

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: P181487

Luminaire Tested: **ICS-E02-LED-E1-T3-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181487
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-T3-8030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4685.3 lumens
Efficiency: N/A
Efficacy: 89.9 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

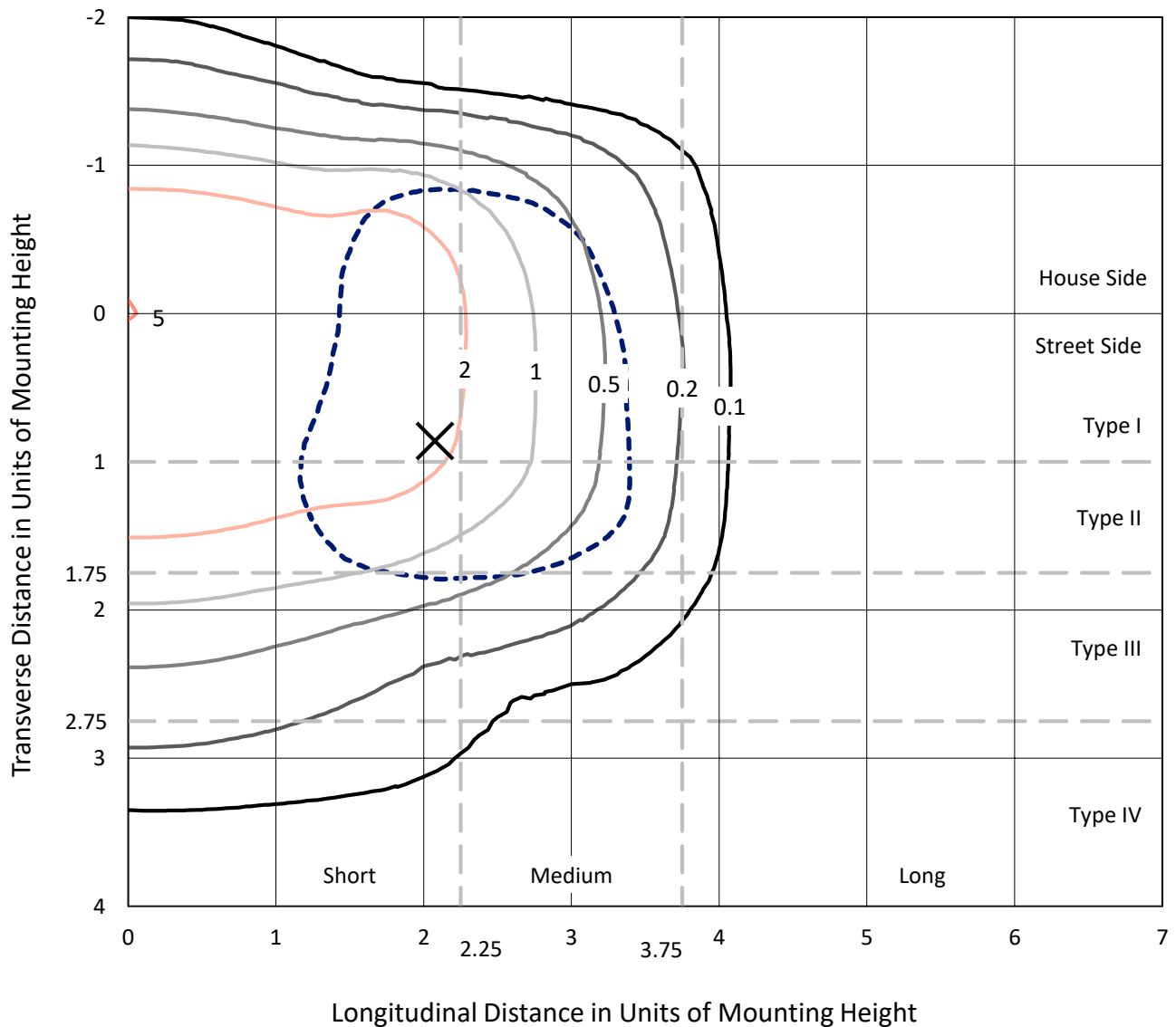
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

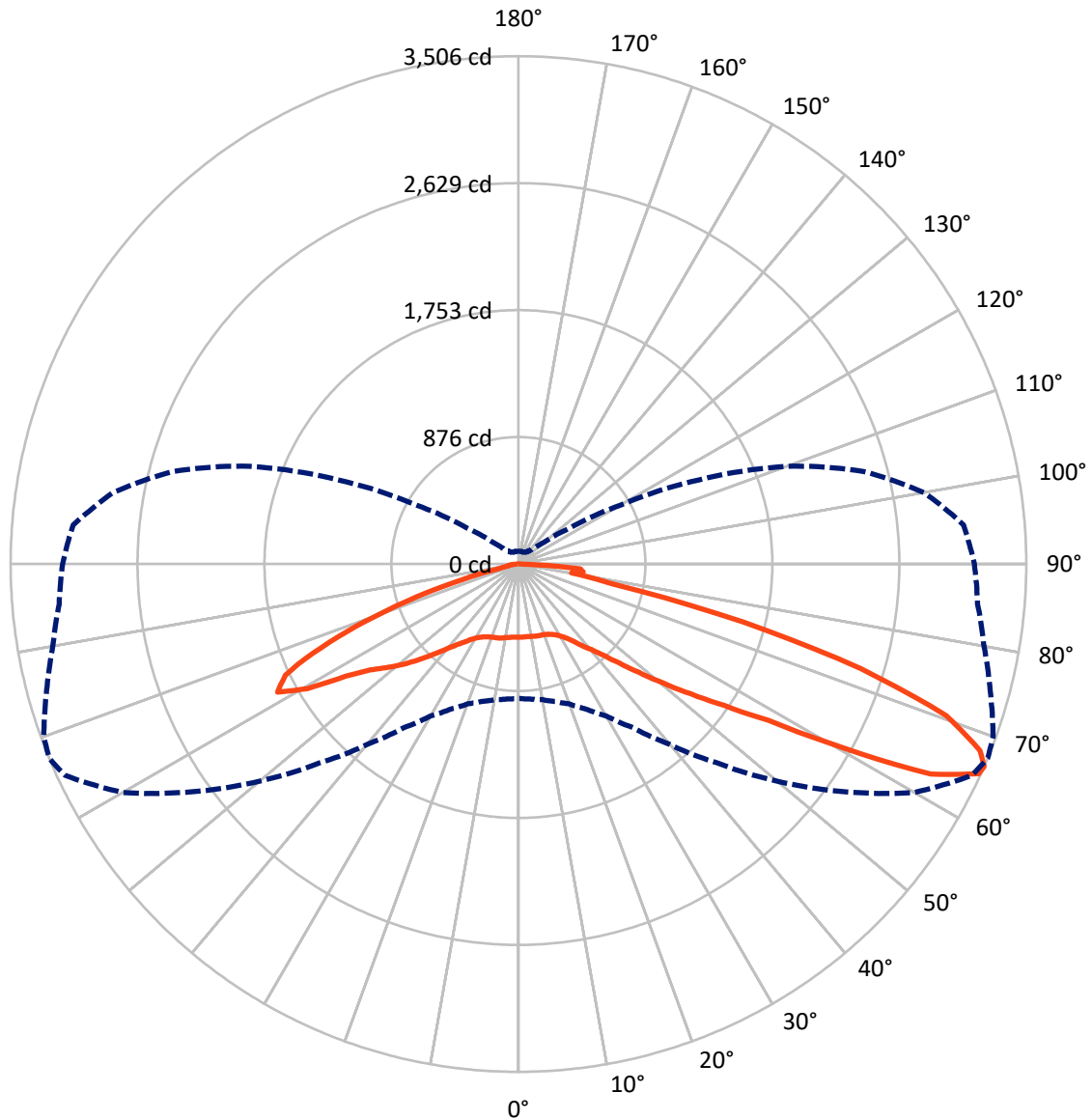
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 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	1618.0	0.0	1618.0
	% Fixture	34.5	0.0	34.5
Street Side	Lumens	3067.3	0.0	3067.3
	% Fixture	65.5	0.0	65.5
Total	Lumens	4685.3	0.0	4685.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	1.0
10°-20°	142.7	3.0
20°-30°	245.3	5.2
30°-40°	398.3	8.5
40°-50°	664.9	14.2
50°-60°	1047.0	22.3
60°-70°	1427.7	30.5
70°-80°	618.0	13.2
80°-90°	92.9	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°	4685.3	100.0
0°-180°	4685.3	100.0



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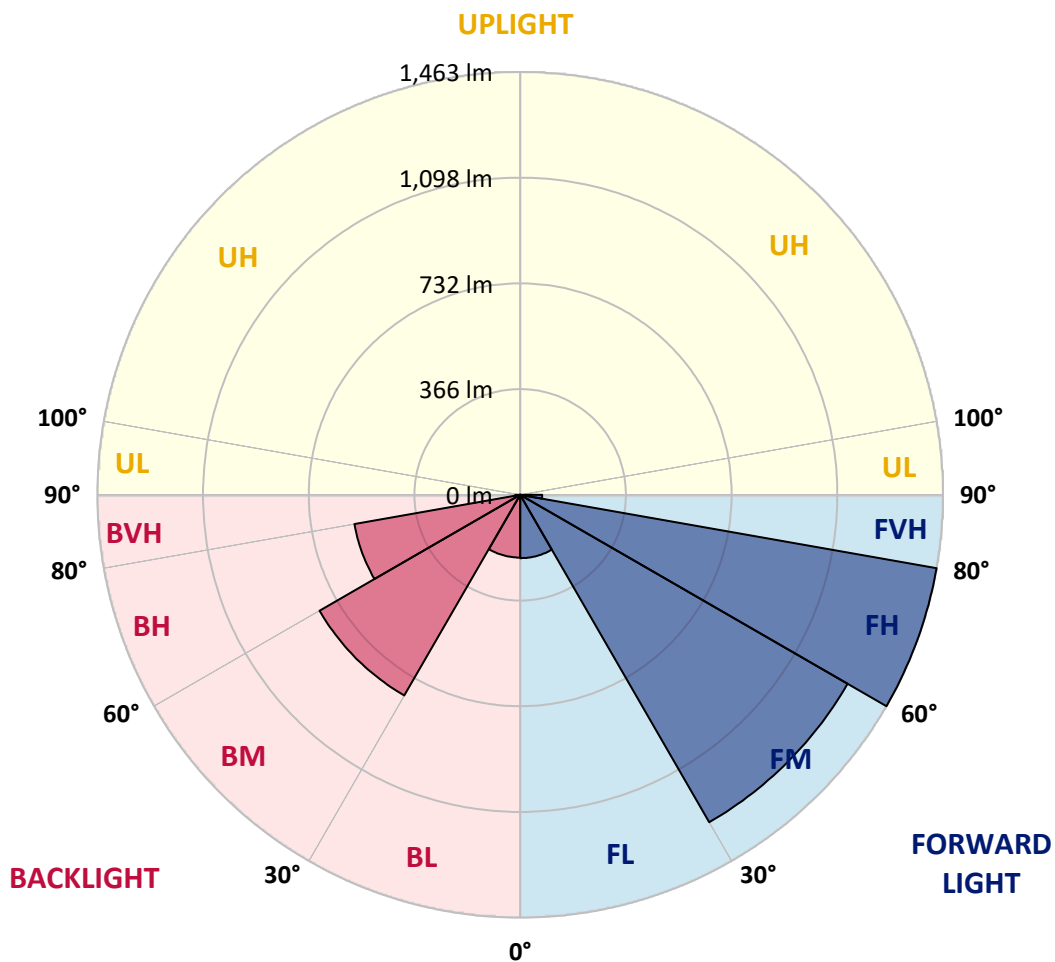
CATALOG NUMBER: ICS-E02-LED-E1-T3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	219.2	4.7			
FM	(30°-60°)	1308.4	27.9			
FH	(60°-80°)	1463.4	31.2			G1/1800
FVH	(80°-90°)	76.3	1.6			G1/100
BL	(0°-30°)	217.2	4.6	B1/500		
BM	(30°-60°)	801.8	17.1	B1/1000		
BH	(60°-80°)	582.4	12.4	B2/1000		G2/1000
BVH	(80°-90°)	16.6	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°	504.9	504.9	504.9	504.9	504.9	504.9	504.9	504.9	504.9	504.9	504.9
