

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: P181594

Luminaire Tested: **ICS-F02-LED-E1-T4-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181594
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33725)
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-T4-HSS
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2874 lumens
Efficiency: N/A
Efficacy: 52.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

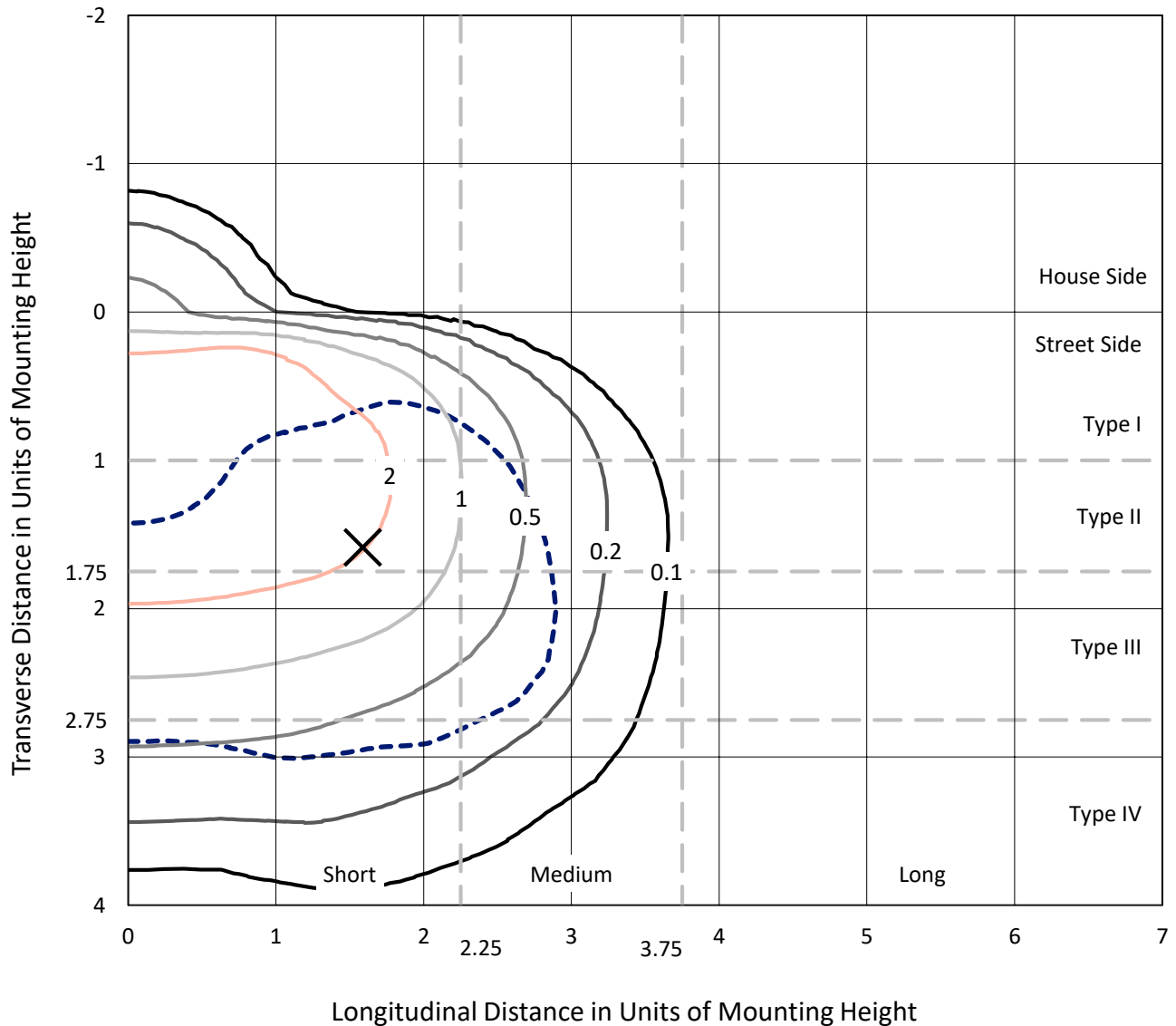
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

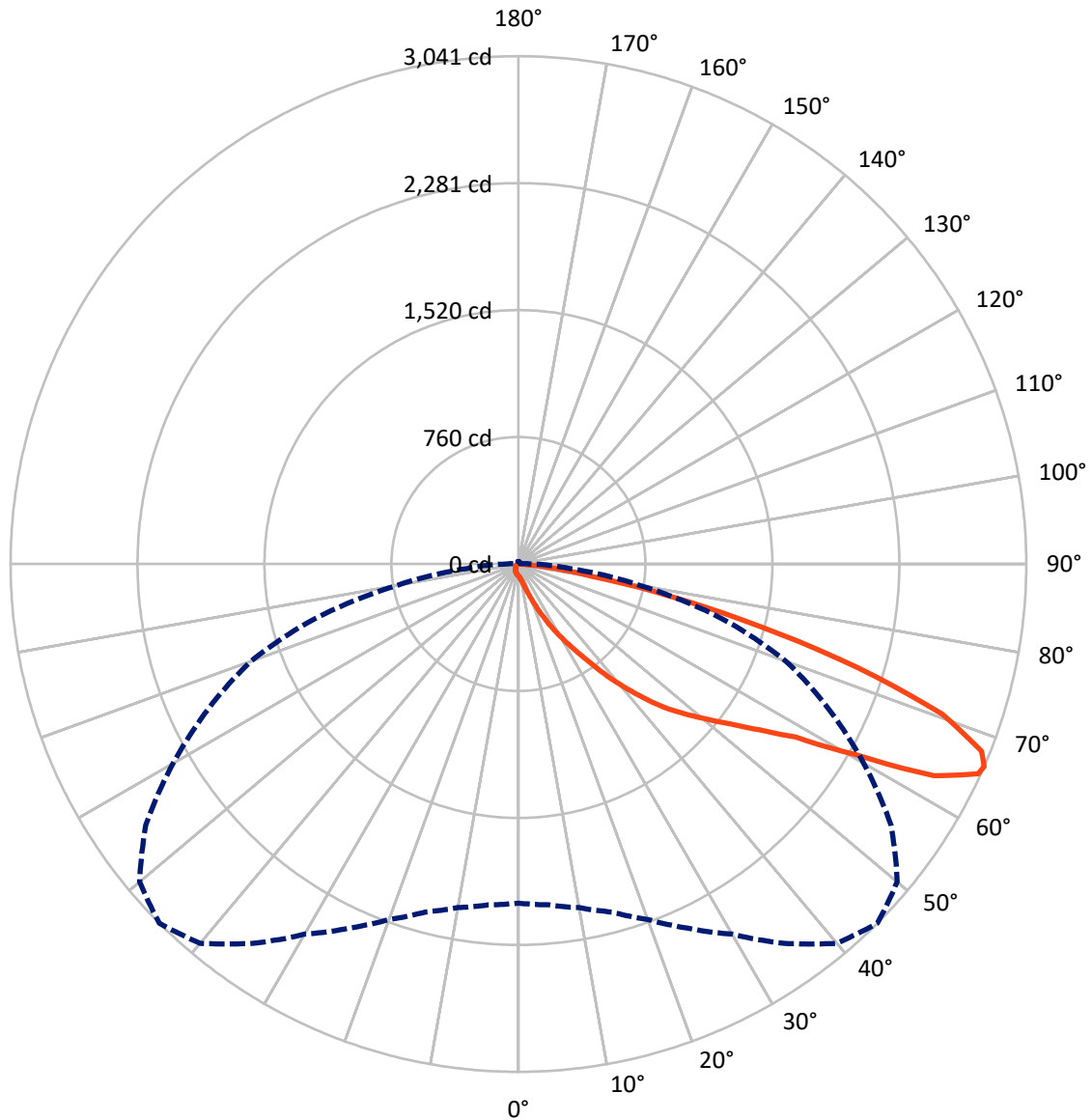


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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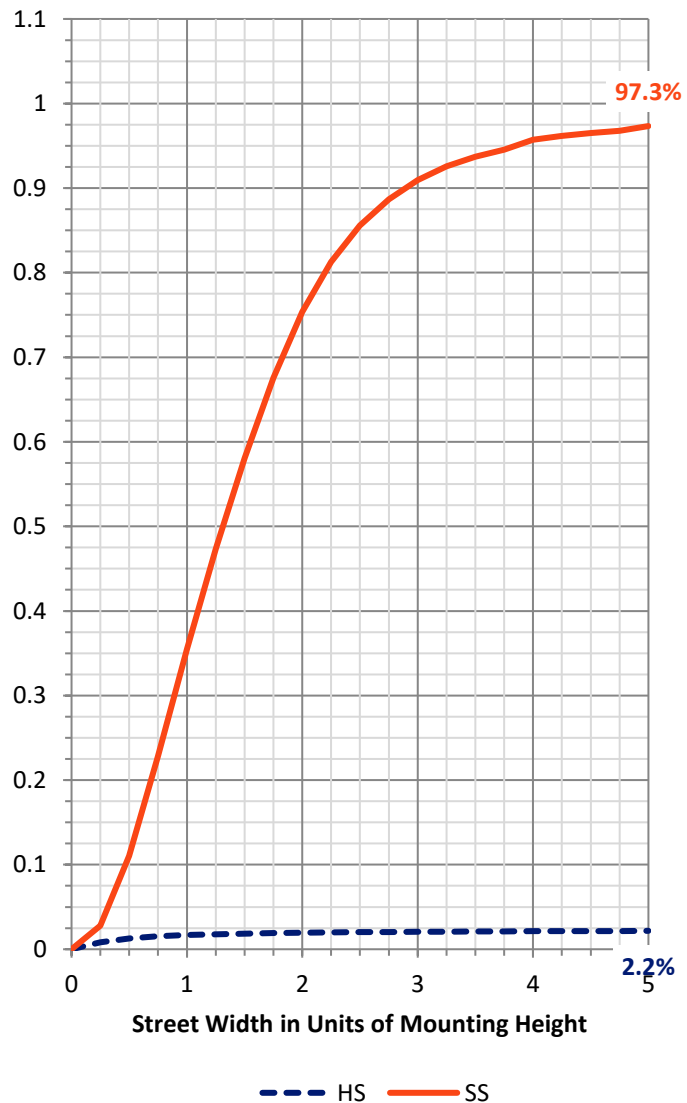
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	65.2	0.0	65.2
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	2808.9	0.0	2808.9
	% Fixture	97.7	0.0	97.7
Total	Lumens	2874.0	0.0	2874.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.3
10°-20°	29.3	1.0
20°-30°	85.9	3.0
30°-40°	200.6	7.0
40°-50°	376.7	13.1
50°-60°	624.3	21.7
60°-70°	991.1	34.5
70°-80°	512.6	17.8
80°-90°	46.3	1.6
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°	2874.0	100.0
0°-180°	2874.0	100.0



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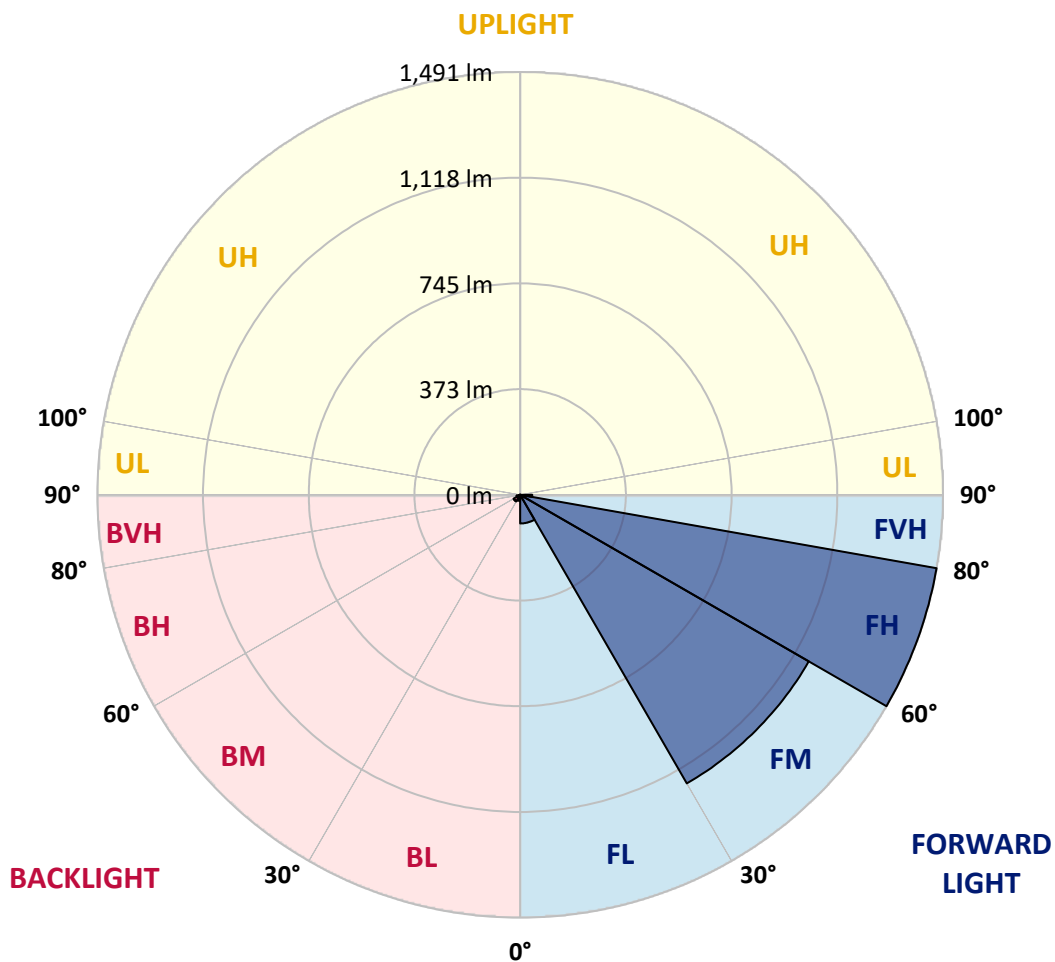
CATALOG NUMBER: ICS-F02-LED-E1-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	101.1	3.5			
FM (30°-60°)	1174.6	40.9			
