

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: P181532

Luminaire Tested: **ICM-F02-LED-E1-T4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181532
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: ICM-F02-LED-E1-T4-HSS-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2507 lumens
Efficiency: N/A
Efficacy: 45.6 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

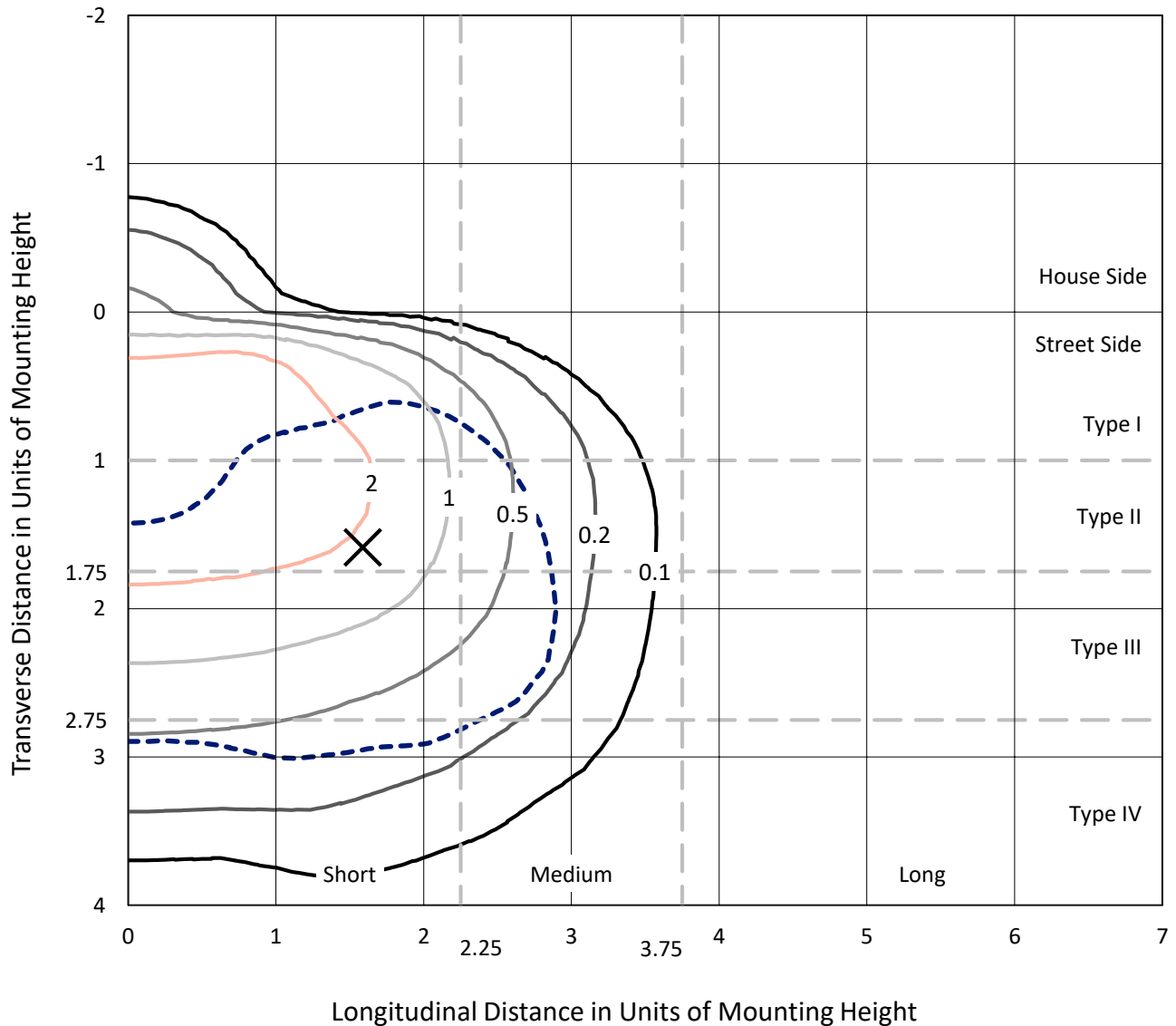
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

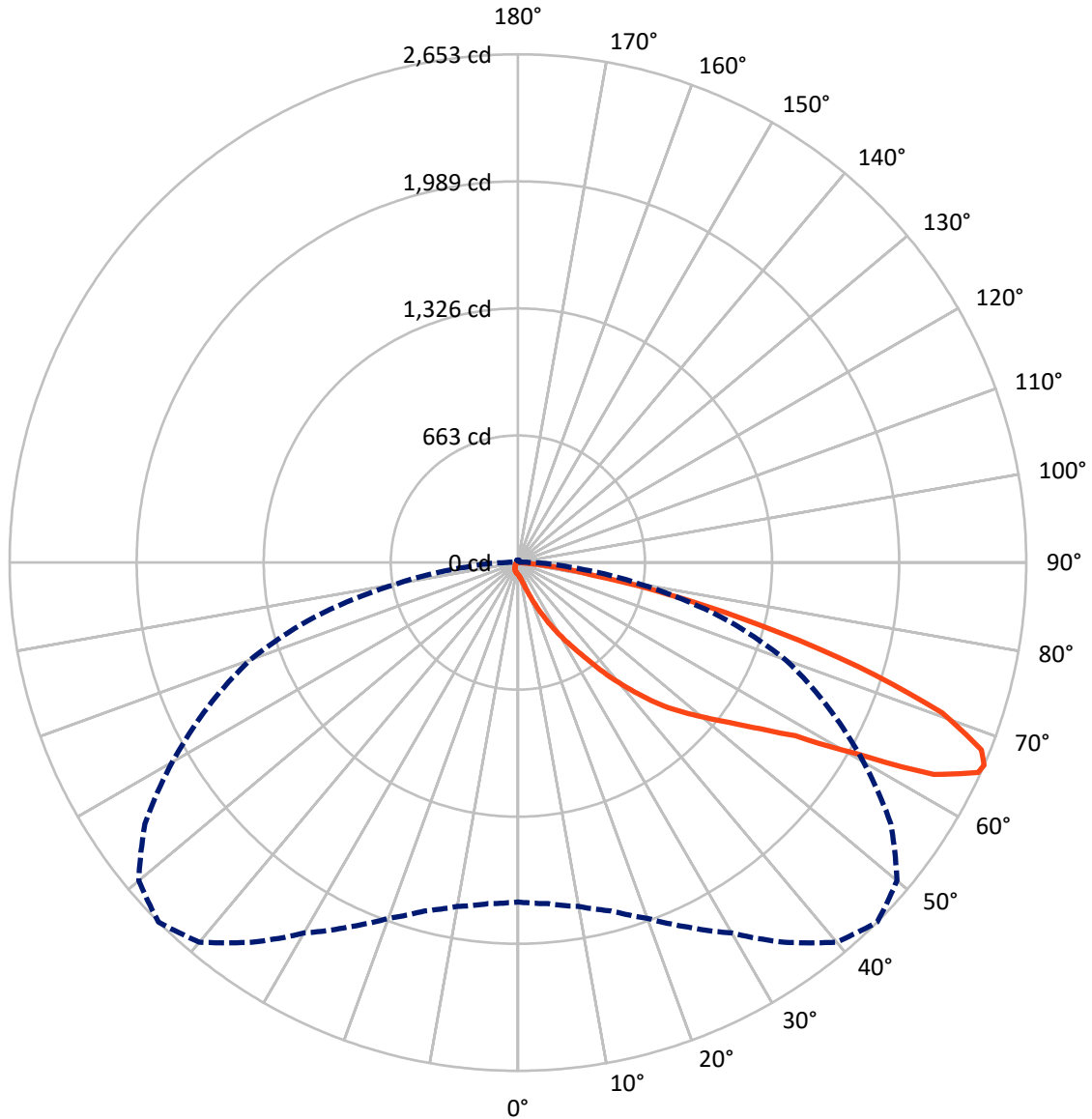
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4 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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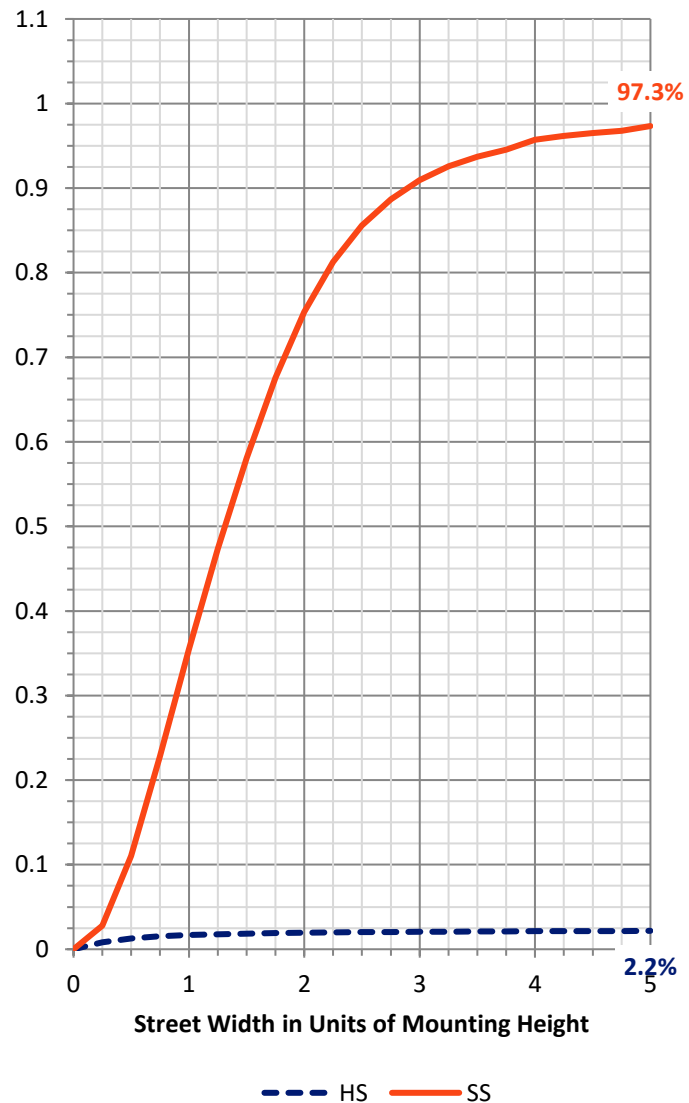
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	56.8	0.0	56.8
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	2450.2	0.0	2450.2
	% Fixture	97.7	0.0	97.7
Total	Lumens	2507.0	0.0	2507.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	0.3
10°-20°	25.6	1.0
20°-30°	74.9	3.0
30°-40°	175.0	7.0
40°-50°	328.6	13.1
50°-60°	544.6	21.7
60°-70°	864.6	34.5
70°-80°	447.1	17.8
80°-90°	40.4	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°	2507.0	100.0
0°-180°	2507.0	100.0



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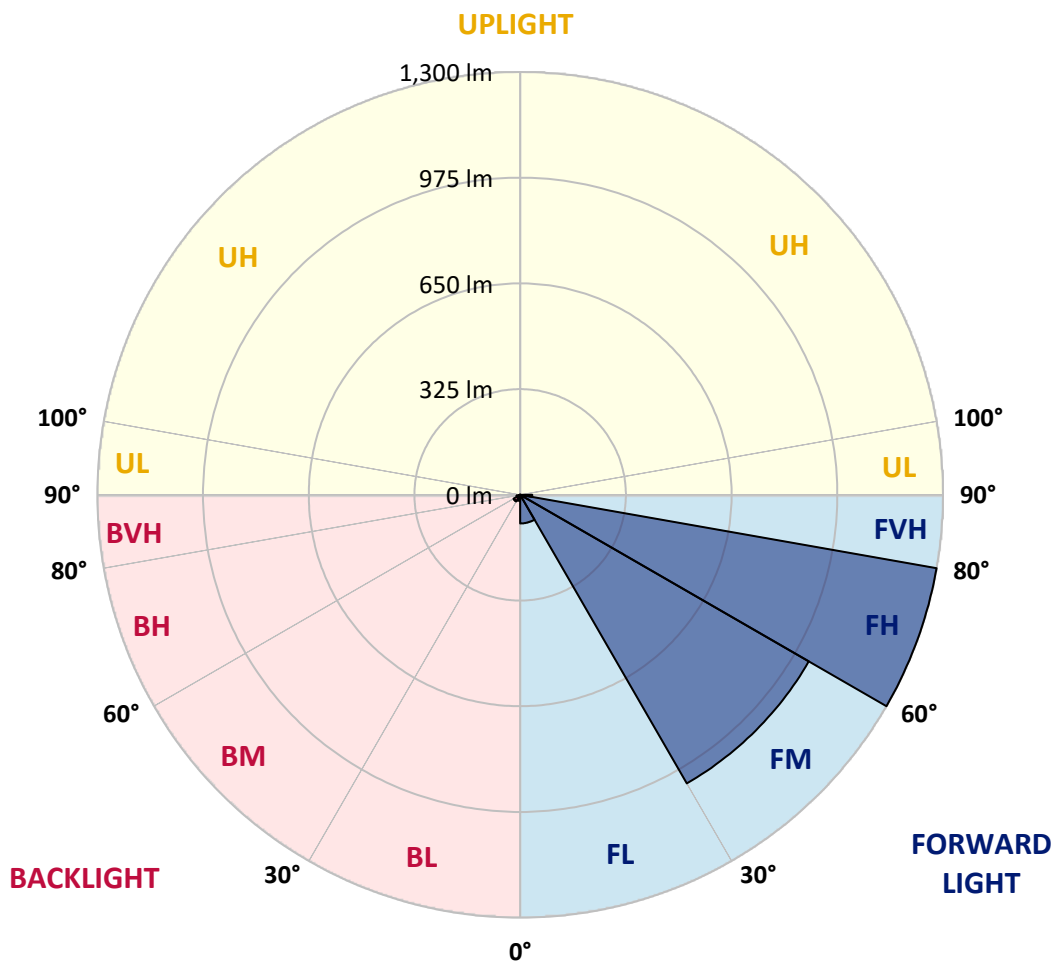
CATALOG NUMBER: ICM-F02-LED-E1-T4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	88.2	3.5			
FM	(30°-60°)	1024.6	40.9			