2.5°	506.9	509.0	506.9	507.4	507.9	507.4	506.9	506.9	505.4	506.4	507.4
5°	504.9	506.4	505.9	506.4	506.9	506.4	505.9	506.4	505.4	505.9	507.4
7.5°	502.4	501.9	502.4	503.4	504.4	504.4	504.4	504.9	504.4	504.4	505.9
10°	494.8	495.3	496.3	497.8	498.3	499.8	499.8	501.4	501.9	502.9	504.9
12.5°	485.2	485.7	486.7	487.7	490.2	492.7	492.7	496.3	497.8	500.3	503.9
15°	478.1	478.6	479.6	480.6	482.6	485.2	486.7	490.7	493.3	497.8	502.9
17.5°	482.1	481.6	482.6	483.1	483.1	485.2	485.2	488.2	491.2	495.3	501.9
20°	493.8	493.8	494.8	494.8	494.3	495.3	493.3	493.3	493.8	495.8	500.3
22.5°	505.4	504.9	506.9	507.9	508.4	510.0	507.9	507.4	504.9	503.4	504.9
25°	516.6	516.0	518.6	520.1	522.6	524.1	524.1	524.1	522.1	519.6	518.1
27.5°	533.8	533.8	536.3	537.8	539.8	542.9	544.4	544.4	544.9	541.4	538.8
30°	562.6	563.1	563.6	565.7	567.7	568.7	570.7	572.3	573.8	571.8	567.7
32.5°	597.1	594.0	594.0	597.1	599.6	602.6	603.7	605.7	608.7	607.2	606.7
35°	638.1	637.1	636.1	637.1	640.1	643.7	647.7	651.3	649.2	652.3	650.8
37.5°	698.9	699.9	700.4	700.4	699.9	700.9	702.9	706.5	705.4	706.5	708.5
40°	799.1	795.6	792.0	792.6	787.5	788.5	780.4	783.9	784.4	780.9	782.4
42.5°	899.4	901.4	903.0	907.0	903.5	901.4	893.8	893.8	889.8	886.2	885.2
45°	1007.8	1011.8	1012.3	1020.4	1017.4	1024.0	1029.6	1028.0	1021.5	1020.9	1013.9
47.5°	1094.4	1101.0	1108.1	1117.7	1125.3	1140.0	1157.2	1165.8	1170.8	1174.9	1166.8
50°	1159.2	1162.2	1180.5	1195.7	1212.4	1236.7	1260.5	1291.4	1316.2	1327.8	1339.0
52.5°	1194.1	1201.7	1221.5	1245.3	1274.7	1311.1	1349.6	1398.7	1441.3	1469.6	1495.0
