

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: P181552

Luminaire Tested: **ICM-F04-LED-E1-T4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181552
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-F04-LED-E1-T4-HSS-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5014 lumens
Efficiency: N/A
Efficacy: 49.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

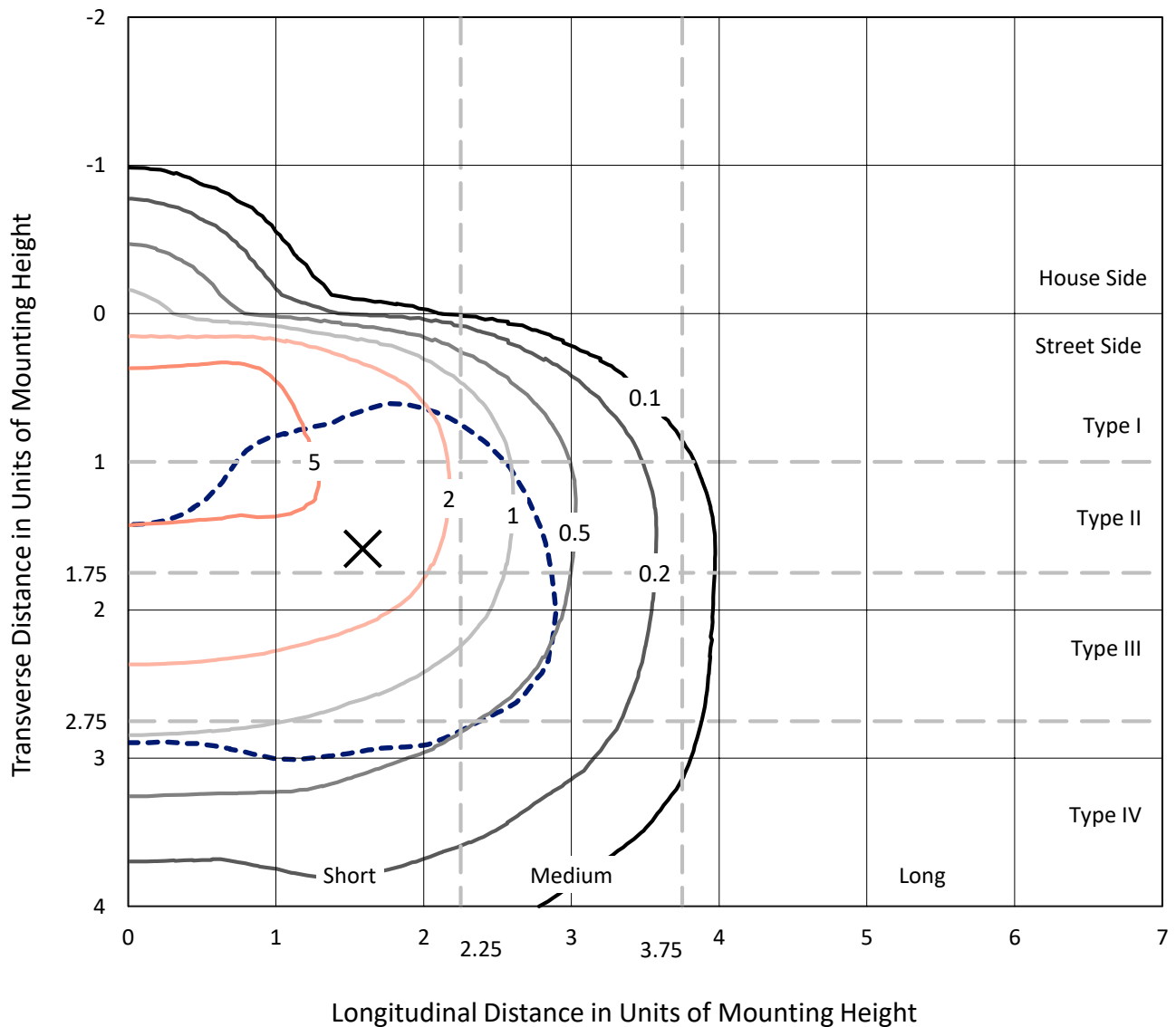
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

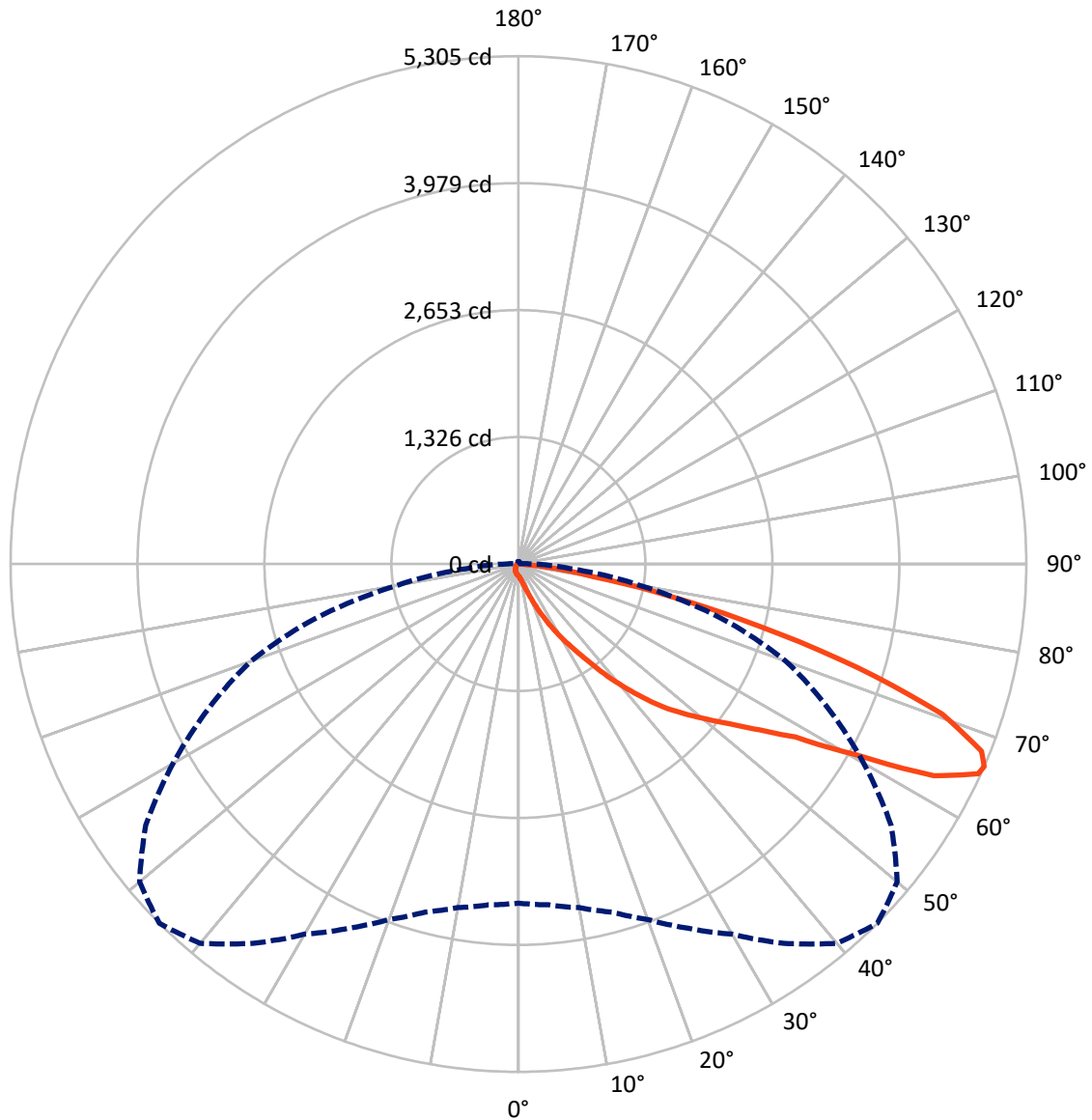
✕ Max cd
 - - - 1/2 Max cd



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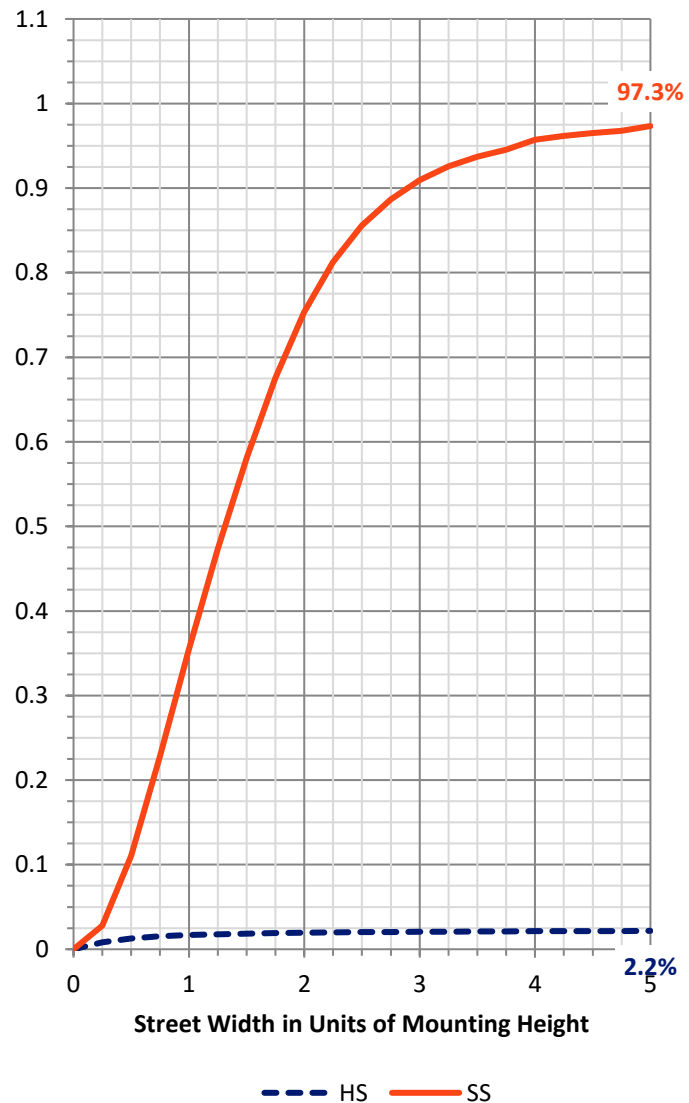
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	113.6	0.0	113.6
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	4900.4	0.0	4900.4
	% Fixture	97.7	0.0	97.7
Total	Lumens	5014.0	0.0	5014.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.6	0.3
10°-20°	51.1	1.0
20°-30°	149.8	3.0
30°-40°	349.9	7.0
40°-50°	657.3	13.1
50°-60°	1089.2	21.7
60°-70°	1729.1	34.5
70°-80°	894.2	17.8
80°-90°	80.8	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°	5014.0	100.0
0°-180°	5014.0	100.0



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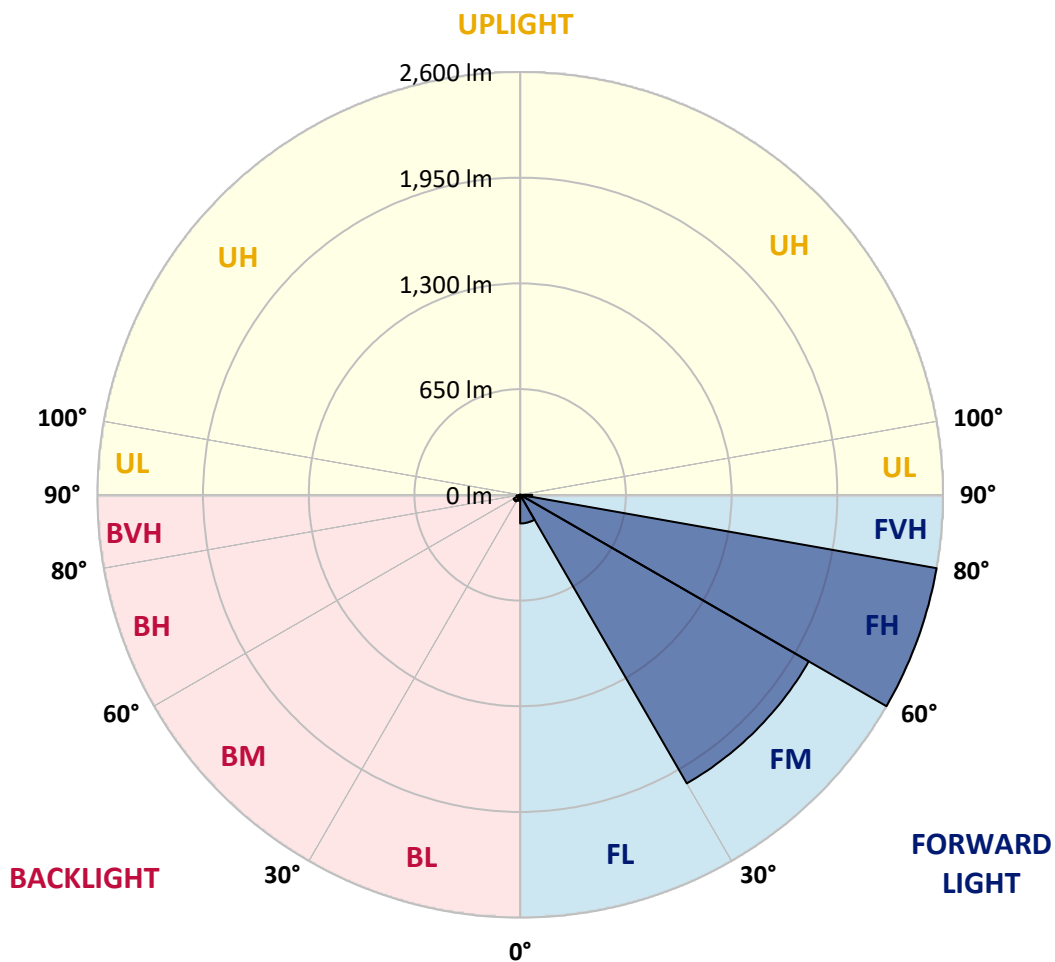
CATALOG NUMBER: ICM-F04-LED-E1-T4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	176.4	3.5			
FM	(30°-60°)	2049.2	40.9			
FH	(60°-80°)	2600.3	51.9			G2/5000
FVH	(80°-90°)	74.4	1.5			G1/100
BL	(0°-30°)	37.1	0.7	B0/110		
BM	(30°-60°)	47.1	0.9	B0/220		
