

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: P181703

Luminaire Tested: **ICS-F03-LED-E1-T4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181703
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F03-LED-E1-T4-7030
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6152.6 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 78.3
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

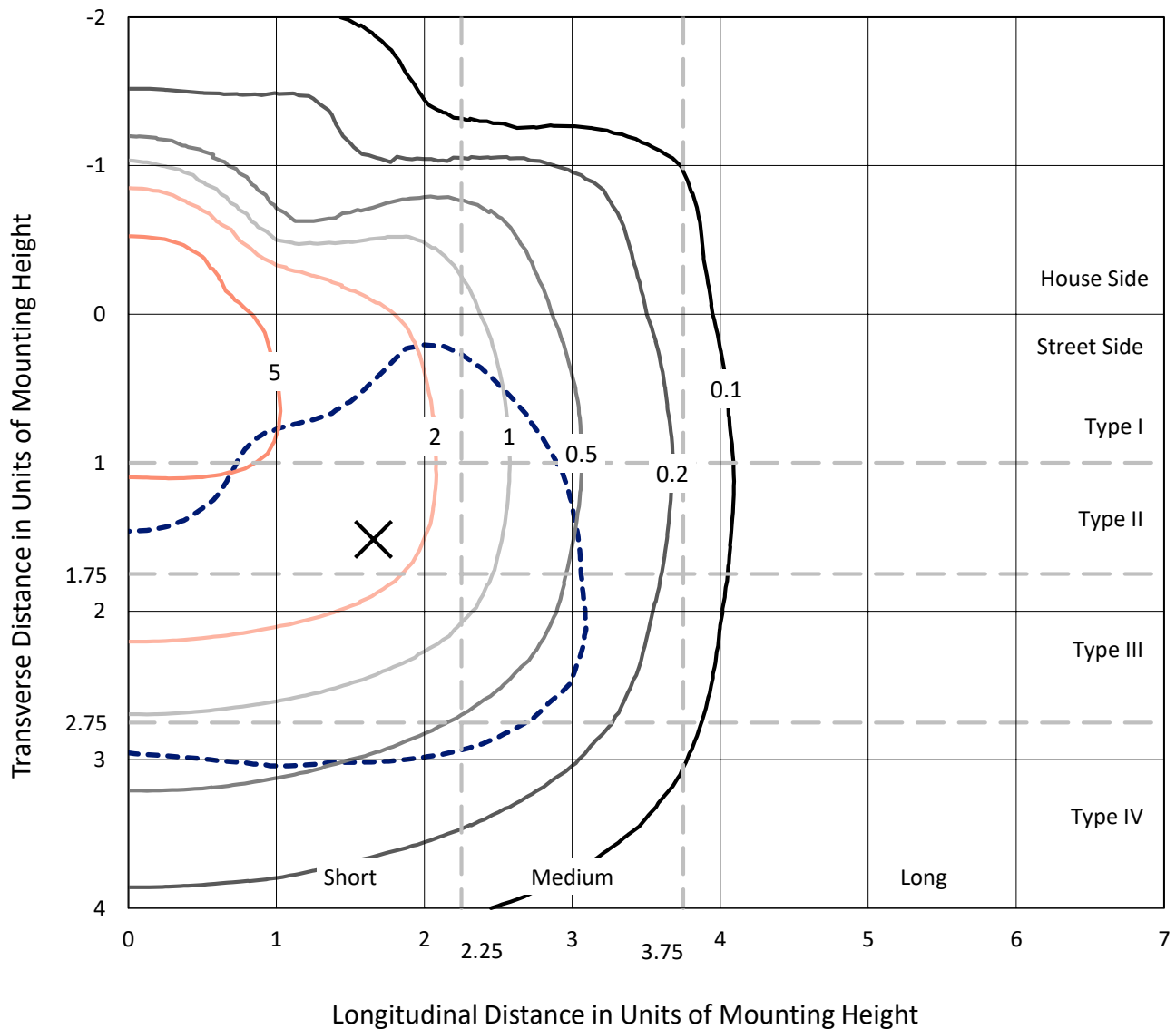


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

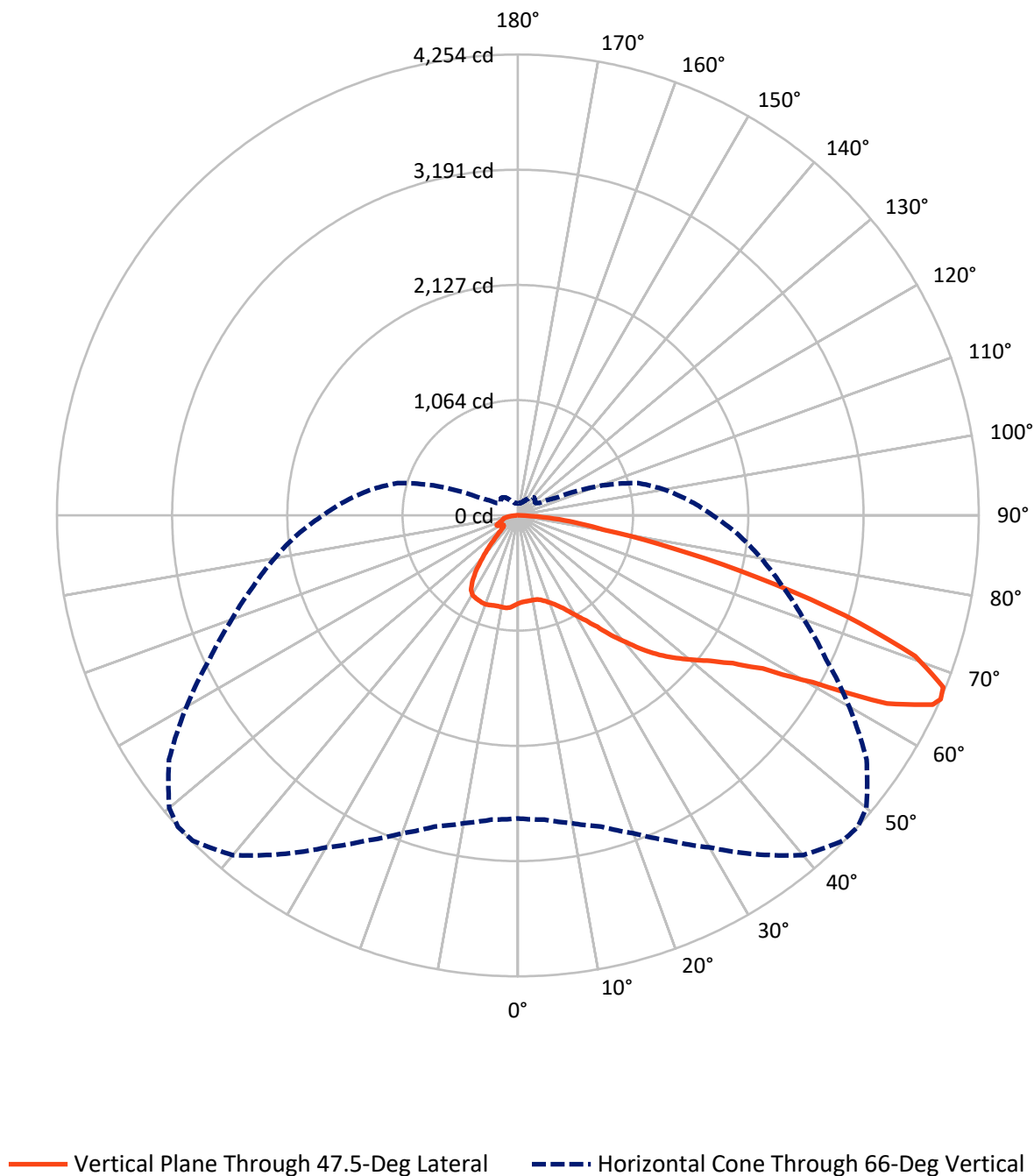


Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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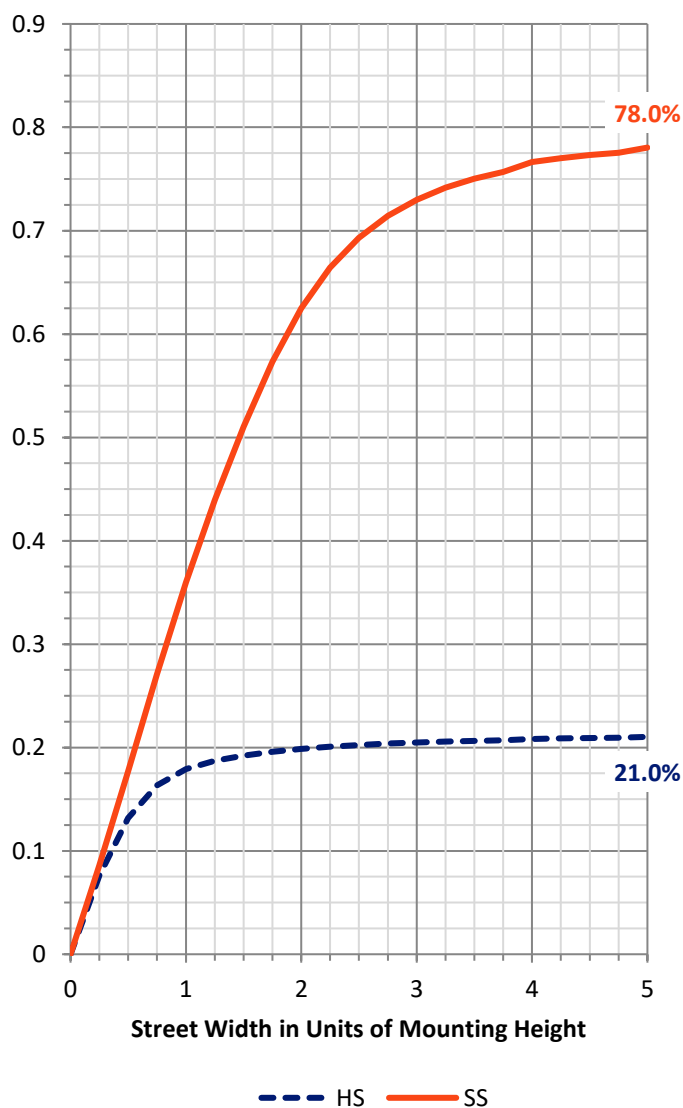
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1312.8	0.0	1312.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	4839.8	0.0	4839.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	6152.6	0.0	6152.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	1.3
10°-20°	239.1	3.9
20°-30°	411.8	6.7
30°-40°	623.1	10.1
40°-50°	807.6	13.1
50°-60°	1113.4	18.1
60°-70°	1729.9	28.1
70°-80°	1005.9	16.3
80°-90°	143.0	2.3
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°	6152.6	100.0
0°-180°	6152.6	100.0

Coefficient of Utilization



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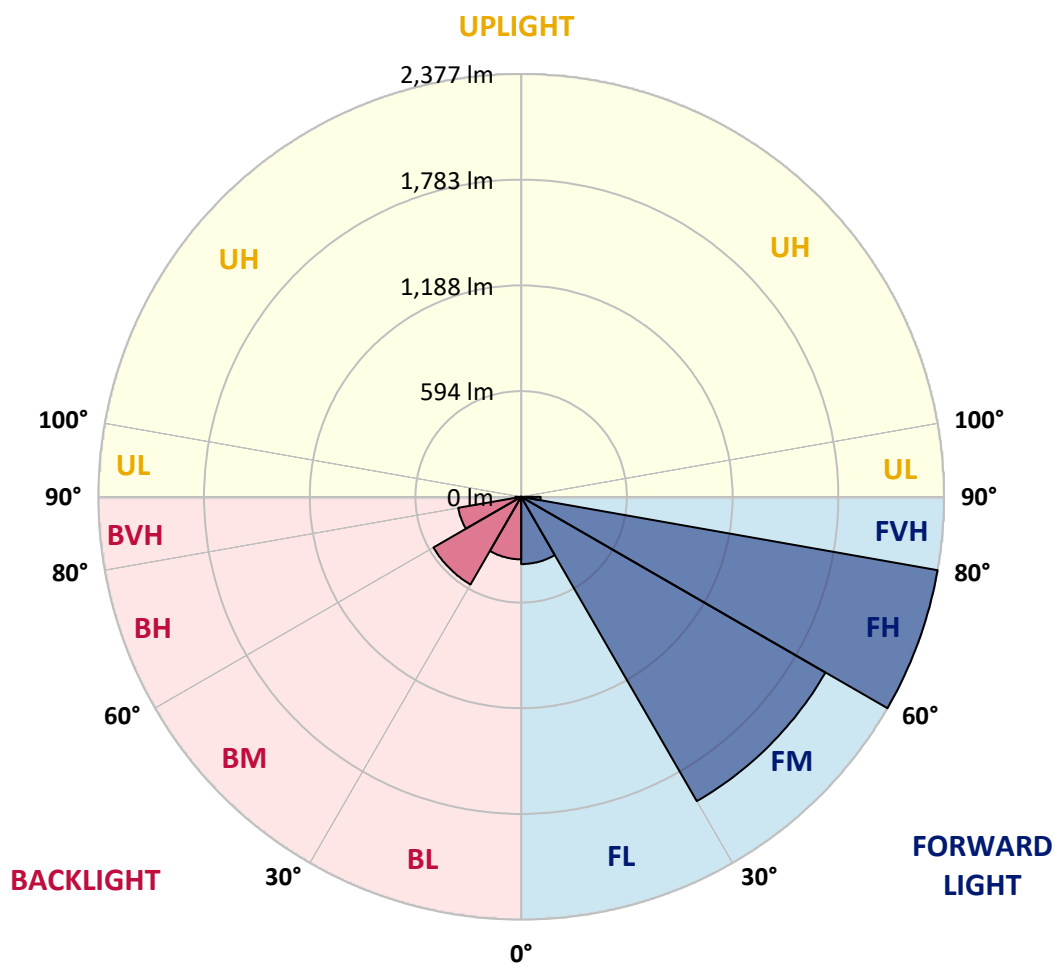
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	378.3	6.1			
FM	(30°-60°)	1975.0	32.1			
