

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: P181294

Luminaire Tested: **ICS-F02-LED-E1-T2**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181294
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
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-T2
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4553 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

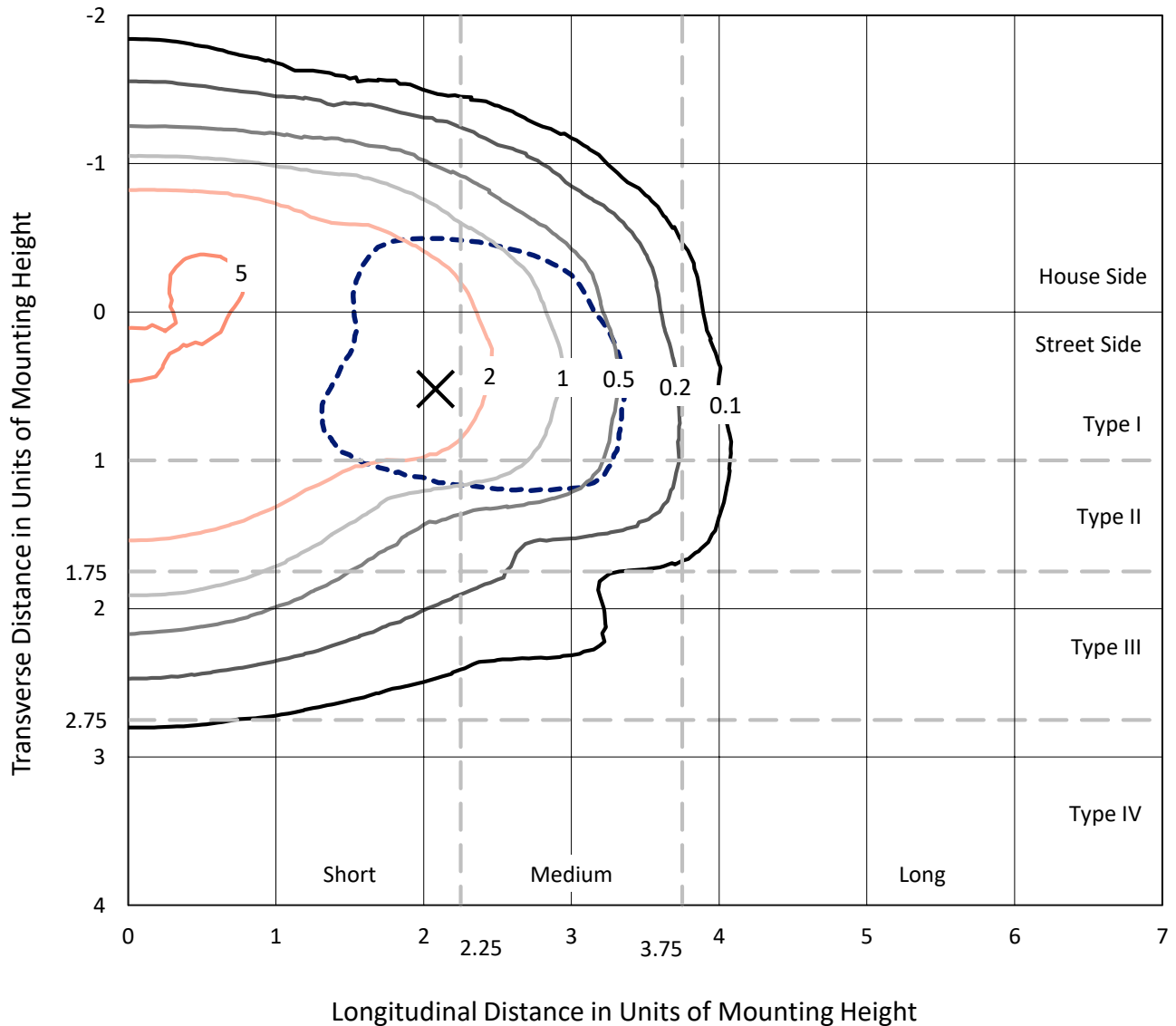
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

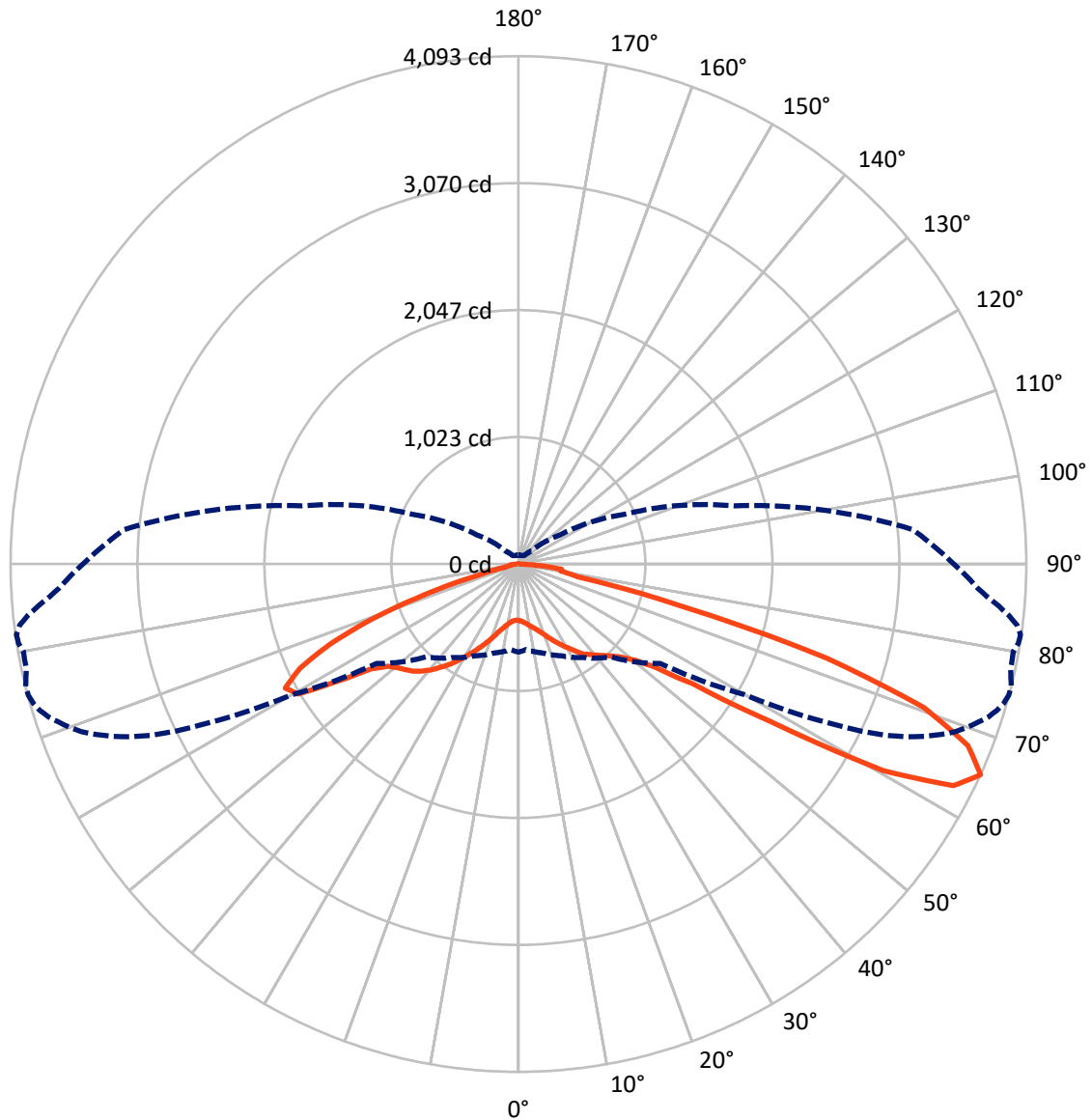
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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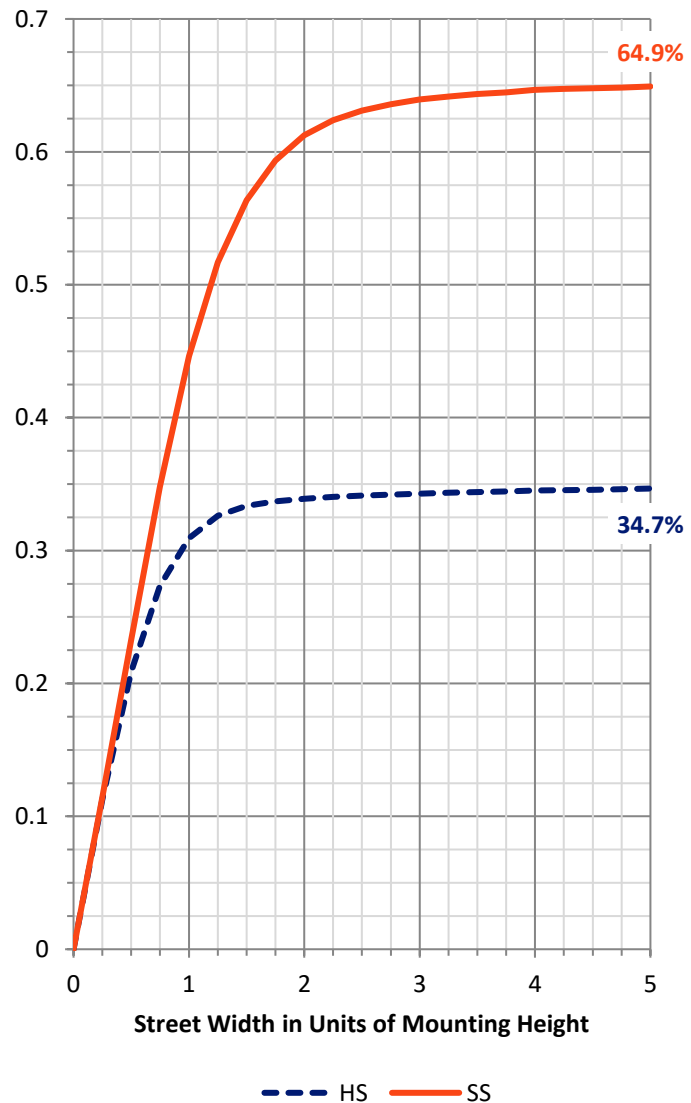
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1594.3	0.0	1594.3
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	2958.6	0.0	2958.6
	% Fixture	65.0	0.0	65.0
Total	Lumens	4553.0	0.0	4553.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	1.0
10°-20°	156.6	3.4
20°-30°	307.6	6.8
30°-40°	511.1	11.2
40°-50°	751.0	16.5
50°-60°	1039.8	22.8
60°-70°	1241.1	27.3
70°-80°	438.9	9.6
80°-90°	61.3	1.3
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°	4553.0	100.0
0°-180°	4553.0	100.0

Coefficient of Utilization



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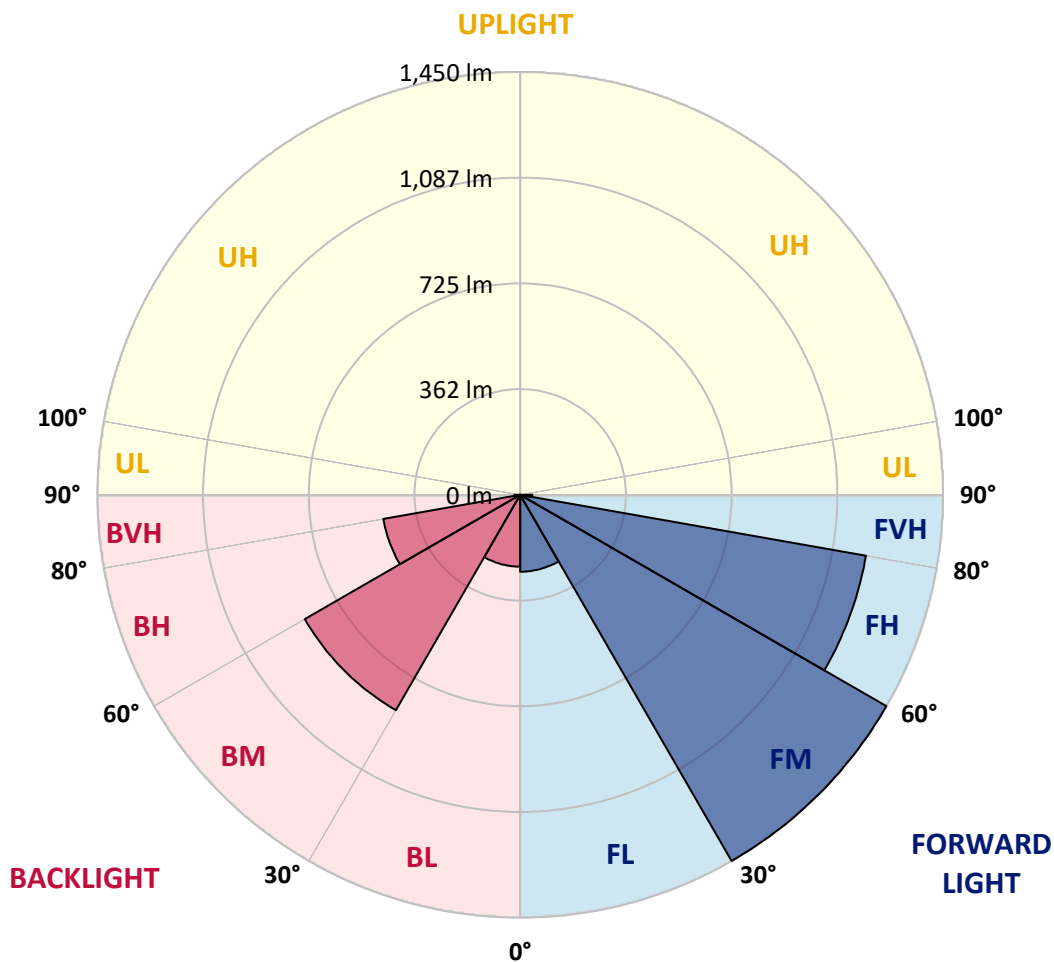
CATALOG NUMBER: ICS-F02-LED-E1-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	263.4	5.8			
FM	(30°-60°)	1449.5	31.8			
FH	(60°-80°)	1203.7	26.4			G1/1800
FVH	(80°-90°)	41.9	0.9			G1/100
BL	(0°-30°)	246.3	5.4	B1/500		
BM	(30°-60°)	852.4	18.7	B1/1000		
BH	(60°-80°)	476.2	10.5	B1/500		G1/500
BVH	(80°-90°)	19.4	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2
