

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: P180731

Luminaire Tested: **ICS-F02-LED-E1-SL3-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180731
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-SL3-8030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3807.9 lumens
Efficiency: N/A
Efficacy: 69.2 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

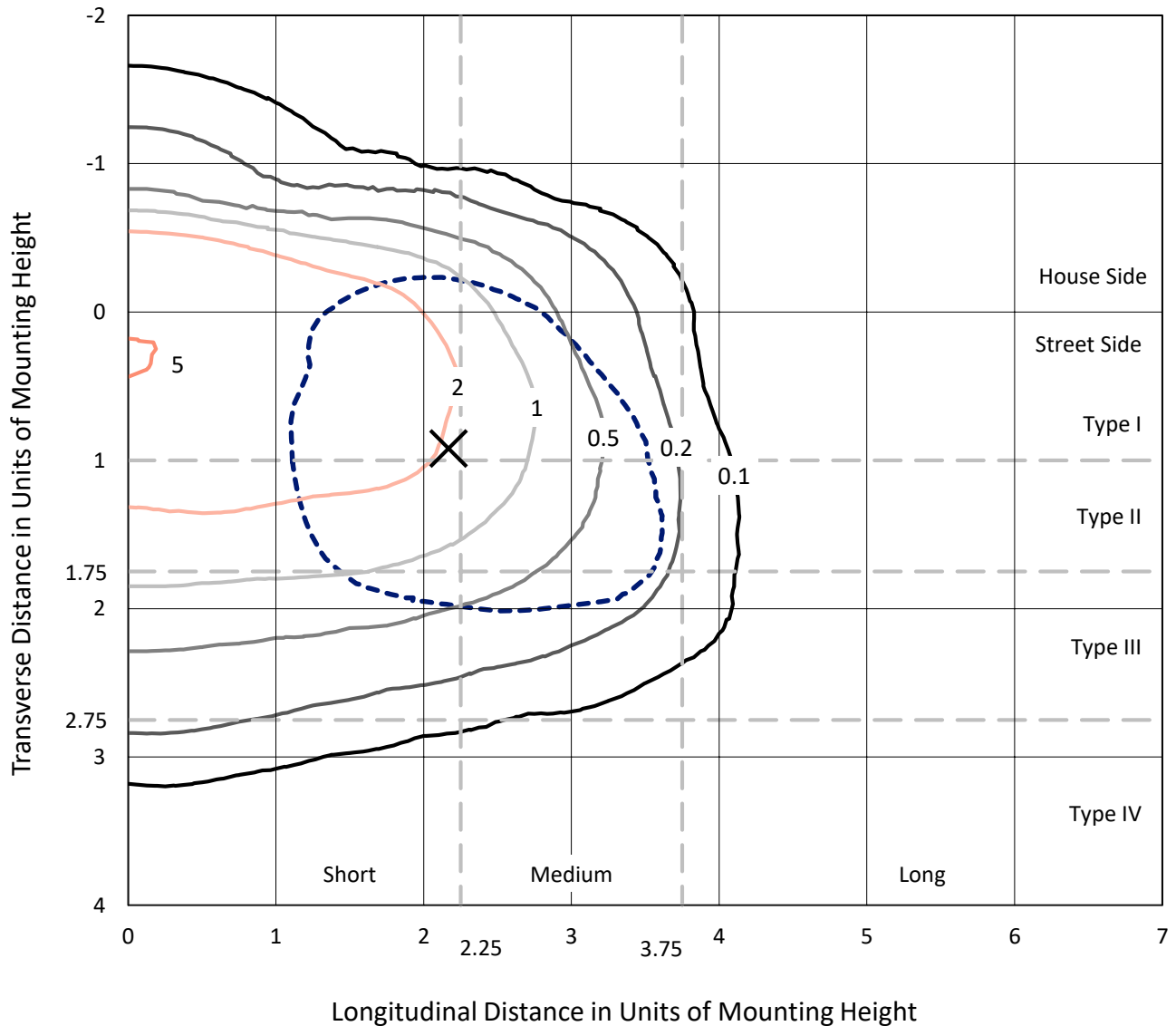


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

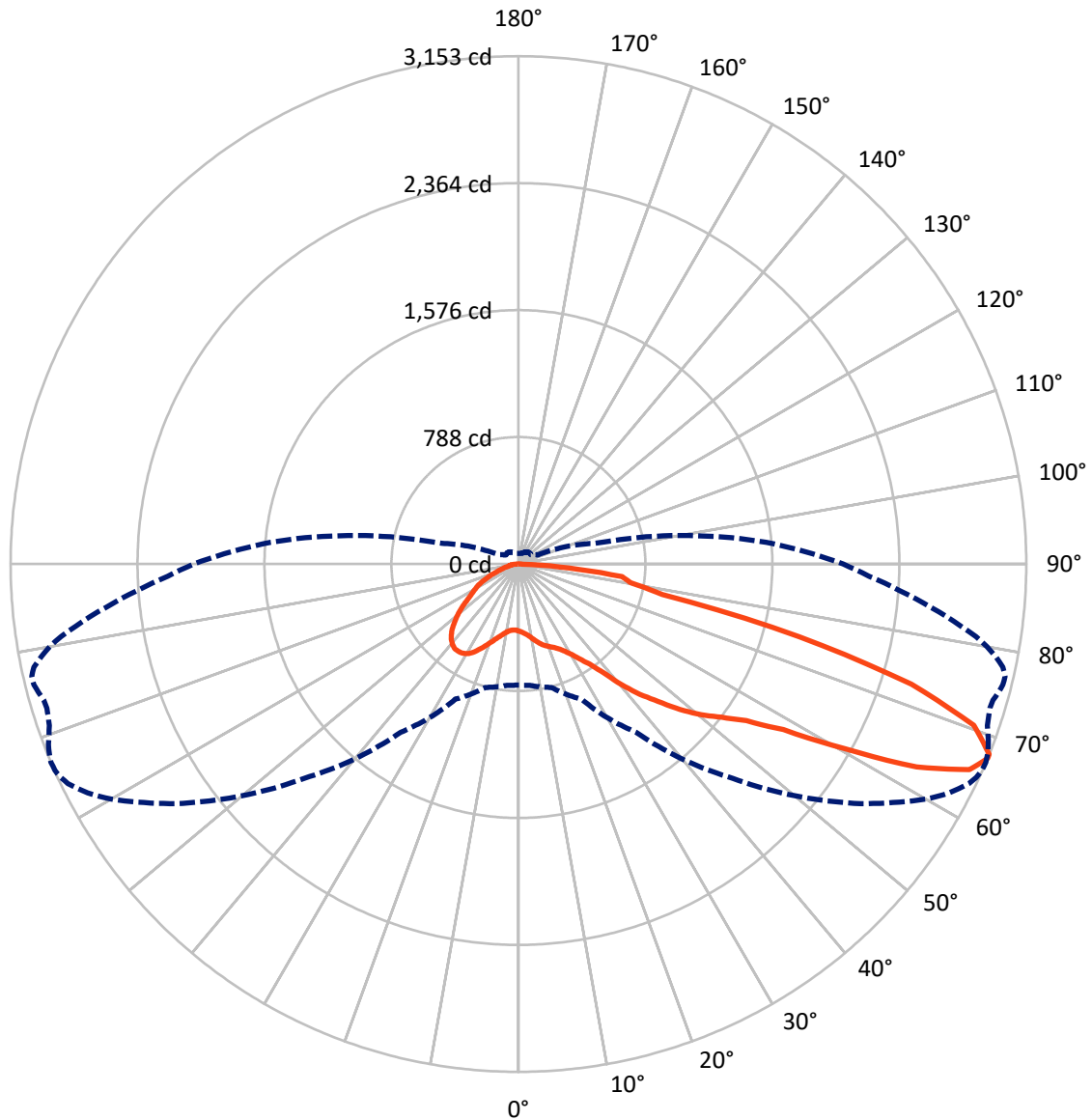


Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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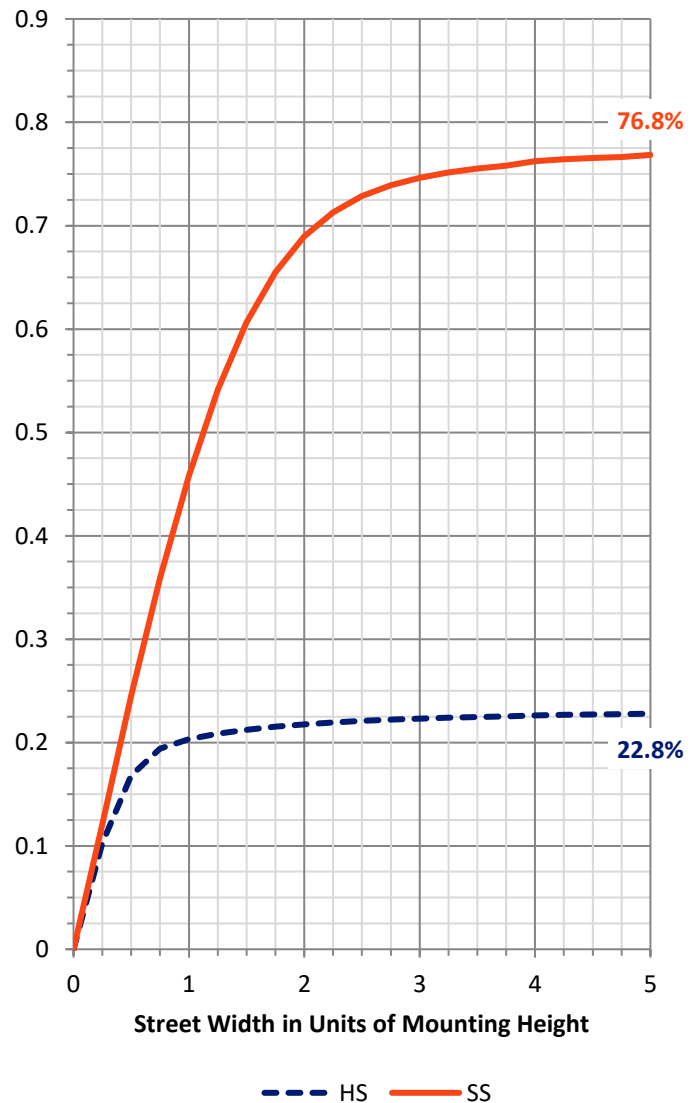
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	878.7	0.0	878.7
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	2929.2	0.0	2929.2
	% Fixture	76.9	0.0	76.9
Total	Lumens	3807.9	0.0	3807.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.4	1.1
10°-20°	142.0	3.7
20°-30°	250.7	6.6
30°-40°	359.9	9.5
40°-50°	546.6	14.4
50°-60°	804.8	21.1
60°-70°	1069.6	28.1
70°-80°	523.3	13.7
80°-90°	69.5	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°	3807.9	100.0
0°-180°	3807.9	100.0



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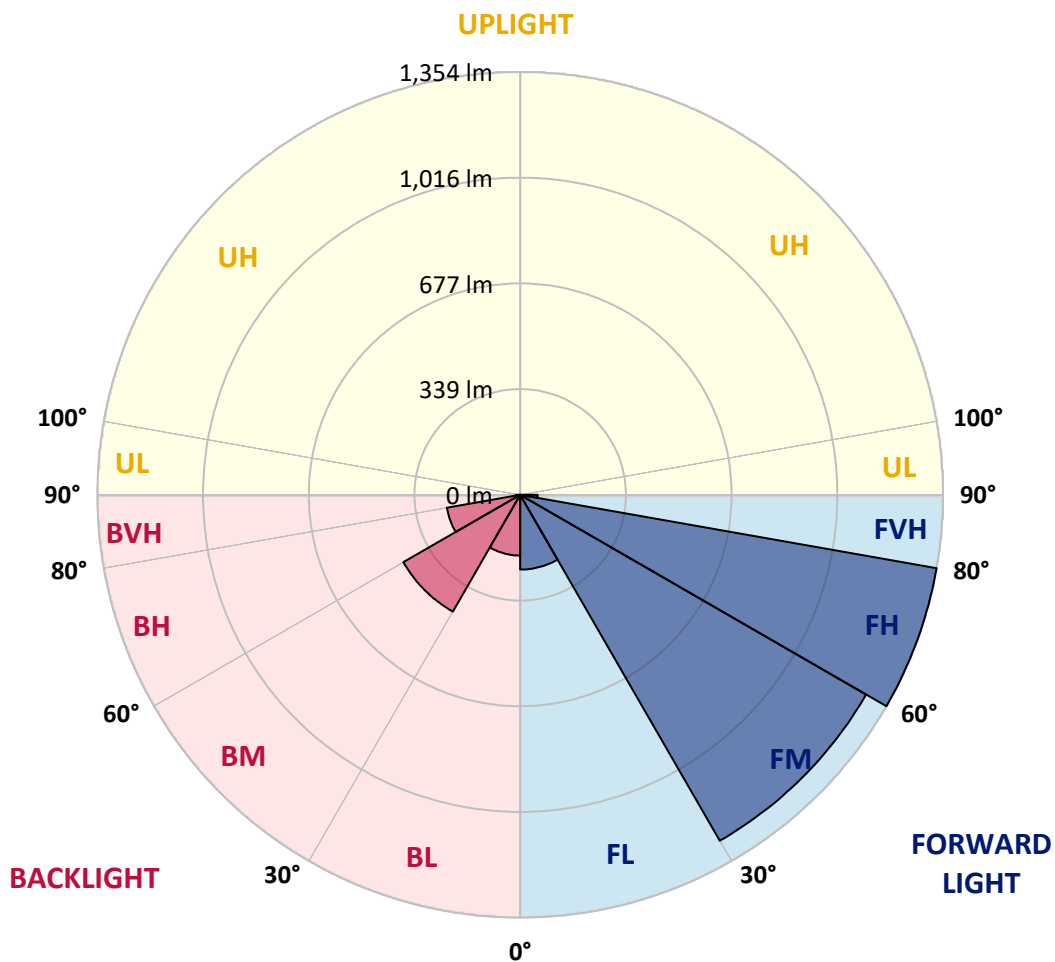
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	239.6	6.3			
FM	(30°-60°)	1279.4	33.6			
FH	(60°-80°)	1354.4	35.6			G1/1800
FVH	(80°-90°)	55.8	1.5			G1/100
BL	(0°-30°)	194.6	5.1	B1/500		
BM	(30°-60°)	432.0	11.3	B1/1000		
BH	(60°-80°)	238.4	6.3	B1/500		G1/500
BVH	(80°-90°)	13.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0
2.5°	435.6	436.0	435.2	434.8	432.3	429.8	428.1	426.0	426.0	426.0	425.2