FH	(60°-80°)	2376.7	38.6			G2/5000
FVH	(80°-90°)	109.8	1.8			G2/225
BL	(0°-30°)	351.4	5.7	B1/500		
BM	(30°-60°)	569.1	9.2	B1/1000		
BH	(60°-80°)	359.0	5.8	B1/500		G1/500
BVH	(80°-90°)	33.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	811.0	811.0	811.0	811.0	811.0	811.0	811.0	811.0	811.0	811.0	811.0
2.5°	796.0	798.7	796.7	797.4	797.4	798.1	798.1	798.7	798.1	800.1	801.5
5°	781.8	783.1	782.5	783.8	785.2	787.9	787.2	790.6	791.3	793.3	796.7
7.5°	776.4	775.0	775.7	777.7	779.1	780.4	781.8	784.5	786.5	791.3	794.0
10°	781.8	781.1	781.8	783.1	783.1	783.8	782.5	785.2	786.5	790.6	793.3
12.5°	804.2	804.2	802.8	802.8	801.5	800.1	796.7	794.7	794.0	794.7	796.0
15°	840.1	838.8	836.1	834.0	831.3	826.6	821.8	817.8	815.0	811.0	809.6
17.5°	875.4	873.4	870.7	868.0	864.6	859.8	852.4	847.6	840.1	835.4	832.7
20°	916.2	912.1	908.7	905.3	898.5	897.2	889.7	881.5	872.7	861.9	860.5
22.5°	969.1	962.3	958.2	956.2	949.4	947.4	935.2	923.6	912.8	898.5	895.1
25°	1022.7	1015.9	1013.9	1011.2	1006.4	1003.7	992.2	979.3	965.0	945.3	941.3
27.5°	1075.0	1075.6	1070.2	1072.2	1070.9	1066.1	1054.6	1041.7	1030.8	1007.8	1003.0
30°	1140.1	1136.0	1133.3	1137.4	1132.6	1133.3	1123.1	1116.3	1098.7	1085.1	1075.6
32.5°	1208.0	1207.3	1211.4	1214.1	1213.4	1212.0	1203.9	1197.1	1181.5	1161.8	1157.7
35°	1300.9	1305.0	1308.4	1320.6	1320.6	1329.4	1321.3	1313.2	1294.8	1271.1	1262.9
37.5°	1364.0	1365.4	1379.0	1395.3	1415.6	1434.6	1440.1	1442.1	1434.6	1417.0	1404.8
