

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: P181593

Luminaire Tested: **ICS-F02-LED-E1-T4-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181593
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-7030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2625 lumens
Efficiency: N/A
Efficacy: 47.7 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

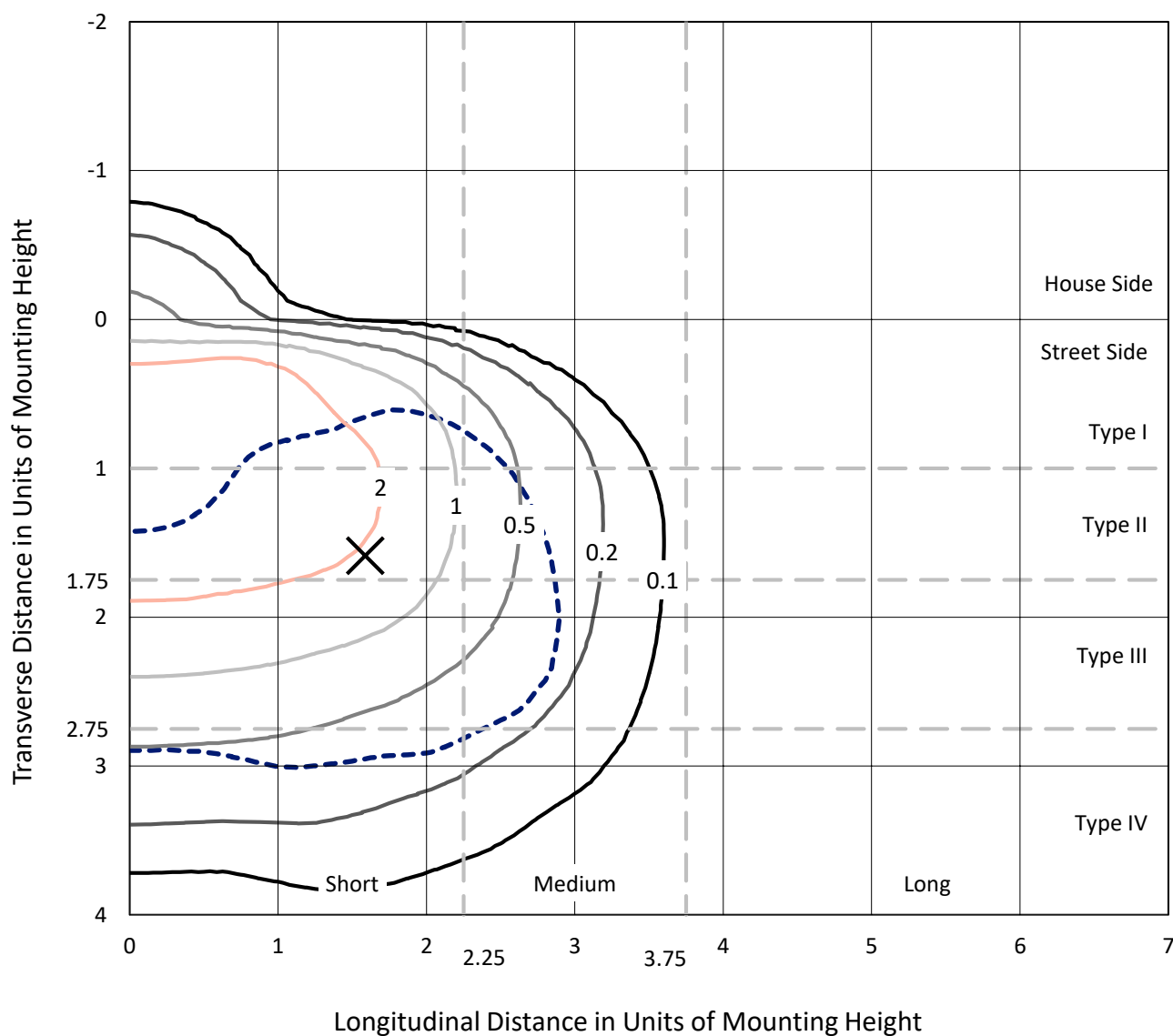


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

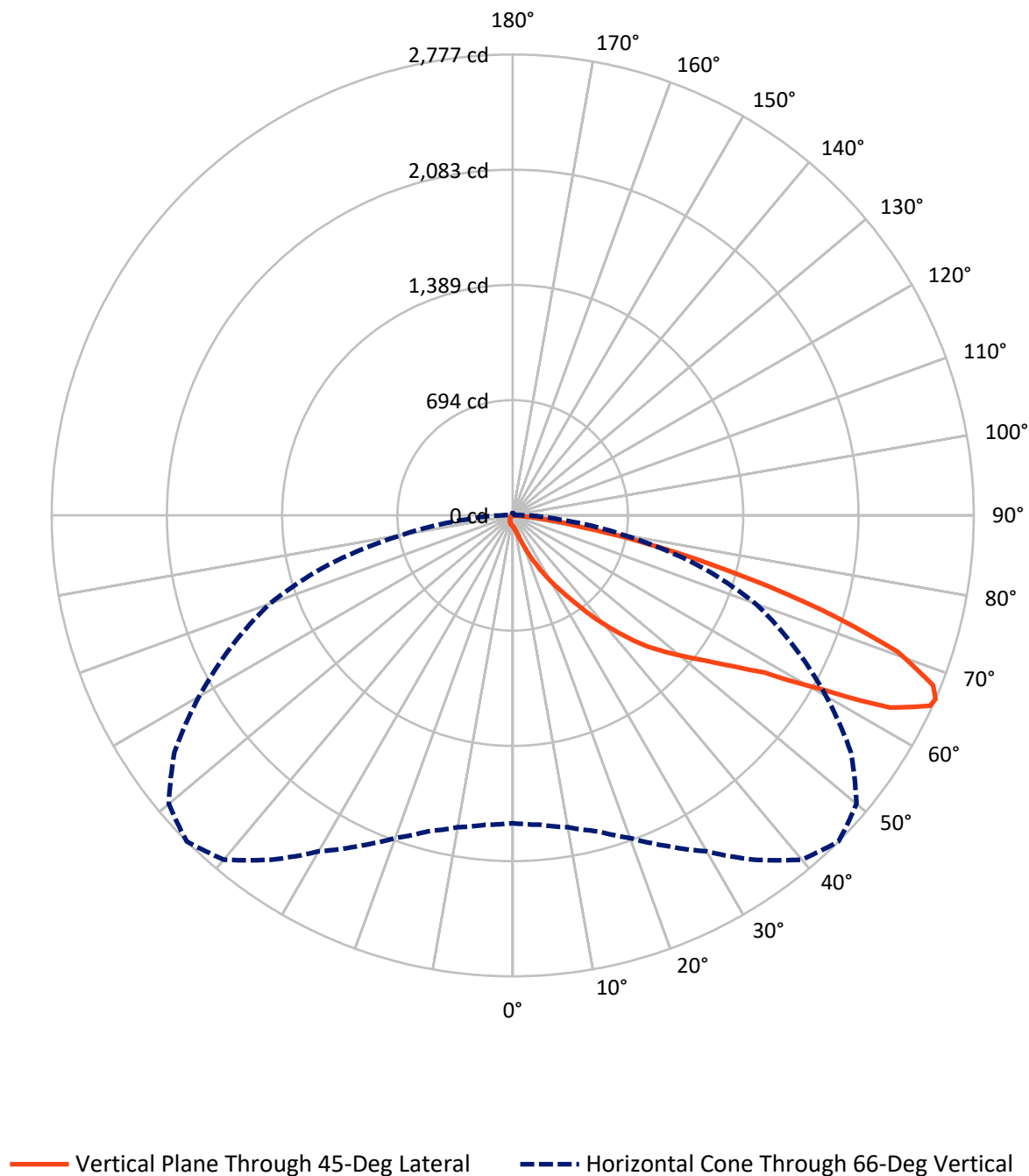


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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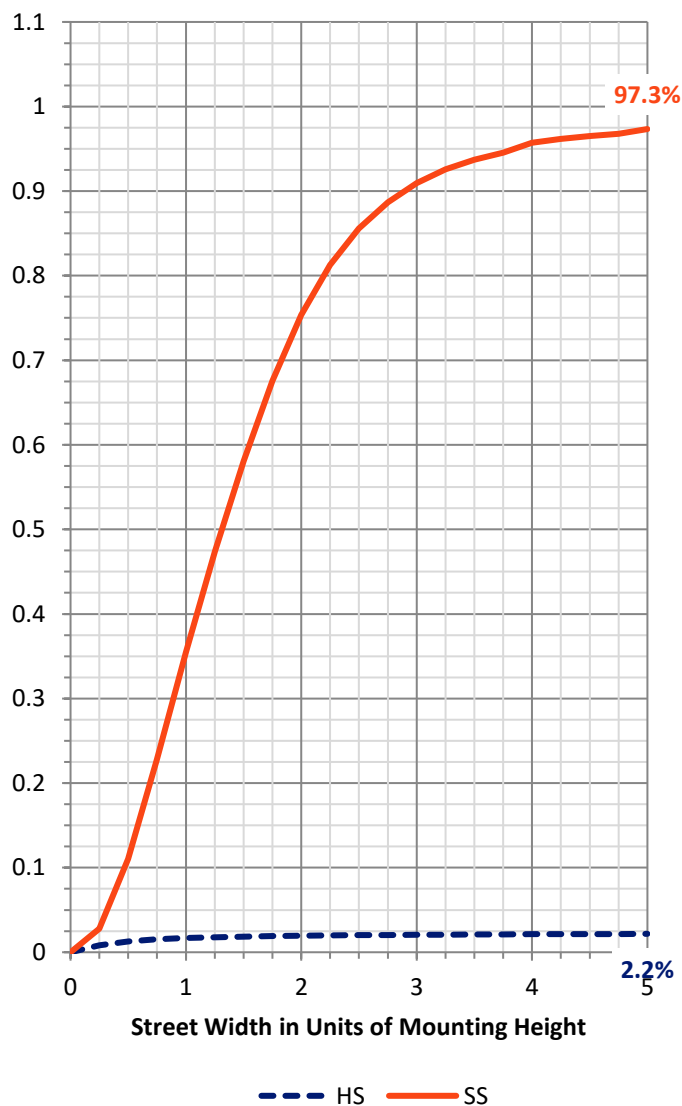
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	59.5	0.0	59.5
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	2565.5	0.0	2565.5
	% Fixture	97.7	0.0	97.7
Total	Lumens	2625.0	0.0	2625.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	0.3
10°-20°	26.8	1.0
20°-30°	78.4	3.0
30°-40°	183.2	7.0
40°-50°	344.1	13.1
50°-60°	570.2	21.7
60°-70°	905.2	34.5
70°-80°	468.2	17.8
80°-90°	42.3	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°	2625.0	100.0
0°-180°	2625.0	100.0

Coefficient of Utilization



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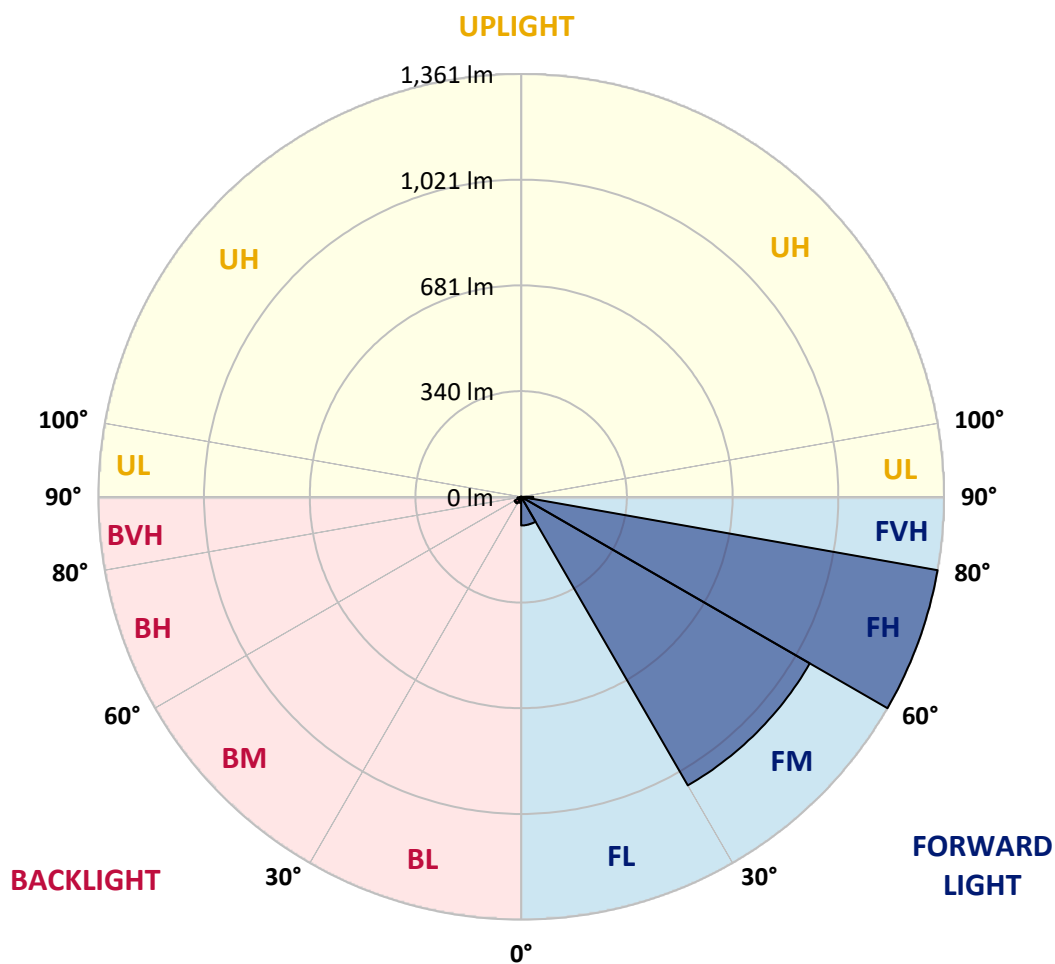
CATALOG NUMBER: ICS-F02-LED-E1-T4-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	92.4	3.5			
FM	(30°-60°)	1072.8	40.9			
FH	(60°-80°)	1361.4	51.9			G1/1800