FH (60°-80°)	1490.5	51.9			G1/1800
FVH (80°-90°)	42.6	1.5			G1/100
BL (0°-30°)	21.3	0.7	B0/110		
BM (30°-60°)	27.0	0.9	B0/220		
BH (60°-80°)	13.2	0.5	B0/110		G0/110
BVH (80°-90°)	3.7	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
2.5°	77.8	77.8	77.8	77.8	77.3	76.8	76.3	75.8	75.3	75.3	74.8
5°	88.2	88.7	88.2	87.7	86.7	86.2	84.7	83.7	82.2	81.7	80.2
7.5°	102.5	102.0	102.5	101.0	99.1	98.6	96.6	94.1	92.1	89.2	87.2
10°	123.3	122.8	123.3	120.4	117.4	114.9	111.5	108.5	104.0	100.6	96.6
12.5°	156.5	156.5	155.5	151.6	147.6	142.2	136.7	130.3	122.3	115.4	109.0
15°	207.5	205.1	200.6	198.1	191.2	182.8	176.8	164.0	152.6	141.7	128.8
17.5°	269.0	264.0	260.5	255.1	246.2	235.3	225.4	206.6	195.2	177.3	159.0
20°	339.3	333.4	332.4	324.0	314.5	302.7	288.3	266.0	246.7	224.4	198.6
22.5°	411.1	412.1	408.2	402.2	392.8	378.9	356.6	336.3	312.6	284.3	251.1
25°	491.4	490.9	487.4	480.5	473.5	456.2	438.4	419.1	390.8	354.7	315.0
27.5°	566.7	566.2	557.8	558.3	544.9	538.4	521.1	500.3	466.1	435.9	392.8
30°	645.4	640.5	635.0	631.1	621.7	610.3	601.3	576.6	550.8	515.2	480.0
32.5°	725.2	719.7	721.2	716.3	708.8	697.4	684.1	663.8	636.0	601.3	568.7
35°	822.8	820.3	816.3	817.8	816.3	807.9	796.5	769.8	739.5	706.4	672.7
37.5°	895.1	892.6	895.1	905.5	908.0	913.4	905.0	891.6	869.8	833.7	798.5
40°	962.0	962.4	973.8	986.7	995.6	1013.5	1016.4	1011.0	993.7	960.5	914.4
42.5°	1021.9	1029.3	1039.7	1061.0	1080.3	1105.6	1124.4	1127.4	1114.5	1092.7	1046.2
