

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: P180631

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180631
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
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-HSS-8030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2174.5 lumens
Efficiency: N/A
Efficacy: 39.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

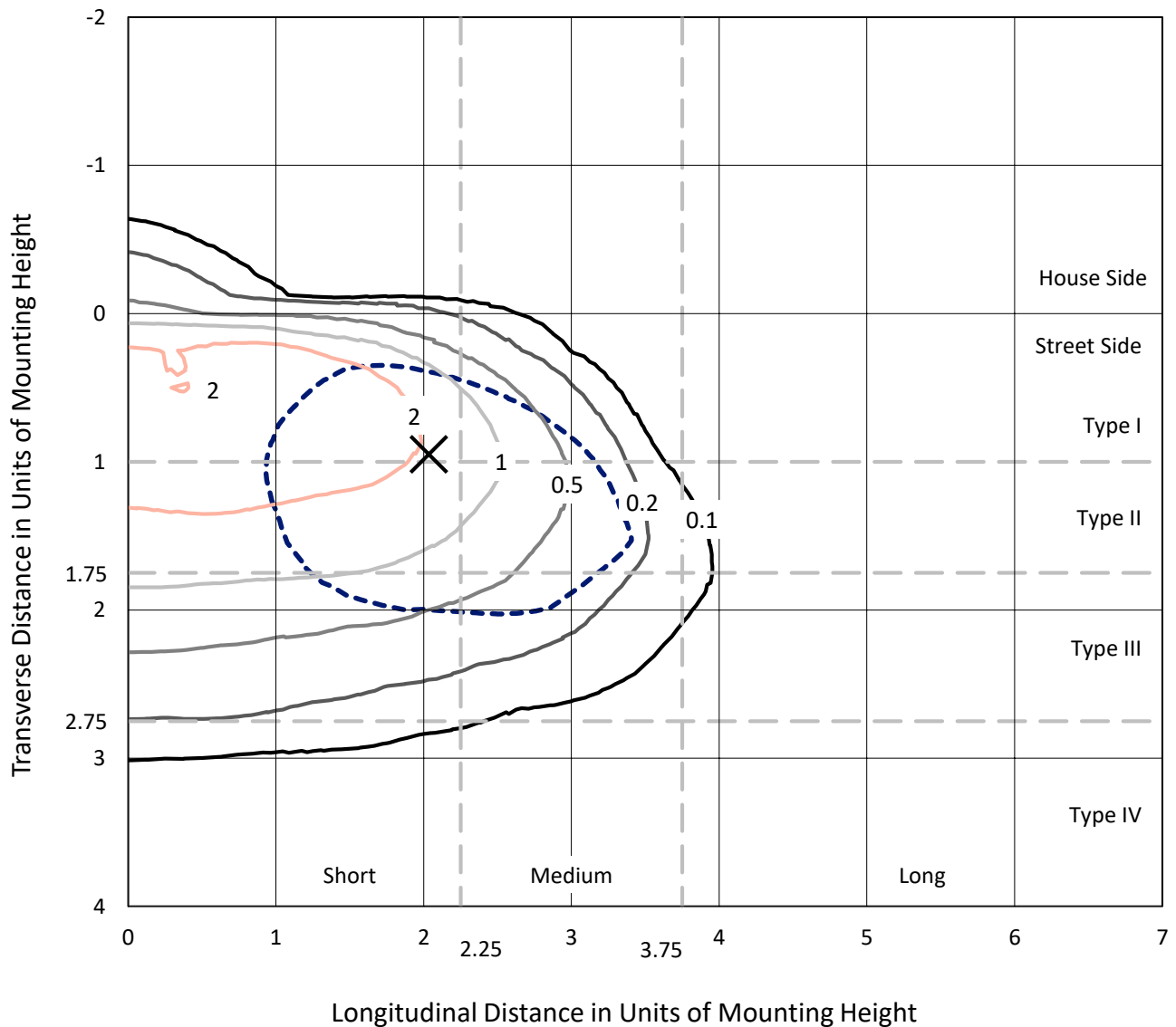
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

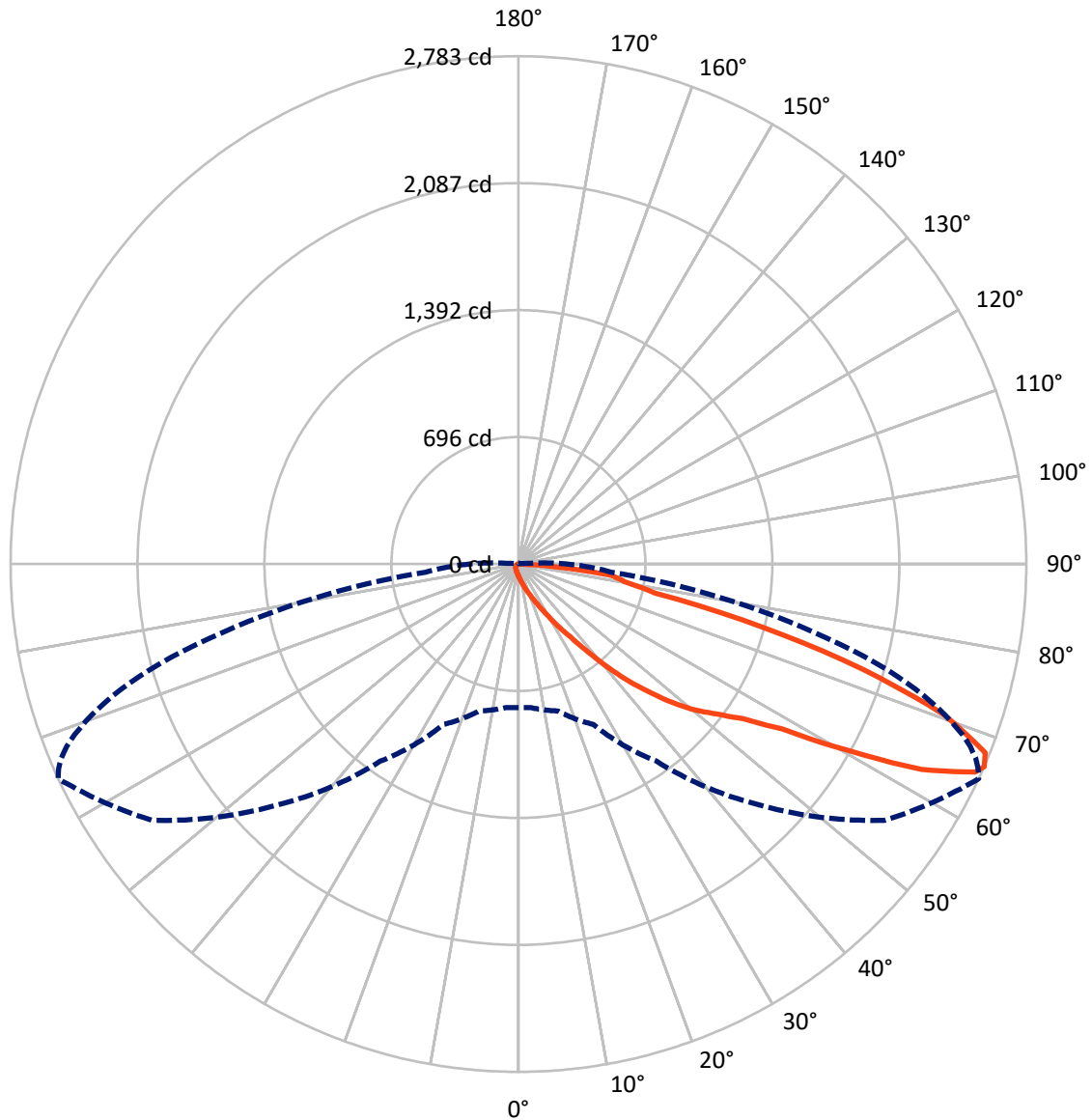
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	47.1	0.0	47.1
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	2127.4	0.0	2127.4
	% Fixture	97.8	0.0	97.8
Total	Lumens	2174.5	0.0	2174.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	0.3
10°-20°	31.2	1.4
20°-30°	67.2	3.1
30°-40°	143.5	6.6
40°-50°	317.4	14.6
50°-60°	537.8	24.7
60°-70°	717.7	33.0
70°-80°	316.1	14.5
80°-90°	36.4	1.7
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°	2174.5	100.0
0°-180°	2174.5	100.0



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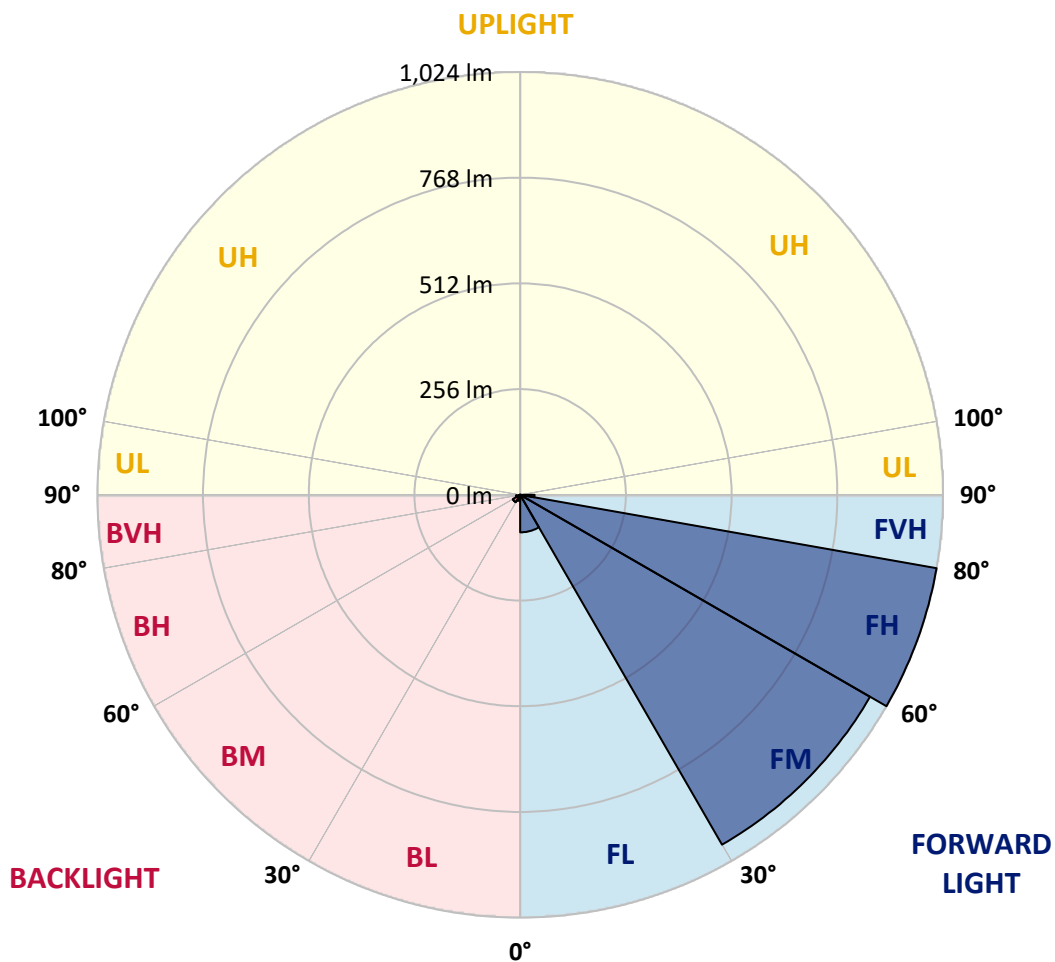
CATALOG NUMBER: ICS-F02-LED-E1-SL3-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	90.8	4.2			
FM	(30°-60°)	978.0	45.0			
FH	(60°-80°)	1023.7	47.1			G1/1800
FVH	(80°-90°)	35.0	1.6			G1/100
BL	(0°-30°)	14.9	0.7	B0/110		
BM	(30°-60°)	20.7	1.0	B0/220		
BH	(60°-80°)	10.1	0.5	B0/110		G0/110
BVH	(80°-90°)	1.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
