

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: P181587

Luminaire Tested: **ICS-E02-LED-E1-T4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181587
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-E02-LED-E1-T4-HSS-8030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2938.3 lumens
Efficiency: N/A
Efficacy: 56.4 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

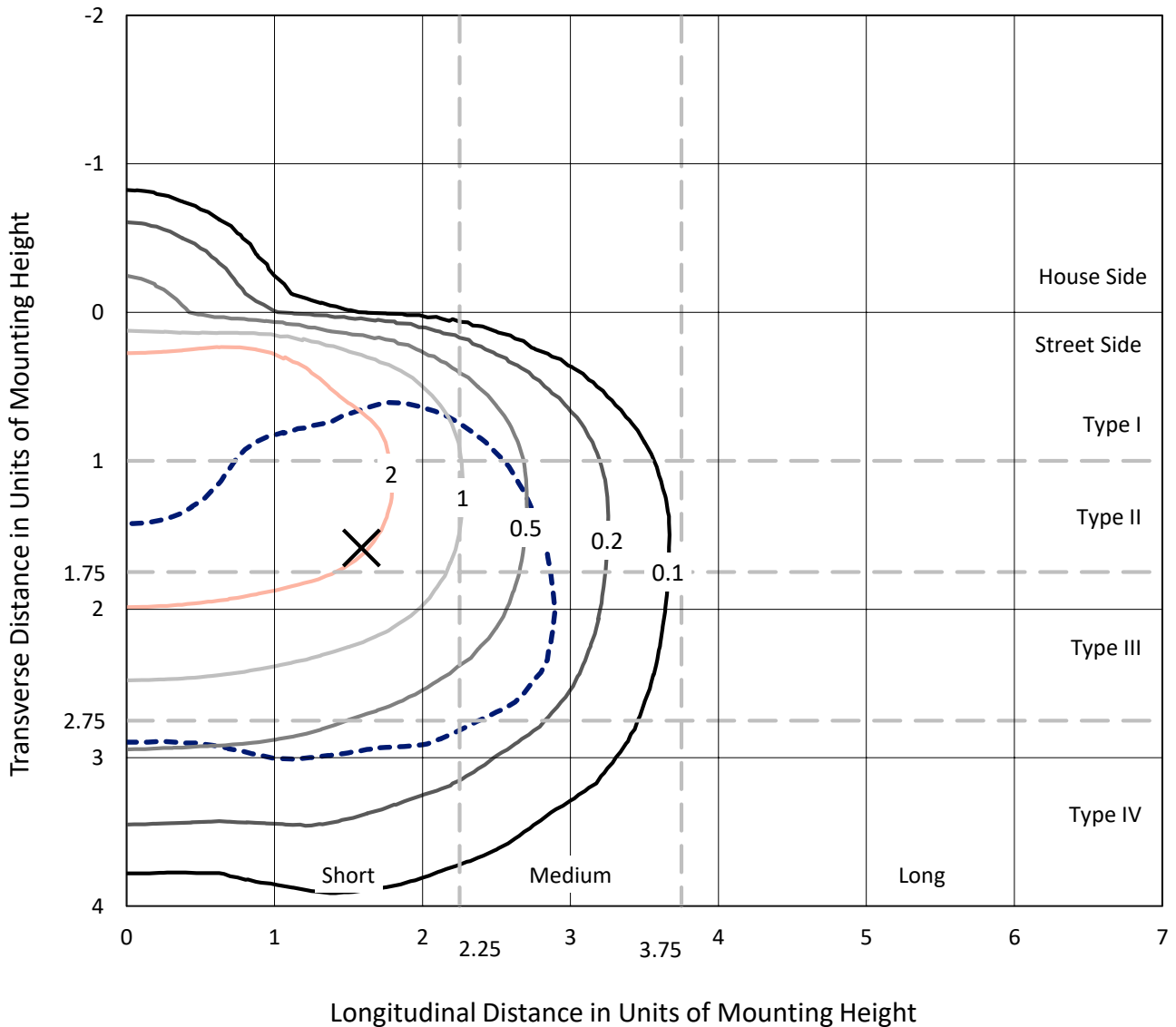
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

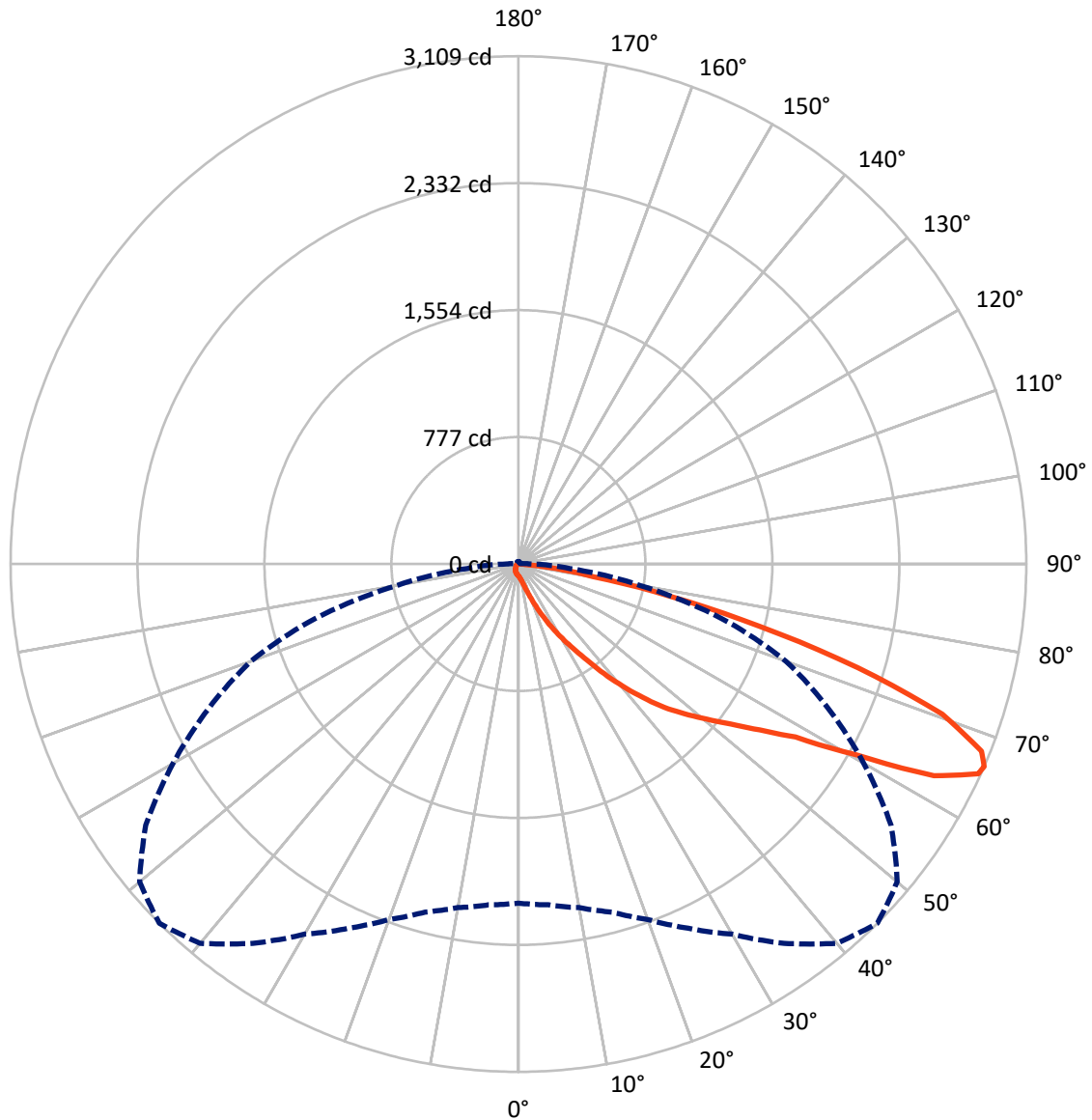
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 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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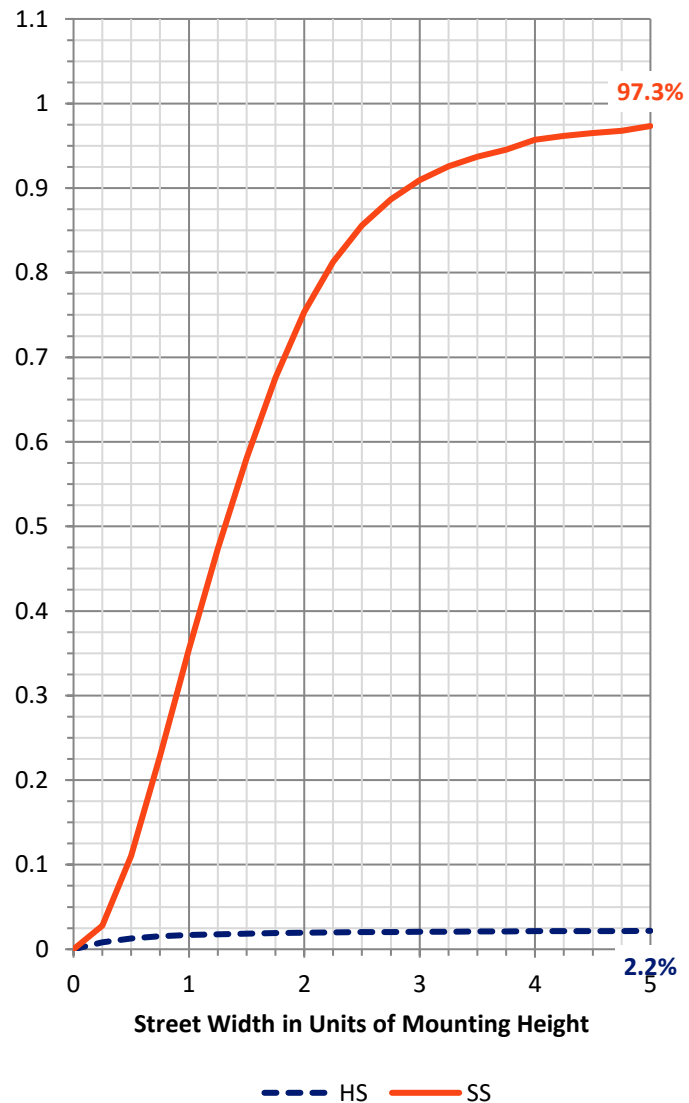
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	66.6	0.0	66.6
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	2871.7	0.0	2871.7
	% Fixture	97.7	0.0	97.7
Total	Lumens	2938.3	0.0	2938.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.4	0.3
10°-20°	30.0	1.0
20°-30°	87.8	3.0
30°-40°	205.1	7.0
40°-50°	385.2	13.1
50°-60°	638.3	21.7
60°-70°	1013.3	34.5
70°-80°	524.0	17.8
80°-90°	47.3	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°	2938.3	100.0
0°-180°	2938.3	100.0



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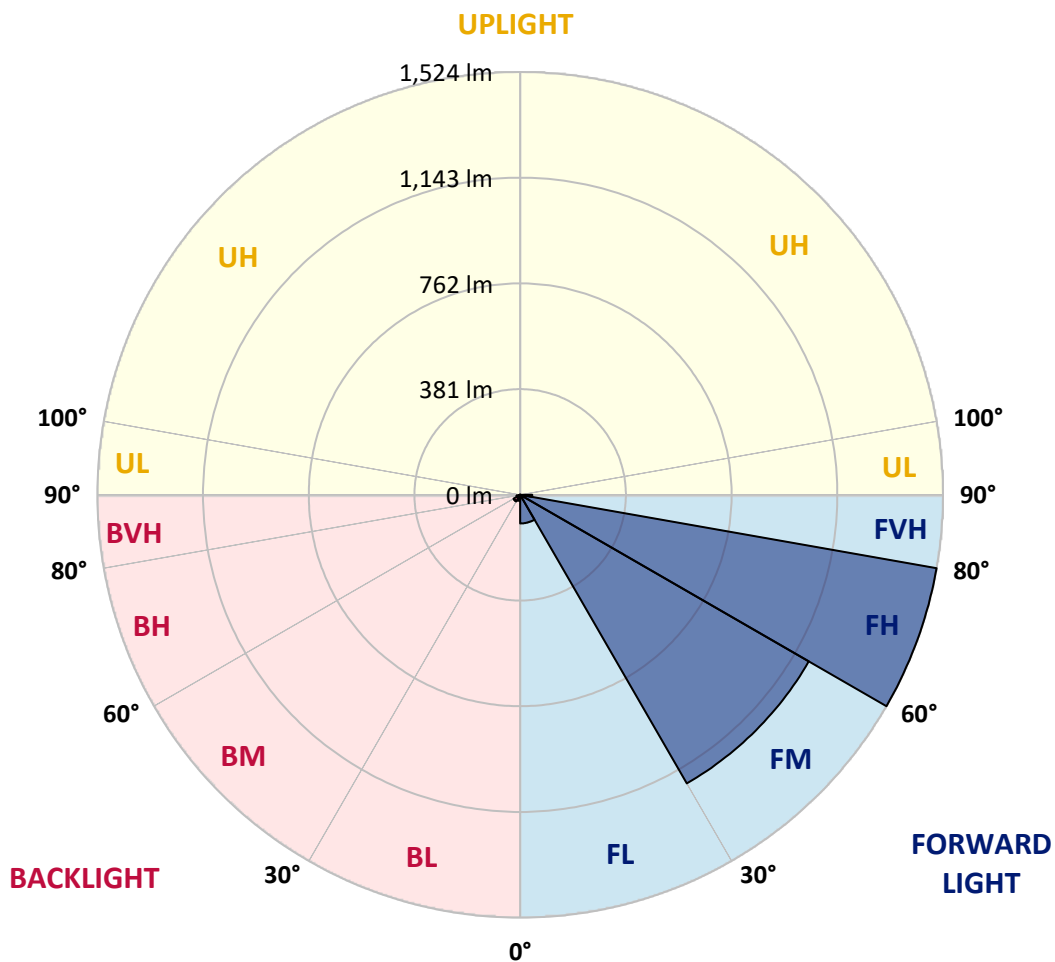
CATALOG NUMBER: ICS-E02-LED-E1-T4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	103.4	3.5			
FM	(30°-60°)	1200.9	40.9			
