

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: P181579

Luminaire Tested: **ICS-E01-LED-E1-T4-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181579
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-E01-LED-E1-T4-HSS
Description: ICON SITE SMALL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1740.7 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

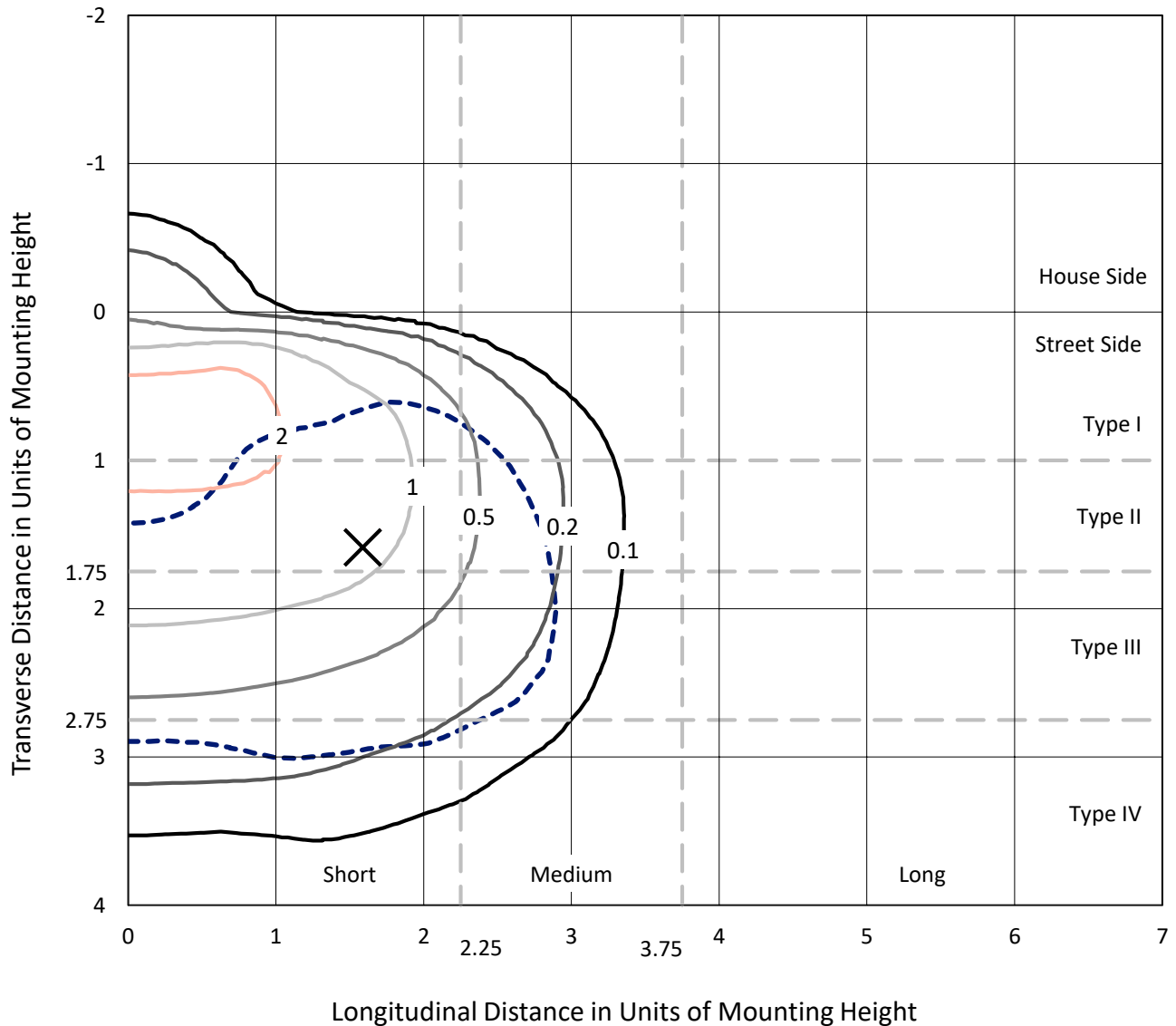
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

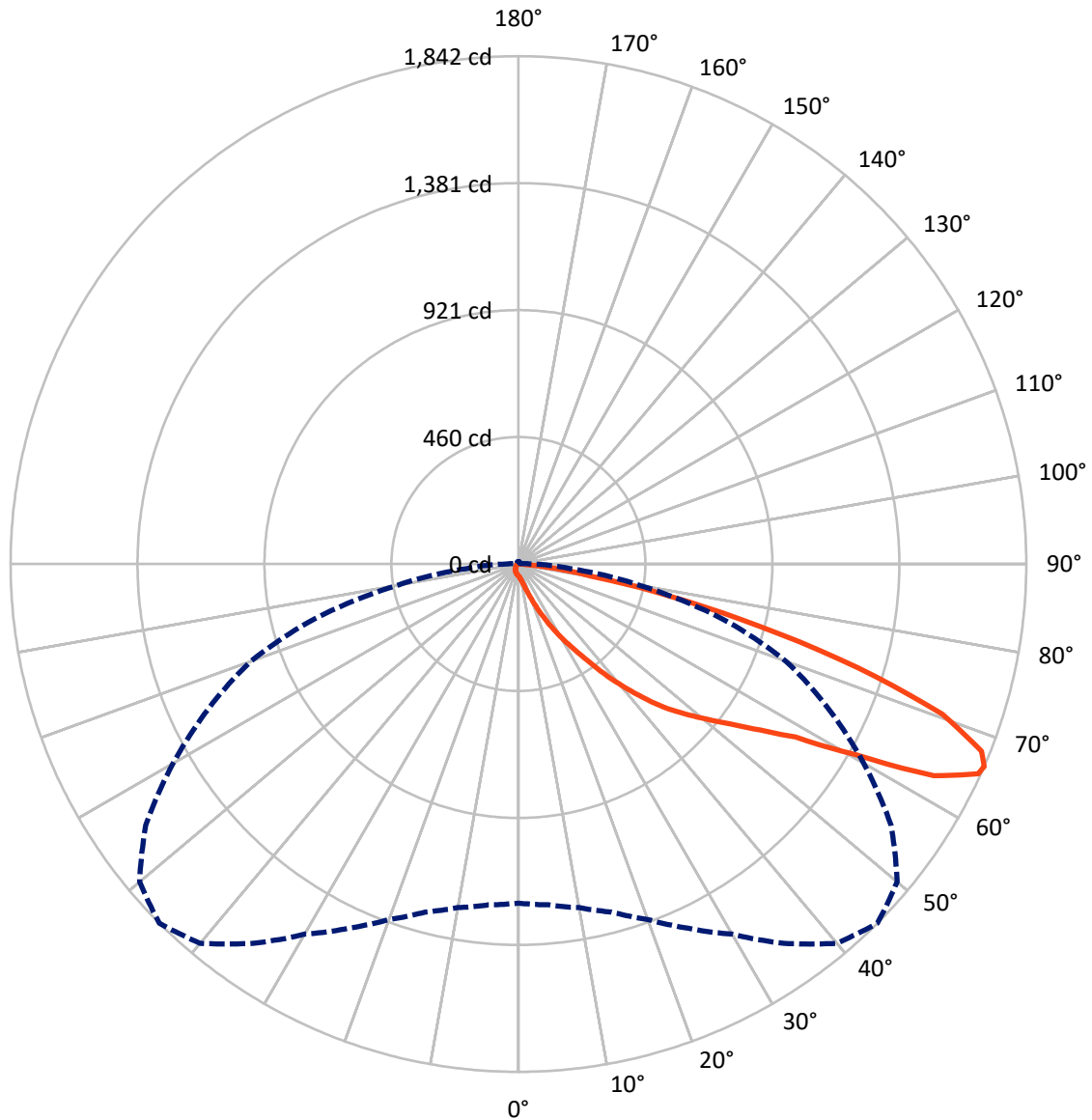
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.8 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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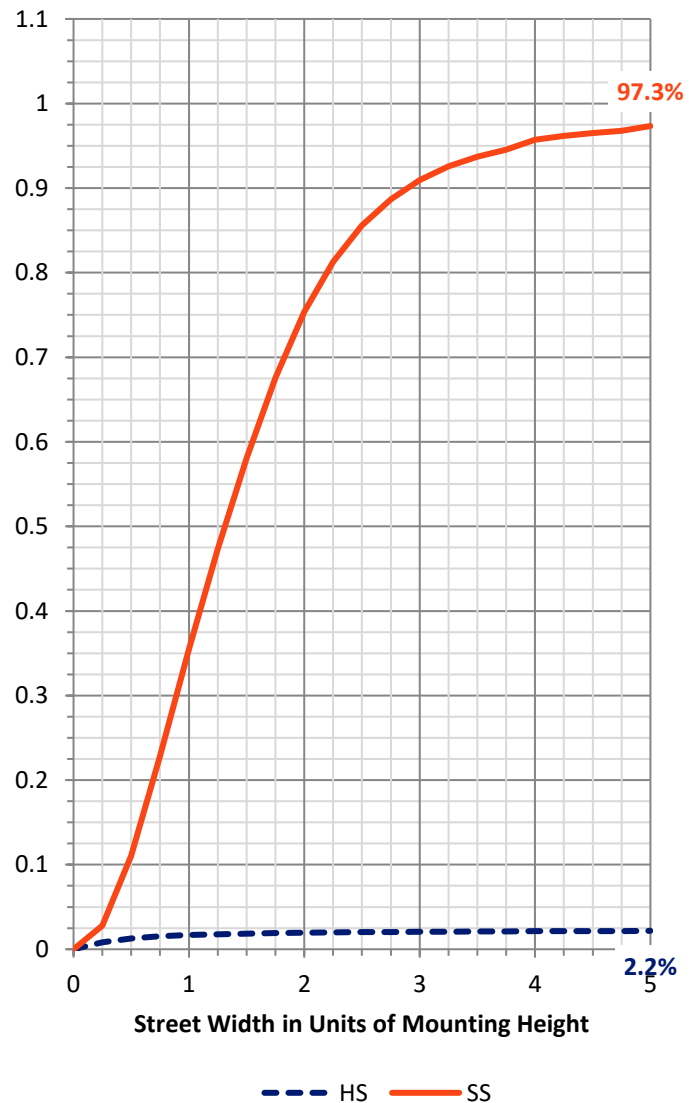
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	39.5	0.0	39.5
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	1701.3	0.0	1701.3
	% Fixture	97.7	0.0	97.7
Total	Lumens	1740.7	0.0	1740.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.3
10°-20°	17.8	1.0
20°-30°	52.0	3.0
30°-40°	121.5	7.0
40°-50°	228.2	13.1
50°-60°	378.1	21.7
60°-70°	600.3	34.5
70°-80°	310.4	17.8
80°-90°	28.0	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°	1740.7	100.0
0°-180°	1740.7	100.0



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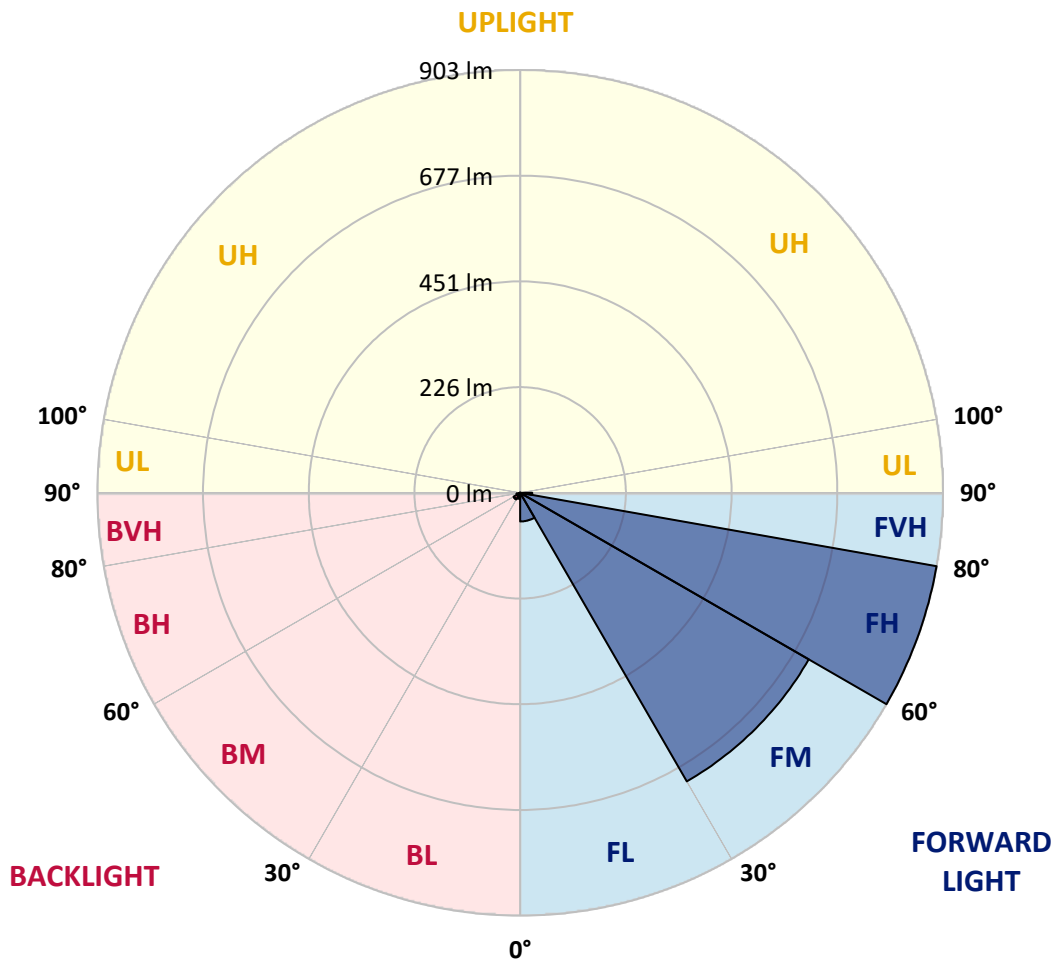
CATALOG NUMBER: ICS-E01-LED-E1-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	61.2	3.5			