2.5°	82.8	82.4	80.7	80.7	78.2	76.5	74.4	72.3	72.3	71.9	71.5
5°	109.5	107.0	106.6	102.0	98.2	92.8	87.8	81.1	80.3	79.4	79.0
7.5°	139.2	138.8	135.0	129.6	122.1	112.0	102.0	91.1	89.5	88.6	87.0
10°	177.7	175.6	170.6	161.4	150.1	136.7	120.4	103.3	101.2	99.5	98.7
12.5°	214.5	210.7	207.8	196.1	181.9	162.2	142.6	117.9	116.2	114.1	110.8
15°	248.7	245.4	240.4	230.4	214.5	189.8	166.8	136.7	132.5	129.6	127.1
17.5°	275.5	273.4	267.6	256.3	239.1	217.4	189.8	155.9	152.6	148.8	144.2
20°	301.0	298.1	288.9	273.4	255.0	238.3	217.0	181.0	176.4	171.8	166.8
22.5°	325.3	322.3	307.3	281.8	262.1	255.0	247.5	209.5	202.3	198.6	193.6
25°	359.1	352.8	329.4	288.9	262.5	268.0	280.9	246.2	239.6	234.1	226.2
27.5°	404.7	396.3	359.5	299.3	264.2	282.2	319.4	291.0	283.9	277.6	268.8
30°	456.1	450.7	406.8	324.4	276.3	303.1	362.5	347.8	339.5	331.9	321.5
32.5°	507.9	500.4	456.9	372.1	308.9	343.6	416.4	413.9	403.0	395.9	384.6
35°	553.5	549.8	517.6	450.3	383.4	414.7	488.3	491.2	481.6	474.1	461.5
37.5°	584.5	584.5	578.2	534.3	501.7	525.1	594.1	594.5	584.9	567.7	561.5
40°	600.3	604.9	627.5	635.9	634.2	664.3	732.9	725.3	717.4	708.6	687.7
42.5°	632.9	637.1	685.2	742.9	780.5	820.2	867.5	865.0	855.4	839.5	820.2
45°	688.1	693.6	750.8	842.4	919.7	976.2	1006.3	994.6	985.0	969.9	959.9
47.5°	758.4	768.8	833.6	946.9	1040.1	1133.4	1164.7	1133.8	1125.4	1113.7	1097.4
50°	833.2	843.2	912.2	1041.8	1147.2	1258.4	1310.6	1258.4	1246.2	1242.5	1224.1
