

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: P181553

Luminaire Tested: **ICM-F04-LED-E1-T4-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181553
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-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5426.1 lumens
Efficiency: N/A
Efficacy: 53.1 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

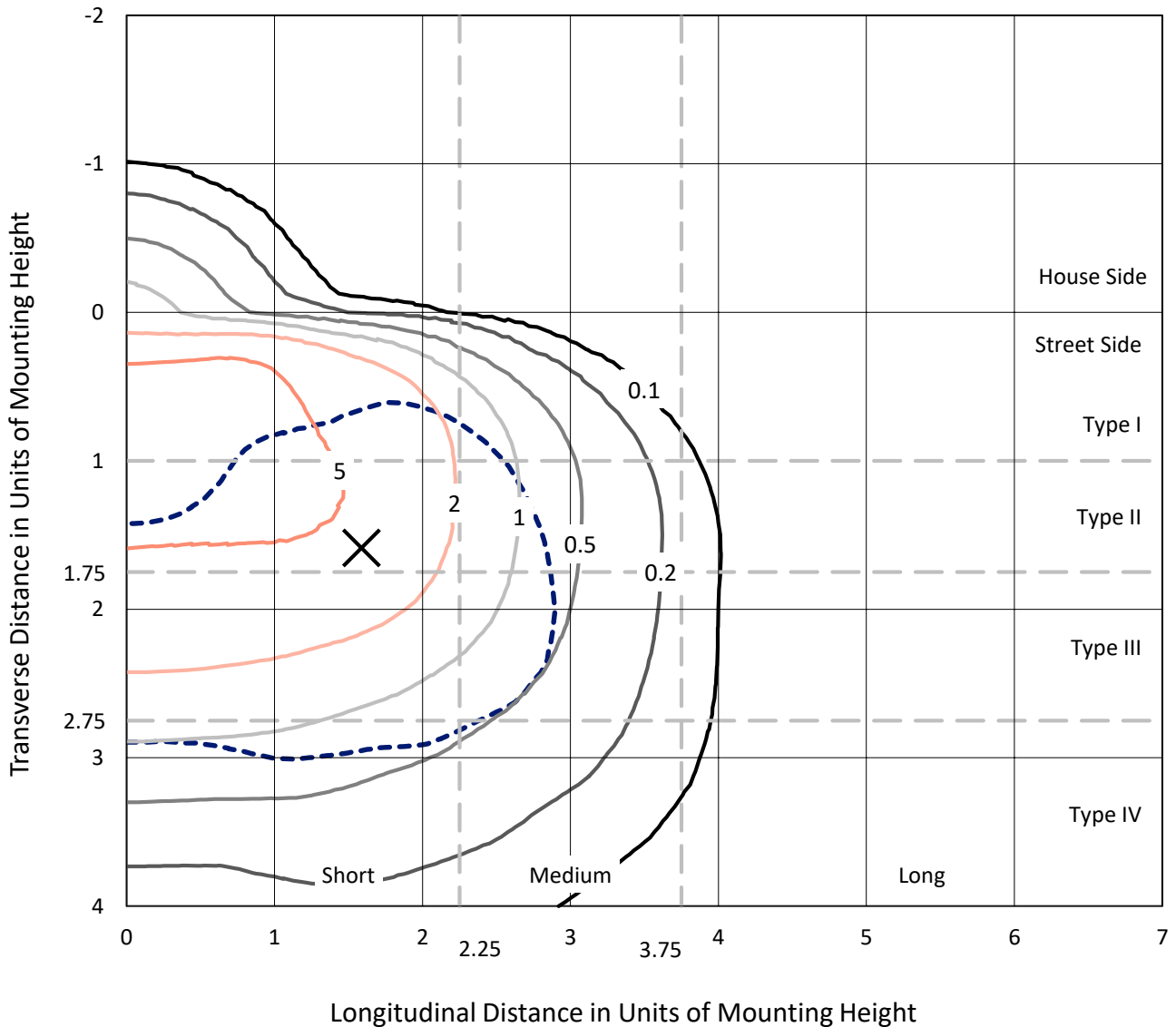
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

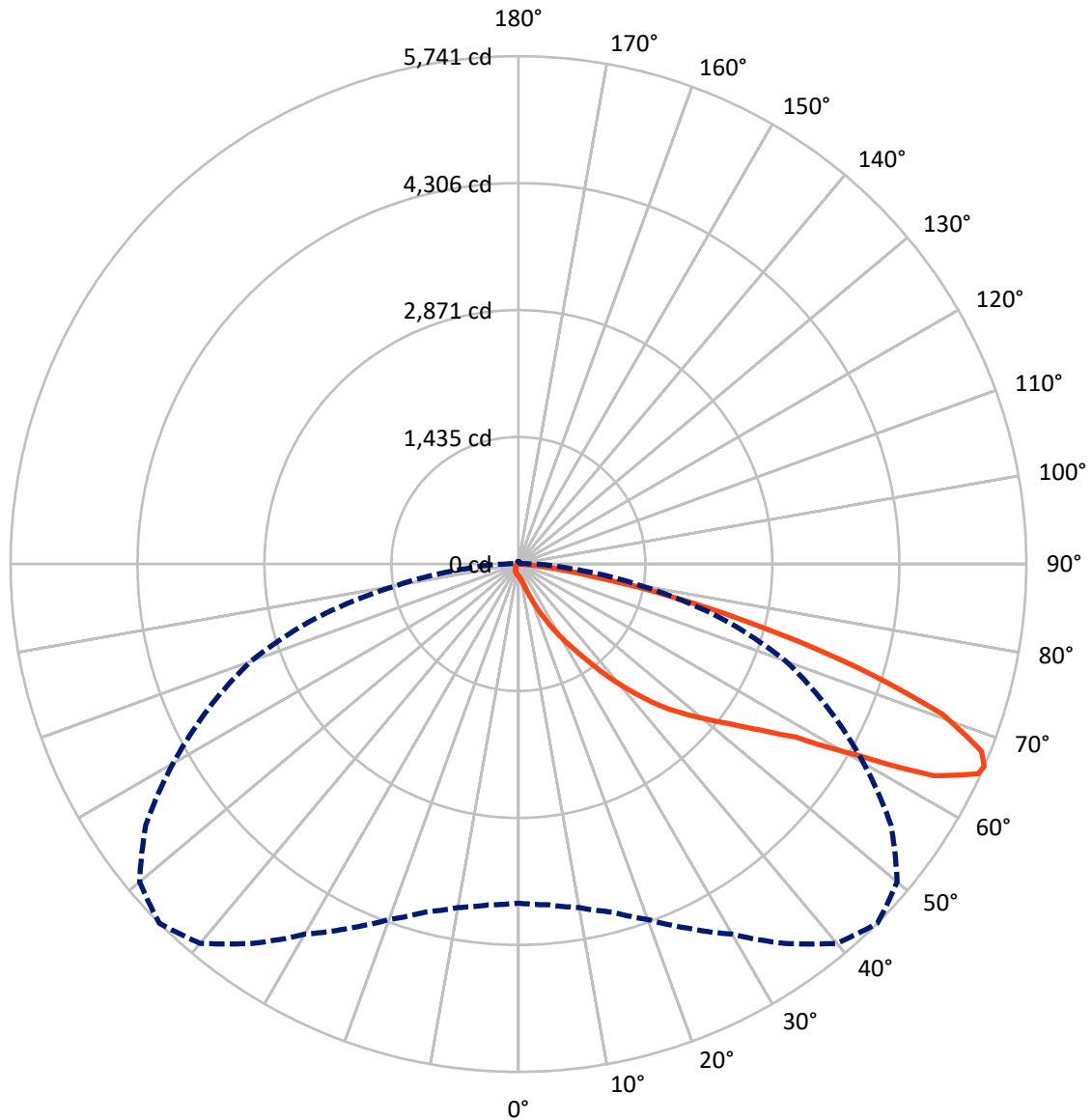
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.6 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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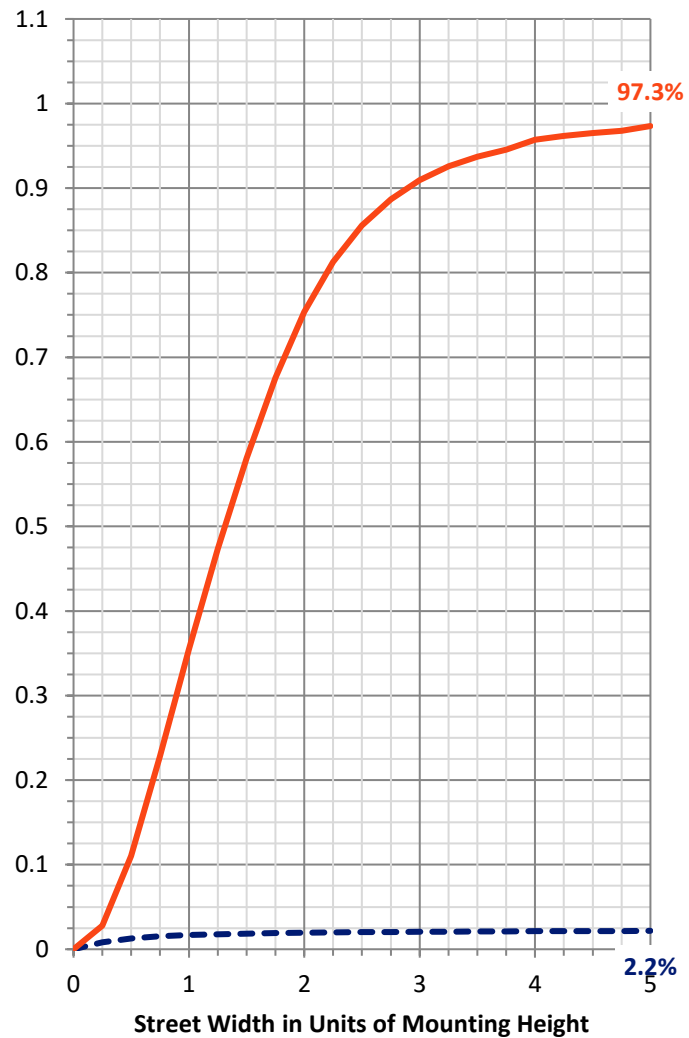
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	123.0	0.0	123.0
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	5303.1	0.0	5303.1
	% Fixture	97.7	0.0	97.7
Total	Lumens	5426.1	0.0	5426.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.6	0.3
10°-20°	55.3	1.0
20°-30°	162.1	3.0
30°-40°	378.7	7.0
40°-50°	711.3	13.1
50°-60°	1178.7	21.7
60°-70°	1871.2	34.5
70°-80°	967.7	17.8
80°-90°	87.4	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°	5426.1	100.0
0°-180°	5426.1	100.0



--- HS — SS

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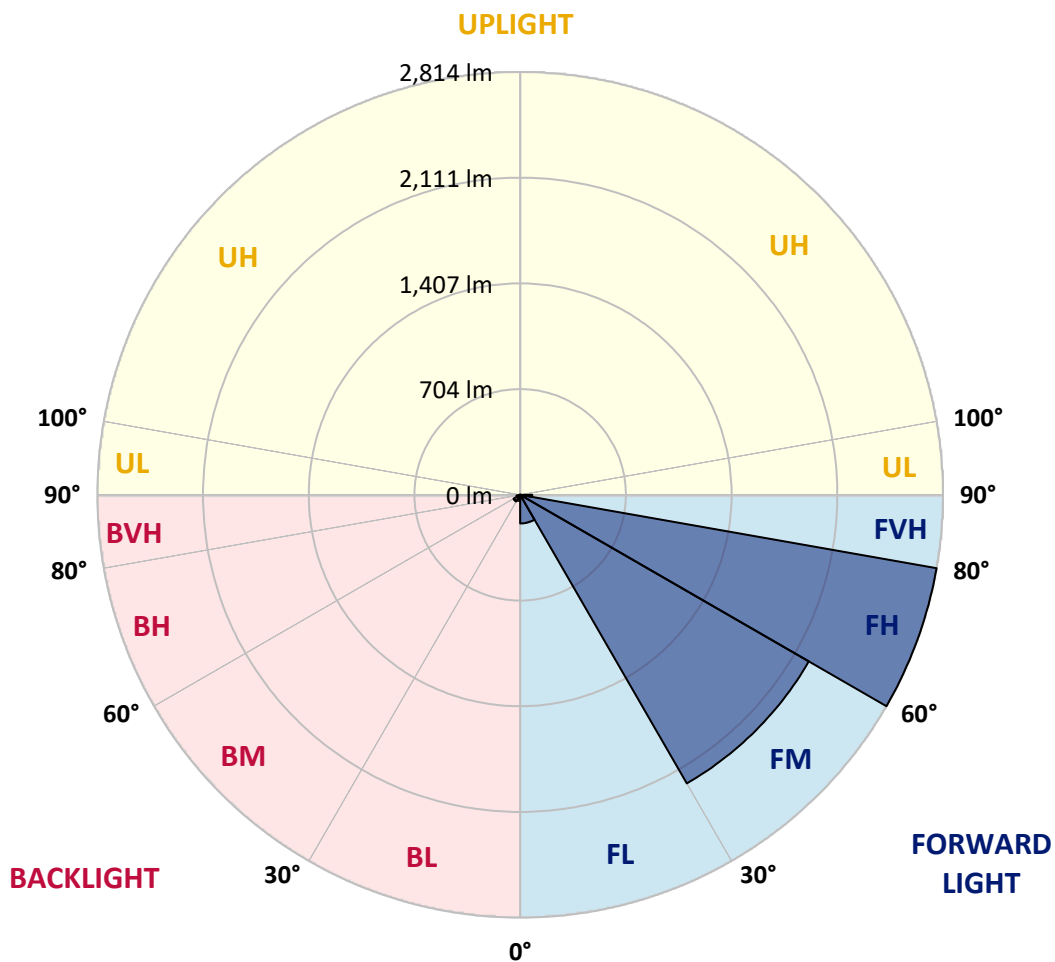
CATALOG NUMBER: ICM-F04-LED-E1-T4-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	190.9	3.5			
FM	(30°-60°)	2217.7	40.9			
FH	(60°-80°)	2814.0	51.9			G2/5000
FVH	(80°-90°)	80.5	1.5			G1/100