2.5°	475.0	475.5	474.5	474.0	472.6	470.1	468.1	466.1	466.1	466.1	464.6
5°	495.8	496.8	494.8	493.4	488.9	486.4	483.0	480.5	479.5	479.0	477.5
7.5°	522.1	520.6	517.6	516.6	513.2	507.7	501.3	496.3	496.3	495.8	496.3
10°	548.3	544.4	542.9	541.4	536.0	529.0	521.6	516.1	515.7	515.2	513.7
12.5°	574.6	573.1	571.6	566.2	560.7	549.8	541.4	536.0	535.5	536.0	534.0
15°	609.3	605.8	604.3	594.9	583.0	571.1	560.7	555.8	554.3	554.8	553.3
17.5°	636.0	636.0	632.6	622.1	606.8	590.4	579.6	576.6	576.1	576.1	576.6
20°	657.3	656.8	653.4	644.9	626.6	610.3	604.8	603.8	603.3	603.3	604.8
22.5°	669.2	668.2	666.7	657.3	643.0	632.1	632.6	635.5	636.5	637.5	639.5
25°	675.2	673.7	673.2	666.7	656.3	654.8	663.8	671.7	673.7	675.6	678.1
27.5°	685.1	682.6	683.6	681.1	678.6	683.1	701.4	709.8	711.3	713.8	715.3
30°	712.3	711.3	715.3	716.3	718.2	724.7	741.5	749.5	752.9	752.9	759.9
32.5°	764.3	764.8	765.8	776.2	779.7	784.1	793.0	799.5	800.0	800.5	806.9
35°	834.2	837.1	845.5	854.5	862.9	862.4	856.9	860.4	857.9	860.9	861.4
37.5°	922.3	918.4	930.7	951.1	963.9	960.5	936.2	920.3	924.8	922.8	921.3
40°	990.2	994.6	1018.4	1045.2	1055.1	1066.0	1034.3	1007.0	1003.1	995.6	991.2
42.5°	1083.8	1084.3	1103.6	1123.4	1152.2	1175.9	1155.6	1116.5	1104.6	1095.7	1076.4
45°	1170.5	1169.0	1184.9	1209.1	1243.3	1277.5	1284.9	1242.3	1237.9	1222.0	1196.7
47.5°	1228.4	1226.5	1237.4	1269.1	1324.5	1380.5	1411.2	1398.4	1389.9	1383.5	1343.9
50°	1267.6	1263.6	1276.0	1309.7	1371.6	1457.8	1538.0	1548.9	1545.5	1545.5	1520.2
52.5°	1296.8	1296.8	1305.7	1333.0	1395.9	1503.4	1647.0	1702.0	1706.5	1711.4	1709.9
55°	1280.5	1282.9	1305.2	1344.9	1411.2	1535.1	1737.2	1857.5	1882.3	1903.1	1926.9