FVH	(80°-90°)	38.9	1.5			G1/100
BL	(0°-30°)	19.4	0.7	B0/110		
BM	(30°-60°)	24.7	0.9	B0/220		
BH	(60°-80°)	12.1	0.5	B0/110		G0/110
BVH	(80°-90°)	3.3	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°	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
2.5°	71.0	71.0	71.0	71.0	70.6	70.1	69.7	69.2	68.8	68.8	68.3
5°	80.5	81.0	80.5	80.1	79.2	78.7	77.4	76.5	75.1	74.6	73.3
7.5°	93.7	93.2	93.7	92.3	90.5	90.0	88.2	86.0	84.2	81.4	79.6
10°	112.7	112.2	112.7	109.9	107.2	105.0	101.8	99.1	95.0	91.8	88.2
12.5°	143.0	143.0	142.1	138.4	134.8	129.8	124.9	119.0	111.7	105.4	99.5
15°	189.6	187.3	183.2	181.0	174.6	166.9	161.5	149.8	139.3	129.4	117.6
17.5°	245.7	241.1	238.0	233.0	224.9	214.9	205.9	188.7	178.3	162.0	145.2
20°	309.9	304.5	303.6	295.9	287.3	276.4	263.3	242.9	225.3	204.9	181.4
22.5°	375.5	376.4	372.8	367.4	358.8	346.1	325.7	307.2	285.5	259.7	229.4
25°	448.8	448.3	445.2	438.8	432.5	416.7	400.4	382.7	357.0	323.9	287.7
27.5°	517.6	517.1	509.4	509.9	497.7	491.8	475.9	456.9	425.7	398.1	358.8
30°	589.5	585.0	580.0	576.4	567.8	557.4	549.2	526.6	503.1	470.5	438.4
32.5°	662.3	657.4	658.7	654.2	647.4	637.0	624.8	606.2	580.9	549.2	519.4
35°	751.5	749.2	745.6	746.9	745.6	737.9	727.5	703.1	675.5	645.2	614.4
37.5°	817.5	815.3	817.5	827.0	829.3	834.3	826.6	814.4	794.5	761.4	729.3
40°	878.6	879.1	889.5	901.2	909.4	925.7	928.4	923.4	907.6	877.2	835.2
42.5°	933.3	940.1	949.6	969.1	986.7	1009.8	1027.0	1029.7	1017.9	998.0	955.5