52.5°	898.0	906.4	972.8	1115.0	1229.1	1359.5	1435.6	1366.7	1357.9	1345.3	1332.0
55°	936.5	943.2	1005.4	1150.1	1284.7	1450.7	1556.5	1495.8	1482.9	1477.9	1458.6
57.5°	949.4	956.1	1012.1	1154.7	1314.8	1533.9	1703.2	1705.3	1689.8	1671.8	1666.0
60°	949.4	956.9	1004.2	1143.4	1344.1	1622.5	1898.8	2073.2	2039.7	2036.4	2015.1
62.5°	910.1	917.2	964.9	1108.7	1383.4	1742.1	2171.4	2479.1	2469.5	2447.8	2412.6
65°	824.8	829.0	875.8	1020.1	1368.3	1852.0	2407.6	2749.2	2733.7	2691.1	2645.9
66°	786.4	789.7	833.6	969.5	1319.0	1867.1	2449.4	2783.1	2757.6	2721.6	2670.6
67.5°	730.8	736.6	767.6	875.4	1200.7	1814.8	2423.1	2759.2	2737.1	2693.6	2642.6
70°	487.9	483.7	592.8	671.8	914.7	1478.7	2173.9	2477.4	2477.9	2457.4	2436.9
72.5°	231.6	234.1	265.9	413.5	598.7	987.9	1730.4	1977.4	2005.9	1969.1	1943.6
75°	166.4	170.2	189.4	252.9	357.0	592.8	1121.7	1383.0	1383.8	1318.6	1260.5
77.5°	48.5	50.6	71.1	155.9	267.6	400.1	644.2	768.8	750.8	704.0	660.1
80°	20.1	20.1	20.9	49.7	107.4	271.7	450.7	592.0	589.9	571.9	546.0
82.5°	7.5	7.9	10.0	20.5	25.5	66.9	300.6	513.8	512.5	487.0	468.6
85°	0.8	0.8	2.5	8.8	9.6	12.5	60.2	226.6	225.3	226.6	198.6
87.5°	0.0	0.0	0.4	0.8	1.3	1.7	2.5	8.8	9.6	9.2	8.4
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
2.5°	71.5	70.7	70.7	70.2	70.2	70.2	69.8	69.4	69.4	69.0	68.6
5°	78.2	77.3	76.9	76.1	75.7	75.3	74.4	74.0	73.2	72.7	72.3
7.5°	86.1	84.4	84.0	82.8	81.5	80.7	79.9	78.6	77.8	76.1	75.7
10°	96.2	94.1	92.4	90.7	89.5	87.4	86.1	84.4	82.8	81.5	80.3