57.5°	1224.5	1232.9	1262.6	1327.5	1415.2	1558.8	1837.2	2075.5	2145.3	2205.8	2299.9
60°	1142.8	1153.7	1196.7	1279.5	1386.0	1520.2	1872.4	2259.7	2370.7	2502.5	2748.2
62.5°	1002.6	1013.5	1055.6	1138.3	1229.4	1372.1	1726.8	2287.0	2464.3	2651.1	3022.6
65°	710.3	693.0	741.5	815.8	920.3	1058.5	1395.4	2104.2	2359.3	2612.4	3071.1
67.5°	395.8	394.3	424.0	479.5	579.6	728.2	961.5	1613.8	1848.6	2135.4	2698.6
70°	272.9	275.9	294.7	354.7	437.4	565.7	685.1	1013.5	1182.4	1377.1	1930.8
72.5°	191.7	198.1	208.5	244.2	328.9	476.5	699.9	605.8	690.0	822.8	1161.1
75°	112.4	116.9	124.3	141.7	187.2	318.5	724.7	532.5	532.5	563.7	702.4
77.5°	69.3	69.3	73.8	80.7	99.6	156.0	516.1	598.4	581.5	563.7	565.2
80°	35.7	38.1	44.6	48.0	55.5	71.3	231.8	558.3	612.2	648.4	623.1
82.5°	16.3	18.3	27.2	29.2	32.2	37.6	79.8	317.5	425.5	560.2	699.9
85°	8.4	8.4	14.4	17.8	19.3	17.3	29.2	128.3	194.2	296.2	463.6
87.5°	1.5	1.5	2.5	3.0	4.5	4.0	5.0	7.4	12.4	13.4	13.9
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°	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2
2.5°	464.1	464.6	464.1	463.6	462.6	462.6	462.6	462.2	462.2	462.2	461.7
5°	477.5	475.5	476.0	475.0	474.5	474.0	474.5	473.5	472.6	473.1	472.6
7.5°	494.4	493.4	491.4	491.4	490.9	489.9	489.9	488.4	487.9	486.9	486.4
10°	513.2	510.7	511.7	510.7	511.2	509.2	508.2	507.2	506.2	506.2	506.7
12.5°	532.5	532.0	530.5	529.5	529.5	528.0	528.5	528.0	526.5	526.1	524.6
15°	552.3	552.3	550.8	551.3	550.8	549.8	548.8	548.8	547.8	546.9	547.4
17.5°	575.6	575.6	575.6	575.6	576.1	574.6	575.1	574.1	573.1	575.1	575.1
20°	605.8	607.8	607.8	607.3	609.8	608.3	607.8	610.3	607.8	611.3	610.8