5°	460.3	458.6	459.9	456.9	451.9	447.3	442.7	439.0	438.1	438.1	436.5
7.5°	490.0	487.9	487.0	482.9	475.3	468.6	459.5	455.7	453.6	452.8	451.9
10°	525.9	525.9	520.5	513.4	503.3	491.6	481.6	474.9	474.5	474.5	470.7
12.5°	562.7	563.6	556.4	549.3	533.0	517.6	505.9	498.3	497.9	496.2	494.2
15°	596.6	594.5	589.9	579.4	561.5	543.1	528.4	520.9	519.2	517.6	516.3
17.5°	624.6	622.5	616.6	603.3	584.5	562.7	544.7	536.8	536.0	535.1	533.4
20°	642.1	640.5	632.1	616.6	597.0	574.8	555.6	550.2	548.5	548.5	547.7
22.5°	652.2	649.7	637.5	617.1	597.8	581.5	565.6	562.3	561.0	561.5	561.5
25°	657.2	655.1	638.0	608.7	590.3	585.7	579.0	576.9	577.3	577.8	578.6
27.5°	658.0	655.1	635.0	597.8	580.7	593.7	598.2	601.6	601.6	603.3	606.2
30°	651.8	648.4	629.2	589.5	576.5	609.5	627.9	636.7	640.1	639.2	645.9
32.5°	640.9	638.8	623.3	589.5	588.2	640.9	673.5	686.0	687.7	688.6	696.1
35°	637.1	636.7	630.0	609.5	624.6	696.1	745.8	755.4	757.5	757.5	763.0
37.5°	636.3	638.4	645.9	647.2	688.6	778.0	843.2	857.9	857.9	862.0	862.0
40°	636.3	640.9	669.3	703.2	766.7	884.6	974.9	991.6	991.6	996.2	993.7
42.5°	661.0	667.6	714.5	778.9	865.4	994.6	1098.3	1117.1	1118.3	1117.1	1120.8
45°	709.5	715.3	772.2	864.6	967.0	1112.5	1216.1	1238.7	1234.1	1237.1	1238.3
47.5°	773.8	783.0	847.8	958.2	1066.1	1221.6	1348.3	1368.7	1367.1	1368.3	1362.9
50°	842.4	852.0	924.3	1051.0	1164.7	1309.4	1454.4	1485.0	1482.0	1484.1	1487.1
52.5°	903.0	908.9	978.7	1120.8	1239.6	1391.3	1536.0	1574.0	1580.7	1581.5	1583.6
55°	939.0	946.1	1010.0	1155.5	1293.9	1471.6	1629.2	1686.9	1699.8	1703.2	1712.4
57.5°	951.5	959.0	1017.1	1160.5	1323.6	1546.8	1759.2	1860.8	1871.7	1889.6	1918.9