45°	994.4	1000.3	1015.2	1038.3	1062.7	1091.2	1118.8	1133.3	1132.4	1118.4	1072.7
47.5°	1062.7	1070.4	1086.7	1105.7	1138.3	1170.4	1206.2	1231.9	1242.8	1223.3	1179.0
50°	1145.5	1148.7	1162.7	1187.2	1217.0	1254.1	1293.0	1330.6	1351.8	1333.7	1288.0
52.5°	1243.7	1244.6	1257.7	1280.4	1304.3	1345.0	1383.1	1435.1	1462.7	1452.7	1398.0
55°	1378.5	1375.8	1384.9	1404.3	1423.8	1463.1	1501.1	1559.9	1600.2	1601.1	1542.8
57.5°	1562.7	1556.3	1562.2	1577.6	1599.3	1636.0	1683.9	1735.9	1789.8	1786.2	1738.2
60°	1819.2	1816.9	1827.8	1853.6	1890.7	1928.7	1983.0	2053.1	2100.6	2116.9	2066.7
62.5°	1989.7	1996.1	2021.0	2060.8	2132.3	2211.0	2311.9	2419.1	2509.6	2550.3	2481.1
65°	1916.5	1926.9	1965.8	2024.6	2119.1	2237.2	2371.1	2547.1	2703.2	2765.2	2693.3
66°	1854.5	1871.2	1907.9	1970.3	2068.9	2197.9	2337.7	2532.2	2707.7	2777.4	2704.1
67.5°	1747.2	1759.0	1800.6	1869.9	1975.7	2103.3	2254.4	2459.8	2658.0	2731.7	2658.9
70°	1528.7	1533.3	1567.2	1626.0	1707.9	1838.6	1975.7	2173.4	2355.8	2459.4	2379.7
72.5°	1137.8	1144.2	1200.3	1307.5	1413.8	1488.0	1569.0	1727.3	1845.0	1941.8	1926.4
75°	547.4	550.1	587.7	744.2	951.4	1040.1	1115.2	1237.8	1282.6	1363.6	1351.4
77.5°	347.0	352.9	377.3	415.3	533.0	638.4	697.6	767.8	780.9	849.2	809.4
80°	95.5	110.8	135.3	199.1	341.6	407.2	433.9	431.2	433.9	413.1	399.5
82.5°	19.5	19.0	23.1	35.7	150.7	237.1	256.1	218.1	216.7	208.6	215.4
85°	5.0	4.5	5.4	11.3	25.8	70.1	88.2	49.3	37.6	35.7	31.7