FH	(60°-80°)	1523.8	51.9			G1/1800
FVH	(80°-90°)	43.6	1.5			G1/100
BL	(0°-30°)	21.7	0.7	B0/110		
BM	(30°-60°)	27.6	0.9	B0/220		
BH	(60°-80°)	13.5	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°	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
2.5°	79.5	79.5	79.5	79.5	79.0	78.5	78.0	77.5	77.0	77.0	76.5
5°	90.1	90.6	90.1	89.6	88.6	88.1	86.6	85.6	84.1	83.6	82.0
7.5°	104.8	104.3	104.8	103.3	101.3	100.8	98.8	96.2	94.2	91.2	89.1
10°	126.1	125.6	126.1	123.1	120.0	117.5	113.9	110.9	106.3	102.8	98.8
12.5°	160.0	160.0	159.0	155.0	150.9	145.3	139.8	133.2	125.1	118.0	111.4
15°	212.2	209.7	205.1	202.6	195.5	186.9	180.8	167.6	156.0	144.8	131.7
17.5°	275.0	269.9	266.4	260.8	251.7	240.6	230.4	211.2	199.5	181.3	162.6
20°	346.9	340.8	339.8	331.2	321.6	309.4	294.7	271.9	252.2	229.4	203.1
22.5°	420.3	421.3	417.3	411.2	401.6	387.4	364.6	343.9	319.6	290.7	256.8
25°	502.4	501.9	498.3	491.2	484.1	466.4	448.2	428.4	399.6	362.6	322.1
27.5°	579.3	578.8	570.2	570.7	557.1	550.5	532.8	511.5	476.5	445.7	401.6
30°	659.9	654.8	649.2	645.2	635.6	623.9	614.8	589.5	563.1	526.7	490.7
32.5°	741.4	735.8	737.4	732.3	724.7	713.0	699.4	678.6	650.2	614.8	581.4
35°	841.2	838.6	834.6	836.1	834.6	826.0	814.3	787.0	756.1	722.2	687.7
37.5°	915.1	912.6	915.1	925.7	928.3	933.8	925.2	911.6	889.3	852.3	816.4
40°	983.5	984.0	995.6	1008.8	1017.9	1036.1	1039.2	1033.6	1015.9	982.0	934.9
42.5°	1044.7	1052.3	1063.0	1084.8	1104.5	1130.3	1149.6	1152.6	1139.4	1117.2	1069.6