BH	(60°-80°)	23.0	0.5	B0/110		G0/110
BVH	(80°-90°)	6.4	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3
2.5°	135.6	135.6	135.6	135.6	134.8	134.0	133.1	132.2	131.3	131.3	130.5
5°	153.9	154.7	153.9	152.9	151.3	150.3	147.8	146.0	143.4	142.6	140.0
7.5°	178.9	178.0	178.9	176.3	172.8	172.0	168.6	164.2	160.7	155.5	152.1
10°	215.2	214.3	215.2	210.0	204.8	200.5	194.4	189.2	181.5	175.4	168.6
12.5°	273.1	273.1	271.4	264.5	257.5	248.0	238.5	227.3	213.5	201.4	190.1
15°	362.0	357.8	350.0	345.7	333.6	318.9	308.5	286.0	266.1	247.2	224.7
17.5°	469.2	460.6	454.5	445.0	429.5	410.5	393.2	360.4	340.5	309.4	277.4
20°	592.0	581.6	579.8	565.2	548.7	528.0	503.0	464.1	430.3	391.4	346.5
22.5°	717.3	719.0	712.1	701.7	685.3	661.1	622.2	586.8	545.3	496.0	438.1
25°	857.2	856.4	850.3	838.2	826.1	795.9	764.7	731.1	681.9	618.8	549.6
27.5°	988.7	987.7	973.0	974.0	950.6	939.4	909.1	872.8	813.2	760.5	685.3
30°	1126.1	1117.4	1107.9	1100.9	1084.6	1064.7	1049.1	1005.9	960.9	898.7	837.4
32.5°	1265.1	1255.6	1258.2	1249.6	1236.7	1216.8	1193.4	1158.0	1109.6	1049.1	992.1
35°	1435.4	1431.1	1424.2	1426.7	1424.2	1409.5	1389.6	1342.9	1290.2	1232.3	1173.6
37.5°	1561.6	1557.2	1561.6	1579.7	1584.0	1593.5	1578.8	1555.5	1517.5	1454.4	1393.0
40°	1678.2	1679.1	1699.0	1721.4	1737.0	1768.1	1773.3	1763.7	1733.5	1675.6	1595.3
42.5°	1782.8	1795.7	1813.9	1851.1	1884.8	1928.8	1961.7	1966.9	1944.4	1906.3	1825.1
45°	1899.5	1910.7	1939.2	1983.3	2030.0	2084.4	2137.1	2164.8	2163.0	2136.2	2048.9