BL	(0°-30°)	40.2	0.7	B0/110		
BM	(30°-60°)	51.0	0.9	B0/220		
BH	(60°-80°)	24.9	0.5	B0/110		G0/110
BVH	(80°-90°)	6.9	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°	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6
2.5°	146.8	146.8	146.8	146.8	145.9	144.9	144.0	143.1	142.1	142.1	141.2
5°	166.4	167.4	166.4	165.5	163.6	162.7	159.9	158.0	155.3	154.3	151.5
7.5°	193.6	192.7	193.6	190.8	187.1	186.1	182.3	177.7	174.0	168.4	164.6
10°	232.8	231.9	232.8	227.3	221.7	216.9	210.4	204.8	196.4	189.9	182.3
12.5°	295.5	295.5	293.7	286.1	278.7	268.4	258.1	246.0	231.0	217.9	205.8
15°	391.8	387.2	378.8	374.0	361.0	345.1	333.9	309.6	288.0	267.4	243.2
17.5°	507.8	498.4	491.9	481.6	464.7	444.2	425.5	390.0	368.5	334.8	300.2
20°	640.6	629.4	627.5	611.6	593.9	571.4	544.3	502.2	465.8	423.6	375.0
22.5°	776.2	778.1	770.6	759.4	741.6	715.4	673.3	635.0	590.1	536.8	474.1
25°	927.7	926.8	920.2	907.2	894.1	861.3	827.6	791.2	737.9	669.6	594.8
27.5°	1069.9	1068.9	1053.0	1054.0	1028.8	1016.6	983.8	944.6	880.0	823.0	741.6
30°	1218.5	1209.2	1198.9	1191.4	1173.7	1152.2	1135.4	1088.6	1039.9	972.6	906.2
32.5°	1369.1	1358.8	1361.7	1352.3	1338.2	1316.8	1291.5	1253.1	1200.8	1135.4	1073.6
35°	1553.3	1548.7	1541.2	1544.0	1541.2	1525.3	1503.8	1453.3	1396.2	1333.6	1270.0
37.5°	1689.9	1685.2	1689.9	1709.5	1714.2	1724.5	1708.6	1683.4	1642.2	1574.0	1507.5
40°	1816.1	1817.0	1838.6	1862.9	1879.7	1913.4	1919.0	1908.8	1876.0	1813.3	1726.3
42.5°	1929.3	1943.4	1963.0	2003.2	2039.6	2087.4	2122.9	2128.5	2104.2	2063.0	1975.1
