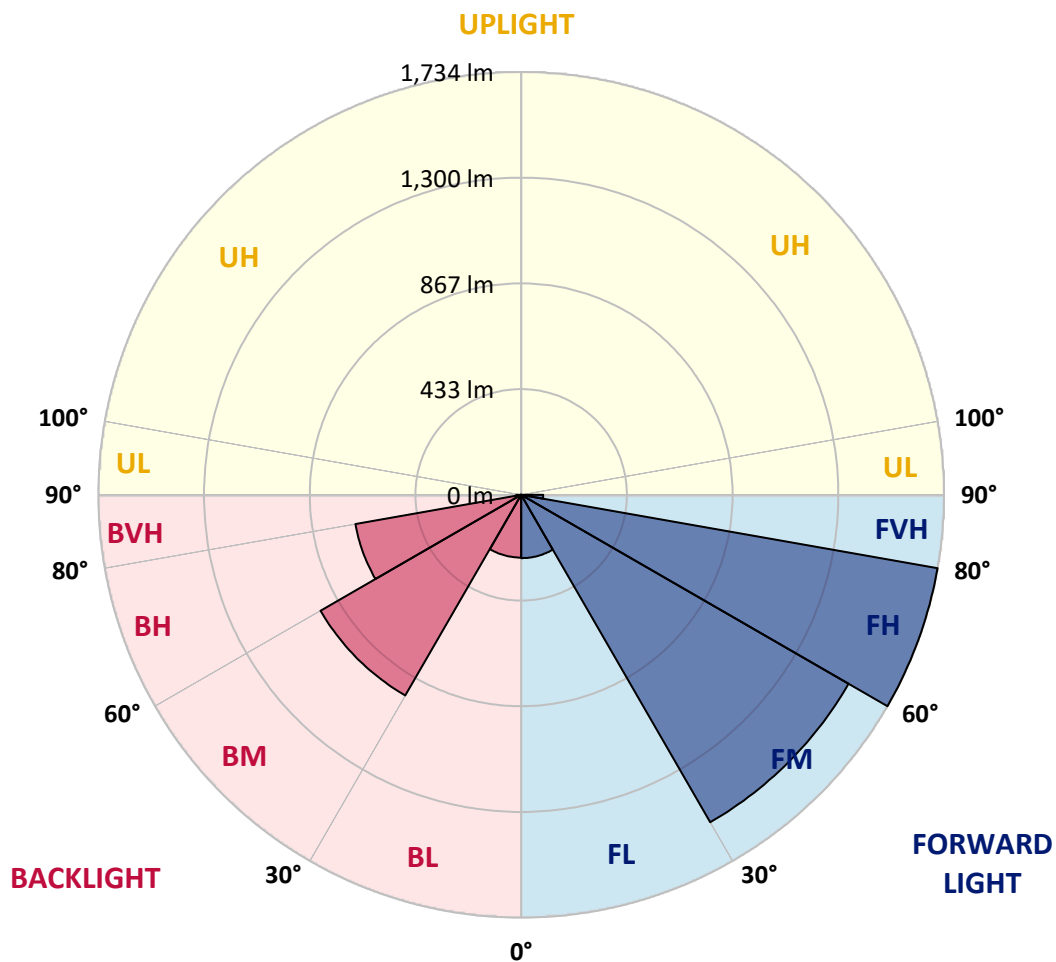
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	259.7	4.7			
FM	(30°-60°)	1550.3	27.9			
FH	(60°-80°)	1733.9	31.2			G1/1800
FVH	(80°-90°)	90.4	1.6			G1/100
BL	(0°-30°)	257.3	4.6	B1/500		
BM	(30°-60°)	950.0	17.1	B1/1000		
BH	(60°-80°)	690.0	12.4	B2/1000		G2/1000
BVH	(80°-90°)	19.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2
2.5°	600.6	603.0	600.6	601.2	601.8	601.2	600.6	600.6	598.8	600.0	601.2
5°	598.2	600.0	599.4	600.0	600.6	600.0	599.4	600.0	598.8	599.4	601.2
7.5°	595.2	594.6	595.2	596.4	597.6	597.6	597.6	598.2	597.6	597.6	599.4
10°	586.2	586.8	588.0	589.8	590.4	592.2	592.2	594.0	594.6	595.8	598.2
12.5°	574.8	575.4	576.6	577.8	580.8	583.8	583.8	588.0	589.8	592.8	597.0
15°	566.4	567.0	568.2	569.4	571.8	574.8	576.6	581.4	584.4	589.8	595.8
17.5°	571.2	570.6	571.8	572.4	572.4	574.8	574.8	578.4	582.0	586.8	594.6
20°	585.0	585.0	586.2	586.2	585.6	586.8	584.4	584.4	585.0	587.4	592.8
22.5°	598.8	598.2	600.6	601.8	602.4	604.2	601.8	601.2	598.2	596.4	598.2
25°	612.0	611.4	614.4	616.2	619.2	621.0	621.0	621.0	618.6	615.6	613.8
27.5°	632.4	632.4	635.4	637.2	639.6	643.2	645.0	645.0	645.6	641.4	638.4
30°	666.6	667.2	667.8	670.2	672.6	673.8	676.2	678.0	679.8	677.4	672.6
32.5°	707.4	703.8	703.8	707.4	710.4	714.0	715.2	717.6	721.2	719.4	718.8
35°	756.0	754.8	753.6	754.8	758.4	762.6	767.4	771.6	769.2	772.8	771.0
37.5°	828.0	829.2	829.8	829.8	829.2	830.4	832.8	837.0	835.8	837.0	839.4
40°	946.9	942.7	938.5	939.1	933.1	934.3	924.7	928.9	929.5	925.3	927.1
42.5°	1065.7	1068.1	1069.9	1074.7	1070.5	1068.1	1059.1	1059.1	1054.3	1050.1	1048.9
45°	1194.1	1198.9	1199.5	1209.1	1205.5	1213.3	1219.9	1218.1	1210.3	1209.7	1201.3
47.5°	1296.7	1304.5	1312.9	1324.3	1333.3	1350.7	1371.1	1381.3	1387.3	1392.1	1382.5
50°	1373.5	1377.1	1398.7	1416.7	1436.5	1465.3	1493.5	1530.1	1559.5	1573.3	1586.5
52.5°	1414.9	1423.9	1447.3	1475.5	1510.3	1553.5	1599.1	1657.3	1707.7	1741.3	1771.3