FM	(30°-60°)	711.4	40.9			
FH	(60°-80°)	902.8	51.9			G1/1800
FVH	(80°-90°)	25.8	1.5			G1/100
BL	(0°-30°)	12.9	0.7	B0/110		
BM	(30°-60°)	16.4	0.9	B0/220		
BH	(60°-80°)	8.0	0.5	B0/110		G0/110
BVH	(80°-90°)	2.2	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°	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
2.5°	47.1	47.1	47.1	47.1	46.8	46.5	46.2	45.9	45.6	45.6	45.3
5°	53.4	53.7	53.4	53.1	52.5	52.2	51.3	50.7	49.8	49.5	48.6
7.5°	62.1	61.8	62.1	61.2	60.0	59.7	58.5	57.0	55.8	54.0	52.8
10°	74.7	74.4	74.7	72.9	71.1	69.6	67.5	65.7	63.0	60.9	58.5
12.5°	94.8	94.8	94.2	91.8	89.4	86.1	82.8	78.9	74.1	69.9	66.0
15°	125.7	124.2	121.5	120.0	115.8	110.7	107.1	99.3	92.4	85.8	78.0
17.5°	162.9	159.9	157.8	154.5	149.1	142.5	136.5	125.1	118.2	107.4	96.3
20°	205.5	201.9	201.3	196.2	190.5	183.3	174.6	161.1	149.4	135.9	120.3
22.5°	249.0	249.6	247.2	243.6	237.9	229.5	216.0	203.7	189.3	172.2	152.1
25°	297.6	297.3	295.2	291.0	286.8	276.3	265.5	253.8	236.7	214.8	190.8
27.5°	343.2	342.9	337.8	338.1	330.0	326.1	315.6	303.0	282.3	264.0	237.9
30°	390.9	387.9	384.6	382.2	376.5	369.6	364.2	349.2	333.6	312.0	290.7
32.5°	439.2	435.9	436.8	433.8	429.3	422.4	414.3	402.0	385.2	364.2	344.4
35°	498.3	496.8	494.4	495.3	494.4	489.3	482.4	466.2	447.9	427.8	407.4
37.5°	542.1	540.6	542.1	548.4	549.9	553.2	548.1	540.0	526.8	504.9	483.6
40°	582.6	582.9	589.8	597.6	603.0	613.8	615.6	612.3	601.8	581.7	553.8