FH	(60°-80°)	1300.2	51.9			G1/1800
FVH	(80°-90°)	37.2	1.5			G1/100
BL	(0°-30°)	18.6	0.7	B0/110		
BM	(30°-60°)	23.6	0.9	B0/220		
BH	(60°-80°)	11.5	0.5	B0/110		G0/110
BVH	(80°-90°)	3.2	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°	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
2.5°	67.8	67.8	67.8	67.8	67.4	67.0	66.5	66.1	65.7	65.7	65.2
5°	76.9	77.3	76.9	76.5	75.6	75.2	73.9	73.0	71.7	71.3	70.0
7.5°	89.4	89.0	89.4	88.2	86.4	86.0	84.3	82.1	80.4	77.8	76.1
10°	107.6	107.2	107.6	105.0	102.4	100.3	97.2	94.6	90.7	87.7	84.3
12.5°	136.6	136.6	135.6	132.2	128.7	124.0	119.3	113.7	106.7	100.7	95.1
15°	181.0	178.9	175.0	172.8	166.8	159.4	154.2	143.0	133.1	123.5	112.4
17.5°	234.6	230.3	227.3	222.5	214.8	205.2	196.6	180.2	170.2	154.7	138.7
20°	296.0	290.8	290.0	282.6	274.4	264.0	251.4	232.0	215.2	195.7	173.3
22.5°	358.6	359.5	356.0	350.9	342.6	330.5	311.1	293.4	272.7	248.0	219.1
25°	428.7	428.2	425.2	419.2	413.1	398.0	382.4	365.6	340.9	309.4	274.8
27.5°	494.3	493.9	486.5	487.0	475.3	469.7	454.5	436.4	406.6	380.3	342.6
30°	563.0	558.7	554.0	550.5	542.2	532.4	524.6	503.0	480.5	449.4	418.7
32.5°	632.6	627.8	629.1	624.8	618.3	608.4	596.7	579.0	554.8	524.6	496.0
35°	717.7	715.5	712.1	713.4	712.1	704.7	694.8	671.4	645.1	616.2	586.8
37.5°	780.7	778.6	780.7	789.9	792.0	796.7	789.4	777.8	758.7	727.2	696.6
40°	839.1	839.5	849.5	860.7	868.5	884.0	886.6	881.9	866.8	837.8	797.6
42.5°	891.4	897.9	907.0	925.5	942.4	964.4	980.8	983.4	972.2	953.2	912.6