45°	1088.8	1095.2	1111.5	1136.8	1163.6	1194.8	1225.0	1240.8	1239.8	1224.5	1174.5
47.5°	1163.6	1172.0	1189.8	1210.6	1246.3	1281.4	1320.6	1348.8	1360.7	1339.4	1290.9
50°	1254.2	1257.7	1273.0	1299.8	1332.5	1373.1	1415.7	1456.8	1480.1	1460.3	1410.2
52.5°	1361.7	1362.7	1377.1	1401.8	1428.1	1472.7	1514.3	1571.2	1601.4	1590.5	1530.6
55°	1509.3	1506.3	1516.2	1537.5	1558.8	1601.9	1643.5	1707.9	1752.0	1753.0	1689.1
57.5°	1710.9	1704.0	1710.4	1727.3	1751.0	1791.2	1843.7	1900.6	1959.6	1955.6	1903.1
60°	1991.8	1989.3	2001.2	2029.4	2070.0	2111.6	2171.1	2247.9	2299.9	2317.7	2262.7
62.5°	2178.5	2185.4	2212.7	2256.3	2334.5	2420.7	2531.2	2648.6	2747.7	2792.2	2716.5
65°	2098.3	2109.7	2152.3	2216.7	2320.2	2449.5	2596.1	2788.8	2959.7	3027.5	2948.8
66°	2030.4	2048.7	2088.9	2157.2	2265.2	2406.4	2559.4	2772.4	2964.6	3040.9	2960.7
67.5°	1913.0	1925.9	1971.5	2047.2	2163.2	2302.8	2468.3	2693.2	2910.1	2990.9	2911.1
70°	1673.8	1678.7	1715.9	1780.3	1869.9	2013.1	2163.2	2379.6	2579.2	2692.7	2605.5
72.5°	1245.8	1252.7	1314.1	1431.5	1547.9	1629.2	1717.8	1891.2	2020.0	2126.0	2109.2
75°	599.4	602.3	643.4	814.8	1041.7	1138.8	1221.0	1355.3	1404.3	1493.0	1479.6
77.5°	379.9	386.4	413.1	454.7	583.5	698.9	763.8	840.6	855.0	929.8	886.2
80°	104.5	121.4	148.1	218.0	374.0	445.8	475.0	472.1	475.0	452.2	437.4
82.5°	21.3	20.8	25.3	39.1	164.9	259.6	280.4	238.8	237.3	228.4	235.8
85°	5.4	5.0	5.9	12.4	28.2	76.8	96.6	54.0	41.1	39.1	34.7