45°	1113.1	1119.7	1136.4	1162.2	1189.6	1221.5	1252.4	1268.6	1267.6	1251.9	1200.7
47.5°	1189.6	1198.2	1216.4	1237.7	1274.2	1310.1	1350.1	1379.0	1391.1	1369.4	1319.7
50°	1282.3	1285.8	1301.5	1328.9	1362.3	1403.8	1447.4	1489.4	1513.2	1492.9	1441.8
52.5°	1392.2	1393.2	1407.9	1433.2	1460.0	1505.6	1548.1	1606.4	1637.3	1626.1	1564.8
55°	1543.1	1540.0	1550.2	1571.9	1593.7	1637.8	1680.3	1746.1	1791.2	1792.2	1726.9
57.5°	1749.2	1742.1	1748.7	1765.9	1790.2	1831.2	1884.9	1943.1	2003.4	1999.4	1945.7
60°	2036.3	2033.8	2045.9	2074.8	2116.3	2158.9	2219.6	2298.1	2351.3	2369.5	2313.3
62.5°	2227.2	2234.3	2262.2	2306.8	2386.8	2474.9	2587.8	2707.8	2809.1	2854.7	2777.2
65°	2145.2	2156.9	2200.4	2266.2	2372.1	2504.3	2654.2	2851.2	3025.9	3095.3	3014.7
66°	2075.8	2094.6	2135.6	2205.5	2315.9	2460.2	2616.7	2834.4	3030.9	3108.9	3026.9
67.5°	1955.8	1969.0	2015.6	2093.0	2211.5	2354.4	2523.5	2753.4	2975.2	3057.8	2976.2
70°	1711.2	1716.3	1754.2	1820.1	1911.7	2058.1	2211.5	2432.9	2636.9	2752.9	2663.8
72.5°	1273.7	1280.7	1343.5	1463.6	1582.6	1665.6	1756.3	1933.5	2065.2	2173.6	2156.3
75°	612.8	615.8	657.8	833.1	1065.0	1164.3	1248.3	1385.6	1435.7	1526.4	1512.7
77.5°	388.4	395.0	422.4	464.9	596.6	714.6	780.9	859.4	874.1	950.6	906.0
80°	106.9	124.1	151.4	222.8	382.3	455.8	485.7	482.6	485.7	462.4	447.2
82.5°	21.8	21.3	25.8	40.0	168.6	265.4	286.6	244.1	242.6	233.5	241.1
85°	5.6	5.1	6.1	12.7	28.9	78.5	98.8	55.2	42.0	40.0	35.4