55°	1201.7	1209.3	1231.6	1262.0	1302.0	1351.1	1406.3	1473.2	1537.0	1591.7	1644.9
57.5°	1180.5	1189.1	1212.9	1247.8	1294.9	1354.7	1424.1	1511.7	1599.8	1688.4	1766.9
60°	1141.5	1152.1	1173.9	1208.3	1260.5	1327.8	1410.9	1520.8	1644.4	1780.1	1930.5
62.5°	1077.2	1088.3	1108.6	1146.5	1200.2	1274.7	1370.9	1507.6	1682.3	1896.0	2162.9
65°	973.8	978.9	1003.7	1042.2	1089.8	1171.9	1277.7	1442.8	1670.2	1967.4	2335.1
66°	927.3	935.9	951.1	982.0	1027.5	1104.5	1210.9	1378.5	1624.1	1942.6	2330.6
67.5°	854.3	860.9	871.0	891.8	919.7	976.4	1077.2	1235.7	1483.3	1817.0	2233.8
70°	690.8	693.8	707.5	714.6	724.2	742.9	779.4	870.5	1063.5	1377.0	1802.9
72.5°	471.0	479.6	494.3	514.5	540.9	566.2	583.4	595.0	636.6	821.4	1201.2
75°	345.4	354.5	373.2	400.1	446.2	498.8	553.5	578.8	561.6	537.8	669.0
77.5°	200.5	212.7	228.4	254.2	296.8	366.6	460.3	543.4	599.6	603.1	572.8
80°	84.6	86.1	95.7	108.9	135.2	184.3	257.3	376.8	501.4	585.4	605.2
82.5°	19.2	23.8	30.4	36.0	44.1	60.8	90.1	149.9	270.9	424.9	554.0
85°	7.1	7.1	9.6	14.2	16.2	18.2	23.8	38.0	64.8	119.5	249.2
87.5°	0.0	0.5	1.0	1.0	2.0	2.5	4.1	5.6	5.1	4.6	15.2
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	504.9	504.9	504.9	504.9	504.9	504.9	504.9	504.9	504.9	504.9	504.9
2.5°	506.4	505.9	504.9	504.9	504.9	504.9	503.9	504.4	503.4	503.9	503.9
5°	505.9	505.9	505.4	504.4	504.9	504.9	505.4	504.4	504.4	504.9	504.4
7.5°	505.9	505.4	505.4	505.4	505.9	505.4	505.9	505.9	505.9	506.4	506.4
10°	505.9	505.9	506.9	507.4	507.4	507.9	509.5	509.5	510.0	510.5	511.5
12.5°	506.4	508.4	510.0	511.5	512.0	513.0	515.5	515.5	516.6	518.1	518.6
15°	506.9	510.0	513.0	514.0	515.0	517.1	519.6	520.6	522.1	523.6	524.7