87.5°	1.5	1.5	1.5	2.5	3.0	4.0	5.4	4.0	3.0	3.0	3.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
2.5°	74.3	74.3	73.8	73.3	73.3	72.8	72.3	71.8	71.3	70.8	70.3
5°	78.8	77.8	76.3	75.3	74.3	72.8	71.8	70.8	69.8	69.3	68.4
7.5°	84.7	82.2	80.2	77.3	75.3	73.3	71.3	69.8	68.4	67.4	66.4
10°	92.1	88.2	84.2	80.2	76.8	73.8	70.8	68.4	66.9	65.4	64.4
12.5°	101.5	95.6	90.2	84.2	78.8	74.3	70.3	67.4	65.4	63.9	62.4
15°	116.9	107.5	98.1	89.2	82.2	75.3	69.8	66.4	63.9	62.4	60.9
17.5°	141.2	124.3	109.5	97.1	85.7	76.8	69.8	65.4	62.4	60.4	58.9
20°	176.3	148.6	124.8	107.0	92.1	79.3	69.8	63.9	60.9	58.5	57.0
22.5°	218.0	183.3	150.6	120.9	99.6	82.7	69.8	62.4	58.9	57.0	55.0
25°	278.9	232.8	188.2	146.6	111.9	88.2	71.3	61.4	57.5	55.0	53.0
27.5°	350.2	294.7	239.3	180.8	130.8	96.1	73.3	60.4	56.0	53.0	51.0
30°	431.4	370.0	302.2	226.4	155.5	106.5	76.8	59.9	54.0	51.0	48.5
32.5°	519.6	454.7	380.4	284.8	192.2	122.3	81.2	59.4	52.0	48.5	45.6
35°	624.6	564.2	473.5	367.0	249.2	149.6	91.1	60.4	50.0	46.1	42.6
37.5°	739.5	675.2	579.1	454.2	305.6	180.3	98.6	58.9	46.6	42.6	39.1
40°	855.5	781.6	684.1	545.9	377.5	218.0	108.0	57.5	43.1	39.1	35.7
42.5°	968.4	890.6	784.6	640.0	453.2	262.5	119.9	57.5	40.6	35.7	32.2
45°	1086.8	993.2	877.3	730.1	528.5	313.6	136.7	57.0	37.6	32.7	28.7
47.5°	1198.7	1087.8	954.5	809.4	609.3	369.5	156.0	57.5	35.2	29.7	26.3
50°	1304.7	1177.4	1033.8	880.2	686.5	430.0	179.8	58.0	32.7	27.2	23.8