12.5°	109.1	106.2	103.7	102.0	99.1	96.6	94.1	92.8	89.5	87.8	85.7
15°	123.3	120.0	117.1	113.7	111.6	107.4	104.1	100.3	98.7	95.7	92.4
17.5°	141.7	136.3	131.7	128.3	124.2	120.0	116.2	112.5	107.4	104.1	99.9
20°	161.4	156.8	150.5	144.7	139.6	134.6	129.2	124.2	119.6	114.1	109.1
22.5°	186.5	179.8	172.2	166.4	159.7	154.3	146.7	140.1	132.5	125.4	119.6
25°	218.2	209.5	202.3	194.0	186.0	177.7	168.5	160.1	150.5	143.8	133.8
27.5°	257.5	249.2	239.6	228.7	220.7	208.2	196.1	185.6	174.3	163.9	152.6
30°	307.7	295.6	285.5	275.1	259.2	247.1	232.9	218.6	203.2	192.7	175.6
32.5°	367.9	354.9	339.9	324.8	310.2	293.1	275.5	257.9	240.8	221.6	204.0
35°	441.5	426.0	408.9	392.6	370.0	351.6	329.4	305.2	286.0	263.8	241.6
37.5°	538.9	513.4	498.3	481.2	450.7	425.6	400.9	376.7	342.8	319.4	288.0
40°	661.0	645.9	621.2	593.7	566.1	533.0	499.6	467.4	428.1	395.5	359.1
42.5°	804.4	782.2	757.1	717.4	689.4	650.5	612.5	569.8	521.7	479.9	437.3
45°	939.0	912.6	893.4	853.7	824.4	778.4	732.4	687.3	631.7	577.8	528.4
47.5°	1084.5	1062.7	1030.9	998.8	969.1	917.2	867.5	812.7	754.2	690.2	626.3
50°	1212.4	1195.2	1173.5	1134.6	1101.6	1058.1	999.6	939.8	865.8	802.3	729.5
52.5°	1321.1	1307.7	1277.2	1249.6	1219.9	1178.9	1126.7	1069.4	989.6	919.7	837.0
55°	1449.4	1439.8	1413.1	1395.9	1369.6	1330.3	1281.4	1228.3	1143.8	1067.7	974.1
57.5°	1659.7	1652.2	1628.8	1621.7	1595.8	1561.5	1501.3	1444.4	1345.7	1251.3	1144.2
60°	2008.0	1992.9	1958.6	1941.1	1886.3	1840.3	1762.1	1684.0	1564.8	1444.4	1315.6