45°	2055.5	2067.7	2098.5	2146.2	2196.8	2255.6	2312.8	2342.6	2340.8	2311.8	2217.3
47.5°	2196.8	2212.7	2246.3	2285.6	2352.9	2419.4	2493.2	2546.5	2568.9	2528.8	2437.1
50°	2367.9	2374.4	2403.5	2454.0	2515.6	2592.4	2672.8	2750.4	2794.3	2756.9	2662.5
52.5°	2570.8	2572.7	2599.8	2646.6	2696.2	2780.3	2858.9	2966.4	3023.5	3002.9	2889.8
55°	2849.5	2843.9	2862.6	2902.8	2943.1	3024.4	3103.0	3224.6	3307.7	3309.6	3189.0
57.5°	3230.2	3217.0	3229.2	3261.0	3305.9	3381.7	3480.8	3588.3	3699.7	3692.1	3593.0
60°	3760.4	3755.7	3778.2	3831.5	3908.2	3986.7	4098.9	4243.9	4342.1	4375.7	4271.9
62.5°	4113.0	4126.1	4177.5	4259.8	4407.6	4570.3	4778.8	5000.5	5187.5	5271.7	5128.6
65°	3961.5	3983.0	4063.4	4185.0	4380.4	4624.5	4901.3	5265.1	5587.8	5715.8	5567.2
66°	3833.3	3867.9	3943.7	4072.8	4276.6	4543.2	4832.1	5234.3	5597.2	5741.2	5589.6
67.5°	3611.7	3636.0	3722.1	3865.1	4084.0	4347.7	4660.0	5084.7	5494.3	5646.7	5496.1
70°	3160.0	3169.3	3239.5	3361.0	3530.3	3800.6	4084.0	4492.7	4869.5	5083.7	4919.1
72.5°	2352.0	2365.1	2481.0	2702.7	2922.4	3075.8	3243.3	3570.5	3813.7	4013.9	3982.1
75°	1131.5	1137.2	1214.8	1538.4	1966.7	2150.0	2305.2	2558.7	2651.3	2818.6	2793.4
77.5°	717.3	729.5	779.9	858.5	1101.7	1319.5	1442.1	1587.0	1614.1	1755.4	1673.0
80°	197.3	229.1	279.6	411.4	706.1	841.7	896.8	891.3	896.8	853.9	825.8
82.5°	40.2	39.3	47.7	73.9	311.4	490.0	529.3	450.8	448.0	431.2	445.1
85°	10.3	9.4	11.3	23.3	53.3	144.9	182.3	102.0	77.6	73.9	65.5
87.5°	2.8	2.8	2.8	4.7	5.6	7.4	10.3	7.4	5.6	5.6	5.6
