

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: P181599

Luminaire Tested: **ICS-E03-LED-E1-T4-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181599
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-E03-LED-E1-T4-HSS
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5222.2 lumens
Efficiency: N/A
Efficacy: 69.4 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

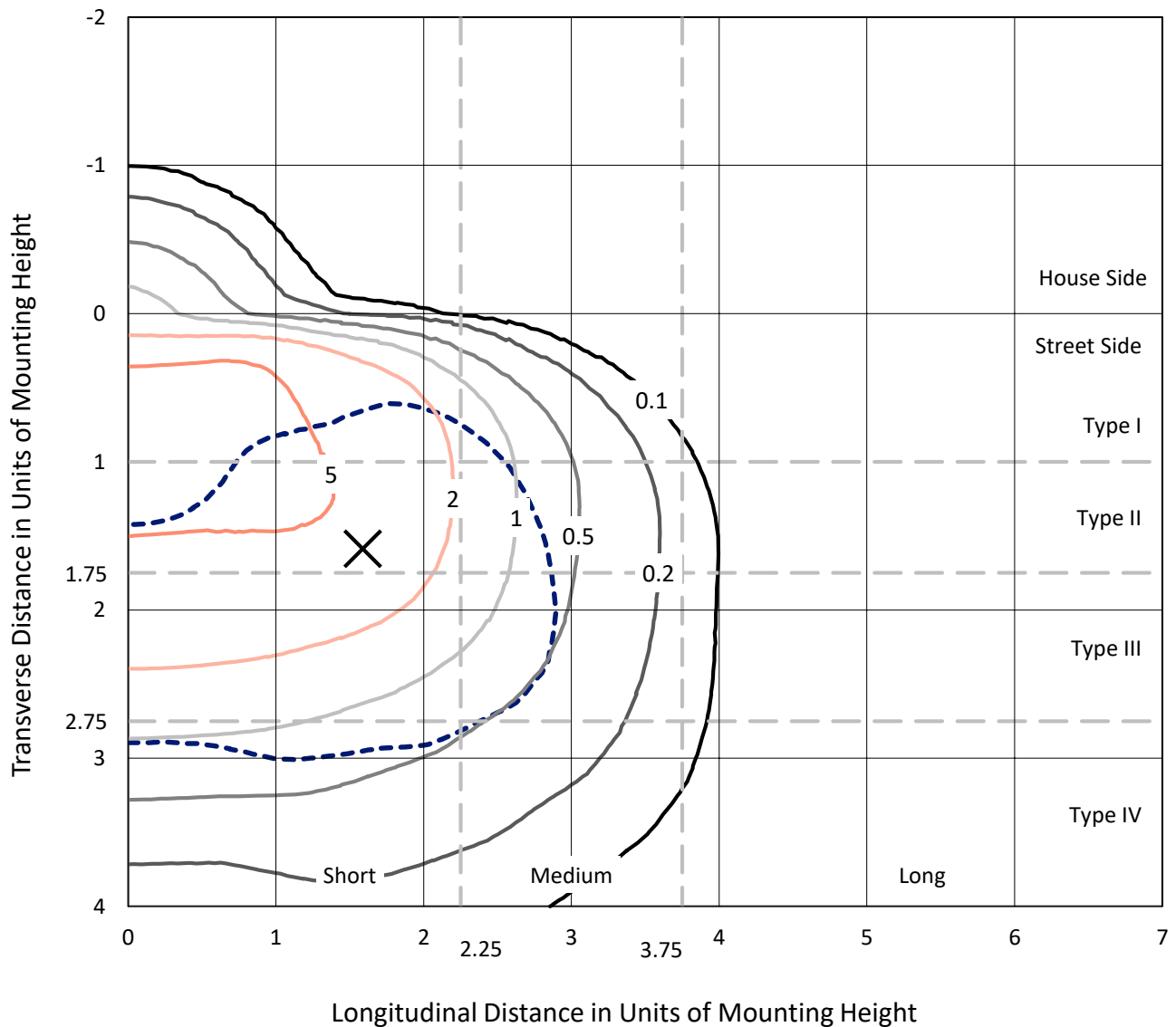
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