17.5°	506.4	510.5	514.0	515.5	517.1	519.6	522.6	523.6	525.7	527.7	529.7
20°	505.9	511.5	517.1	519.1	521.1	524.7	528.7	531.2	533.3	536.3	538.3
22.5°	509.0	515.5	523.1	526.2	529.7	534.3	539.8	542.9	545.4	548.5	550.0
25°	518.6	523.6	532.8	537.8	542.4	550.0	557.6	561.1	564.2	566.7	567.2
27.5°	534.8	536.3	547.4	554.0	560.6	572.8	581.9	584.4	590.0	592.0	591.5
30°	561.1	558.6	567.7	577.8	587.4	604.2	615.3	621.9	627.0	627.0	622.9
32.5°	599.1	595.0	597.6	609.2	620.4	644.7	657.8	666.5	670.0	669.0	660.4
35°	648.7	646.2	644.7	653.8	671.5	699.9	717.1	721.7	727.2	726.2	715.1
37.5°	707.5	705.4	705.4	716.1	733.3	775.3	794.1	797.1	796.6	788.5	767.7
40°	776.9	775.8	771.3	777.4	792.0	846.7	872.1	876.1	870.5	857.4	833.1
42.5°	876.6	870.5	856.4	859.9	871.0	924.2	957.1	968.3	962.7	949.5	910.0
45°	1006.8	1000.2	976.4	973.3	979.4	1026.0	1068.6	1071.1	1070.1	1053.4	1006.8
47.5°	1159.7	1149.6	1124.3	1116.2	1114.1	1157.2	1198.2	1202.2	1199.7	1174.9	1112.6
50°	1325.3	1310.6	1293.9	1288.3	1280.2	1311.1	1352.7	1353.2	1343.0	1308.6	1250.4
52.5°	1502.0	1497.0	1493.9	1488.4	1484.8	1511.7	1537.0	1521.8	1506.6	1470.6	1420.0
55°	1680.3	1701.1	1722.3	1724.4	1730.4	1759.3	1758.8	1717.3	1706.1	1686.4	1636.2
57.5°	1869.7	1946.7	2013.5	2034.3	2054.6	2108.2	2103.2	2062.2	2048.0	2023.7	1982.1
60°	2127.5	2335.1	2528.1	2574.1	2606.0	2670.4	2664.3	2601.0	2630.4	2628.3	2574.6
62.5°	2488.6	2833.9	3123.1	3194.0	3216.3	3223.4	3184.9	3116.5	3145.4	3177.8	3012.7
65°	2733.2	3139.3	3436.1	3490.8	3493.8	3409.2	3323.6	3243.1	3236.0	3208.2	2972.2