62.5°	2380.9	2338.7	2273.4	2217.4	2139.7	2059.8	1955.3	1835.7	1696.1	1553.1	1405.1
65°	2582.0	2510.1	2427.7	2338.7	2237.9	2120.4	1988.7	1845.3	1695.2	1544.3	1388.0
66°	2605.0	2523.9	2436.5	2337.4	2225.4	2100.4	1966.6	1816.1	1660.1	1513.0	1356.6
67.5°	2576.1	2491.2	2398.9	2288.9	2167.7	2038.1	1897.6	1741.2	1591.2	1441.9	1289.7
70°	2374.2	2289.7	2207.4	2091.6	1962.4	1832.0	1699.0	1524.3	1382.1	1245.0	1109.5
72.5°	1895.9	1838.6	1757.1	1658.0	1532.2	1379.2	1268.4	1112.1	988.7	855.8	750.8
75°	1184.8	1104.1	1003.4	877.1	780.9	656.8	592.0	473.2	403.0	341.6	282.2
77.5°	605.8	545.2	474.5	403.4	335.3	267.6	206.9	146.3	98.7	68.6	51.0
80°	500.4	446.9	388.4	323.6	263.4	204.4	147.2	100.3	64.0	41.8	32.6
82.5°	413.5	368.3	316.1	255.9	203.6	160.5	111.6	72.7	45.2	29.3	23.0
85°	176.0	159.7	123.3	97.8	73.6	54.3	38.0	25.5	18.0	14.6	13.4
87.5°	7.5	8.4	7.9	6.3	4.6	4.6	4.2	3.3	3.3	3.3	3.3
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
2.5°	68.6	68.1	67.7	67.7	67.3	66.9	64.4	62.3	59.8	58.1	56.4
5°	71.5	71.1	70.2	69.8	69.0	68.6	63.1	58.5	54.8	51.8	49.7
7.5°	74.4	74.0	72.7	71.5	71.1	70.2	61.5	55.6	50.6	47.2	45.2
10°	78.2	76.9	75.7	74.0	72.7	71.5	59.8	52.3	46.8	43.9	41.8
12.5°	83.6	81.5	79.4	77.3	75.7	73.6	58.9	49.3	43.9	40.6	38.5
15°	89.9	87.0	84.4	81.9	79.0	76.9	57.3	46.8	41.4	38.0	35.5
17.5°	95.7	92.4	88.6	84.9	81.9	79.0	55.6	44.3	38.9	35.5	33.0
20°	104.1	99.1	94.5	89.9	85.7	81.9	53.1	41.8	36.8	33.0	30.5