87.5°	1.5	1.5	1.5	2.5	3.0	4.1	5.6	4.1	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°	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
2.5°	76.0	76.0	75.5	75.0	75.0	74.4	73.9	73.4	72.9	72.4	71.9
5°	80.5	79.5	78.0	77.0	76.0	74.4	73.4	72.4	71.4	70.9	69.9
7.5°	86.6	84.1	82.0	79.0	77.0	75.0	72.9	71.4	69.9	68.9	67.9
10°	94.2	90.1	86.1	82.0	78.5	75.5	72.4	69.9	68.4	66.8	65.8
12.5°	103.8	97.7	92.2	86.1	80.5	76.0	71.9	68.9	66.8	65.3	63.8
15°	119.5	109.9	100.3	91.2	84.1	77.0	71.4	67.9	65.3	63.8	62.3
17.5°	144.3	127.1	111.9	99.3	87.6	78.5	71.4	66.8	63.8	61.8	60.3
20°	180.3	151.9	127.6	109.4	94.2	81.0	71.4	65.3	62.3	59.8	58.2
22.5°	222.8	187.4	154.0	123.6	101.8	84.6	71.4	63.8	60.3	58.2	56.2
25°	285.1	238.0	192.4	149.9	114.5	90.1	72.9	62.8	58.7	56.2	54.2
27.5°	358.0	301.3	244.6	184.8	133.7	98.2	75.0	61.8	57.2	54.2	52.2
30°	441.1	378.3	308.9	231.4	159.0	108.9	78.5	61.3	55.2	52.2	49.6
32.5°	531.2	464.9	388.9	291.2	196.5	125.1	83.1	60.8	53.2	49.6	46.6
35°	638.6	576.8	484.1	375.3	254.7	152.9	93.2	61.8	51.1	47.1	43.6
37.5°	756.1	690.3	592.0	464.4	312.5	184.3	100.8	60.3	47.6	43.6	40.0
40°	874.6	799.1	699.4	558.1	385.9	222.8	110.4	58.7	44.1	40.0	36.5
42.5°	990.1	910.5	802.2	654.3	463.4	268.4	122.6	58.7	41.5	36.5	32.9
45°	1111.1	1015.4	896.9	746.5	540.4	320.6	139.8	58.2	38.5	33.4	29.4
47.5°	1225.5	1112.1	975.9	827.5	622.9	377.8	159.5	58.7	36.0	30.4	26.8
50°	1333.9	1203.8	1056.9	899.9	701.9	439.6	183.8	59.3	33.4	27.9	24.3