66°	2738.7	3154.5	3452.3	3505.5	3486.7	3371.3	3262.9	3181.9	3146.9	3085.6	2841.0
67.5°	2640.5	3059.8	3380.4	3436.6	3395.6	3232.0	3082.6	2978.3	2909.9	2810.6	2594.9
70°	2217.6	2633.4	3028.4	3133.2	3146.4	2902.3	2695.2	2572.6	2480.5	2344.2	2158.4
72.5°	1648.9	2024.7	2373.1	2473.4	2524.5	2329.5	2154.8	2061.6	1935.5	1792.2	1660.1
75°	1033.6	1299.0	1532.4	1602.8	1554.7	1403.8	1299.0	1260.0	1135.9	1050.3	990.1
77.5°	591.0	674.0	692.8	665.9	609.2	466.4	331.7	245.6	213.2	236.0	260.3
80°	576.8	528.7	421.3	370.7	335.8	230.9	135.7	93.2	77.5	79.5	86.1
82.5°	624.9	670.5	552.0	450.2	377.8	255.2	140.8	75.0	50.6	59.8	67.4
85°	406.2	565.2	509.0	428.9	347.4	218.3	116.0	39.0	25.8	33.9	46.6
87.5°	41.0	45.1	38.5	52.2	39.0	18.2	9.1	5.6	5.1	6.1	9.1
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°	504.9	504.9	504.9	504.9	504.9	504.9	504.9	504.9	504.9	504.9	504.9
2.5°	504.4	504.4	504.9	505.4	505.9	506.4	506.4	506.4	506.4	507.4	506.9
5°	505.4	506.4	507.4	507.9	509.0	509.0	510.5	510.0	510.0	511.5	512.0
7.5°	507.4	509.0	511.0	510.5	512.5	512.0	513.0	513.0	511.5	512.0	511.0
10°	512.0	514.0	515.0	513.5	514.0	512.0	511.5	509.0	505.9	504.4	502.4
12.5°	519.6	521.6	521.6	519.1	516.0	511.5	507.9	502.4	497.8	495.3	492.7
15°	526.2	528.2	527.7	523.6	519.1	512.0	506.9	500.3	493.8	489.7	487.2
17.5°	531.2	532.2	530.7	525.2	520.1	513.5	508.4	501.4	493.8	488.7	484.1
20°	538.8	537.8	534.3	527.2	521.6	515.5	511.5	505.4	496.8	490.2	483.6
22.5°	550.0	545.9	539.3	531.7	526.2	520.6	516.6	510.0	501.4	493.3	485.7
25°	564.7	556.6	547.4	539.3	534.3	528.2	523.6	516.6	507.4	498.3	489.2
27.5°	585.9	571.8	560.1	553.0	547.4	539.8	534.3	525.2	515.5	504.9	494.8