45°	949.7	955.4	969.6	991.6	1015.0	1042.2	1068.6	1082.3	1081.5	1068.1	1024.5
47.5°	1015.0	1022.3	1037.9	1056.0	1087.2	1117.8	1151.9	1176.6	1187.0	1168.4	1126.1
50°	1094.1	1097.0	1110.4	1133.8	1162.3	1197.8	1234.9	1270.8	1291.1	1273.8	1230.1
52.5°	1187.8	1188.7	1201.2	1222.8	1245.7	1284.6	1320.8	1370.6	1396.9	1387.5	1335.2
55°	1316.6	1314.0	1322.6	1341.2	1359.8	1397.4	1433.7	1489.9	1528.3	1529.1	1473.4
57.5°	1492.4	1486.3	1492.0	1506.7	1527.5	1562.4	1608.2	1657.9	1709.3	1705.9	1660.1
60°	1737.4	1735.3	1745.6	1770.2	1805.7	1842.0	1893.9	1960.8	2006.2	2021.8	1973.8
62.5°	1900.3	1906.3	1930.2	1968.2	2036.4	2111.6	2207.9	2310.3	2396.8	2435.6	2369.6
65°	1830.3	1840.3	1877.4	1933.6	2023.9	2136.7	2264.6	2432.7	2581.7	2640.9	2572.2
66°	1771.1	1787.1	1822.2	1881.8	1975.9	2099.1	2232.6	2418.4	2586.1	2652.6	2582.6
67.5°	1668.8	1679.9	1719.7	1785.8	1886.9	2008.8	2153.1	2349.2	2538.5	2608.9	2539.4
70°	1460.0	1464.4	1496.8	1552.9	1631.2	1756.0	1886.9	2075.7	2249.9	2348.9	2272.8
72.5°	1086.7	1092.8	1146.3	1248.8	1350.2	1421.1	1498.5	1649.7	1762.1	1854.5	1839.8
75°	522.8	525.4	561.3	710.8	908.7	993.4	1065.1	1182.1	1224.9	1302.3	1290.6
77.5°	331.4	337.0	360.4	396.7	509.0	609.7	666.2	733.2	745.8	811.0	773.0
80°	91.2	105.9	129.2	190.1	326.2	388.8	414.3	411.8	414.3	394.5	381.5
82.5°	18.6	18.1	22.0	34.1	143.9	226.4	244.6	208.3	207.0	199.2	205.7
85°	4.7	4.3	5.2	10.8	24.7	67.0	84.3	47.1	35.9	34.1	30.2