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°	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6
2.5°	140.3	140.3	139.3	138.4	138.4	137.5	136.6	135.6	134.7	133.8	132.8
5°	148.7	146.8	144.0	142.1	140.3	137.5	135.6	133.8	131.9	130.9	129.0
7.5°	159.9	155.3	151.5	145.9	142.1	138.4	134.7	131.9	129.0	127.2	125.3
10°	174.0	166.4	159.0	151.5	144.9	139.3	133.8	129.0	126.2	123.4	121.6
12.5°	191.7	180.5	170.2	159.0	148.7	140.3	132.8	127.2	123.4	120.7	117.9
15°	220.7	203.0	185.2	168.4	155.3	142.1	131.9	125.3	120.7	117.9	115.1
17.5°	266.5	234.7	206.7	183.3	161.8	144.9	131.9	123.4	117.9	114.0	111.3
20°	332.9	280.6	235.6	202.0	174.0	149.7	131.9	120.7	115.1	110.3	107.5
22.5°	411.4	346.0	284.3	228.2	188.0	156.2	131.9	117.9	111.3	107.5	103.8
25°	526.5	439.5	355.4	276.8	211.4	166.4	134.7	116.0	108.5	103.8	100.1
27.5°	661.2	556.5	451.7	341.3	246.9	181.4	138.4	114.0	105.7	100.1	96.3
30°	814.5	698.6	570.4	427.4	293.7	201.0	144.9	113.1	102.0	96.3	91.6
32.5°	981.0	858.5	718.2	537.8	362.9	231.0	153.4	112.2	98.2	91.6	86.0
35°	1179.3	1065.2	894.1	692.9	470.4	282.4	172.1	114.0	94.4	87.0	80.5
37.5°	1396.2	1274.7	1093.2	857.6	577.0	340.4	186.1	111.3	87.9	80.5	73.9
40°	1615.1	1475.7	1291.5	1030.6	712.7	411.4	203.9	108.5	81.4	73.9	67.3
42.5°	1828.3	1681.5	1481.3	1208.3	855.7	495.6	226.3	108.5	76.7	67.3	60.7
45°	2051.8	1875.1	1656.2	1378.4	997.9	592.0	258.1	107.5	71.1	61.8	54.2
47.5°	2263.2	2053.7	1802.2	1528.1	1150.2	697.7	294.6	108.5	66.4	56.1	49.6
50°	2463.3	2223.0	1951.7	1661.9	1296.2	811.7	339.4	109.4	61.8	51.4	44.9