30°	609.7	590.5	579.3	573.8	567.7	559.6	551.0	539.3	528.2	516.6	504.4
32.5°	640.6	617.3	606.7	601.1	593.0	582.9	572.8	559.6	543.9	528.7	514.0
35°	681.1	657.3	646.2	637.6	626.4	613.3	598.6	580.9	559.6	539.3	520.6
37.5°	724.7	698.9	688.2	679.1	662.4	645.2	624.4	598.6	569.7	542.9	519.6
40°	779.9	756.1	742.4	726.7	707.0	677.1	644.7	607.2	570.2	537.3	510.0
42.5°	849.8	826.0	805.7	780.9	746.5	700.4	654.3	605.7	561.1	523.6	494.3
45°	942.5	913.6	878.6	835.1	779.4	715.1	654.8	596.1	543.9	502.4	471.0
47.5°	1055.9	1011.8	954.6	881.2	801.2	719.1	646.7	576.8	517.1	472.0	437.0
50°	1190.6	1121.2	1027.0	919.2	812.3	713.0	626.4	547.9	479.1	431.0	389.4
52.5°	1344.6	1231.1	1092.4	946.5	811.8	692.8	592.0	504.4	429.4	375.8	336.3
55°	1525.3	1356.7	1159.7	966.8	797.6	655.3	539.3	443.1	368.2	318.5	282.1
57.5°	1790.2	1560.3	1277.2	998.2	769.3	597.6	467.9	369.7	303.9	256.8	225.9
60°	2274.3	1900.1	1488.9	1061.5	725.7	513.0	384.4	291.2	236.0	198.0	177.2
62.5°	2639.0	2162.9	1603.3	1047.3	638.1	408.7	285.1	212.2	173.7	147.9	134.7
65°	2586.8	2081.4	1481.3	901.9	500.3	288.2	189.4	144.3	119.5	107.4	99.8
66°	2468.8	1975.0	1375.4	811.8	432.5	239.5	156.0	121.0	102.8	94.2	89.1
67.5°	2245.0	1777.5	1186.0	665.4	332.2	173.7	117.5	95.7	83.6	80.0	76.5
70°	1866.2	1417.5	832.6	387.4	169.7	96.7	74.4	66.8	63.8	63.3	62.3
72.5°	1430.1	1003.2	490.2	183.3	88.1	64.3	57.7	55.2	54.2	54.2	54.7
75°	876.6	563.6	216.7	89.6	61.8	54.2	51.1	50.1	49.6	50.1	49.6
77.5°	292.7	179.3	92.7	67.9	56.2	50.1	48.1	47.1	47.1	47.1	47.1
80°	89.6	78.0	70.9	62.8	53.2	47.6	44.6	44.1	44.6	45.1	43.6
