

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: P181538

Luminaire Tested: **ICM-E03-LED-E1-T4-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181538
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-E03-LED-E1-T4-HSS-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4929.7 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

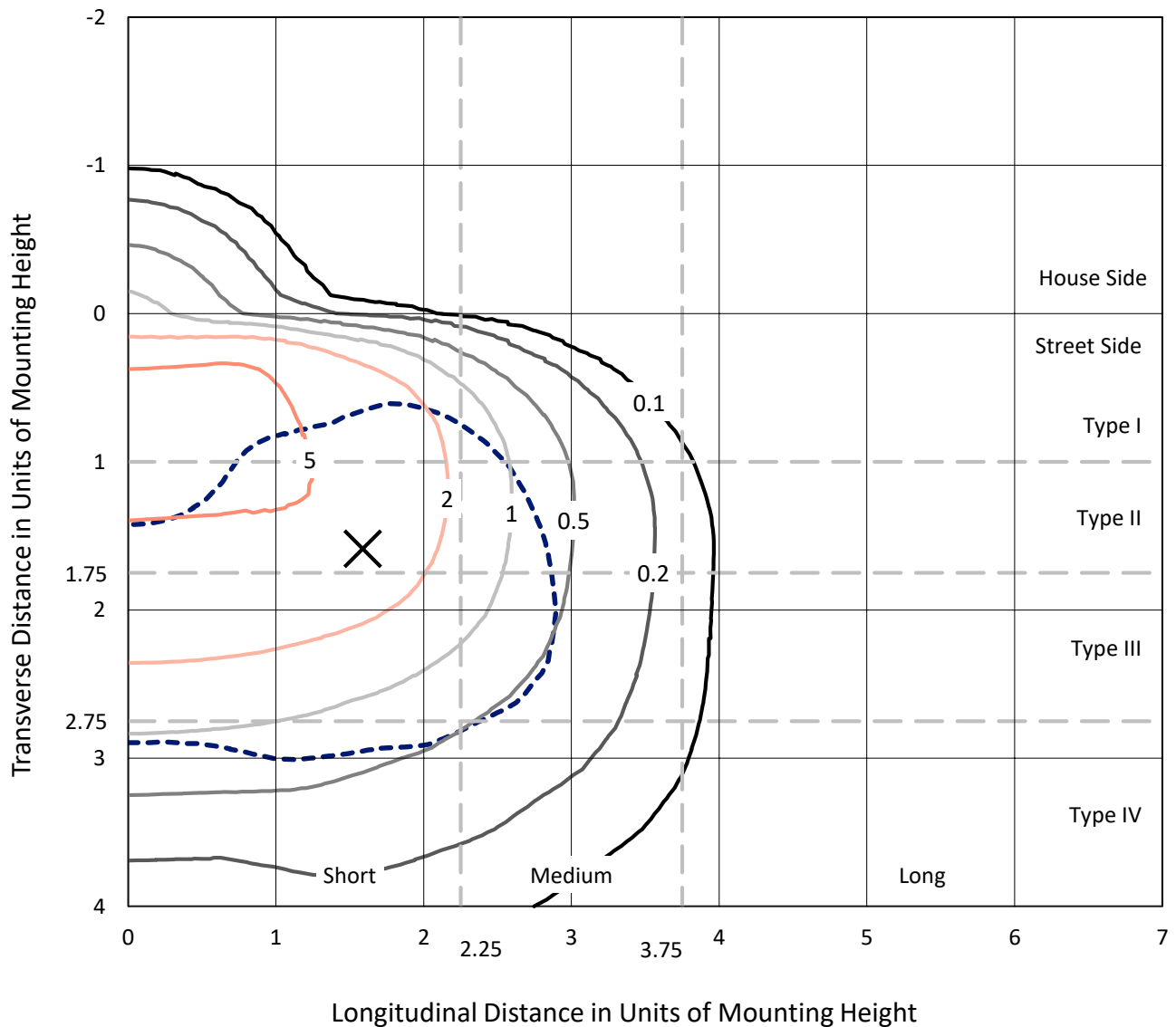
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

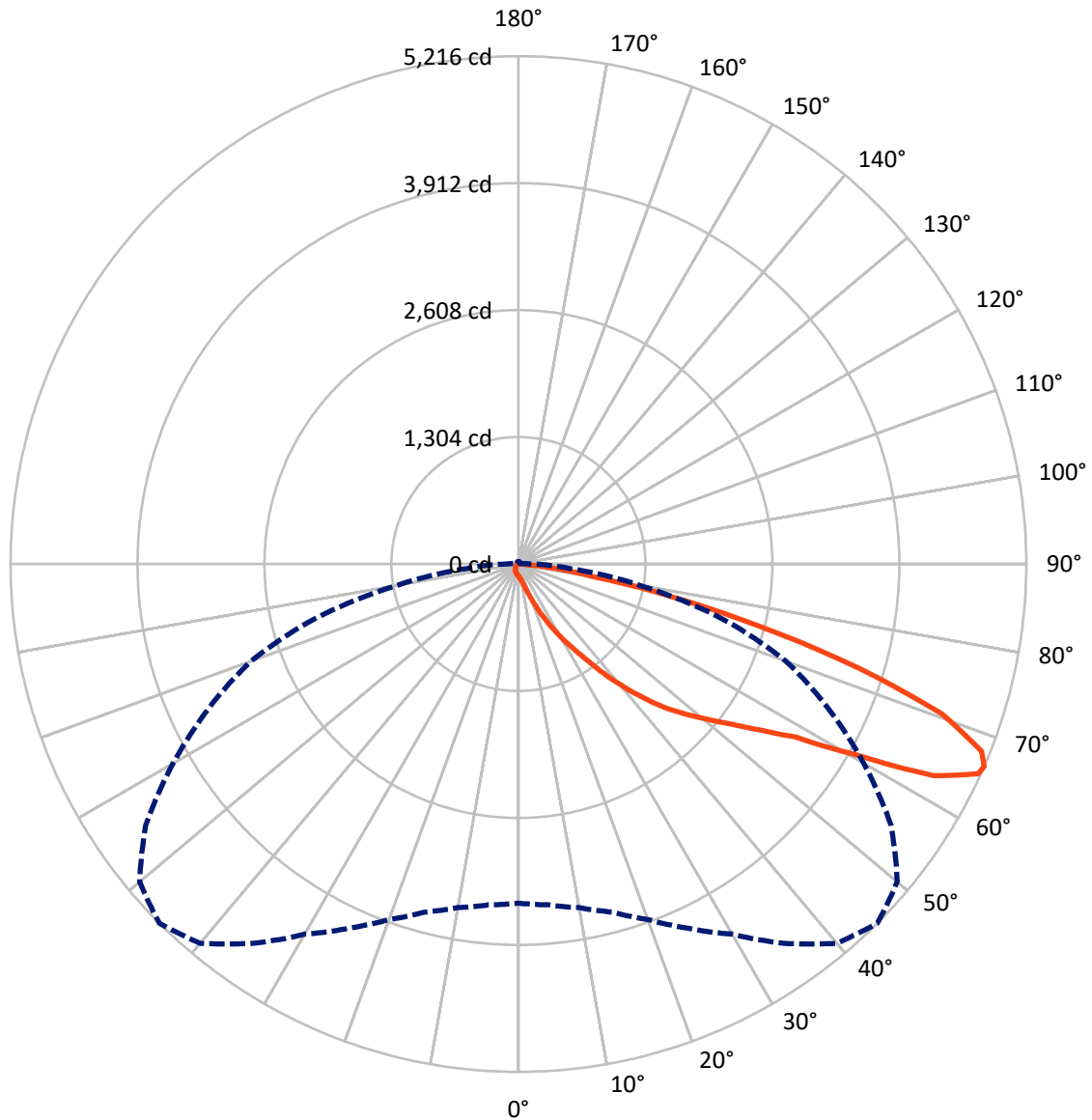
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 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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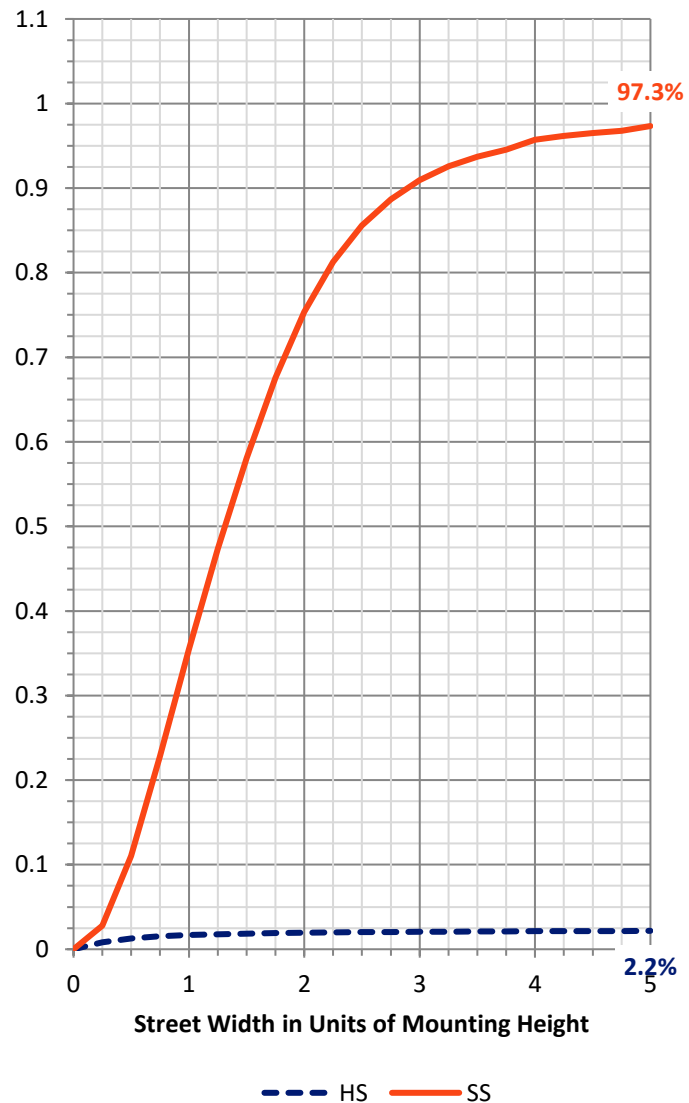
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	111.7	0.0	111.7
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	4817.9	0.0	4817.9
	% Fixture	97.7	0.0	97.7
Total	Lumens	4929.7	0.0	4929.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.4	0.3
10°-20°	50.3	1.0
20°-30°	147.3	3.0
30°-40°	344.0	7.0
40°-50°	646.2	13.1
50°-60°	1070.9	21.7
60°-70°	1700.0	34.5
70°-80°	879.2	17.8
80°-90°	79.4	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°	4929.7	100.0
0°-180°	4929.7	100.0



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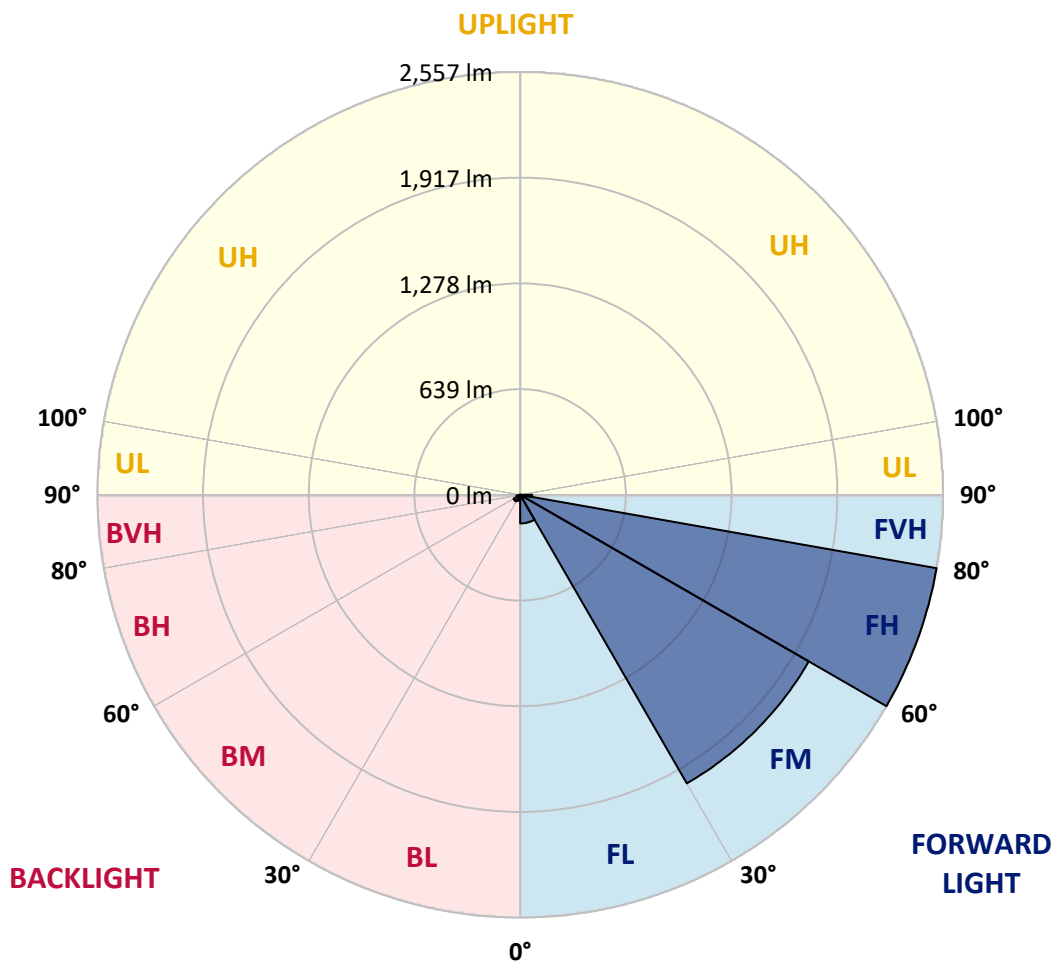
CATALOG NUMBER: ICM-E03-LED-E1-T4-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	173.5	3.5			
FM (30°-60°)	2014.8	40.9			
FH (60°-80°)	2556.6	51.9			G2/5000
FVH (80°-90°)	73.1	1.5			G1/100