87.5°	1.3	1.3	1.3	2.1	2.6	3.4	4.7	3.4	2.6	2.6	2.6
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°	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
2.5°	64.8	64.8	64.4	63.9	63.9	63.5	63.1	62.7	62.2	61.8	61.4
5°	68.7	67.8	66.5	65.7	64.8	63.5	62.7	61.8	60.9	60.5	59.6
7.5°	73.9	71.7	70.0	67.4	65.7	63.9	62.2	60.9	59.6	58.8	57.9
10°	80.4	76.9	73.5	70.0	67.0	64.4	61.8	59.6	58.3	57.0	56.2
12.5°	88.6	83.3	78.6	73.5	68.7	64.8	61.4	58.8	57.0	55.7	54.4
15°	102.0	93.8	85.6	77.8	71.7	65.7	60.9	57.9	55.7	54.4	53.1
17.5°	123.2	108.5	95.5	84.7	74.8	67.0	60.9	57.0	54.4	52.7	51.4
20°	153.9	129.6	108.9	93.3	80.4	69.1	60.9	55.7	53.1	51.0	49.7
22.5°	190.1	159.9	131.3	105.4	86.9	72.2	60.9	54.4	51.4	49.7	48.0
25°	243.3	203.1	164.2	127.9	97.7	76.9	62.2	53.6	50.1	48.0	46.2
27.5°	305.5	257.1	208.7	157.7	114.0	83.8	63.9	52.7	48.8	46.2	44.5
30°	376.4	322.8	263.5	197.5	135.6	92.9	67.0	52.3	47.1	44.5	42.3
32.5°	453.3	396.7	331.8	248.5	167.6	106.7	70.9	51.8	45.4	42.3	39.7
35°	544.8	492.2	413.1	320.2	217.3	130.5	79.5	52.7	43.6	40.2	37.1
37.5°	645.1	588.9	505.1	396.2	266.6	157.3	86.0	51.4	40.7	37.1	34.1
40°	746.2	681.9	596.7	476.2	329.2	190.1	94.2	50.1	37.6	34.1	31.1
42.5°	844.7	776.9	684.5	558.2	395.4	229.0	104.6	50.1	35.4	31.1	28.1
45°	948.0	866.3	765.2	636.9	461.0	273.5	119.3	49.7	32.8	28.6	25.0
47.5°	1045.7	948.8	832.7	706.1	531.4	322.3	136.1	50.1	30.7	26.0	22.9
50°	1138.1	1027.1	901.8	767.8	598.9	375.1	156.8	50.5	28.6	23.7	20.7