60°	951.1	959.0	1009.6	1149.3	1353.7	1640.1	1961.6	2131.7	2186.9	2205.3	2247.1
62.5°	912.2	921.4	972.8	1115.0	1392.2	1759.2	2262.6	2524.3	2595.3	2628.8	2673.9
65°	826.9	833.6	881.7	1028.0	1381.3	1876.7	2514.2	2840.7	2905.5	2954.5	3035.1
67°	751.3	755.4	793.1	925.2	1275.1	1880.9	2593.7	2919.3	2975.8	3027.6	3110.8
67.5°	732.0	740.8	770.1	893.8	1235.4	1857.0	2588.2	2907.2	2964.9	3018.8	3106.6
70°	595.7	608.3	622.9	706.1	971.2	1562.3	2396.3	2697.3	2747.9	2798.1	2920.6
72.5°	367.5	390.1	393.0	445.7	632.1	1079.9	1939.0	2274.7	2312.7	2348.7	2474.1
75°	216.6	219.9	230.4	273.0	370.8	645.5	1301.0	1689.8	1724.9	1742.5	1840.7
77.5°	120.8	124.2	132.9	169.7	285.1	434.8	757.5	992.9	1014.2	1036.4	1020.5
80°	50.2	54.8	58.9	68.6	133.4	343.2	520.9	631.3	645.1	658.0	674.3
82.5°	24.2	25.9	31.8	36.4	48.5	140.9	408.4	547.2	563.6	582.4	620.4
85°	11.3	12.5	17.6	20.9	23.4	35.5	136.7	266.3	288.9	293.1	300.6
87.5°	0.8	0.8	2.1	2.9	4.2	4.6	14.2	20.1	22.6	20.5	25.9
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0
2.5°	424.8	424.3	423.5	423.5	423.1	423.1	423.1	422.2	422.2	422.2	421.8
5°	436.0	435.6	434.4	434.4	433.5	433.5	432.3	431.9	431.0	431.0	430.6
7.5°	450.7	450.3	448.6	448.6	447.3	446.9	446.1	444.8	444.8	444.0	443.1
10°	470.7	469.5	469.1	467.0	467.4	466.6	465.7	464.5	463.6	462.8	462.0
12.5°	493.3	493.3	491.2	490.0	490.8	490.0	488.3	487.9	486.6	486.6	485.4
15°	514.6	514.6	513.8	512.1	512.5	511.3	510.9	510.0	508.4	508.8	508.4
17.5°	533.0	533.0	531.8	530.9	530.9	529.7	530.1	529.3	528.4	528.0	526.8
20°	547.7	547.7	546.8	546.0	546.4	546.4	545.2	545.2	545.2	544.3	544.3
22.5°	561.9	562.3	562.3	562.3	562.7	563.1	562.7	563.6	563.1	564.0	564.0
25°	580.7	581.9	582.8	582.8	584.9	585.3	585.7	587.0	587.0	588.2	588.6