42.5°	618.9	623.4	629.7	642.6	654.3	669.6	681.0	682.8	675.0	661.8	633.6
45°	659.4	663.3	673.2	688.5	704.7	723.6	741.9	751.5	750.9	741.6	711.3
47.5°	704.7	709.8	720.6	733.2	754.8	776.1	799.8	816.9	824.1	811.2	781.8
50°	759.6	761.7	771.0	787.2	807.0	831.6	857.4	882.3	896.4	884.4	854.1
52.5°	824.7	825.3	834.0	849.0	864.9	891.9	917.1	951.7	970.0	963.4	927.1
55°	914.1	912.3	918.3	931.3	944.2	970.3	995.5	1034.5	1061.2	1061.8	1023.1
57.5°	1036.3	1032.1	1036.0	1046.2	1060.6	1084.9	1116.7	1151.2	1186.9	1184.5	1152.7
60°	1206.4	1204.9	1212.1	1229.2	1253.8	1279.0	1315.0	1361.5	1393.0	1403.8	1370.5
62.5°	1319.5	1323.7	1340.2	1366.6	1414.0	1466.2	1533.1	1604.2	1664.2	1691.2	1645.3
65°	1270.9	1277.8	1303.6	1342.6	1405.3	1483.6	1572.4	1689.1	1792.6	1833.7	1786.0
66°	1229.8	1240.9	1265.2	1306.6	1372.0	1457.5	1550.2	1679.2	1795.6	1841.8	1793.2
67.5°	1158.7	1166.5	1194.1	1240.0	1310.2	1394.8	1495.0	1631.2	1762.6	1811.5	1763.2
70°	1013.8	1016.8	1039.3	1078.3	1132.6	1219.3	1310.2	1441.3	1562.2	1630.9	1578.1
72.5°	754.5	758.7	795.9	867.0	937.6	986.8	1040.5	1145.5	1223.5	1287.7	1277.5
75°	363.0	364.8	389.7	493.5	630.9	689.7	739.5	820.8	850.5	904.2	896.1
77.5°	230.1	234.0	250.2	275.4	353.4	423.3	462.6	509.1	517.8	563.1	536.7
80°	63.3	73.5	89.7	132.0	226.5	270.0	287.7	285.9	287.7	273.9	264.9
82.5°	12.9	12.6	15.3	23.7	99.9	157.2	169.8	144.6	143.7	138.3	142.8