BL (0°-30°)	36.5	0.7	B0/110		
BM (30°-60°)	46.4	0.9	B0/220		
BH (60°-80°)	22.6	0.5	B0/110		G0/110
BVH (80°-90°)	6.3	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2
2.5°	133.4	133.4	133.4	133.4	132.6	131.7	130.9	130.0	129.1	129.1	128.3
5°	151.3	152.1	151.3	150.4	148.7	147.8	145.3	143.6	141.0	140.2	137.7
7.5°	175.9	175.1	175.9	173.3	170.0	169.1	165.7	161.4	158.0	152.9	149.5
10°	211.5	210.7	211.5	206.4	201.4	197.1	191.2	186.0	178.4	172.5	165.7
12.5°	268.5	268.5	266.8	260.0	253.2	243.8	234.5	223.4	209.9	198.0	186.9
15°	356.0	351.7	344.1	339.8	328.0	313.5	303.4	281.2	261.7	243.0	220.9
17.5°	461.3	452.8	446.9	437.6	422.2	403.5	386.6	354.3	334.8	304.2	272.7
20°	582.0	571.8	570.1	555.6	539.5	519.2	494.5	456.3	423.1	384.8	340.7
22.5°	705.2	706.9	700.1	689.9	673.8	650.0	611.7	576.9	536.1	487.7	430.8
25°	842.8	842.0	836.0	824.1	812.3	782.5	751.9	718.8	670.3	608.4	540.4
27.5°	972.0	971.2	956.7	957.5	934.6	923.5	893.8	858.1	799.5	747.6	673.8
30°	1107.1	1098.6	1089.2	1082.4	1066.3	1046.7	1031.4	988.9	944.7	883.6	823.3
32.5°	1243.8	1234.5	1237.0	1228.6	1215.8	1196.3	1173.3	1138.5	1090.9	1031.4	975.4
35°	1411.3	1407.0	1400.2	1402.7	1400.2	1385.8	1366.2	1320.3	1268.5	1211.5	1153.8
37.5°	1535.3	1531.1	1535.3	1553.1	1557.4	1566.7	1552.3	1529.3	1491.9	1430.0	1369.6
40°	1650.0	1650.8	1670.3	1692.5	1707.7	1738.3	1743.5	1734.1	1704.4	1647.5	1568.4
42.5°	1752.8	1765.5	1783.4	1819.9	1853.0	1896.4	1928.7	1933.8	1911.6	1874.3	1794.4