22.5°	113.3	107.4	101.6	95.3	89.9	84.9	51.0	39.7	34.7	30.9	28.0
25°	125.0	117.9	110.0	102.0	95.7	89.0	48.9	37.6	32.6	28.8	25.9
27.5°	141.3	131.3	122.5	112.5	102.8	95.3	47.2	36.0	30.5	26.8	23.8
30°	163.5	148.8	135.0	124.2	112.9	102.0	45.6	33.9	28.8	24.7	21.3
32.5°	188.1	171.0	155.1	138.8	124.6	112.0	43.9	32.2	26.8	22.6	19.6
35°	218.6	196.9	175.6	156.8	139.6	122.9	42.2	30.5	25.1	20.5	17.6
37.5°	262.5	235.4	207.4	183.1	161.0	138.8	41.0	28.8	23.0	18.4	15.5
40°	322.7	287.6	253.3	220.3	191.5	163.9	39.3	27.2	21.3	16.7	13.8
42.5°	388.0	345.3	300.2	263.0	223.2	188.5	37.6	25.5	19.6	15.1	12.1
45°	469.1	416.0	361.2	310.6	262.1	217.4	36.0	23.8	17.6	13.4	10.5
47.5°	557.7	490.0	428.1	364.6	306.9	253.3	33.9	22.6	15.9	11.7	9.2
50°	648.8	577.3	499.2	426.8	358.3	289.3	31.8	20.5	14.2	10.5	7.5
52.5°	747.1	662.6	582.8	492.9	413.0	336.5	29.7	18.8	13.0	9.2	6.3
55°	872.1	777.6	684.0	583.2	487.0	391.3	27.6	16.7	11.3	7.9	5.0
57.5°	1029.3	917.2	802.3	688.6	571.9	463.2	25.9	14.6	9.6	6.7	4.2
60°	1177.7	1046.8	907.6	776.8	645.1	518.4	23.4	13.0	8.4	5.4	4.2
62.5°	1254.6	1105.4	955.3	811.0	670.6	538.0	20.9	10.9	7.1	4.6	3.8
65°	1235.8	1083.6	938.1	792.6	655.1	525.5	18.4	9.6	6.3	4.2	3.8
66°	1208.6	1058.1	911.8	773.4	642.1	512.1	17.1	9.2	5.9	4.2	3.3
67.5°	1149.3	1003.8	864.1	735.4	606.6	486.6	15.5	8.4	5.4	3.8	3.3
70°	981.6	849.5	737.9	623.3	518.4	410.1	12.5	7.1	4.6	3.3	3.3
72.5°	649.7	559.8	485.4	417.6	349.1	270.9	10.5	5.9	3.8	3.3	2.9