22.5°	640.5	642.5	642.5	644.4	644.9	646.4	647.4	646.4	648.4	650.4	650.4
25°	679.1	681.1	682.6	685.6	687.0	686.0	686.5	689.0	690.0	692.0	694.0
27.5°	719.7	720.2	722.2	725.7	728.2	729.1	729.6	733.6	734.1	735.1	737.1
30°	759.4	764.3	763.3	767.8	769.3	770.8	773.7	775.2	778.7	780.7	780.7
32.5°	805.9	804.9	808.9	812.4	814.8	817.3	819.8	821.8	823.8	824.7	829.7
35°	863.9	865.9	865.9	866.4	872.3	872.8	874.8	879.2	880.7	883.7	885.7
37.5°	921.3	917.9	917.4	917.4	915.4	916.9	917.4	917.9	919.8	920.3	922.3
40°	985.7	981.3	977.3	974.8	970.9	965.4	964.4	962.0	963.4	962.9	963.4
42.5°	1073.9	1061.5	1052.1	1045.2	1037.2	1031.3	1026.8	1020.4	1015.9	1010.5	1009.5
45°	1186.3	1163.1	1147.2	1135.8	1124.4	1108.1	1098.7	1088.8	1079.8	1070.9	1063.5
47.5°	1334.0	1309.2	1283.9	1263.1	1245.3	1219.0	1192.3	1177.4	1160.1	1144.7	1133.8
50°	1507.8	1478.1	1466.2	1437.0	1414.7	1375.1	1341.9	1317.6	1282.9	1259.7	1239.3
52.5°	1685.6	1678.2	1671.8	1647.0	1620.8	1598.0	1568.7	1526.1	1491.0	1464.2	1422.6
55°	1927.9	1931.3	1928.9	1915.5	1906.1	1884.3	1872.4	1835.2	1819.4	1780.8	1737.2
57.5°	2335.5	2363.3	2398.4	2412.3	2431.1	2413.3	2434.1	2459.4	2396.5	2418.3	2379.1
60°	2856.1	2983.4	3059.2	3152.4	3213.3	3298.5	3313.8	3336.1	3329.7	3342.1	3367.3
62.5°	3174.2	3325.2	3470.4	3575.9	3688.8	3751.2	3826.5	3879.0	3933.5	3970.2	3959.8
65°	3267.8	3423.3	3555.1	3670.5	3771.5	3847.8	3917.7	3983.5	4033.6	4068.7	4089.5
67.5°	2924.0	3127.1	3265.8	3401.0	3531.3	3611.5	3670.0	3733.9	3807.2	3868.1	3880.0
70°	2200.3	2504.9	2701.6	2863.6	3016.6	3124.6	3206.3	3265.8	3322.8	3366.3	3413.9
72.5°	1376.1	1642.6	1867.4	2077.5	2239.9	2388.5	2457.4	2589.2	2571.8	2605.0	2640.7