27.5°	608.7	609.5	612.9	613.7	614.1	617.5	617.9	619.6	621.2	621.7	622.1
30°	647.2	649.3	651.8	653.4	653.4	657.6	659.3	658.5	663.0	664.3	666.0
32.5°	698.6	700.3	702.8	704.4	706.1	708.2	708.6	710.7	714.5	717.8	715.7
35°	763.4	767.6	763.4	768.0	769.2	772.2	771.3	773.8	775.5	776.8	776.3
37.5°	857.4	855.4	854.5	852.9	849.9	860.0	854.9	854.5	852.0	859.1	854.5
40°	981.2	982.5	983.7	977.0	973.3	973.3	972.0	967.4	965.3	971.6	970.7
42.5°	1110.4	1111.6	1105.8	1101.6	1092.0	1090.7	1084.9	1083.6	1081.5	1084.9	1081.5
45°	1227.9	1228.7	1215.7	1217.8	1210.3	1211.5	1202.4	1206.1	1201.1	1204.4	1210.7
47.5°	1359.1	1360.8	1349.5	1354.1	1346.6	1342.0	1341.6	1344.1	1338.6	1342.0	1343.7
50°	1478.3	1476.2	1470.3	1471.6	1468.2	1469.1	1464.1	1468.7	1462.4	1469.1	1468.2
52.5°	1584.0	1581.5	1580.3	1584.5	1581.5	1581.5	1578.6	1580.7	1581.5	1591.6	1593.7
55°	1712.4	1714.5	1716.6	1724.1	1727.4	1722.0	1727.4	1737.9	1738.3	1762.1	1775.1
57.5°	1918.5	1933.1	1940.7	1945.3	1964.9	1962.8	1975.4	2000.4	2002.9	2058.1	2090.3
60°	2278.0	2304.0	2328.6	2315.2	2355.0	2367.1	2374.6	2421.4	2436.1	2488.3	2516.3
62.5°	2732.0	2735.0	2773.4	2761.3	2783.9	2778.5	2787.7	2809.0	2828.2	2871.3	2897.6
65°	3048.9	3062.7	3077.8	3062.3	3061.9	3043.5	3031.8	3031.4	3043.1	3052.3	3081.6
67°	3135.1	3148.9	3152.6	3141.3	3125.0	3101.6	3079.9	3068.6	3061.1	3065.2	3083.6
67.5°	3134.2	3147.2	3151.8	3140.9	3118.3	3098.7	3075.7	3062.7	3052.7	3054.8	3070.3
70°	2956.1	2984.1	2999.2	3002.5	2999.6	2965.3	2945.7	2934.0	2925.6	2905.1	2903.9
72.5°	2504.6	2538.5	2550.2	2569.0	2577.4	2526.8	2505.5	2518.4	2489.2	2424.4	2427.3
75°	1839.1	1841.6	1802.3	1794.7	1766.7	1652.2	1617.9	1586.6	1536.4	1458.2	1384.6