75°	245.0	221.6	190.2	171.0	149.2	130.9	8.4	3.8	2.9	2.9	2.9
77.5°	43.5	40.1	35.5	32.6	30.1	27.6	6.7	2.5	2.5	2.9	2.9
80°	29.3	27.2	24.7	22.6	20.9	18.8	4.6	2.1	2.5	2.5	2.9
82.5°	20.9	19.6	18.4	16.7	15.5	13.8	2.9	2.1	2.5	2.5	2.5
85°	12.5	11.7	10.9	10.0	8.8	8.4	2.1	2.1	2.1	2.5	2.5
87.5°	3.3	2.9	3.3	3.3	2.5	2.9	1.7	1.7	1.7	2.1	2.1
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):

	145°	155°	165°	175°	180°
0°	65.6	65.6	65.6	65.6	65.6
2.5°	55.6	55.6	54.8	56.0	56.0
5°	48.1	48.1	47.7	48.1	48.1
7.5°	43.9	43.5	43.5	43.5	43.9
10°	40.1	39.7	39.7	39.7	39.7
12.5°	36.8	36.4	36.0	36.4	36.4
15°	33.9	33.0	33.0	33.0	33.0
17.5°	31.4	30.5	30.1	30.1	30.1
20°	28.8	27.6	27.6	27.6	27.6
22.5°	26.3	25.1	25.1	25.1	25.1
25°	23.8	22.6	22.6	22.6	22.6
27.5°	21.7	20.5	20.5	20.5	20.5
30°	19.2	18.4	18.4	18.8	18.4
32.5°	17.6	16.3	16.3	16.7	16.7
35°	15.5	14.6	14.6	14.6	14.6
37.5°	13.4	12.5	12.5	12.5	12.5
40°	11.7	10.9	10.5	10.9	10.9
42.5°	10.0	9.2	8.8	8.8	8.8
45°	8.8	7.5	7.1	7.5	7.5
47.5°	7.1	6.3	6.3	6.7	6.7
50°	5.4	5.4	5.9	6.7	6.7
52.5°	5.0	5.0	5.9	6.7	6.7
55°	4.6	5.0	5.9	6.3	6.7
57.5°	4.2	5.0	5.9	6.3	6.3
60°	4.2	4.6	5.4	6.3	6.3
62.5°	3.8	4.2	5.0	5.9	5.9
65°	3.8	4.2	5.0	5.9	5.9
66°	3.8	4.2	5.0	5.9	5.9
67.5°	3.8	4.2	5.0	5.9	5.9
70°	3.8	4.2	5.0	5.4	5.4
72.5°	3.3	3.8	4.6	5.4	5.4
75°	3.3	3.8	4.6	5.4	5.4
77.5°	3.3	3.8	4.6	5.4	5.4
80°	3.3	3.8	4.6	5.0	5.4
82.5°	2.9	3.8	4.2	5.0	5.0
85°	2.9	3.3	4.2	4.6	5.0
87.5°	2.5	2.9	3.3	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)