87.5°	1.4	1.4	1.4	2.3	2.7	3.6	5.0	3.6	2.7	2.7	2.7
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°	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
2.5°	67.9	67.9	67.4	67.0	67.0	66.5	66.1	65.6	65.1	64.7	64.2
5°	71.9	71.0	69.7	68.8	67.9	66.5	65.6	64.7	63.8	63.3	62.4
7.5°	77.4	75.1	73.3	70.6	68.8	67.0	65.1	63.8	62.4	61.5	60.6
10°	84.2	80.5	76.9	73.3	70.1	67.4	64.7	62.4	61.1	59.7	58.8
12.5°	92.7	87.3	82.3	76.9	71.9	67.9	64.2	61.5	59.7	58.4	57.0
15°	106.8	98.2	89.6	81.4	75.1	68.8	63.8	60.6	58.4	57.0	55.6
17.5°	128.9	113.6	100.0	88.7	78.3	70.1	63.8	59.7	57.0	55.2	53.8
20°	161.1	135.7	114.0	97.7	84.2	72.4	63.8	58.4	55.6	53.4	52.0
22.5°	199.1	167.4	137.5	110.4	90.9	75.6	63.8	57.0	53.8	52.0	50.2
25°	254.7	212.6	171.9	133.9	102.2	80.5	65.1	56.1	52.5	50.2	48.4
27.5°	319.9	269.2	218.5	165.1	119.4	87.8	67.0	55.2	51.1	48.4	46.6
30°	394.1	338.0	276.0	206.8	142.1	97.3	70.1	54.7	49.3	46.6	44.3
32.5°	474.6	415.3	347.5	260.1	175.5	111.7	74.2	54.3	47.5	44.3	41.6
35°	570.5	515.3	432.5	335.2	227.6	136.6	83.2	55.2	45.7	42.1	38.9
37.5°	675.5	616.6	528.9	414.9	279.1	164.7	90.0	53.8	42.5	38.9	35.7
40°	781.3	713.9	624.8	498.6	344.7	199.1	98.6	52.5	39.4	35.7	32.6
42.5°	884.5	813.5	716.6	584.5	414.0	239.8	109.5	52.5	37.1	32.6	29.4
45°	992.6	907.1	801.2	666.9	482.7	286.4	124.9	52.0	34.4	29.9	26.2
47.5°	1094.9	993.5	871.8	739.3	556.5	337.5	142.5	52.5	32.1	27.1	24.0
50°	1191.7	1075.4	944.2	804.0	627.1	392.7	164.2	52.9	29.9	24.9	21.7