52.5°	1239.3	1116.1	976.1	831.4	665.4	428.2	181.0	51.4	26.3	21.6	19.0
55°	1364.6	1228.0	1067.7	909.1	735.8	481.8	204.4	52.3	24.2	19.9	17.3
57.5°	1545.1	1389.6	1216.3	1025.8	829.2	542.7	228.6	54.4	22.5	18.6	16.0
60°	1839.0	1653.6	1453.5	1228.8	968.8	625.2	263.5	59.2	20.3	16.8	15.2
62.5°	2192.4	1969.4	1715.0	1442.3	1100.1	680.9	286.9	64.4	18.6	15.5	14.2
65°	2370.4	2089.6	1796.2	1502.0	1116.9	664.6	277.4	62.7	16.5	13.9	12.1
66°	2375.6	2083.1	1784.9	1488.9	1099.6	644.7	268.3	61.8	16.0	13.4	11.3
67.5°	2326.3	2027.4	1725.3	1430.2	1048.7	606.2	251.9	58.8	14.7	12.1	10.0
70°	2083.1	1791.8	1514.9	1242.2	902.2	510.7	211.3	51.8	12.9	10.8	9.1
72.5°	1660.5	1423.3	1190.0	977.4	701.3	383.3	166.8	42.3	11.3	9.5	7.8
75°	1159.7	964.8	787.3	635.6	440.7	229.4	108.0	29.8	9.5	7.8	6.5
77.5°	647.3	513.3	388.0	295.5	175.8	71.7	35.9	15.2	8.2	6.0	5.2
80°	329.2	244.1	185.8	136.9	81.2	37.1	18.1	10.0	6.5	4.7	4.3
82.5°	191.4	140.5	111.9	88.6	55.7	28.1	14.7	7.3	4.3	3.4	3.9
85°	42.8	56.6	48.0	40.7	29.8	17.7	10.3	4.7	3.1	3.1	3.4
87.5°	3.4	4.7	4.3	5.6	6.0	5.6	4.3	2.6	2.1	2.6	2.6
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°	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
2.5°	60.9	60.5	60.5	60.1	59.6	59.6	59.6	59.2	59.6	59.6	59.6
5°	59.2	58.8	58.3	57.9	57.5	57.0	57.0	56.6	56.6	56.6	57.0
7.5°	57.5	56.6	56.2	55.3	54.9	54.4	54.4	54.0	54.0	54.0	54.0
10°	55.3	54.4	53.6	53.1	52.7	51.8	51.8	51.4	51.0	51.0	51.0