77.5°	958.6	958.2	913.1	890.1	856.6	787.6	784.3	728.3	689.0	617.5	591.6
80°	681.0	691.9	706.9	714.5	702.8	676.0	639.2	599.5	553.9	509.2	455.7
82.5°	633.4	640.1	648.0	618.7	602.4	564.8	536.8	479.1	446.9	395.9	342.0
85°	308.1	328.6	312.7	294.3	288.0	225.3	217.8	181.9	165.1	135.9	126.7
87.5°	19.6	24.2	21.7	19.6	17.1	9.6	13.0	9.2	9.6	7.1	6.3
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0
2.5°	421.8	421.4	421.0	420.6	420.2	420.2	419.7	419.3	418.9	418.1	418.1
5°	429.8	429.8	429.4	428.5	428.5	427.7	426.4	426.0	426.0	425.2	424.3
7.5°	442.7	442.3	441.5	441.1	440.2	439.4	438.5	437.7	437.3	436.0	435.6
10°	462.4	461.5	459.5	458.6	458.2	457.4	456.5	455.7	454.4	453.6	453.2
12.5°	484.5	484.1	482.4	483.3	481.2	480.4	479.5	477.4	478.3	476.6	475.8
15°	506.7	507.1	506.3	506.3	504.6	503.3	502.5	500.8	500.4	499.6	498.8
17.5°	526.3	527.2	525.9	525.1	524.3	523.4	521.7	520.1	520.1	518.4	517.6
20°	544.3	545.2	544.7	543.9	542.6	542.2	541.4	540.1	540.1	539.3	538.0
22.5°	564.8	565.2	565.2	564.8	563.6	564.0	563.1	561.9	562.3	560.6	560.6
25°	589.5	590.3	591.1	591.6	590.7	591.1	590.3	589.5	589.1	589.5	589.1
27.5°	623.3	624.2	626.7	624.6	626.7	627.1	625.8	624.2	625.4	627.5	626.3
30°	668.1	667.2	670.6	671.0	670.6	671.0	670.2	668.9	669.7	673.5	671.4
32.5°	718.2	719.9	720.7	721.6	722.8	724.5	723.3	722.0	724.1	722.8	725.8
35°	778.9	782.6	783.9	782.6	783.5	786.4	786.0	786.4	790.6	786.4	791.8
37.5°	855.4	859.1	862.0	860.4	862.5	862.5	865.8	875.0	869.2	876.7	882.5
40°	966.6	972.4	972.8	972.4	974.5	977.0	980.4	990.4	983.7	991.6	997.1
42.5°	1081.1	1088.2	1090.7	1086.5	1091.1	1096.6	1097.0	1105.8	1106.2	1107.5	1110.4