47.5°	2030.0	2044.7	2075.7	2112.0	2174.2	2235.6	2303.9	2353.1	2373.9	2336.8	2252.0
50°	2188.1	2194.2	2220.9	2267.5	2324.7	2395.5	2469.8	2541.5	2582.2	2547.6	2460.3
52.5°	2375.6	2377.3	2402.4	2445.6	2491.5	2569.2	2641.8	2741.1	2793.9	2774.9	2670.3
55°	2633.1	2627.9	2645.2	2682.4	2719.6	2794.7	2867.4	2979.6	3056.6	3058.3	2946.8
57.5°	2984.9	2972.8	2984.0	3013.4	3054.8	3124.9	3216.5	3315.8	3418.6	3411.7	3320.1
60°	3474.8	3470.5	3491.3	3540.5	3611.4	3683.9	3787.7	3921.6	4012.4	4043.5	3947.6
62.5°	3800.7	3812.8	3860.3	3936.3	4072.9	4223.2	4415.9	4620.8	4793.6	4871.4	4739.1
65°	3660.7	3680.5	3754.8	3867.2	4047.7	4273.3	4529.1	4865.3	5163.5	5281.8	5144.4
66°	3542.3	3574.3	3644.2	3763.5	3951.8	4198.2	4465.1	4836.8	5172.0	5305.1	5165.1
67.5°	3337.4	3359.9	3439.4	3571.6	3773.9	4017.5	4306.2	4698.5	5077.1	5217.9	5078.7
70°	2920.0	2928.7	2993.5	3105.9	3262.3	3512.0	3773.9	4151.5	4499.7	4697.6	4545.5
72.5°	2173.4	2185.5	2292.7	2497.5	2700.6	2842.2	2996.9	3299.4	3524.1	3709.0	3679.7
75°	1045.7	1050.8	1122.5	1421.6	1817.3	1986.7	2130.2	2364.4	2450.0	2604.6	2581.3
77.5°	662.8	674.1	720.7	793.3	1018.0	1219.4	1332.6	1466.5	1491.5	1622.1	1546.0
80°	182.3	211.7	258.4	380.3	652.5	777.8	828.7	823.5	828.7	789.0	763.1
82.5°	37.1	36.3	44.1	68.3	287.8	452.8	489.1	416.6	414.0	398.4	411.4
85°	9.5	8.7	10.3	21.6	49.3	134.0	168.6	94.2	71.7	68.3	60.5
87.5°	2.6	2.6	2.6	4.3	5.2	6.9	9.5	6.9	5.2	5.2	5.2
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°	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3