85°	3.3	3.0	3.6	7.5	17.1	46.5	58.5	32.7	24.9	23.7	21.0
87.5°	0.9	0.9	0.9	1.5	1.8	2.4	3.3	2.4	1.8	1.8	1.8
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°	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
2.5°	45.0	45.0	44.7	44.4	44.4	44.1	43.8	43.5	43.2	42.9	42.6
5°	47.7	47.1	46.2	45.6	45.0	44.1	43.5	42.9	42.3	42.0	41.4
7.5°	51.3	49.8	48.6	46.8	45.6	44.4	43.2	42.3	41.4	40.8	40.2
10°	55.8	53.4	51.0	48.6	46.5	44.7	42.9	41.4	40.5	39.6	39.0
12.5°	61.5	57.9	54.6	51.0	47.7	45.0	42.6	40.8	39.6	38.7	37.8
15°	70.8	65.1	59.4	54.0	49.8	45.6	42.3	40.2	38.7	37.8	36.9
17.5°	85.5	75.3	66.3	58.8	51.9	46.5	42.3	39.6	37.8	36.6	35.7
20°	106.8	90.0	75.6	64.8	55.8	48.0	42.3	38.7	36.9	35.4	34.5
22.5°	132.0	111.0	91.2	73.2	60.3	50.1	42.3	37.8	35.7	34.5	33.3
25°	168.9	141.0	114.0	88.8	67.8	53.4	43.2	37.2	34.8	33.3	32.1
27.5°	212.1	178.5	144.9	109.5	79.2	58.2	44.4	36.6	33.9	32.1	30.9
30°	261.3	224.1	183.0	137.1	94.2	64.5	46.5	36.3	32.7	30.9	29.4
32.5°	314.7	275.4	230.4	172.5	116.4	74.1	49.2	36.0	31.5	29.4	27.6
35°	378.3	341.7	286.8	222.3	150.9	90.6	55.2	36.6	30.3	27.9	25.8
37.5°	447.9	408.9	350.7	275.1	185.1	109.2	59.7	35.7	28.2	25.8	23.7
40°	518.1	473.4	414.3	330.6	228.6	132.0	65.4	34.8	26.1	23.7	21.6
42.5°	586.5	539.4	475.2	387.6	274.5	159.0	72.6	34.8	24.6	21.6	19.5
45°	658.2	601.5	531.3	442.2	320.1	189.9	82.8	34.5	22.8	19.8	17.4
47.5°	726.0	658.8	578.1	490.2	369.0	223.8	94.5	34.8	21.3	18.0	15.9