52.5°	1420.6	1279.5	1119.0	953.0	762.8	490.9	207.5	58.9	30.2	24.8	21.8
55°	1564.3	1407.8	1224.0	1042.2	843.6	552.3	234.3	59.9	27.7	22.8	19.8
57.5°	1771.3	1593.0	1394.4	1175.9	950.6	622.1	262.0	62.4	25.8	21.3	18.3
60°	2108.2	1895.7	1666.3	1408.8	1110.6	716.8	302.2	67.9	23.3	19.3	17.3
62.5°	2513.4	2257.8	1966.0	1653.5	1261.1	780.7	328.9	73.8	21.3	17.8	16.3
65°	2717.4	2395.5	2059.1	1721.8	1280.5	761.8	318.0	71.8	18.8	15.9	13.9
66°	2723.4	2388.0	2046.3	1706.9	1260.6	739.1	307.6	70.8	18.3	15.4	12.9
67.5°	2666.9	2324.1	1977.9	1639.6	1202.2	695.0	288.8	67.4	16.8	13.9	11.4
70°	2388.0	2054.2	1736.7	1424.1	1034.3	585.5	242.2	59.4	14.9	12.4	10.4
72.5°	1903.6	1631.7	1364.2	1120.5	803.9	439.4	191.2	48.5	12.9	10.9	8.9
75°	1329.5	1106.1	902.5	728.6	505.2	263.0	123.8	34.2	10.9	8.9	7.4
77.5°	742.0	588.5	444.8	338.8	201.6	82.2	41.1	17.3	9.4	6.9	5.9
80°	377.5	279.9	213.0	157.0	93.1	42.6	20.8	11.4	7.4	5.4	5.0
82.5°	219.4	161.0	128.3	101.5	63.9	32.2	16.8	8.4	5.0	4.0	4.5
85°	49.0	64.9	55.0	46.6	34.2	20.3	11.9	5.4	3.5	3.5	4.0
87.5°	4.0	5.4	5.0	6.4	6.9	6.4	5.0	3.0	2.5	3.0	3.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
2.5°	69.8	69.3	69.3	68.9	68.4	68.4	68.4	67.9	68.4	68.4	68.4
5°	67.9	67.4	66.9	66.4	65.9	65.4	65.4	64.9	64.9	64.9	65.4
7.5°	65.9	64.9	64.4	63.4	62.9	62.4	62.4	61.9	61.9	61.9	61.9
10°	63.4	62.4	61.4	60.9	60.4	59.4	59.4	58.9	58.5	58.5	58.5
12.5°	61.4	60.4	59.4	58.5	57.5	57.0	56.5	56.0	55.5	55.5	55.5