55°	1423.9	1432.9	1459.3	1495.3	1542.7	1600.9	1666.3	1745.5	1821.1	1885.9	1948.9
57.5°	1398.7	1408.9	1437.1	1478.5	1534.3	1605.1	1687.3	1791.1	1895.5	2000.5	2093.5
60°	1352.5	1365.1	1390.9	1431.7	1493.5	1573.3	1671.7	1801.9	1948.3	2109.1	2287.3
62.5°	1276.3	1289.5	1313.5	1358.5	1422.1	1510.3	1624.3	1786.3	1993.3	2246.5	2562.7
65°	1153.9	1159.9	1189.3	1234.9	1291.3	1388.5	1513.9	1709.5	1978.9	2331.1	2766.8
66°	1098.7	1108.9	1126.9	1163.5	1217.5	1308.7	1434.7	1633.3	1924.3	2301.7	2761.4
67.5°	1012.3	1020.1	1032.1	1056.7	1089.7	1156.9	1276.3	1464.1	1757.5	2152.9	2646.7
70°	818.4	822.0	838.2	846.6	858.0	880.2	923.5	1031.5	1260.1	1631.5	2136.1
72.5°	558.0	568.2	585.6	609.6	640.8	670.8	691.2	705.0	754.2	973.3	1423.3
75°	409.2	420.0	442.2	474.0	528.6	591.0	655.8	685.8	665.4	637.2	792.6
77.5°	237.6	252.0	270.6	301.2	351.6	434.4	545.4	643.8	710.4	714.6	678.6
80°	100.2	102.0	113.4	129.0	160.2	218.4	304.8	446.4	594.0	693.6	717.0
82.5°	22.8	28.2	36.0	42.6	52.2	72.0	106.8	177.6	321.0	503.4	656.4
85°	8.4	8.4	11.4	16.8	19.2	21.6	28.2	45.0	76.8	141.6	295.2
87.5°	0.0	0.6	1.2	1.2	2.4	3.0	4.8	6.6	6.0	5.4	18.0
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2
2.5°	600.0	599.4	598.2	598.2	598.2	598.2	597.0	597.6	596.4	597.0	597.0
5°	599.4	599.4	598.8	597.6	598.2	598.2	598.8	597.6	597.6	598.2	597.6
7.5°	599.4	598.8	598.8	598.8	599.4	598.8	599.4	599.4	599.4	600.0	600.0
10°	599.4	599.4	600.6	601.2	601.2	601.8	603.6	603.6	604.2	604.8	606.0
12.5°	600.0	602.4	604.2	606.0	606.6	607.8	610.8	610.8	612.0	613.8	614.4
15°	600.6	604.2	607.8	609.0	610.2	612.6	615.6	616.8	618.6	620.4	621.6
17.5°	600.0	604.8	609.0	610.8	612.6	615.6	619.2	620.4	622.8	625.2	627.6
20°	599.4	606.0	612.6	615.0	617.4	621.6	626.4	629.4	631.8	635.4	637.8
22.5°	603.0	610.8	619.8	623.4	627.6	633.0	639.6	643.2	646.2	649.8	651.6
25°	614.4	620.4	631.2	637.2	642.6	651.6	660.6	664.8	668.4	671.4	672.0
27.5°	633.6	635.4	648.6	656.4	664.2	678.6	689.4	692.4	699.0	701.4	700.8