45°	1867.5	1878.5	1906.6	1949.9	1995.8	2049.3	2101.1	2128.3	2126.6	2100.3	2014.5
47.5°	1995.8	2010.2	2040.8	2076.5	2137.7	2198.0	2265.1	2313.6	2334.0	2297.4	2214.2
50°	2151.3	2157.2	2183.5	2229.4	2285.5	2355.2	2428.3	2498.8	2538.7	2504.8	2418.9
52.5°	2335.6	2337.3	2362.0	2404.5	2449.5	2526.0	2597.3	2695.0	2746.9	2728.2	2625.4
55°	2588.9	2583.7	2600.8	2637.2	2673.8	2747.7	2819.1	2929.5	3005.1	3006.8	2897.2
57.5°	2934.6	2922.7	2933.8	2962.7	3003.5	3072.3	3162.3	3260.0	3361.1	3354.3	3264.3
60°	3416.4	3412.1	3432.5	3481.0	3550.6	3622.0	3723.9	3855.7	3944.9	3975.5	3881.1
62.5°	3736.7	3748.6	3795.3	3870.1	4004.3	4152.1	4341.6	4543.0	4713.0	4789.4	4659.4
65°	3599.1	3618.6	3691.7	3802.1	3979.7	4201.4	4453.0	4783.5	5076.6	5193.0	5057.9
66°	3482.6	3514.1	3582.9	3700.1	3885.4	4127.6	4390.1	4755.4	5085.1	5215.9	5078.3
67.5°	3281.3	3303.4	3381.5	3511.6	3710.3	3950.0	4233.7	4619.5	4991.6	5130.1	4993.3
70°	2870.9	2879.4	2943.1	3053.6	3207.4	3453.0	3710.3	4081.6	4424.0	4618.6	4469.1
72.5°	2136.9	2148.8	2254.1	2455.5	2655.1	2794.4	2946.5	3243.9	3464.8	3646.6	3617.7
75°	1028.1	1033.1	1103.6	1397.7	1786.8	1953.3	2094.3	2324.6	2408.7	2560.8	2537.9
77.5°	651.6	662.7	708.6	780.0	1000.8	1198.8	1310.1	1441.9	1466.4	1594.8	1520.0
80°	179.3	208.2	254.0	373.9	641.5	764.7	814.8	809.7	814.8	775.7	750.2
82.5°	36.6	35.7	43.3	67.2	282.9	445.2	480.9	409.5	407.0	391.7	404.5
85°	9.3	8.5	10.2	21.2	48.5	131.7	165.7	92.7	70.5	67.2	59.4
87.5°	2.5	2.5	2.5	4.3	5.1	6.8	9.3	6.8	5.1	5.1	5.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2