45°	1210.3	1216.6	1221.6	1219.5	1219.9	1227.0	1225.3	1233.7	1227.4	1227.4	1229.1
47.5°	1347.8	1353.7	1357.0	1360.4	1356.2	1362.5	1365.4	1363.7	1356.2	1354.5	1344.5
50°	1473.3	1478.3	1483.3	1492.5	1492.1	1495.0	1497.1	1489.6	1487.9	1478.7	1467.4
52.5°	1606.2	1619.2	1630.4	1649.7	1652.6	1662.6	1658.9	1646.3	1644.2	1629.2	1614.1
55°	1791.4	1828.6	1844.9	1874.6	1894.7	1894.2	1885.9	1883.8	1867.9	1837.8	1819.8
57.5°	2113.7	2171.8	2199.9	2238.3	2244.6	2240.8	2230.0	2210.7	2183.1	2132.5	2099.9
60°	2579.0	2615.0	2647.6	2656.8	2661.4	2654.3	2616.2	2573.6	2519.7	2449.9	2391.7
62.5°	2930.6	2967.4	2991.7	2987.9	2959.1	2922.7	2867.1	2795.6	2719.9	2641.7	2554.8
65°	3109.6	3125.0	3121.3	3092.0	3042.7	2979.1	2898.0	2809.8	2720.8	2628.4	2538.1
67°	3099.9	3100.4	3074.9	3018.0	2954.9	2875.0	2775.9	2679.8	2575.3	2478.3	2370.8
67.5°	3082.8	3081.1	3045.6	2983.3	2915.2	2832.8	2730.0	2630.5	2522.2	2424.4	2313.1
70°	2888.8	2865.4	2785.1	2685.6	2590.7	2479.5	2371.7	2257.5	2135.5	2051.4	1923.5
72.5°	2373.8	2294.8	2156.4	2052.3	1950.7	1805.2	1737.9	1596.2	1510.5	1457.0	1360.4
75°	1374.6	1308.5	1201.5	1104.1	1054.8	968.7	927.7	823.6	801.8	801.0	767.6
77.5°	524.7	457.8	388.8	313.1	266.3	211.5	186.5	166.8	151.8	162.2	147.2
80°	393.4	323.6	252.9	183.9	131.3	97.0	83.2	76.9	73.2	70.2	68.1
82.5°	293.1	231.2	179.3	117.1	81.9	61.9	53.5	50.2	48.5	45.6	43.1
85°	99.1	79.4	62.7	43.5	34.3	28.0	25.9	25.1	23.8	21.7	20.5
87.5°	5.4	5.0	5.4	4.2	5.0	4.2	4.6	4.6	4.6	4.2	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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0
2.5°	417.6	417.6	417.6	416.8	415.6	413.0	410.5	408.4	406.4	405.1	404.3