2.5°	129.6	129.6	128.7	127.9	127.9	127.1	126.1	125.3	124.5	123.5	122.7
5°	137.4	135.6	133.1	131.3	129.6	127.1	125.3	123.5	121.9	121.0	119.3
7.5°	147.8	143.4	140.0	134.8	131.3	127.9	124.5	121.9	119.3	117.5	115.8
10°	160.7	153.9	146.9	140.0	134.0	128.7	123.5	119.3	116.7	114.0	112.4
12.5°	177.1	166.8	157.3	146.9	137.4	129.6	122.7	117.5	114.0	111.4	108.9
15°	203.9	187.5	171.1	155.5	143.4	131.3	121.9	115.8	111.4	108.9	106.3
17.5°	246.3	216.9	191.0	169.4	149.5	134.0	121.9	114.0	108.9	105.4	102.8
20°	307.6	259.3	217.8	186.7	160.7	138.2	121.9	111.4	106.3	102.0	99.3
22.5°	380.3	319.7	262.7	210.9	173.7	144.3	121.9	108.9	102.8	99.3	95.9
25°	486.5	406.1	328.4	255.8	195.3	153.9	124.5	107.2	100.3	95.9	92.5
27.5°	611.0	514.1	417.4	315.4	228.2	167.6	127.9	105.4	97.7	92.5	89.0
30°	752.7	645.5	527.2	394.9	271.4	185.8	134.0	104.6	94.2	89.0	84.7
32.5°	906.5	793.3	663.7	496.9	335.3	213.5	141.8	103.7	90.7	84.7	79.5
35°	1089.7	984.3	826.1	640.4	434.7	261.0	159.0	105.4	87.3	80.4	74.3
37.5°	1290.2	1177.9	1010.2	792.5	533.2	314.5	172.0	102.8	81.2	74.3	68.3
40°	1492.4	1363.6	1193.4	952.3	658.5	380.3	188.4	100.3	75.2	68.3	62.2
42.5°	1689.5	1553.8	1368.8	1116.5	790.7	458.0	209.1	100.3	70.9	62.2	56.2
45°	1896.0	1732.7	1530.4	1273.8	922.1	547.0	238.5	99.3	65.7	57.0	50.1
47.5°	2091.3	1897.7	1665.2	1412.1	1062.9	644.7	272.2	100.3	61.4	51.8	45.8
50°	2276.2	2054.2	1803.5	1535.6	1197.8	750.1	313.7	101.1	57.0	47.5	41.5
52.5°	2478.4	2232.2	1952.2	1662.7	1330.8	856.4	362.0	102.8	52.7	43.2	38.0