75°	824.7	954.5	1078.4	1226.5	1311.7	1435.5	1457.8	1479.6	1468.2	1431.0	1458.8
77.5°	573.1	594.4	593.4	585.0	576.1	554.3	526.1	510.7	500.3	485.4	491.4
80°	576.6	530.5	460.2	386.9	319.5	274.9	257.1	257.1	275.4	301.7	327.9
82.5°	689.0	640.0	570.6	477.5	378.4	308.1	261.0	242.2	245.7	272.4	306.1
85°	464.6	475.5	417.1	381.4	302.2	235.3	197.1	160.0	141.7	146.1	165.4
87.5°	16.8	20.3	7.4	9.9	6.9	5.9	5.9	6.4	4.5	5.4	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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2
2.5°	461.2	460.7	460.7	459.7	459.7	459.2	459.2	458.7	458.2	458.2	457.7
5°	472.1	471.6	470.6	470.1	469.1	469.1	468.6	467.6	467.6	466.6	466.1
7.5°	487.4	486.4	485.4	484.9	484.4	483.0	483.0	482.0	482.0	481.0	480.5
10°	505.7	504.8	503.8	504.3	502.8	502.3	501.3	501.3	499.8	499.3	499.3
12.5°	525.6	525.1	525.1	523.6	523.1	522.6	520.6	520.6	520.6	519.6	520.1
15°	546.9	547.4	545.9	547.4	546.9	545.4	545.4	545.4	543.4	545.9	543.9
17.5°	575.6	577.1	576.1	576.6	575.6	575.6	576.1	575.6	576.6	576.6	579.6
20°	611.3	611.7	614.2	613.2	613.2	612.7	613.7	614.2	616.2	615.2	617.2
22.5°	650.4	652.9	653.4	655.3	655.3	654.8	655.8	657.8	658.8	660.3	659.8
25°	695.0	696.5	698.4	696.0	699.9	699.9	700.9	703.4	703.9	703.9	707.3
27.5°	736.6	740.5	741.0	743.5	742.0	743.0	746.5	748.0	749.9	749.9	750.9
30°	783.6	785.1	786.1	789.1	788.6	789.1	789.6	792.1	792.1	794.5	797.0
32.5°	832.2	833.2	834.2	837.1	838.1	840.1	839.1	841.1	843.6	844.1	845.5
35°	890.1	891.1	892.1	896.6	897.1	900.5	901.5	900.5	904.5	902.0	904.5
37.5°	923.8	928.3	929.3	932.2	931.2	933.7	935.2	937.2	938.2	940.2	944.1
40°	964.9	966.4	969.4	970.9	972.9	973.3	975.3	976.8	978.3	982.8	987.2