52.5°	1452.4	1308.1	1144.0	974.4	779.9	501.9	212.2	60.3	30.9	25.3	22.3
55°	1599.3	1439.3	1251.4	1065.5	862.4	564.7	239.5	61.3	28.4	23.3	20.3
57.5°	1811.0	1628.7	1425.6	1202.2	971.8	636.1	267.9	63.8	26.3	21.8	18.7
60°	2155.3	1938.1	1703.6	1440.3	1135.4	732.8	308.9	69.4	23.8	19.8	17.7
62.5°	2569.6	2308.3	2010.0	1690.4	1289.4	798.1	336.3	75.5	21.8	18.2	16.7
65°	2778.2	2449.1	2105.2	1760.3	1309.1	778.9	325.1	73.4	19.2	16.2	14.2
66°	2784.3	2441.5	2092.0	1745.1	1288.8	755.6	314.5	72.4	18.7	15.7	13.2
67.5°	2726.6	2376.1	2022.1	1676.3	1229.1	710.5	295.2	68.9	17.2	14.2	11.6
70°	2441.5	2100.1	1775.5	1456.0	1057.4	598.6	247.6	60.8	15.2	12.7	10.6
72.5°	1946.2	1668.2	1394.7	1145.5	821.9	449.2	195.5	49.6	13.2	11.1	9.1
75°	1359.2	1130.8	922.7	744.9	516.6	268.9	126.6	34.9	11.1	9.1	7.6
77.5°	758.6	601.6	454.8	346.4	206.1	84.1	42.0	17.7	9.6	7.1	6.1
80°	385.9	286.1	217.8	160.5	95.2	43.6	21.3	11.6	7.6	5.6	5.1
82.5°	224.3	164.6	131.2	103.8	65.3	32.9	17.2	8.6	5.1	4.1	4.6
85°	50.1	66.3	56.2	47.6	34.9	20.8	12.2	5.6	3.5	3.5	4.1
87.5°	4.1	5.6	5.1	6.6	7.1	6.6	5.1	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°	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
2.5°	71.4	70.9	70.9	70.4	69.9	69.9	69.9	69.4	69.9	69.9	69.9
5°	69.4	68.9	68.4	67.9	67.4	66.8	66.8	66.3	66.3	66.3	66.8
7.5°	67.4	66.3	65.8	64.8	64.3	63.8	63.8	63.3	63.3	63.3	63.3
10°	64.8	63.8	62.8	62.3	61.8	60.8	60.8	60.3	59.8	59.8	59.8
12.5°	62.8	61.8	60.8	59.8	58.7	58.2	57.7	57.2	56.7	56.7	56.7