52.5°	1297.5	1168.6	1022.0	870.5	696.7	448.3	189.6	53.8	27.6	22.6	19.9
55°	1428.7	1285.8	1117.9	951.9	770.5	504.4	214.0	54.7	25.3	20.8	18.1
57.5°	1617.9	1455.0	1273.6	1074.0	868.2	568.2	239.3	57.0	23.5	19.5	16.7
60°	1925.5	1731.4	1521.9	1286.7	1014.3	654.7	276.0	62.0	21.3	17.6	15.8
62.5°	2295.6	2062.1	1795.7	1510.2	1151.9	713.0	300.4	67.4	19.5	16.3	14.9
65°	2482.0	2187.9	1880.7	1572.6	1169.5	695.8	290.5	65.6	17.2	14.5	12.7
66°	2487.4	2181.1	1868.9	1559.0	1151.4	675.0	281.0	64.7	16.7	14.0	11.8
67.5°	2435.8	2122.8	1806.5	1497.5	1098.0	634.7	263.8	61.5	15.4	12.7	10.4
70°	2181.1	1876.2	1586.2	1300.7	944.7	534.8	221.2	54.3	13.6	11.3	9.5
72.5°	1738.7	1490.3	1246.0	1023.4	734.3	401.3	174.6	44.3	11.8	10.0	8.1
75°	1214.3	1010.3	824.3	665.5	461.5	240.2	113.1	31.2	10.0	8.1	6.8
77.5°	677.7	537.5	406.3	309.5	184.1	75.1	37.6	15.8	8.6	6.3	5.4
80°	344.7	255.6	194.5	143.4	85.1	38.9	19.0	10.4	6.8	5.0	4.5
82.5°	200.4	147.0	117.2	92.7	58.4	29.4	15.4	7.7	4.5	3.6	4.1
85°	44.8	59.3	50.2	42.5	31.2	18.5	10.9	5.0	3.2	3.2	3.6
87.5°	3.6	5.0	4.5	5.9	6.3	5.9	4.5	2.7	2.3	2.7	2.7
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°	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
2.5°	63.8	63.3	63.3	62.9	62.4	62.4	62.4	62.0	62.4	62.4	62.4
5°	62.0	61.5	61.1	60.6	60.2	59.7	59.7	59.3	59.3	59.3	59.7
7.5°	60.2	59.3	58.8	57.9	57.5	57.0	57.0	56.6	56.6	56.6	56.6
10°	57.9	57.0	56.1	55.6	55.2	54.3	54.3	53.8	53.4	53.4	53.4