82.5°	67.4	63.8	59.8	55.7	48.1	42.5	41.5	41.5	41.5	40.0	38.0
85°	49.6	49.1	40.5	38.0	35.4	35.4	35.4	35.4	33.9	31.4	29.4
87.5°	9.1	8.6	9.1	9.6	14.2	15.2	15.2	16.2	17.7	16.7	16.7
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):

	160°	165°	170°	175°	180°
0°	504.9	504.9	504.9	504.9	504.9
2.5°	506.9	506.4	507.9	506.9	507.4
5°	511.5	511.0	512.0	511.0	512.5
7.5°	510.0	509.0	508.4	509.0	509.5
10°	499.3	498.3	497.8	497.3	497.8
12.5°	490.2	488.2	488.2	487.2	487.7
15°	483.6	482.1	481.6	480.6	481.1
17.5°	480.6	478.1	477.0	476.0	476.0
20°	478.6	475.5	474.0	473.0	472.5
22.5°	478.6	474.0	472.0	471.0	470.5
25°	480.6	475.0	472.0	470.5	470.0
27.5°	484.6	477.6	474.0	472.0	472.0
30°	491.7	482.6	477.6	475.0	474.5
32.5°	498.8	486.7	479.6	476.5	475.5
35°	502.4	486.7	478.1	473.0	472.0
37.5°	498.3	480.1	469.5	461.9	460.3
40°	485.7	466.4	454.8	447.7	446.7
42.5°	468.9	450.2	436.5	431.5	430.0
45°	446.2	423.9	410.2	403.1	403.6
47.5°	407.2	384.4	372.2	365.6	366.6
50°	361.1	338.8	328.2	321.1	322.6
52.5°	310.4	290.2	280.1	276.5	275.5
55°	257.3	241.6	234.5	230.4	228.9
57.5°	208.6	197.5	192.4	187.4	187.9
60°	164.6	159.0	157.5	151.9	151.4
62.5°	129.6	126.1	124.6	120.5	121.0
65°	98.2	97.2	98.2	95.7	96.7
66°	88.6	89.1	89.1	87.6	88.6
67.5°	76.5	77.5	79.0	77.5	78.5
70°	63.3	64.3	65.3	65.3	65.3
72.5°	55.2	56.2	56.7	56.7	56.7
75°	50.6	51.1	51.7	50.6	50.6
77.5°	47.6	47.6	46.6	46.1	45.6
80°	43.0	42.5	41.0	40.0	40.0
82.5°	36.0	34.9	33.9	32.4	32.4
85°	27.3	26.3	25.3	23.3	22.3
87.5°	14.2	14.7	14.2	11.6	10.1
90°	0.0	0.0	0.0	0.0	0.0

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