15°	60.8	59.3	58.2	57.2	56.2	55.2	54.7	54.2	53.7	53.2	53.2
17.5°	58.7	57.2	55.7	54.7	53.7	52.7	52.2	50.6	50.6	50.1	50.1
20°	56.2	54.7	53.2	52.2	51.1	50.1	49.1	48.1	47.1	46.6	46.6
22.5°	54.2	52.7	51.1	49.6	48.1	46.6	45.6	44.6	44.1	43.6	43.0
25°	52.2	50.1	48.1	46.6	45.1	43.6	42.5	41.5	40.5	40.0	40.0
27.5°	49.6	47.6	45.6	43.6	42.0	40.5	39.5	38.0	37.5	37.0	36.5
30°	47.1	44.6	42.5	40.5	39.0	37.0	36.0	34.9	33.9	33.9	33.4
32.5°	44.1	41.5	39.5	37.5	35.4	33.9	32.9	31.9	31.4	30.4	30.4
35°	41.0	38.5	36.0	33.9	32.4	30.9	29.9	28.9	27.9	27.3	27.3
37.5°	37.5	34.9	32.9	30.9	29.4	27.9	26.8	25.8	25.3	24.8	24.3
40°	33.4	30.9	29.4	27.9	26.3	25.3	23.8	22.8	22.3	21.8	21.3
42.5°	29.9	27.3	26.3	25.3	23.8	22.8	21.3	20.3	19.2	18.7	18.2
45°	26.8	24.8	23.8	22.8	21.3	19.8	18.7	17.7	16.7	16.2	16.2
47.5°	23.8	22.3	21.3	20.3	18.7	17.7	16.2	15.7	14.7	14.7	14.7
50°	21.8	20.3	19.2	18.2	17.2	15.7	14.7	14.2	13.7	13.7	14.2
52.5°	20.3	18.7	17.7	16.7	15.7	14.7	13.7	13.2	13.2	13.7	14.2
55°	18.7	17.2	16.2	15.2	14.2	13.7	12.7	12.7	13.2	13.7	14.2
57.5°	17.7	15.7	14.7	14.2	13.2	12.7	12.7	12.7	13.2	13.7	14.7
60°	16.2	14.2	13.2	13.2	12.2	12.2	12.2	12.7	13.2	14.2	14.7
62.5°	14.2	12.7	12.2	12.2	11.6	11.6	12.2	12.7	13.7	14.2	14.7
65°	12.2	11.1	11.1	11.1	11.1	11.6	12.2	12.7	13.2	14.2	14.7
66°	11.1	10.6	10.6	11.1	11.1	11.6	12.2	12.7	13.2	13.7	14.2
67.5°	10.6	10.1	10.1	10.6	11.1	11.1	11.6	12.7	13.2	13.7	13.7
70°	9.1	9.1	9.1	10.1	10.6	11.1	11.6	12.2	12.7	13.2	13.7