2.5°	127.4	127.4	126.6	125.8	125.8	124.9	124.0	123.2	122.3	121.5	120.7
5°	135.1	133.4	130.9	129.1	127.4	124.9	123.2	121.5	119.8	119.0	117.2
7.5°	145.3	141.0	137.7	132.6	129.1	125.8	122.3	119.8	117.2	115.5	113.9
10°	158.0	151.3	144.5	137.7	131.7	126.6	121.5	117.2	114.7	112.2	110.4
12.5°	174.1	164.0	154.6	144.5	135.1	127.4	120.7	115.5	112.2	109.6	107.1
15°	200.6	184.4	168.2	152.9	141.0	129.1	119.8	113.9	109.6	107.1	104.5
17.5°	242.1	213.3	187.8	166.5	147.0	131.7	119.8	112.2	107.1	103.6	101.1
20°	302.5	254.9	214.1	183.5	158.0	135.9	119.8	109.6	104.5	100.3	97.7
22.5°	373.9	314.3	258.3	207.4	170.8	141.9	119.8	107.1	101.1	97.7	94.3
25°	478.3	399.4	322.9	251.5	192.0	151.3	122.3	105.4	98.5	94.3	90.9
27.5°	600.7	505.5	410.3	310.1	224.3	164.8	125.8	103.6	96.0	90.9	87.5
30°	740.0	634.7	518.2	388.3	266.8	182.7	131.7	102.8	92.7	87.5	83.3
32.5°	891.3	780.0	652.6	488.6	329.7	209.9	139.3	102.0	89.2	83.3	78.1
35°	1071.4	967.7	812.3	629.6	427.4	256.6	156.4	103.6	85.8	79.0	73.0
37.5°	1268.5	1158.1	993.2	779.1	524.2	309.3	169.1	101.1	79.9	73.0	67.2
40°	1467.4	1340.8	1173.3	936.3	647.4	373.9	185.2	98.5	74.0	67.2	61.2
42.5°	1661.0	1527.6	1345.8	1097.7	777.4	450.3	205.6	98.5	69.7	61.2	55.3
45°	1864.1	1703.5	1504.7	1252.4	906.5	537.9	234.5	97.7	64.6	56.1	49.3
47.5°	2056.1	1865.8	1637.2	1388.3	1045.0	633.9	267.6	98.5	60.3	51.0	45.0
50°	2238.0	2019.5	1773.2	1509.8	1177.6	737.5	308.4	99.4	56.1	46.7	40.7