15°	59.4	58.0	57.0	56.0	55.0	54.0	53.5	53.0	52.5	52.0	52.0
17.5°	57.5	56.0	54.5	53.5	52.5	51.5	51.0	49.5	49.5	49.0	49.0
20°	55.0	53.5	52.0	51.0	50.0	49.0	48.0	47.1	46.1	45.6	45.6
22.5°	53.0	51.5	50.0	48.5	47.1	45.6	44.6	43.6	43.1	42.6	42.1
25°	51.0	49.0	47.1	45.6	44.1	42.6	41.6	40.6	39.6	39.1	39.1
27.5°	48.5	46.6	44.6	42.6	41.1	39.6	38.6	37.2	36.7	36.2	35.7
30°	46.1	43.6	41.6	39.6	38.1	36.2	35.2	34.2	33.2	33.2	32.7
32.5°	43.1	40.6	38.6	36.7	34.7	33.2	32.2	31.2	30.7	29.7	29.7
35°	40.1	37.6	35.2	33.2	31.7	30.2	29.2	28.2	27.2	26.7	26.7
37.5°	36.7	34.2	32.2	30.2	28.7	27.2	26.3	25.3	24.8	24.3	23.8
40°	32.7	30.2	28.7	27.2	25.8	24.8	23.3	22.3	21.8	21.3	20.8
42.5°	29.2	26.7	25.8	24.8	23.3	22.3	20.8	19.8	18.8	18.3	17.8
45°	26.3	24.3	23.3	22.3	20.8	19.3	18.3	17.3	16.3	15.9	15.9
47.5°	23.3	21.8	20.8	19.8	18.3	17.3	15.9	15.4	14.4	14.4	14.4
50°	21.3	19.8	18.8	17.8	16.8	15.4	14.4	13.9	13.4	13.4	13.9
52.5°	19.8	18.3	17.3	16.3	15.4	14.4	13.4	12.9	12.9	13.4	13.9
55°	18.3	16.8	15.9	14.9	13.9	13.4	12.4	12.4	12.9	13.4	13.9
57.5°	17.3	15.4	14.4	13.9	12.9	12.4	12.4	12.4	12.9	13.4	14.4
60°	15.9	13.9	12.9	12.9	11.9	11.9	11.9	12.4	12.9	13.9	14.4
62.5°	13.9	12.4	11.9	11.9	11.4	11.4	11.9	12.4	13.4	13.9	14.4
65°	11.9	10.9	10.9	10.9	10.9	11.4	11.9	12.4	12.9	13.9	14.4
66°	10.9	10.4	10.4	10.9	10.9	11.4	11.9	12.4	12.9	13.4	13.9
67.5°	10.4	9.9	9.9	10.4	10.9	10.9	11.4	12.4	12.9	13.4	13.4
70°	8.9	8.9	8.9	9.9	10.4	10.9	11.4	11.9	12.4	12.9	13.4