5°	423.9	423.1	422.7	422.2	419.3	414.3	409.7	405.5	401.3	398.0	396.7
7.5°	435.2	433.5	433.1	431.9	428.1	420.6	413.9	407.2	401.3	396.7	394.7
10°	452.3	452.3	449.8	448.2	444.0	434.0	424.3	415.6	407.6	402.6	401.3
12.5°	474.1	474.1	472.0	470.7	465.7	452.8	441.1	430.6	423.1	418.1	417.6
15°	496.7	496.2	494.6	492.9	487.5	473.7	462.0	452.8	446.5	440.6	439.0
17.5°	516.7	516.7	514.6	513.0	507.5	495.8	485.4	478.7	471.6	459.5	450.3
20°	536.8	537.2	535.5	533.9	529.3	519.2	514.6	507.9	492.1	465.7	444.0
22.5°	559.0	560.6	558.5	556.9	553.1	548.9	547.2	531.4	497.9	455.7	423.9
25°	587.4	590.3	587.8	587.0	584.9	586.1	581.1	544.3	489.6	434.0	394.2
27.5°	626.3	626.3	626.7	626.7	625.8	630.4	612.0	544.7	471.2	405.9	358.7
30°	671.8	674.3	673.5	673.5	676.8	679.8	629.2	535.5	447.7	371.2	315.2
32.5°	726.6	728.7	729.5	725.8	739.1	724.1	635.5	518.8	418.9	328.2	263.4
35°	792.6	795.6	797.7	798.1	806.9	762.5	632.1	494.2	377.5	274.3	206.5
37.5°	878.8	884.6	889.2	891.3	891.7	795.2	622.9	461.5	323.6	214.0	153.8
40°	993.3	999.6	998.3	1002.5	978.7	814.4	602.0	414.3	256.7	157.2	118.7
42.5°	1103.7	1104.5	1106.2	1102.4	1053.9	824.4	572.7	356.6	192.3	117.5	101.6
45°	1227.0	1219.9	1212.0	1206.1	1123.3	828.2	532.6	286.4	135.9	98.7	94.1
47.5°	1342.8	1333.2	1316.9	1300.2	1185.2	822.3	481.2	214.5	103.3	90.3	89.0
50°	1456.5	1438.6	1415.6	1396.3	1244.6	813.6	424.3	154.7	90.3	86.1	84.9
52.5°	1597.4	1567.3	1537.2	1512.1	1321.9	799.8	364.6	117.5	84.9	82.8	81.1
55°	1790.6	1748.8	1700.3	1665.1	1426.9	778.9	301.8	99.5	82.4	80.7	78.2
57.5°	2058.1	1995.4	1940.7	1883.4	1570.2	757.5	247.9	92.4	81.9	79.4	76.1
60°	2331.5	2256.3	2186.5	2104.5	1716.6	736.2	210.3	91.6	83.2	79.4	74.4
62.5°	2473.7	2395.9	2311.9	2228.7	1779.7	686.0	184.4	92.8	86.1	80.7	74.4