72.5°	8.1	8.1	8.6	9.1	10.1	10.6	11.1	11.6	12.7	13.2	13.2
75°	7.1	7.1	8.1	8.6	9.6	10.1	11.1	11.6	12.2	12.7	12.7
77.5°	6.1	6.6	7.6	8.6	9.1	10.1	10.6	11.1	11.6	12.2	12.2
80°	5.6	6.6	7.6	8.1	8.6	9.1	9.6	10.6	11.1	11.6	12.2
82.5°	5.6	6.1	7.1	7.6	8.1	9.1	9.6	10.1	10.6	11.1	11.6
85°	4.6	5.6	6.1	7.1	7.6	8.6	9.1	9.1	9.6	10.1	10.6
87.5°	3.5	4.1	4.1	5.1	5.6	6.6	7.6	7.6	8.1	8.6	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):

	165°	170°	175°	180°
0°	73.4	73.4	73.4	73.4
2.5°	69.9	70.4	70.4	70.4
5°	66.8	66.8	66.8	66.8
7.5°	63.3	63.3	63.3	63.3
10°	59.8	59.8	60.3	59.8
12.5°	56.7	56.2	56.2	56.2
15°	53.2	53.2	52.7	53.2
17.5°	49.6	49.6	49.1	49.1
20°	46.1	46.1	46.1	46.1
22.5°	43.0	42.5	42.5	42.5
25°	39.5	39.5	39.5	39.5
27.5°	36.5	36.5	36.5	36.5
30°	33.4	33.4	32.9	32.9
32.5°	30.4	30.4	30.4	30.4
35°	27.3	27.3	26.8	26.8
37.5°	23.8	23.8	23.8	23.8
40°	20.8	20.8	20.8	20.8
42.5°	18.2	18.2	17.7	17.7
45°	15.7	15.7	15.7	15.7
47.5°	14.7	14.7	14.7	14.7
50°	14.2	14.7	14.7	14.7
52.5°	14.7	14.7	14.7	14.7
55°	14.7	15.2	15.2	15.2
57.5°	14.7	15.2	15.2	15.7
60°	15.2	15.7	15.7	15.7
62.5°	15.2	15.7	15.7	15.7
65°	14.7	15.2	15.2	15.2
66°	14.7	14.7	14.7	15.2
67.5°	14.2	14.7	14.7	14.7
70°	13.7	14.2	14.2	14.7
72.5°	13.7	14.2	14.2	14.2
75°	13.2	13.2	13.7	13.7
77.5°	12.7	12.7	13.2	13.2
80°	12.2	12.7	12.7	12.7
82.5°	11.6	12.2	12.2	12.2
85°	10.6	11.1	11.1	11.1
87.5°	9.1	9.1	9.6	9.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)