40°	1421.7	1424.4	1446.2	1471.3	1501.1	1538.5	1560.9	1571.0	1573.1	1564.9	1538.5
42.5°	1479.4	1483.5	1505.9	1542.5	1583.9	1631.4	1670.8	1695.9	1710.2	1710.2	1694.5
45°	1546.6	1552.0	1576.5	1616.5	1664.7	1724.4	1778.7	1826.9	1849.9	1851.3	1836.4
47.5°	1626.0	1630.8	1659.3	1700.0	1749.5	1809.9	1878.5	1933.4	1976.2	1978.9	1966.7
50°	1728.5	1735.3	1759.0	1795.7	1846.6	1907.6	1976.2	2052.9	2097.6	2108.5	2095.6
52.5°	1864.2	1865.6	1885.2	1919.2	1968.7	2027.1	2099.7	2183.2	2242.2	2251.0	2230.0
55°	2051.5	2049.5	2062.4	2099.0	2136.3	2181.8	2257.1	2350.8	2416.6	2430.2	2408.5
57.5°	2306.0	2304.0	2314.8	2323.6	2393.5	2437.6	2511.6	2601.2	2665.0	2704.3	2667.0
60°	2700.3	2698.2	2715.9	2767.5	2819.7	2884.2	2956.1	3063.3	3152.9	3164.5	3127.8
62.5°	2986.0	2996.2	3034.8	3095.2	3201.1	3327.3	3459.0	3600.1	3784.0	3842.4	3824.8
65°	2886.2	2906.6	2960.2	3051.8	3193.0	3367.4	3573.7	3829.5	4075.9	4213.6	4209.5
66°	2796.6	2819.0	2884.9	2973.1	3122.4	3313.1	3538.4	3817.3	4092.8	4244.8	4254.3
67.5°	2633.8	2658.9	2723.3	2827.9	2973.1	3176.0	3418.3	3721.6	4033.1	4210.2	4235.3
70°	2316.8	2345.3	2392.2	2478.4	2621.6	2802.7	3057.9	3329.4	3655.8	3858.7	3889.2
72.5°	1936.8	1961.9	2014.2	2084.8	2202.2	2316.2	2516.4	2716.6	2950.0	3181.4	3159.0
75°	1390.5	1401.4	1432.6	1509.3	1572.4	1674.9	1835.7	1999.9	2159.4	2265.3	2280.2
77.5°	722.7	751.2	795.4	880.2	948.7	1041.0	1145.5	1269.0	1385.8	1482.8	1456.3
80°	473.0	485.2	524.6	568.0	618.2	677.3	747.2	793.3	808.2	802.1	808.2