52.5°	2682.2	2415.6	2112.6	1799.3	1440.2	926.8	391.8	111.3	57.0	46.8	41.1
55°	2953.3	2657.8	2310.9	1967.6	1592.7	1042.7	442.3	113.1	52.4	43.0	37.4
57.5°	3344.2	3007.6	2632.6	2220.1	1794.6	1174.6	494.7	117.9	48.7	40.2	34.6
60°	3980.2	3579.0	3146.0	2659.6	2096.7	1353.2	570.4	128.1	44.0	36.5	32.7
62.5°	4745.1	4262.6	3711.7	3121.7	2381.0	1473.9	620.9	139.3	40.2	33.7	30.9
65°	5130.4	4522.5	3887.6	3250.7	2417.5	1438.3	600.4	135.6	35.5	30.0	26.1
66°	5141.7	4508.6	3863.3	3222.6	2380.1	1395.3	580.7	133.8	34.6	29.0	24.3
67.5°	5035.1	4387.9	3734.3	3095.5	2269.7	1312.1	545.2	127.2	31.8	26.1	21.5
70°	4508.6	3878.3	3278.8	2688.7	1952.7	1105.4	457.3	112.2	28.1	23.3	19.6
72.5°	3594.0	3080.5	2575.6	2115.4	1517.8	829.5	361.0	91.6	24.3	20.6	16.8
75°	2510.1	2088.3	1703.9	1375.6	953.9	496.6	233.8	64.6	20.6	16.8	14.0
77.5°	1400.9	1111.0	839.8	639.6	380.7	155.3	77.6	32.7	17.8	13.1	11.3
80°	712.7	528.4	402.1	296.5	175.8	80.5	39.3	21.5	14.0	10.3	9.4
82.5°	414.3	303.9	242.2	191.7	120.7	60.7	31.8	15.9	9.4	7.4	8.4
85°	92.6	122.5	103.8	87.9	64.6	38.3	22.4	10.3	6.5	6.5	7.4
87.5°	7.4	10.3	9.4	12.2	13.1	12.2	9.4	5.6	4.7	5.6	5.6
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°	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6
2.5°	131.9	130.9	130.9	130.0	129.0	129.0	129.0	128.1	129.0	129.0	129.0
5°	128.1	127.2	126.2	125.3	124.4	123.4	123.4	122.5	122.5	122.5	123.4
7.5°	124.4	122.5	121.6	119.7	118.8	117.9	117.9	116.9	116.9	116.9	116.9
10°	119.7	117.9	116.0	115.1	114.0	112.2	112.2	111.3	110.3	110.3	110.3