42.5°	1007.0	1009.0	1010.5	1012.5	1015.0	1016.9	1018.4	1022.9	1023.9	1026.8	1035.3
45°	1058.1	1057.1	1057.6	1058.1	1059.0	1061.5	1066.0	1070.4	1073.4	1080.3	1087.3
47.5°	1121.5	1115.0	1112.5	1108.6	1109.6	1115.0	1116.0	1123.4	1129.4	1135.8	1144.2
50°	1217.6	1200.2	1189.8	1179.4	1178.4	1181.4	1185.4	1193.3	1200.2	1208.6	1220.5
52.5°	1379.0	1345.8	1325.0	1296.3	1288.4	1286.9	1283.9	1288.4	1290.4	1301.8	1324.0
55°	1706.0	1644.5	1604.9	1560.3	1518.7	1506.3	1482.6	1487.5	1482.6	1489.5	1522.7
57.5°	2388.5	2339.5	2300.9	2243.9	2172.6	2096.8	2078.0	2000.2	2015.5	2060.1	2031.4
60°	3379.7	3361.9	3334.1	3306.9	3209.3	3154.3	3064.7	3054.8	2991.9	2992.4	2951.2
62.5°	3934.5	3957.3	3940.4	3932.5	3927.1	3909.7	3865.2	3811.7	3731.4	3673.5	3588.3
65°	4093.0	4073.7	4055.4	4052.9	4051.4	4079.6	4086.1	4048.4	3975.6	3885.5	3787.4
67.5°	3908.2	3897.4	3898.3	3877.5	3890.4	3939.5	3973.6	3963.2	3896.4	3787.4	3662.6
70°	3468.4	3447.1	3468.9	3496.1	3515.4	3543.7	3577.9	3586.3	3525.3	3413.4	3286.1
72.5°	2597.1	2600.5	2621.3	2628.8	2706.5	2698.6	2729.3	2629.3	2585.2	2478.7	2413.3
75°	1366.6	1344.4	1402.3	1279.5	1228.9	1264.1	1165.5	1070.9	1090.7	1107.1	989.2
77.5°	483.0	451.8	398.8	377.5	314.0	266.0	217.5	196.2	184.8	178.8	171.4
80°	346.7	356.6	345.7	320.0	271.9	218.0	171.9	135.7	116.4	106.0	99.1
82.5°	350.7	389.8	407.2	399.7	356.2	269.5	177.8	113.4	84.2	70.3	65.4
85°	188.2	206.1	198.1	166.9	150.1	89.7	61.4	41.1	34.7	31.7	29.2
87.5°	7.4	5.9	5.0	5.0	5.4	5.9	5.0	5.4	5.0	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°	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2	455.2
2.5°	456.7	456.7	456.7	456.2	455.2	452.7	450.3	448.3	446.8	445.3	443.3