82.5°	272.8	295.2	347.5	380.7	418.0	438.4	494.0	547.0	576.8	539.5	525.9
85°	34.6	44.8	141.2	177.8	203.6	234.1	251.1	283.0	264.0	236.2	287.7
87.5°	7.5	6.8	9.5	20.4	21.0	17.6	33.3	35.3	21.7	10.9	13.6
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	811.0	811.0	811.0	811.0	811.0	811.0	811.0	811.0	811.0	811.0	811.0
2.5°	802.8	803.5	804.9	806.9	808.2	809.6	811.0	813.0	814.4	815.7	818.4
5°	799.4	802.1	804.9	807.6	811.0	816.4	819.8	822.5	825.2	830.6	832.7
7.5°	797.4	802.1	806.2	811.0	816.4	821.1	827.3	830.6	834.7	838.1	842.2
10°	796.0	802.8	806.9	813.7	819.8	824.5	831.3	835.4	840.1	844.2	846.3
12.5°	798.7	802.1	806.2	813.0	820.5	827.3	834.7	838.1	842.2	845.6	846.3
15°	810.3	810.3	811.0	816.4	823.9	829.3	835.4	838.8	840.8	842.9	842.9
17.5°	831.3	826.6	823.2	823.9	828.6	832.0	835.4	835.4	834.0	833.4	832.0
20°	855.8	849.6	842.9	838.1	836.8	834.0	832.0	825.2	819.8	815.0	811.6
22.5°	891.0	881.5	872.0	863.2	855.1	844.9	833.4	819.8	806.9	798.1	792.6
25°	934.5	927.0	915.5	901.9	891.7	872.7	857.8	838.1	821.8	810.3	800.8
27.5°	996.2	987.4	976.6	964.3	949.4	928.4	910.0	887.0	867.3	850.3	838.1
30°	1072.9	1061.4	1053.2	1038.3	1028.1	1004.4	986.1	957.5	919.5	892.4	875.4
32.5°	1151.6	1138.7	1132.0	1120.4	1108.9	1094.6	1066.8	1022.7	973.8	929.7	900.5
35°	1256.8	1243.3	1231.0	1220.9	1203.9	1177.4	1153.0	1100.1	1032.9	971.1	922.3
37.5°	1389.2	1366.8	1336.2	1310.4	1280.6	1242.6	1205.2	1151.0	1074.3	994.2	929.0