12.5°	56.1	55.2	54.3	53.4	52.5	52.0	51.6	51.1	50.7	50.7	50.7
15°	54.3	52.9	52.0	51.1	50.2	49.3	48.9	48.4	48.0	47.5	47.5
17.5°	52.5	51.1	49.8	48.9	48.0	47.1	46.6	45.2	45.2	44.8	44.8
20°	50.2	48.9	47.5	46.6	45.7	44.8	43.9	43.0	42.1	41.6	41.6
22.5°	48.4	47.1	45.7	44.3	43.0	41.6	40.7	39.8	39.4	38.9	38.5
25°	46.6	44.8	43.0	41.6	40.3	38.9	38.0	37.1	36.2	35.7	35.7
27.5°	44.3	42.5	40.7	38.9	37.6	36.2	35.3	33.9	33.5	33.0	32.6
30°	42.1	39.8	38.0	36.2	34.8	33.0	32.1	31.2	30.3	30.3	29.9
32.5°	39.4	37.1	35.3	33.5	31.7	30.3	29.4	28.5	28.1	27.1	27.1
35°	36.6	34.4	32.1	30.3	29.0	27.6	26.7	25.8	24.9	24.4	24.4
37.5°	33.5	31.2	29.4	27.6	26.2	24.9	24.0	23.1	22.6	22.2	21.7
40°	29.9	27.6	26.2	24.9	23.5	22.6	21.3	20.4	19.9	19.5	19.0
42.5°	26.7	24.4	23.5	22.6	21.3	20.4	19.0	18.1	17.2	16.7	16.3
45°	24.0	22.2	21.3	20.4	19.0	17.6	16.7	15.8	14.9	14.5	14.5
47.5°	21.3	19.9	19.0	18.1	16.7	15.8	14.5	14.0	13.1	13.1	13.1
50°	19.5	18.1	17.2	16.3	15.4	14.0	13.1	12.7	12.2	12.2	12.7
52.5°	18.1	16.7	15.8	14.9	14.0	13.1	12.2	11.8	11.8	12.2	12.7
55°	16.7	15.4	14.5	13.6	12.7	12.2	11.3	11.3	11.8	12.2	12.7
57.5°	15.8	14.0	13.1	12.7	11.8	11.3	11.3	11.3	11.8	12.2	13.1
60°	14.5	12.7	11.8	11.8	10.9	10.9	10.9	11.3	11.8	12.7	13.1
62.5°	12.7	11.3	10.9	10.9	10.4	10.4	10.9	11.3	12.2	12.7	13.1
65°	10.9	10.0	10.0	10.0	10.0	10.4	10.9	11.3	11.8	12.7	13.1
66°	10.0	9.5	9.5	10.0	10.0	10.4	10.9	11.3	11.8	12.2	12.7
67.5°	9.5	9.0	9.0	9.5	10.0	10.0	10.4	11.3	11.8	12.2	12.2