30°	664.8	661.8	672.6	684.6	696.0	715.8	729.0	736.8	742.8	742.8	738.0
32.5°	709.8	705.0	708.0	721.8	735.0	763.8	779.4	789.6	793.8	792.6	782.4
35°	768.6	765.6	763.8	774.6	795.6	829.2	849.6	855.0	861.6	860.4	847.2
37.5°	838.2	835.8	835.8	848.4	868.8	918.6	940.9	944.5	943.9	934.3	909.6
40°	920.5	919.2	913.8	921.1	938.5	1003.3	1033.3	1038.1	1031.5	1015.9	987.1
42.5°	1038.7	1031.5	1014.7	1018.9	1032.1	1095.1	1134.1	1147.3	1140.7	1125.1	1078.3
45°	1192.9	1185.1	1156.9	1153.3	1160.5	1215.7	1266.1	1269.1	1267.9	1248.1	1192.9
47.5°	1374.1	1362.1	1332.1	1322.5	1320.1	1371.1	1419.7	1424.5	1421.5	1392.1	1318.3
50°	1570.3	1552.9	1533.1	1526.5	1516.9	1553.5	1602.7	1603.3	1591.3	1550.5	1481.5
52.5°	1779.7	1773.7	1770.1	1763.5	1759.3	1791.1	1821.1	1803.1	1785.1	1742.5	1682.5
55°	1990.9	2015.5	2040.7	2043.1	2050.3	2084.5	2083.9	2034.7	2021.5	1998.1	1938.7
57.5°	2215.3	2306.5	2385.7	2410.3	2434.3	2497.9	2491.9	2443.3	2426.5	2397.7	2348.5
60°	2520.7	2766.8	2995.4	3050.0	3087.8	3164.0	3156.8	3081.8	3116.6	3114.2	3050.6
62.5°	2948.6	3357.8	3700.4	3784.4	3810.8	3819.2	3773.6	3692.6	3726.8	3765.2	3569.6
65°	3238.4	3719.6	4071.2	4136.0	4139.6	4039.4	3938.0	3842.6	3834.2	3801.2	3521.6
66°	3245.0	3737.6	4090.4	4153.4	4131.2	3994.4	3866.0	3770.0	3728.6	3656.0	3366.2
67.5°	3128.6	3625.4	4005.2	4071.8	4023.2	3829.4	3652.4	3528.8	3447.8	3330.2	3074.6
70°	2627.5	3120.2	3588.2	3712.4	3728.0	3438.8	3193.4	3048.2	2939.0	2777.6	2557.3
72.5°	1953.7	2398.9	2811.8	2930.6	2991.2	2760.2	2553.1	2442.7	2293.3	2123.5	1966.9
75°	1224.7	1539.1	1815.7	1899.1	1842.1	1663.3	1539.1	1492.9	1345.9	1244.5	1173.1
77.5°	700.2	798.6	820.8	789.0	721.8	552.6	393.0	291.0	252.6	279.6	308.4
80°	683.4	626.4	499.2	439.2	397.8	273.6	160.8	110.4	91.8	94.2	102.0
82.5°	740.4	794.4	654.0	533.4	447.6	302.4	166.8	88.8	60.0	70.8	79.8
85°	481.2	669.6	603.0	508.2	411.6	258.6	137.4	46.2	30.6	40.2	55.2
87.5°	48.6	53.4	45.6	61.8	46.2	21.6	10.8	6.6	6.0	7.2	10.8
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2