40°	1530.3	1491.0	1447.5	1399.3	1347.8	1292.8	1250.0	1195.1	1108.9	1013.9	924.3
42.5°	1677.6	1615.1	1554.7	1486.9	1414.9	1349.8	1294.1	1233.8	1134.7	1019.3	905.3
45°	1823.5	1753.6	1662.0	1573.1	1482.1	1401.4	1338.9	1271.1	1158.4	1021.3	880.2
47.5°	1944.3	1872.3	1767.8	1656.5	1548.6	1457.0	1383.7	1310.4	1190.3	1035.6	874.1
50°	2071.9	1984.3	1868.3	1736.6	1614.5	1512.0	1433.9	1357.9	1235.1	1072.2	893.8
52.5°	2211.0	2110.5	1974.8	1827.6	1693.9	1579.2	1494.3	1416.3	1292.1	1123.8	931.1
55°	2380.6	2257.8	2110.5	1944.3	1801.1	1674.2	1580.5	1488.2	1360.0	1184.9	977.9
57.5°	2639.9	2489.2	2323.6	2134.3	1975.5	1825.5	1713.5	1607.0	1465.2	1275.8	1041.7
60°	3108.8	2948.0	2732.8	2503.5	2316.8	2141.8	1977.5	1845.2	1670.8	1455.0	1182.9
62.5°	3780.7	3566.9	3279.8	2958.8	2714.5	2462.1	2276.8	2080.0	1863.5	1630.8	1349.1
65°	4153.9	3894.7	3510.6	3138.0	2823.8	2549.6	2314.1	2086.1	1845.9	1623.3	1387.8
66°	4200.0	3930.0	3530.9	3138.7	2808.9	2527.2	2279.5	2043.4	1797.7	1585.3	1371.5
67.5°	4181.0	3904.8	3493.6	3079.6	2744.4	2441.7	2185.9	1940.9	1695.9	1497.7	1317.2
70°	3869.6	3607.6	3203.8	2802.7	2484.5	2185.9	1941.6	1700.6	1476.0	1306.4	1173.4
72.5°	3213.3	2989.4	2638.5	2323.6	2073.9	1827.6	1620.6	1390.5	1200.5	1075.0	996.2
75°	2319.6	2183.8	1864.2	1683.7	1464.5	1300.9	1100.1	963.7	827.3	766.2	752.6
77.5°	1465.2	1282.6	1079.7	889.0	730.9	606.0	471.6	400.4	333.9	327.1	395.0