70°	8.1	8.1	8.1	9.0	9.5	10.0	10.4	10.9	11.3	11.8	12.2
72.5°	7.2	7.2	7.7	8.1	9.0	9.5	10.0	10.4	11.3	11.8	11.8
75°	6.3	6.3	7.2	7.7	8.6	9.0	10.0	10.4	10.9	11.3	11.3
77.5°	5.4	5.9	6.8	7.7	8.1	9.0	9.5	10.0	10.4	10.9	10.9
80°	5.0	5.9	6.8	7.2	7.7	8.1	8.6	9.5	10.0	10.4	10.9
82.5°	5.0	5.4	6.3	6.8	7.2	8.1	8.6	9.0	9.5	10.0	10.4
85°	4.1	5.0	5.4	6.3	6.8	7.7	8.1	8.1	8.6	9.0	9.5
87.5°	3.2	3.6	3.6	4.5	5.0	5.9	6.8	6.8	7.2	7.7	8.1
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°	65.6	65.6	65.6	65.6
2.5°	62.4	62.9	62.9	62.9
5°	59.7	59.7	59.7	59.7
7.5°	56.6	56.6	56.6	56.6
10°	53.4	53.4	53.8	53.4
12.5°	50.7	50.2	50.2	50.2
15°	47.5	47.5	47.1	47.5
17.5°	44.3	44.3	43.9	43.9
20°	41.2	41.2	41.2	41.2
22.5°	38.5	38.0	38.0	38.0
25°	35.3	35.3	35.3	35.3
27.5°	32.6	32.6	32.6	32.6
30°	29.9	29.9	29.4	29.4
32.5°	27.1	27.1	27.1	27.1
35°	24.4	24.4	24.0	24.0
37.5°	21.3	21.3	21.3	21.3
40°	18.5	18.5	18.5	18.5
42.5°	16.3	16.3	15.8	15.8
45°	14.0	14.0	14.0	14.0
47.5°	13.1	13.1	13.1	13.1
50°	12.7	13.1	13.1	13.1
52.5°	13.1	13.1	13.1	13.1
55°	13.1	13.6	13.6	13.6
57.5°	13.1	13.6	13.6	14.0
60°	13.6	14.0	14.0	14.0
62.5°	13.6	14.0	14.0	14.0
65°	13.1	13.6	13.6	13.6
66°	13.1	13.1	13.1	13.6
67.5°	12.7	13.1	13.1	13.1
70°	12.2	12.7	12.7	13.1
72.5°	12.2	12.7	12.7	12.7
75°	11.8	11.8	12.2	12.2
77.5°	11.3	11.3	11.8	11.8
80°	10.9	11.3	11.3	11.3
82.5°	10.4	10.9	10.9	10.9
85°	9.5	10.0	10.0	10.0
87.5°	8.1	8.1	8.6	8.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)