50°	790.2	713.1	626.1	533.1	415.8	260.4	108.9	35.1	19.8	16.5	14.4
52.5°	860.4	774.9	677.7	577.2	462.0	297.3	125.7	35.7	18.3	15.0	13.2
55°	947.5	852.6	741.3	631.2	510.9	334.5	141.9	36.3	16.8	13.8	12.0
57.5°	1072.9	964.9	844.5	712.2	575.7	376.8	158.7	37.8	15.6	12.9	11.1
60°	1276.9	1148.2	1009.3	853.2	672.6	434.1	183.0	41.1	14.1	11.7	10.5
62.5°	1522.3	1367.5	1190.8	1001.5	763.8	472.8	199.2	44.7	12.9	10.8	9.9
65°	1645.9	1450.9	1247.2	1042.9	775.5	461.4	192.6	43.5	11.4	9.6	8.4
66°	1649.5	1446.4	1239.4	1033.9	763.5	447.6	186.3	42.9	11.1	9.3	7.8
67.5°	1615.3	1407.7	1198.0	993.1	728.1	420.9	174.9	40.8	10.2	8.4	6.9
70°	1446.4	1244.2	1051.9	862.5	626.4	354.6	146.7	36.0	9.0	7.5	6.3
72.5°	1153.0	988.3	826.2	678.6	486.9	266.1	115.8	29.4	7.8	6.6	5.4
75°	805.2	669.9	546.6	441.3	306.0	159.3	75.0	20.7	6.6	5.4	4.5
77.5°	449.4	356.4	269.4	205.2	122.1	49.8	24.9	10.5	5.7	4.2	3.6
80°	228.6	169.5	129.0	95.1	56.4	25.8	12.6	6.9	4.5	3.3	3.0
82.5°	132.9	97.5	77.7	61.5	38.7	19.5	10.2	5.1	3.0	2.4	2.7
85°	29.7	39.3	33.3	28.2	20.7	12.3	7.2	3.3	2.1	2.1	2.4
87.5°	2.4	3.3	3.0	3.9	4.2	3.9	3.0	1.8	1.5	1.8	1.8
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°	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
2.5°	42.3	42.0	42.0	41.7	41.4	41.4	41.4	41.1	41.4	41.4	41.4
5°	41.1	40.8	40.5	40.2	39.9	39.6	39.6	39.3	39.3	39.3	39.6
7.5°	39.9	39.3	39.0	38.4	38.1	37.8	37.8	37.5	37.5	37.5	37.5