80°	741.7	667.8	514.4	409.9	344.7	278.9	220.6	166.9	116.7	140.5	168.3
82.5°	485.9	405.1	317.6	261.3	227.3	188.7	146.6	101.8	74.6	84.2	115.4
85°	262.6	223.9	180.5	142.5	115.4	103.2	69.2	48.9	48.2	51.6	65.8
87.5°	19.0	19.0	14.9	13.6	16.3	13.6	12.2	12.2	11.5	12.2	16.3
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	811.0	811.0	811.0	811.0	811.0	811.0	811.0	811.0	811.0	811.0	811.0
2.5°	819.8	821.8	822.5	825.9	827.9	829.3	830.6	830.6	831.3	833.4	834.0
5°	835.4	838.8	842.9	845.6	846.9	851.0	852.4	852.4	853.7	856.4	858.5
7.5°	844.9	849.6	853.7	855.1	857.8	859.1	861.2	862.5	862.5	865.3	866.6
10°	848.3	851.0	855.1	855.1	857.8	857.8	859.8	860.5	860.5	863.2	865.3
12.5°	848.3	849.6	853.0	853.0	855.1	855.8	858.5	860.5	861.2	864.6	867.3
15°	844.2	845.6	848.3	849.0	853.7	856.4	862.5	866.6	866.6	870.0	871.4
17.5°	832.7	836.1	841.5	846.9	855.8	861.9	869.3	872.7	870.0	868.0	865.9
20°	813.7	819.8	832.7	846.3	861.9	870.0	874.1	870.7	861.2	851.7	845.6
22.5°	794.7	806.9	828.6	849.0	866.6	872.0	870.0	857.8	842.2	830.6	822.5
25°	803.5	817.8	838.8	857.1	868.6	867.3	859.1	842.2	825.2	810.3	796.7
27.5°	840.1	855.8	867.3	873.4	872.0	862.5	849.6	830.6	810.3	790.6	771.6
30°	874.8	882.9	885.6	880.9	870.0	854.4	838.1	816.4	789.2	764.8	743.1
32.5°	890.4	882.2	869.3	856.4	838.8	825.2	802.8	779.1	745.1	716.0	694.2
35°	890.4	857.8	825.2	798.1	771.6	754.6	728.8	697.0	665.7	641.3	624.3
37.5°	870.7	808.2	754.6	710.5	677.3	659.0	620.3	591.8	565.3	557.2	546.3