12.5°	116.0	114.0	112.2	110.3	108.5	107.5	106.6	105.7	104.7	104.7	104.7
15°	112.2	109.4	107.5	105.7	103.8	102.0	101.0	100.1	99.2	98.2	98.2
17.5°	108.5	105.7	102.9	101.0	99.2	97.3	96.3	93.5	93.5	92.6	92.6
20°	103.8	101.0	98.2	96.3	94.4	92.6	90.7	88.8	87.0	86.0	86.0
22.5°	100.1	97.3	94.4	91.6	88.8	86.0	84.2	82.3	81.4	80.5	79.5
25°	96.3	92.6	88.8	86.0	83.3	80.5	78.5	76.7	74.8	73.9	73.9
27.5°	91.6	87.9	84.2	80.5	77.6	74.8	72.9	70.1	69.2	68.3	67.3
30°	87.0	82.3	78.5	74.8	72.0	68.3	66.4	64.6	62.7	62.7	61.8
32.5°	81.4	76.7	72.9	69.2	65.5	62.7	60.7	58.9	58.0	56.1	56.1
35°	75.7	71.1	66.4	62.7	59.8	57.0	55.2	53.3	51.4	50.5	50.5
37.5°	69.2	64.6	60.7	57.0	54.2	51.4	49.6	47.7	46.8	45.9	44.9
40°	61.8	57.0	54.2	51.4	48.7	46.8	44.0	42.0	41.1	40.2	39.3
42.5°	55.2	50.5	48.7	46.8	44.0	42.0	39.3	37.4	35.5	34.6	33.7
45°	49.6	45.9	44.0	42.0	39.3	36.5	34.6	32.7	30.9	30.0	30.0
47.5°	44.0	41.1	39.3	37.4	34.6	32.7	30.0	29.0	27.2	27.2	27.2
50°	40.2	37.4	35.5	33.7	31.8	29.0	27.2	26.1	25.2	25.2	26.1
52.5°	37.4	34.6	32.7	30.9	29.0	27.2	25.2	24.3	24.3	25.2	26.1
55°	34.6	31.8	30.0	28.1	26.1	25.2	23.3	23.3	24.3	25.2	26.1
57.5°	32.7	29.0	27.2	26.1	24.3	23.3	23.3	23.3	24.3	25.2	27.2
60°	30.0	26.1	24.3	24.3	22.4	22.4	22.4	23.3	24.3	26.1	27.2
62.5°	26.1	23.3	22.4	22.4	21.5	21.5	22.4	23.3	25.2	26.1	27.2
65°	22.4	20.6	20.6	20.6	20.6	21.5	22.4	23.3	24.3	26.1	27.2
66°	20.6	19.6	19.6	20.6	20.6	21.5	22.4	23.3	24.3	25.2	26.1
67.5°	19.6	18.7	18.7	19.6	20.6	20.6	21.5	23.3	24.3	25.2	25.2