52.5°	2436.8	2194.6	1919.4	1634.7	1308.5	842.0	356.0	101.1	51.8	42.5	37.4
55°	2683.2	2414.6	2099.5	1787.6	1446.9	947.4	401.9	102.8	47.5	39.1	34.0
57.5°	3038.3	2732.4	2391.7	2017.0	1630.4	1067.2	449.5	107.1	44.2	36.6	31.4
60°	3616.0	3251.6	2858.2	2416.4	1904.8	1229.4	518.2	116.4	39.9	33.1	29.8
62.5°	4311.0	3872.7	3372.2	2836.1	2163.2	1339.0	564.2	126.6	36.6	30.6	28.0
65°	4661.1	4108.9	3531.9	2953.3	2196.3	1306.7	545.5	123.2	32.3	27.2	23.8
66°	4671.3	4096.1	3509.9	2927.8	2162.3	1267.6	527.6	121.5	31.4	26.3	22.0
67.5°	4574.4	3986.4	3392.6	2812.3	2062.1	1192.0	495.4	115.5	28.9	23.8	19.5
70°	4096.1	3523.5	2978.8	2442.7	1774.1	1004.3	415.4	102.0	25.5	21.2	17.9
72.5°	3265.1	2798.7	2339.9	1921.9	1379.0	753.6	328.0	83.3	22.0	18.7	15.3
75°	2280.4	1897.2	1548.0	1249.8	866.6	451.2	212.4	58.6	18.7	15.3	12.7
77.5°	1272.8	1009.4	763.0	581.1	345.8	141.0	70.5	29.8	16.2	11.9	10.2
80°	647.4	480.0	365.3	269.3	159.7	73.0	35.7	19.5	12.7	9.3	8.5
82.5°	376.4	276.1	220.1	174.1	109.6	55.3	28.9	14.4	8.5	6.8	7.6
85°	84.1	111.3	94.3	79.9	58.6	34.8	20.4	9.3	6.0	6.0	6.8
87.5°	6.8	9.3	8.5	11.1	11.9	11.1	8.5	5.1	4.3	5.1	5.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2
2.5°	119.8	119.0	119.0	118.1	117.2	117.2	117.2	116.4	117.2	117.2	117.2
5°	116.4	115.5	114.7	113.9	113.0	112.2	112.2	111.3	111.3	111.3	112.2
7.5°	113.0	111.3	110.4	108.7	107.9	107.1	107.1	106.2	106.2	106.2	106.2
10°	108.7	107.1	105.4	104.5	103.6	102.0	102.0	101.1	100.3	100.3	100.3
12.5°	105.4	103.6	102.0	100.3	98.5	97.7	96.8	96.0	95.2	95.2	95.2