65°	2441.1	2346.2	2260.9	2176.0	1706.5	591.1	155.9	94.5	92.0	85.7	75.7
67°	2277.2	2178.1	2096.2	2015.1	1543.5	495.0	133.8	96.2	98.2	91.6	78.2
67.5°	2219.5	2120.4	2039.7	1960.7	1495.4	474.9	128.3	97.0	99.5	93.2	79.0
70°	1840.3	1767.6	1681.9	1620.8	1210.7	351.6	105.4	98.7	107.0	102.8	82.8
72.5°	1324.4	1255.0	1190.6	1156.8	891.7	245.8	88.6	97.0	111.6	108.3	84.4
75°	704.0	699.8	676.4	693.2	551.8	160.5	78.2	90.7	106.6	99.1	78.6
77.5°	142.1	146.3	171.8	169.3	178.1	89.5	66.9	77.8	82.4	72.7	64.0
80°	66.1	64.8	63.5	64.4	63.1	57.3	54.3	61.0	57.3	46.8	42.6
82.5°	41.0	40.1	38.9	38.5	42.6	45.6	47.7	48.1	38.0	32.6	31.4
85°	19.6	19.6	19.2	20.1	25.1	37.2	40.1	35.5	25.5	23.4	22.2
87.5°	3.8	3.8	4.2	3.8	5.0	8.8	10.0	11.7	9.6	10.0	11.3
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):

	165°	175°	180°
0°	416.0	416.0	416.0
2.5°	403.4	402.6	402.6
5°	395.1	394.7	394.7
7.5°	393.0	393.4	393.0
10°	400.9	400.5	402.2
12.5°	418.5	419.7	419.3
15°	436.9	437.7	437.7
17.5°	442.3	439.4	439.0
20°	428.1	422.7	421.4
22.5°	401.3	391.3	391.7
25°	367.5	355.4	356.2
27.5°	328.2	315.2	314.8
30°	280.9	266.7	259.6
32.5°	224.1	206.9	206.9
35°	168.5	154.7	149.7
37.5°	127.9	120.0	117.5
40°	106.6	102.8	102.0
42.5°	97.0	95.7	95.3
45°	92.0	91.1	90.7
47.5°	87.4	87.0	86.5
50°	84.0	83.6	83.2
52.5°	81.1	80.3	79.9
55°	76.9	76.9	76.9
57.5°	74.4	74.4	74.0
60°	71.9	71.5	71.5
62.5°	69.8	69.0	69.4
65°	68.6	67.3	67.3
67°	67.7	65.2	65.2
67.5°	67.7	64.4	64.4
70°	66.5	61.0	60.2
72.5°	65.2	57.3	56.0
75°	61.9	54.3	53.1
77.5°	53.1	48.5	47.7
80°	41.0	35.5	36.4
82.5°	29.7	25.5	25.1
85°	21.3	18.4	18.4
87.5°	11.3	9.6	10.0
90°	0.0	0.0	0.0

(END OF REPORT)