5°	465.6	464.6	464.6	464.6	460.7	456.7	453.2	449.8	446.8	444.3	442.3
7.5°	480.5	480.0	478.0	477.5	474.5	468.1	464.1	458.2	454.7	451.3	450.3
10°	498.3	497.8	497.3	496.8	492.9	486.4	481.5	476.0	471.1	466.1	461.2
12.5°	519.1	518.6	518.1	516.6	515.2	511.7	506.2	500.3	494.4	483.9	478.5
15°	544.9	545.9	544.9	544.4	543.4	543.9	540.4	532.0	522.6	509.2	497.8
17.5°	579.1	578.1	577.6	579.6	579.1	581.5	580.5	569.6	555.3	534.0	514.2
20°	616.7	616.7	618.7	620.2	624.6	631.1	628.1	614.7	588.5	558.7	533.0
22.5°	661.8	662.8	664.7	663.8	670.7	681.1	682.1	663.3	629.1	588.0	551.8
25°	708.8	709.8	707.8	710.8	722.2	737.1	740.0	713.3	668.2	614.7	567.7
27.5°	753.4	754.4	754.4	758.4	769.3	794.5	797.5	767.8	707.8	638.0	579.1
30°	797.0	801.0	802.0	802.9	819.3	854.5	860.9	817.8	742.5	655.3	587.0
32.5°	852.0	853.5	855.5	857.9	876.8	919.8	919.8	860.9	764.8	666.2	588.5
35°	910.9	911.4	915.9	916.4	943.1	986.2	977.8	896.6	780.7	663.8	577.6
37.5°	946.6	948.6	953.0	959.0	987.2	1048.1	1028.8	927.3	783.6	647.4	552.8
40°	990.7	994.6	999.1	1005.0	1047.2	1111.1	1071.9	946.6	771.2	615.2	515.7
42.5°	1038.2	1043.7	1050.6	1061.5	1111.5	1166.5	1104.6	949.6	743.0	579.1	471.6
45°	1091.7	1101.6	1109.6	1122.4	1178.9	1214.6	1124.4	932.2	707.3	531.5	424.5
47.5°	1153.7	1161.6	1175.4	1189.3	1245.8	1247.3	1126.4	898.6	658.8	483.9	374.5
50°	1229.9	1234.9	1255.7	1264.1	1317.1	1281.4	1112.0	853.0	607.8	430.5	319.0
52.5°	1331.5	1338.4	1365.2	1378.0	1415.7	1328.0	1091.7	803.4	549.3	370.5	262.0
55°	1532.1	1562.3	1581.1	1603.4	1627.7	1433.5	1082.8	750.4	483.5	301.2	207.5
57.5°	2095.3	2085.4	2127.0	2177.5	2177.0	1674.8	1136.3	704.9	405.7	230.3	159.5
60°	2934.4	2943.8	2922.5	2952.7	2856.6	1973.9	1209.6	656.8	318.0	171.4	121.9