40°	834.7	742.4	665.1	607.4	565.3	538.2	499.5	479.8	469.6	465.5	463.5
42.5°	786.5	669.1	566.0	494.7	449.3	418.7	392.9	380.7	380.0	379.4	379.4
45°	735.0	590.4	469.6	384.8	344.7	317.6	305.4	300.6	304.7	304.0	304.7
47.5°	703.1	530.7	381.4	291.1	260.6	242.9	236.8	238.9	242.3	240.9	240.9
50°	699.0	500.2	322.3	226.7	203.6	194.8	193.4	193.4	195.4	194.1	193.4
52.5°	713.9	495.4	291.8	194.8	176.4	169.0	167.6	166.9	166.3	162.2	158.8
55°	739.7	506.3	283.0	186.6	167.6	159.5	157.4	156.1	153.4	147.9	141.8
57.5°	791.3	540.2	291.1	190.7	170.3	163.6	161.5	161.5	156.1	147.3	138.4
60°	915.5	626.4	324.4	206.3	183.2	176.4	177.8	177.1	169.0	156.1	142.5
62.5°	1075.6	739.0	367.8	228.0	199.5	198.2	204.9	203.6	190.0	170.3	150.7
65°	1149.6	792.0	380.0	232.8	202.9	209.0	222.6	221.2	204.3	177.1	152.0
66°	1151.0	792.0	374.6	228.7	198.2	205.6	219.2	218.5	201.6	174.4	149.3
67.5°	1123.1	770.2	359.0	220.6	188.7	194.1	206.3	205.6	190.0	167.6	143.9
70°	1018.6	689.5	319.0	206.3	175.8	173.1	177.1	174.4	164.2	148.6	132.3
72.5°	872.7	578.9	278.2	195.4	166.9	156.1	153.4	151.3	143.2	134.4	124.2
75°	687.5	458.1	244.3	187.3	158.8	144.5	139.8	137.1	131.7	125.5	117.4
77.5°	424.1	327.8	213.1	176.4	152.7	138.4	135.0	131.0	122.8	115.4	109.3
80°	189.3	202.9	175.1	154.0	136.4	123.5	118.1	112.0	103.8	99.1	95.7
82.5°	126.2	131.0	126.9	115.4	103.2	93.0	84.8	84.8	83.5	79.4	78.0
85°	80.8	81.4	78.7	71.3	66.5	60.4	57.0	57.7	60.4	59.7	59.0
87.5°	18.3	18.3	21.7	20.4	23.8	25.1	27.1	29.2	33.3	33.3	35.3