55°	2729.0	2456.0	2135.4	1818.2	1471.7	963.5	408.7	104.6	48.4	39.7	34.6
57.5°	3090.3	2779.2	2432.7	2051.5	1658.3	1085.4	457.1	108.9	44.9	37.1	32.0
60°	3677.9	3307.2	2907.1	2457.7	1937.5	1250.4	527.2	118.4	40.7	33.7	30.2
62.5°	4384.8	3938.9	3429.9	2884.6	2200.2	1362.0	573.8	128.7	37.1	31.1	28.6
65°	4740.9	4179.2	3592.4	3003.8	2233.9	1329.1	554.8	125.3	32.8	27.6	24.2
66°	4751.2	4166.2	3569.9	2978.0	2199.4	1289.3	536.7	123.5	32.0	26.8	22.5
67.5°	4652.7	4054.7	3450.6	2860.4	2097.3	1212.5	503.8	117.5	29.4	24.2	19.9
70°	4166.2	3583.7	3029.8	2484.5	1804.4	1021.5	422.6	103.7	26.0	21.6	18.1
72.5°	3321.0	2846.6	2379.9	1954.8	1402.5	766.5	333.6	84.7	22.5	19.0	15.5
75°	2319.5	1929.7	1574.5	1271.2	881.5	458.9	216.0	59.6	19.0	15.5	12.9
77.5°	1294.5	1026.6	776.0	591.1	351.7	143.4	71.7	30.2	16.5	12.1	10.3
80°	658.5	488.3	371.6	274.0	162.4	74.3	36.3	19.9	12.9	9.5	8.7
82.5°	382.8	280.8	223.8	177.1	111.4	56.2	29.4	14.7	8.7	6.9	7.8
85°	85.6	113.2	95.9	81.2	59.6	35.4	20.7	9.5	6.0	6.0	6.9
87.5°	6.9	9.5	8.7	11.3	12.1	11.3	8.7	5.2	4.3	5.2	5.2
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°	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3
2.5°	121.9	121.0	121.0	120.1	119.3	119.3	119.3	118.4	119.3	119.3	119.3
5°	118.4	117.5	116.7	115.8	115.0	114.0	114.0	113.2	113.2	113.2	114.0
7.5°	115.0	113.2	112.4	110.6	109.8	108.9	108.9	108.0	108.0	108.0	108.0
10°	110.6	108.9	107.2	106.3	105.4	103.7	103.7	102.8	102.0	102.0	102.0