62.5°	3558.0	3503.6	3473.3	3437.7	3226.2	2006.6	1156.1	558.3	231.3	120.4	93.6
65°	3705.7	3641.8	3576.9	3509.0	3190.0	1809.0	948.6	409.6	149.6	82.7	74.3
67.5°	3560.0	3457.5	3374.8	3304.9	2923.0	1499.4	693.5	251.6	85.7	66.9	63.4
70°	3182.6	3069.1	2935.4	2857.1	2461.4	1105.1	444.3	135.7	65.9	59.4	58.0
72.5°	2329.6	2236.5	2090.3	2000.7	1767.4	671.7	248.2	76.3	61.4	57.0	55.0
75°	907.5	858.9	798.0	802.9	716.8	297.2	112.4	65.9	59.9	56.0	54.0
77.5°	156.0	152.1	140.7	140.7	160.0	108.5	74.8	66.4	59.4	55.0	51.5
80°	93.6	91.6	87.2	86.2	83.2	76.3	71.8	67.4	58.5	52.0	47.6
82.5°	61.4	58.9	57.5	57.0	61.9	66.9	67.4	66.9	55.5	45.1	38.6
85°	26.3	26.3	26.3	26.7	35.7	54.0	55.5	59.4	45.6	35.2	27.7
87.5°	4.5	5.4	5.4	5.9	6.4	11.9	14.9	19.3	15.4	14.9	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°	455.2	455.2	455.2
2.5°	442.8	441.8	441.8
5°	441.3	440.4	440.9
7.5°	447.3	445.3	445.8
10°	458.2	456.2	455.2
12.5°	472.1	469.6	469.6
15°	486.4	480.5	480.0
17.5°	498.3	490.9	489.9
20°	511.7	501.8	500.3
22.5°	524.1	510.7	508.7
25°	533.0	516.6	514.2
27.5°	537.0	517.6	515.7
30°	539.9	518.1	515.2
32.5°	537.0	513.7	511.2
35°	520.6	495.3	493.9
37.5°	492.4	464.1	462.2
40°	455.2	425.5	420.5
42.5°	407.7	379.9	374.5
45°	361.6	329.9	327.4
47.5°	312.1	281.8	283.3
50°	260.1	232.8	232.3
52.5°	210.5	186.7	185.3
55°	165.9	149.1	147.6
57.5°	131.3	122.3	120.9
60°	107.0	102.5	101.0
62.5°	86.2	84.7	84.2
65°	71.8	71.8	71.8
67.5°	62.4	62.9	62.9
70°	57.5	58.0	57.5
72.5°	55.5	57.0	57.0
75°	54.0	55.0	53.0
77.5°	53.0	53.5	50.0
80°	52.5	52.0	45.6
82.5°	45.6	44.1	38.6
85°	41.6	31.7	26.7
87.5°	21.3	14.9	11.4
90°	0.0	0.0	0.0

(END OF REPORT)