70°	16.8	16.8	16.8	18.7	19.6	20.6	21.5	22.4	23.3	24.3	25.2
72.5°	15.0	15.0	15.9	16.8	18.7	19.6	20.6	21.5	23.3	24.3	24.3
75°	13.1	13.1	15.0	15.9	17.8	18.7	20.6	21.5	22.4	23.3	23.3
77.5°	11.3	12.2	14.0	15.9	16.8	18.7	19.6	20.6	21.5	22.4	22.4
80°	10.3	12.2	14.0	15.0	15.9	16.8	17.8	19.6	20.6	21.5	22.4
82.5°	10.3	11.3	13.1	14.0	15.0	16.8	17.8	18.7	19.6	20.6	21.5
85°	8.4	10.3	11.3	13.1	14.0	15.9	16.8	16.8	17.8	18.7	19.6
87.5°	6.5	7.4	7.4	9.4	10.3	12.2	14.0	14.0	15.0	15.9	16.8
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°	135.6	135.6	135.6	135.6
2.5°	129.0	130.0	130.0	130.0
5°	123.4	123.4	123.4	123.4
7.5°	116.9	116.9	116.9	116.9
10°	110.3	110.3	111.3	110.3
12.5°	104.7	103.8	103.8	103.8
15°	98.2	98.2	97.3	98.2
17.5°	91.6	91.6	90.7	90.7
20°	85.1	85.1	85.1	85.1
22.5°	79.5	78.5	78.5	78.5
25°	72.9	72.9	72.9	72.9
27.5°	67.3	67.3	67.3	67.3
30°	61.8	61.8	60.7	60.7
32.5°	56.1	56.1	56.1	56.1
35°	50.5	50.5	49.6	49.6
37.5°	44.0	44.0	44.0	44.0
40°	38.3	38.3	38.3	38.3
42.5°	33.7	33.7	32.7	32.7
45°	29.0	29.0	29.0	29.0
47.5°	27.2	27.2	27.2	27.2
50°	26.1	27.2	27.2	27.2
52.5°	27.2	27.2	27.2	27.2
55°	27.2	28.1	28.1	28.1
57.5°	27.2	28.1	28.1	29.0
60°	28.1	29.0	29.0	29.0
62.5°	28.1	29.0	29.0	29.0
65°	27.2	28.1	28.1	28.1
66°	27.2	27.2	27.2	28.1
67.5°	26.1	27.2	27.2	27.2
70°	25.2	26.1	26.1	27.2
72.5°	25.2	26.1	26.1	26.1
75°	24.3	24.3	25.2	25.2
77.5°	23.3	23.3	24.3	24.3
80°	22.4	23.3	23.3	23.3
82.5°	21.5	22.4	22.4	22.4
85°	19.6	20.6	20.6	20.6
87.5°	16.8	16.8	17.8	17.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)