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):

	160°	165°	170°	175°	180°
0°	811.0	811.0	811.0	811.0	811.0
2.5°	834.7	836.1	837.4	835.4	836.1
5°	858.5	857.8	861.2	859.1	860.5
7.5°	865.9	866.6	869.3	869.3	870.0
10°	866.6	868.0	871.4	873.4	874.8
12.5°	870.0	872.7	878.1	879.5	879.5
15°	872.7	874.1	877.5	878.8	880.2
17.5°	863.2	860.5	861.9	862.5	861.9
20°	839.5	836.8	836.1	833.4	834.7
22.5°	813.7	806.2	801.5	796.0	796.0
25°	782.5	770.9	761.4	751.9	754.0
27.5°	753.3	738.4	728.8	722.7	721.4
30°	724.8	709.2	700.3	692.9	692.9
32.5°	677.3	666.4	654.9	650.1	649.4
35°	611.4	604.7	595.2	593.1	589.7
37.5°	537.5	535.4	527.3	526.6	523.2
40°	460.1	461.5	458.8	457.4	455.4
42.5°	382.7	389.5	388.2	387.5	386.1
45°	308.8	313.5	314.2	316.2	319.6
47.5°	242.9	244.3	245.7	245.0	245.7
50°	190.0	186.6	185.9	183.9	185.9
52.5°	153.4	147.9	145.2	142.5	141.2
55°	135.0	129.6	126.9	125.5	124.2
57.5°	130.3	124.9	120.8	118.1	117.4
60°	131.7	123.5	118.1	114.7	114.0
62.5°	135.0	124.2	116.7	113.3	112.7
65°	134.4	122.8	116.0	112.0	111.3
66°	132.3	121.5	114.7	111.3	110.6
67.5°	128.9	119.4	113.3	110.6	109.3
70°	122.8	116.7	112.0	108.6	107.2
72.5°	117.4	112.7	108.6	105.2	104.5
75°	111.3	107.2	103.2	100.4	99.8
77.5°	103.8	99.8	97.0	95.0	94.3
80°	91.6	88.9	86.2	83.5	83.5
82.5°	76.0	74.0	71.3	69.2	68.5
85°	58.4	58.4	56.3	54.3	53.6
87.5°	34.6	33.9	33.9	31.9	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)