72.5°	7.9	7.9	8.4	8.9	9.9	10.4	10.9	11.4	12.4	12.9	12.9
75°	6.9	6.9	7.9	8.4	9.4	9.9	10.9	11.4	11.9	12.4	12.4
77.5°	5.9	6.4	7.4	8.4	8.9	9.9	10.4	10.9	11.4	11.9	11.9
80°	5.4	6.4	7.4	7.9	8.4	8.9	9.4	10.4	10.9	11.4	11.9
82.5°	5.4	5.9	6.9	7.4	7.9	8.9	9.4	9.9	10.4	10.9	11.4
85°	4.5	5.4	5.9	6.9	7.4	8.4	8.9	8.9	9.4	9.9	10.4
87.5°	3.5	4.0	4.0	5.0	5.4	6.4	7.4	7.4	7.9	8.4	8.9
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):

	165°	170°	175°	180°
0°	71.8	71.8	71.8	71.8
2.5°	68.4	68.9	68.9	68.9
5°	65.4	65.4	65.4	65.4
7.5°	61.9	61.9	61.9	61.9
10°	58.5	58.5	58.9	58.5
12.5°	55.5	55.0	55.0	55.0
15°	52.0	52.0	51.5	52.0
17.5°	48.5	48.5	48.0	48.0
20°	45.1	45.1	45.1	45.1
22.5°	42.1	41.6	41.6	41.6
25°	38.6	38.6	38.6	38.6
27.5°	35.7	35.7	35.7	35.7
30°	32.7	32.7	32.2	32.2
32.5°	29.7	29.7	29.7	29.7
35°	26.7	26.7	26.3	26.3
37.5°	23.3	23.3	23.3	23.3
40°	20.3	20.3	20.3	20.3
42.5°	17.8	17.8	17.3	17.3
45°	15.4	15.4	15.4	15.4
47.5°	14.4	14.4	14.4	14.4
50°	13.9	14.4	14.4	14.4
52.5°	14.4	14.4	14.4	14.4
55°	14.4	14.9	14.9	14.9
57.5°	14.4	14.9	14.9	15.4
60°	14.9	15.4	15.4	15.4
62.5°	14.9	15.4	15.4	15.4
65°	14.4	14.9	14.9	14.9
66°	14.4	14.4	14.4	14.9
67.5°	13.9	14.4	14.4	14.4
70°	13.4	13.9	13.9	14.4
72.5°	13.4	13.9	13.9	13.9
75°	12.9	12.9	13.4	13.4
77.5°	12.4	12.4	12.9	12.9
80°	11.9	12.4	12.4	12.4
82.5°	11.4	11.9	11.9	11.9
85°	10.4	10.9	10.9	10.9
87.5°	8.9	8.9	9.4	9.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)