15°	102.0	99.4	97.7	96.0	94.3	92.7	91.7	90.9	90.0	89.2	89.2
17.5°	98.5	96.0	93.5	91.7	90.0	88.4	87.5	84.9	84.9	84.1	84.1
20°	94.3	91.7	89.2	87.5	85.8	84.1	82.4	80.7	79.0	78.1	78.1
22.5°	90.9	88.4	85.8	83.3	80.7	78.1	76.5	74.8	74.0	73.0	72.2
25°	87.5	84.1	80.7	78.1	75.6	73.0	71.3	69.7	68.0	67.2	67.2
27.5°	83.3	79.9	76.5	73.0	70.5	68.0	66.2	63.7	62.9	62.0	61.2
30°	79.0	74.8	71.3	68.0	65.4	62.0	60.3	58.6	56.9	56.9	56.1
32.5°	74.0	69.7	66.2	62.9	59.4	56.9	55.3	53.5	52.7	51.0	51.0
35°	68.8	64.6	60.3	56.9	54.4	51.8	50.1	48.5	46.7	45.9	45.9
37.5°	62.9	58.6	55.3	51.8	49.3	46.7	45.0	43.3	42.5	41.7	40.7
40°	56.1	51.8	49.3	46.7	44.2	42.5	39.9	38.2	37.4	36.6	35.7
42.5°	50.1	45.9	44.2	42.5	39.9	38.2	35.7	34.0	32.3	31.4	30.6
45°	45.0	41.7	39.9	38.2	35.7	33.1	31.4	29.8	28.0	27.2	27.2
47.5°	39.9	37.4	35.7	34.0	31.4	29.8	27.2	26.3	24.7	24.7	24.7
50°	36.6	34.0	32.3	30.6	28.9	26.3	24.7	23.8	23.0	23.0	23.8
52.5°	34.0	31.4	29.8	28.0	26.3	24.7	23.0	22.0	22.0	23.0	23.8
55°	31.4	28.9	27.2	25.5	23.8	23.0	21.2	21.2	22.0	23.0	23.8
57.5°	29.8	26.3	24.7	23.8	22.0	21.2	21.2	21.2	22.0	23.0	24.7
60°	27.2	23.8	22.0	22.0	20.4	20.4	20.4	21.2	22.0	23.8	24.7
62.5°	23.8	21.2	20.4	20.4	19.5	19.5	20.4	21.2	23.0	23.8	24.7
65°	20.4	18.7	18.7	18.7	18.7	19.5	20.4	21.2	22.0	23.8	24.7
66°	18.7	17.9	17.9	18.7	18.7	19.5	20.4	21.2	22.0	23.0	23.8
67.5°	17.9	17.0	17.0	17.9	18.7	18.7	19.5	21.2	22.0	23.0	23.0
70°	15.3	15.3	15.3	17.0	17.9	18.7	19.5	20.4	21.2	22.0	23.0