10°	38.4	37.8	37.2	36.9	36.6	36.0	36.0	35.7	35.4	35.4	35.4
12.5°	37.2	36.6	36.0	35.4	34.8	34.5	34.2	33.9	33.6	33.6	33.6
15°	36.0	35.1	34.5	33.9	33.3	32.7	32.4	32.1	31.8	31.5	31.5
17.5°	34.8	33.9	33.0	32.4	31.8	31.2	30.9	30.0	30.0	29.7	29.7
20°	33.3	32.4	31.5	30.9	30.3	29.7	29.1	28.5	27.9	27.6	27.6
22.5°	32.1	31.2	30.3	29.4	28.5	27.6	27.0	26.4	26.1	25.8	25.5
25°	30.9	29.7	28.5	27.6	26.7	25.8	25.2	24.6	24.0	23.7	23.7
27.5°	29.4	28.2	27.0	25.8	24.9	24.0	23.4	22.5	22.2	21.9	21.6
30°	27.9	26.4	25.2	24.0	23.1	21.9	21.3	20.7	20.1	20.1	19.8
32.5°	26.1	24.6	23.4	22.2	21.0	20.1	19.5	18.9	18.6	18.0	18.0
35°	24.3	22.8	21.3	20.1	19.2	18.3	17.7	17.1	16.5	16.2	16.2
37.5°	22.2	20.7	19.5	18.3	17.4	16.5	15.9	15.3	15.0	14.7	14.4
40°	19.8	18.3	17.4	16.5	15.6	15.0	14.1	13.5	13.2	12.9	12.6
42.5°	17.7	16.2	15.6	15.0	14.1	13.5	12.6	12.0	11.4	11.1	10.8
45°	15.9	14.7	14.1	13.5	12.6	11.7	11.1	10.5	9.9	9.6	9.6
47.5°	14.1	13.2	12.6	12.0	11.1	10.5	9.6	9.3	8.7	8.7	8.7
50°	12.9	12.0	11.4	10.8	10.2	9.3	8.7	8.4	8.1	8.1	8.4
52.5°	12.0	11.1	10.5	9.9	9.3	8.7	8.1	7.8	7.8	8.1	8.4
55°	11.1	10.2	9.6	9.0	8.4	8.1	7.5	7.5	7.8	8.1	8.4
57.5°	10.5	9.3	8.7	8.4	7.8	7.5	7.5	7.5	7.8	8.1	8.7
60°	9.6	8.4	7.8	7.8	7.2	7.2	7.2	7.5	7.8	8.4	8.7
62.5°	8.4	7.5	7.2	7.2	6.9	6.9	7.2	7.5	8.1	8.4	8.7
65°	7.2	6.6	6.6	6.6	6.6	6.9	7.2	7.5	7.8	8.4	8.7
66°	6.6	6.3	6.3	6.6	6.6	6.9	7.2	7.5	7.8	8.1	8.4