2.5°	597.6	597.6	598.2	598.8	599.4	600.0	600.0	600.0	600.0	601.2	600.6
5°	598.8	600.0	601.2	601.8	603.0	603.0	604.8	604.2	604.2	606.0	606.6
7.5°	601.2	603.0	605.4	604.8	607.2	606.6	607.8	607.8	606.0	606.6	605.4
10°	606.6	609.0	610.2	608.4	609.0	606.6	606.0	603.0	599.4	597.6	595.2
12.5°	615.6	618.0	618.0	615.0	611.4	606.0	601.8	595.2	589.8	586.8	583.8
15°	623.4	625.8	625.2	620.4	615.0	606.6	600.6	592.8	585.0	580.2	577.2
17.5°	629.4	630.6	628.8	622.2	616.2	608.4	602.4	594.0	585.0	579.0	573.6
20°	638.4	637.2	633.0	624.6	618.0	610.8	606.0	598.8	588.6	580.8	573.0
22.5°	651.6	646.8	639.0	630.0	623.4	616.8	612.0	604.2	594.0	584.4	575.4
25°	669.0	659.4	648.6	639.0	633.0	625.8	620.4	612.0	601.2	590.4	579.6
27.5°	694.2	677.4	663.6	655.2	648.6	639.6	633.0	622.2	610.8	598.2	586.2
30°	722.4	699.6	686.4	679.8	672.6	663.0	652.8	639.0	625.8	612.0	597.6
32.5°	759.0	731.4	718.8	712.2	702.6	690.6	678.6	663.0	644.4	626.4	609.0
35°	807.0	778.8	765.6	755.4	742.2	726.6	709.2	688.2	663.0	639.0	616.8
37.5°	858.6	828.0	815.4	804.6	784.8	764.4	739.8	709.2	675.0	643.2	615.6
40°	924.1	895.8	879.6	861.0	837.6	802.2	763.8	719.4	675.6	636.6	604.2
42.5°	1006.9	978.7	954.7	925.3	884.4	829.8	775.2	717.6	664.8	620.4	585.6
45°	1116.7	1082.5	1041.1	989.5	923.5	847.2	775.8	706.2	644.4	595.2	558.0
47.5°	1251.1	1198.9	1131.1	1044.1	949.3	852.0	766.2	683.4	612.6	559.2	517.8
50°	1410.7	1328.5	1216.9	1089.1	962.5	844.8	742.2	649.2	567.6	510.6	461.4
52.5°	1593.1	1458.7	1294.3	1121.5	961.9	820.8	701.4	597.6	508.8	445.2	398.4
55°	1807.3	1607.5	1374.1	1145.5	945.1	776.4	639.0	525.0	436.2	377.4	334.2
57.5°	2121.1	1848.7	1513.3	1182.7	911.4	708.0	554.4	438.0	360.0	304.2	267.6
60°	2694.7	2251.3	1764.1	1257.7	859.8	607.8	455.4	345.0	279.6	234.6	210.0
62.5°	3126.8	2562.7	1899.7	1240.9	756.0	484.2	337.8	251.4	205.8	175.2	159.6
65°	3065.0	2466.1	1755.1	1068.7	592.8	341.4	224.4	171.0	141.6	127.2	118.2
66°	2925.2	2340.1	1629.7	961.9	512.4	283.8	184.8	143.4	121.8	111.6	105.6