72.5°	13.6	13.6	14.4	15.3	17.0	17.9	18.7	19.5	21.2	22.0	22.0
75°	11.9	11.9	13.6	14.4	16.2	17.0	18.7	19.5	20.4	21.2	21.2
77.5°	10.2	11.1	12.7	14.4	15.3	17.0	17.9	18.7	19.5	20.4	20.4
80°	9.3	11.1	12.7	13.6	14.4	15.3	16.2	17.9	18.7	19.5	20.4
82.5°	9.3	10.2	11.9	12.7	13.6	15.3	16.2	17.0	17.9	18.7	19.5
85°	7.6	9.3	10.2	11.9	12.7	14.4	15.3	15.3	16.2	17.0	17.9
87.5°	6.0	6.8	6.8	8.5	9.3	11.1	12.7	12.7	13.6	14.4	15.3
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°	123.2	123.2	123.2	123.2
2.5°	117.2	118.1	118.1	118.1
5°	112.2	112.2	112.2	112.2
7.5°	106.2	106.2	106.2	106.2
10°	100.3	100.3	101.1	100.3
12.5°	95.2	94.3	94.3	94.3
15°	89.2	89.2	88.4	89.2
17.5°	83.3	83.3	82.4	82.4
20°	77.3	77.3	77.3	77.3
22.5°	72.2	71.3	71.3	71.3
25°	66.2	66.2	66.2	66.2
27.5°	61.2	61.2	61.2	61.2
30°	56.1	56.1	55.3	55.3
32.5°	51.0	51.0	51.0	51.0
35°	45.9	45.9	45.0	45.0
37.5°	39.9	39.9	39.9	39.9
40°	34.8	34.8	34.8	34.8
42.5°	30.6	30.6	29.8	29.8
45°	26.3	26.3	26.3	26.3
47.5°	24.7	24.7	24.7	24.7
50°	23.8	24.7	24.7	24.7
52.5°	24.7	24.7	24.7	24.7
55°	24.7	25.5	25.5	25.5
57.5°	24.7	25.5	25.5	26.3
60°	25.5	26.3	26.3	26.3
62.5°	25.5	26.3	26.3	26.3
65°	24.7	25.5	25.5	25.5
66°	24.7	24.7	24.7	25.5
67.5°	23.8	24.7	24.7	24.7
70°	23.0	23.8	23.8	24.7
72.5°	23.0	23.8	23.8	23.8
75°	22.0	22.0	23.0	23.0
77.5°	21.2	21.2	22.0	22.0
80°	20.4	21.2	21.2	21.2
82.5°	19.5	20.4	20.4	20.4
85°	17.9	18.7	18.7	18.7
87.5°	15.3	15.3	16.2	16.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)