12.5°	107.2	105.4	103.7	102.0	100.3	99.3	98.5	97.7	96.7	96.7	96.7
15°	103.7	101.1	99.3	97.7	95.9	94.2	93.3	92.5	91.6	90.7	90.7
17.5°	100.3	97.7	95.1	93.3	91.6	89.9	89.0	86.4	86.4	85.6	85.6
20°	95.9	93.3	90.7	89.0	87.3	85.6	83.8	82.1	80.4	79.5	79.5
22.5°	92.5	89.9	87.3	84.7	82.1	79.5	77.8	76.1	75.2	74.3	73.5
25°	89.0	85.6	82.1	79.5	76.9	74.3	72.6	70.9	69.1	68.3	68.3
27.5°	84.7	81.2	77.8	74.3	71.7	69.1	67.4	64.8	63.9	63.1	62.2
30°	80.4	76.1	72.6	69.1	66.5	63.1	61.4	59.6	57.9	57.9	57.0
32.5°	75.2	70.9	67.4	63.9	60.5	57.9	56.2	54.4	53.6	51.8	51.8
35°	70.0	65.7	61.4	57.9	55.3	52.7	51.0	49.3	47.5	46.7	46.7
37.5°	63.9	59.6	56.2	52.7	50.1	47.5	45.8	44.1	43.2	42.3	41.5
40°	57.0	52.7	50.1	47.5	44.9	43.2	40.7	38.9	38.0	37.1	36.3
42.5°	51.0	46.7	44.9	43.2	40.7	38.9	36.3	34.6	32.8	32.0	31.1
45°	45.8	42.3	40.7	38.9	36.3	33.7	32.0	30.2	28.6	27.6	27.6
47.5°	40.7	38.0	36.3	34.6	32.0	30.2	27.6	26.8	25.0	25.0	25.0
50°	37.1	34.6	32.8	31.1	29.4	26.8	25.0	24.2	23.3	23.3	24.2
52.5°	34.6	32.0	30.2	28.6	26.8	25.0	23.3	22.5	22.5	23.3	24.2
55°	32.0	29.4	27.6	26.0	24.2	23.3	21.6	21.6	22.5	23.3	24.2
57.5°	30.2	26.8	25.0	24.2	22.5	21.6	21.6	21.6	22.5	23.3	25.0
60°	27.6	24.2	22.5	22.5	20.7	20.7	20.7	21.6	22.5	24.2	25.0
62.5°	24.2	21.6	20.7	20.7	19.9	19.9	20.7	21.6	23.3	24.2	25.0
65°	20.7	19.0	19.0	19.0	19.0	19.9	20.7	21.6	22.5	24.2	25.0
66°	19.0	18.1	18.1	19.0	19.0	19.9	20.7	21.6	22.5	23.3	24.2
67.5°	18.1	17.3	17.3	18.1	19.0	19.0	19.9	21.6	22.5	23.3	23.3
70°	15.5	15.5	15.5	17.3	18.1	19.0	19.9	20.7	21.6	22.5	23.3