12.5°	53.6	52.7	51.8	51.0	50.1	49.7	49.3	48.8	48.4	48.4	48.4
15°	51.8	50.5	49.7	48.8	48.0	47.1	46.7	46.2	45.8	45.4	45.4
17.5°	50.1	48.8	47.5	46.7	45.8	44.9	44.5	43.2	43.2	42.8	42.8
20°	48.0	46.7	45.4	44.5	43.6	42.8	42.0	41.0	40.2	39.7	39.7
22.5°	46.2	44.9	43.6	42.3	41.0	39.7	38.9	38.0	37.6	37.1	36.7
25°	44.5	42.8	41.0	39.7	38.4	37.1	36.3	35.4	34.6	34.1	34.1
27.5°	42.3	40.7	38.9	37.1	35.9	34.6	33.7	32.4	32.0	31.5	31.1
30°	40.2	38.0	36.3	34.6	33.3	31.5	30.7	29.8	28.9	28.9	28.6
32.5°	37.6	35.4	33.7	32.0	30.2	28.9	28.1	27.3	26.8	26.0	26.0
35°	35.0	32.8	30.7	28.9	27.6	26.3	25.5	24.7	23.7	23.3	23.3
37.5°	32.0	29.8	28.1	26.3	25.0	23.7	22.9	22.0	21.6	21.2	20.7
40°	28.6	26.3	25.0	23.7	22.5	21.6	20.3	19.4	19.0	18.6	18.1
42.5°	25.5	23.3	22.5	21.6	20.3	19.4	18.1	17.3	16.5	16.0	15.5
45°	22.9	21.2	20.3	19.4	18.1	16.8	16.0	15.2	14.2	13.9	13.9
47.5°	20.3	19.0	18.1	17.3	16.0	15.2	13.9	13.4	12.6	12.6	12.6
50°	18.6	17.3	16.5	15.5	14.7	13.4	12.6	12.1	11.6	11.6	12.1
52.5°	17.3	16.0	15.2	14.2	13.4	12.6	11.6	11.3	11.3	11.6	12.1
55°	16.0	14.7	13.9	12.9	12.1	11.6	10.8	10.8	11.3	11.6	12.1
57.5°	15.2	13.4	12.6	12.1	11.3	10.8	10.8	10.8	11.3	11.6	12.6
60°	13.9	12.1	11.3	11.3	10.3	10.3	10.3	10.8	11.3	12.1	12.6
62.5°	12.1	10.8	10.3	10.3	10.0	10.0	10.3	10.8	11.6	12.1	12.6
65°	10.3	9.5	9.5	9.5	9.5	10.0	10.3	10.8	11.3	12.1	12.6
66°	9.5	9.1	9.1	9.5	9.5	10.0	10.3	10.8	11.3	11.6	12.1
67.5°	9.1	8.7	8.7	9.1	9.5	9.5	10.0	10.8	11.3	11.6	11.6