67.5°	2659.9	2106.1	1405.3	788.4	393.6	205.8	139.2	113.4	99.0	94.8	90.6
70°	2211.1	1679.5	986.5	459.0	201.0	114.6	88.2	79.2	75.6	75.0	73.8
72.5°	1694.5	1188.7	580.8	217.2	104.4	76.2	68.4	65.4	64.2	64.2	64.8
75°	1038.7	667.8	256.8	106.2	73.2	64.2	60.6	59.4	58.8	59.4	58.8
77.5°	346.8	212.4	109.8	80.4	66.6	59.4	57.0	55.8	55.8	55.8	55.8
80°	106.2	92.4	84.0	74.4	63.0	56.4	52.8	52.2	52.8	53.4	51.6
82.5°	79.8	75.6	70.8	66.0	57.0	50.4	49.2	49.2	49.2	47.4	45.0
85°	58.8	58.2	48.0	45.0	42.0	42.0	42.0	42.0	40.2	37.2	34.8
87.5°	10.8	10.2	10.8	11.4	16.8	18.0	18.0	19.2	21.0	19.8	19.8
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):

	160°	165°	170°	175°	180°
0°	598.2	598.2	598.2	598.2	598.2
2.5°	600.6	600.0	601.8	600.6	601.2
5°	606.0	605.4	606.6	605.4	607.2
7.5°	604.2	603.0	602.4	603.0	603.6
10°	591.6	590.4	589.8	589.2	589.8
12.5°	580.8	578.4	578.4	577.2	577.8
15°	573.0	571.2	570.6	569.4	570.0
17.5°	569.4	566.4	565.2	564.0	564.0
20°	567.0	563.4	561.6	560.4	559.8
22.5°	567.0	561.6	559.2	558.0	557.4
25°	569.4	562.8	559.2	557.4	556.8
27.5°	574.2	565.8	561.6	559.2	559.2
30°	582.6	571.8	565.8	562.8	562.2
32.5°	591.0	576.6	568.2	564.6	563.4
35°	595.2	576.6	566.4	560.4	559.2
37.5°	590.4	568.8	556.2	547.2	545.4
40°	575.4	552.6	538.8	530.4	529.2
42.5°	555.6	533.4	517.2	511.2	509.4
45°	528.6	502.2	486.0	477.6	478.2
47.5°	482.4	455.4	441.0	433.2	434.4
50°	427.8	401.4	388.8	380.4	382.2
52.5°	367.8	343.8	331.8	327.6	326.4
55°	304.8	286.2	277.8	273.0	271.2
57.5°	247.2	234.0	228.0	222.0	222.6
60°	195.0	188.4	186.6	180.0	179.4
62.5°	153.6	149.4	147.6	142.8	143.4
65°	116.4	115.2	116.4	113.4	114.6
66°	105.0	105.6	105.6	103.8	105.0
67.5°	90.6	91.8	93.6	91.8	93.0
70°	75.0	76.2	77.4	77.4	77.4
72.5°	65.4	66.6	67.2	67.2	67.2
75°	60.0	60.6	61.2	60.0	60.0
77.5°	56.4	56.4	55.2	54.6	54.0
80°	51.0	50.4	48.6	47.4	47.4
82.5°	42.6	41.4	40.2	38.4	38.4
85°	32.4	31.2	30.0	27.6	26.4
87.5°	16.8	17.4	16.8	13.8	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)