72.5°	13.9	13.9	14.7	15.5	17.3	18.1	19.0	19.9	21.6	22.5	22.5
75°	12.1	12.1	13.9	14.7	16.5	17.3	19.0	19.9	20.7	21.6	21.6
77.5°	10.3	11.3	12.9	14.7	15.5	17.3	18.1	19.0	19.9	20.7	20.7
80°	9.5	11.3	12.9	13.9	14.7	15.5	16.5	18.1	19.0	19.9	20.7
82.5°	9.5	10.3	12.1	12.9	13.9	15.5	16.5	17.3	18.1	19.0	19.9
85°	7.8	9.5	10.3	12.1	12.9	14.7	15.5	15.5	16.5	17.3	18.1
87.5°	6.0	6.9	6.9	8.7	9.5	11.3	12.9	12.9	13.9	14.7	15.5
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°	125.3	125.3	125.3	125.3
2.5°	119.3	120.1	120.1	120.1
5°	114.0	114.0	114.0	114.0
7.5°	108.0	108.0	108.0	108.0
10°	102.0	102.0	102.8	102.0
12.5°	96.7	95.9	95.9	95.9
15°	90.7	90.7	89.9	90.7
17.5°	84.7	84.7	83.8	83.8
20°	78.6	78.6	78.6	78.6
22.5°	73.5	72.6	72.6	72.6
25°	67.4	67.4	67.4	67.4
27.5°	62.2	62.2	62.2	62.2
30°	57.0	57.0	56.2	56.2
32.5°	51.8	51.8	51.8	51.8
35°	46.7	46.7	45.8	45.8
37.5°	40.7	40.7	40.7	40.7
40°	35.4	35.4	35.4	35.4
42.5°	31.1	31.1	30.2	30.2
45°	26.8	26.8	26.8	26.8
47.5°	25.0	25.0	25.0	25.0
50°	24.2	25.0	25.0	25.0
52.5°	25.0	25.0	25.0	25.0
55°	25.0	26.0	26.0	26.0
57.5°	25.0	26.0	26.0	26.8
60°	26.0	26.8	26.8	26.8
62.5°	26.0	26.8	26.8	26.8
65°	25.0	26.0	26.0	26.0
66°	25.0	25.0	25.0	26.0
67.5°	24.2	25.0	25.0	25.0
70°	23.3	24.2	24.2	25.0
72.5°	23.3	24.2	24.2	24.2
75°	22.5	22.5	23.3	23.3
77.5°	21.6	21.6	22.5	22.5
80°	20.7	21.6	21.6	21.6
82.5°	19.9	20.7	20.7	20.7
85°	18.1	19.0	19.0	19.0
87.5°	15.5	15.5	16.5	16.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)