70°	7.8	7.8	7.8	8.7	9.1	9.5	10.0	10.3	10.8	11.3	11.6
72.5°	6.9	6.9	7.3	7.8	8.7	9.1	9.5	10.0	10.8	11.3	11.3
75°	6.0	6.0	6.9	7.3	8.2	8.7	9.5	10.0	10.3	10.8	10.8
77.5°	5.2	5.6	6.5	7.3	7.8	8.7	9.1	9.5	10.0	10.3	10.3
80°	4.7	5.6	6.5	6.9	7.3	7.8	8.2	9.1	9.5	10.0	10.3
82.5°	4.7	5.2	6.0	6.5	6.9	7.8	8.2	8.7	9.1	9.5	10.0
85°	3.9	4.7	5.2	6.0	6.5	7.3	7.8	7.8	8.2	8.7	9.1
87.5°	3.1	3.4	3.4	4.3	4.7	5.6	6.5	6.5	6.9	7.3	7.8
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):

	165°	170°	175°	180°
0°	62.7	62.7	62.7	62.7
2.5°	59.6	60.1	60.1	60.1
5°	57.0	57.0	57.0	57.0
7.5°	54.0	54.0	54.0	54.0
10°	51.0	51.0	51.4	51.0
12.5°	48.4	48.0	48.0	48.0
15°	45.4	45.4	44.9	45.4
17.5°	42.3	42.3	42.0	42.0
20°	39.3	39.3	39.3	39.3
22.5°	36.7	36.3	36.3	36.3
25°	33.7	33.7	33.7	33.7
27.5°	31.1	31.1	31.1	31.1
30°	28.6	28.6	28.1	28.1
32.5°	26.0	26.0	26.0	26.0
35°	23.3	23.3	22.9	22.9
37.5°	20.3	20.3	20.3	20.3
40°	17.7	17.7	17.7	17.7
42.5°	15.5	15.5	15.2	15.2
45°	13.4	13.4	13.4	13.4
47.5°	12.6	12.6	12.6	12.6
50°	12.1	12.6	12.6	12.6
52.5°	12.6	12.6	12.6	12.6
55°	12.6	12.9	12.9	12.9
57.5°	12.6	12.9	12.9	13.4
60°	12.9	13.4	13.4	13.4
62.5°	12.9	13.4	13.4	13.4
65°	12.6	12.9	12.9	12.9
66°	12.6	12.6	12.6	12.9
67.5°	12.1	12.6	12.6	12.6
70°	11.6	12.1	12.1	12.6
72.5°	11.6	12.1	12.1	12.1
75°	11.3	11.3	11.6	11.6
77.5°	10.8	10.8	11.3	11.3
80°	10.3	10.8	10.8	10.8
82.5°	10.0	10.3	10.3	10.3
85°	9.1	9.5	9.5	9.5
87.5°	7.8	7.8	8.2	8.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)