67.5°	6.3	6.0	6.0	6.3	6.6	6.6	6.9	7.5	7.8	8.1	8.1
70°	5.4	5.4	5.4	6.0	6.3	6.6	6.9	7.2	7.5	7.8	8.1
72.5°	4.8	4.8	5.1	5.4	6.0	6.3	6.6	6.9	7.5	7.8	7.8
75°	4.2	4.2	4.8	5.1	5.7	6.0	6.6	6.9	7.2	7.5	7.5
77.5°	3.6	3.9	4.5	5.1	5.4	6.0	6.3	6.6	6.9	7.2	7.2
80°	3.3	3.9	4.5	4.8	5.1	5.4	5.7	6.3	6.6	6.9	7.2
82.5°	3.3	3.6	4.2	4.5	4.8	5.4	5.7	6.0	6.3	6.6	6.9
85°	2.7	3.3	3.6	4.2	4.5	5.1	5.4	5.4	5.7	6.0	6.3
87.5°	2.1	2.4	2.4	3.0	3.3	3.9	4.5	4.5	4.8	5.1	5.4
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°	170°	175°	180°
0°	43.5	43.5	43.5	43.5
2.5°	41.4	41.7	41.7	41.7
5°	39.6	39.6	39.6	39.6
7.5°	37.5	37.5	37.5	37.5
10°	35.4	35.4	35.7	35.4
12.5°	33.6	33.3	33.3	33.3
15°	31.5	31.5	31.2	31.5
17.5°	29.4	29.4	29.1	29.1
20°	27.3	27.3	27.3	27.3
22.5°	25.5	25.2	25.2	25.2
25°	23.4	23.4	23.4	23.4
27.5°	21.6	21.6	21.6	21.6
30°	19.8	19.8	19.5	19.5
32.5°	18.0	18.0	18.0	18.0
35°	16.2	16.2	15.9	15.9
37.5°	14.1	14.1	14.1	14.1
40°	12.3	12.3	12.3	12.3
42.5°	10.8	10.8	10.5	10.5
45°	9.3	9.3	9.3	9.3
47.5°	8.7	8.7	8.7	8.7
50°	8.4	8.7	8.7	8.7
52.5°	8.7	8.7	8.7	8.7
55°	8.7	9.0	9.0	9.0
57.5°	8.7	9.0	9.0	9.3
60°	9.0	9.3	9.3	9.3
62.5°	9.0	9.3	9.3	9.3
65°	8.7	9.0	9.0	9.0
66°	8.7	8.7	8.7	9.0
67.5°	8.4	8.7	8.7	8.7
70°	8.1	8.4	8.4	8.7
72.5°	8.1	8.4	8.4	8.4
75°	7.8	7.8	8.1	8.1
77.5°	7.5	7.5	7.8	7.8
80°	7.2	7.5	7.5	7.5
82.5°	6.9	7.2	7.2	7.2
85°	6.3	6.6	6.6	6.6
87.5°	5.4	5.4	5.7	5.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)