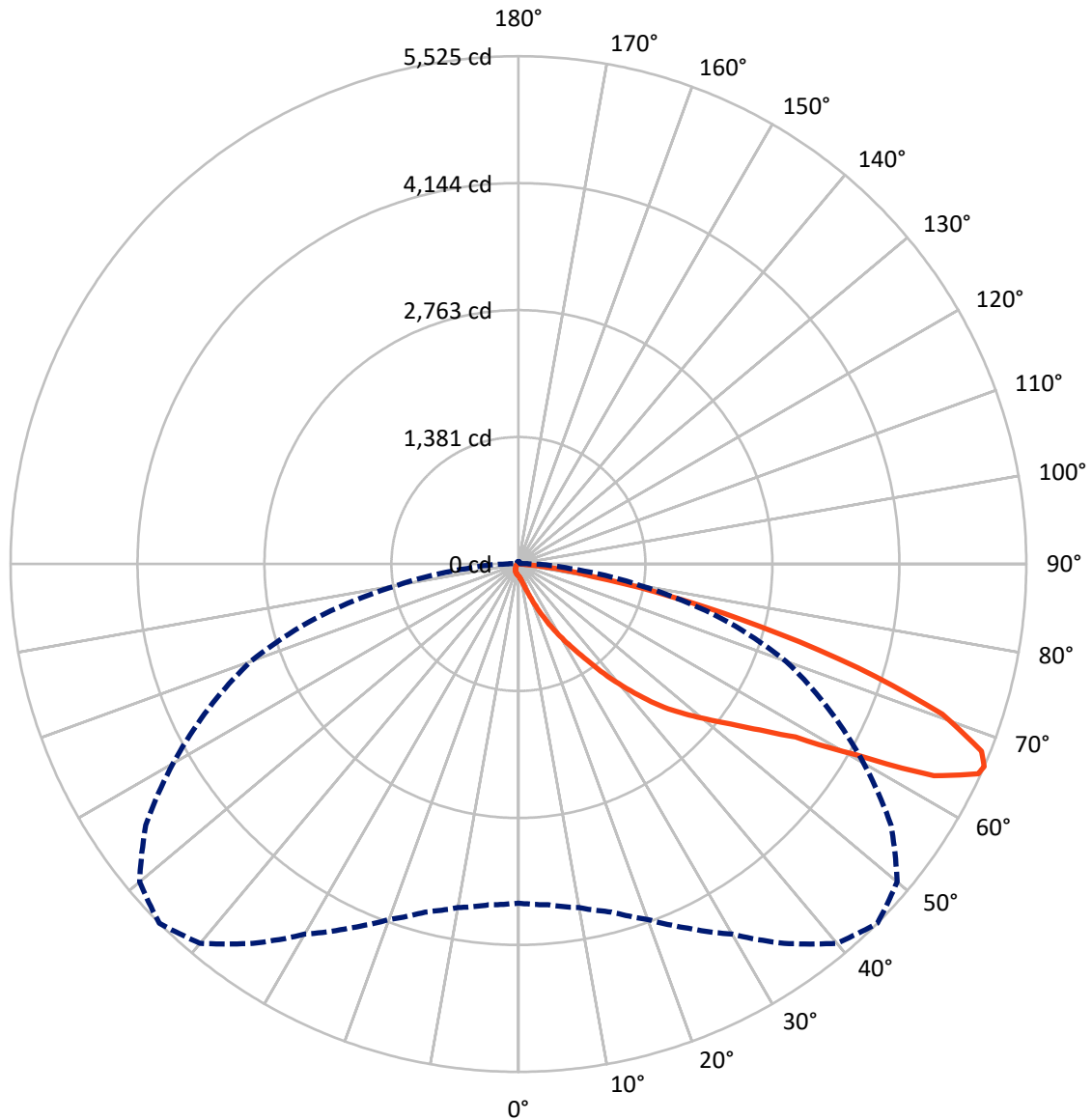
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 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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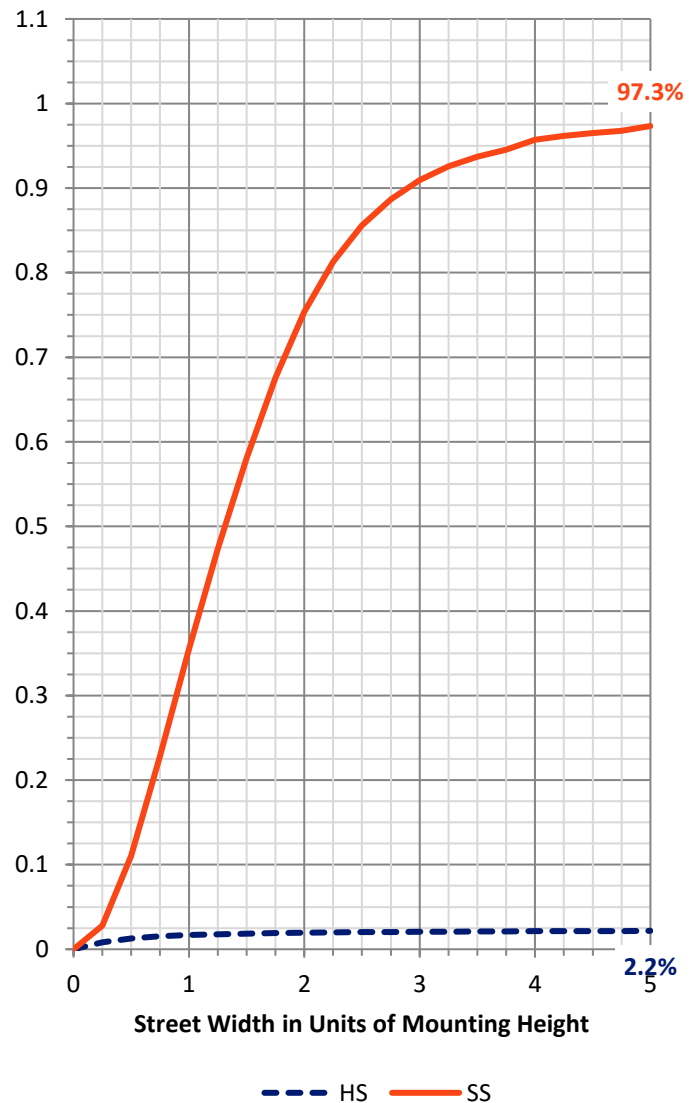
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	118.4	0.0	118.4
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	5103.8	0.0	5103.8
	% Fixture	97.7	0.0	97.7
Total	Lumens	5222.2	0.0	5222.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.1	0.3
10°-20°	53.3	1.0
20°-30°	156.0	3.0
30°-40°	364.4	7.0
40°-50°	684.5	13.1
50°-60°	1134.4	21.7
60°-70°	1800.9	34.5
70°-80°	931.3	17.8
80°-90°	84.1	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°	5222.2	100.0
0°-180°	5222.2	100.0



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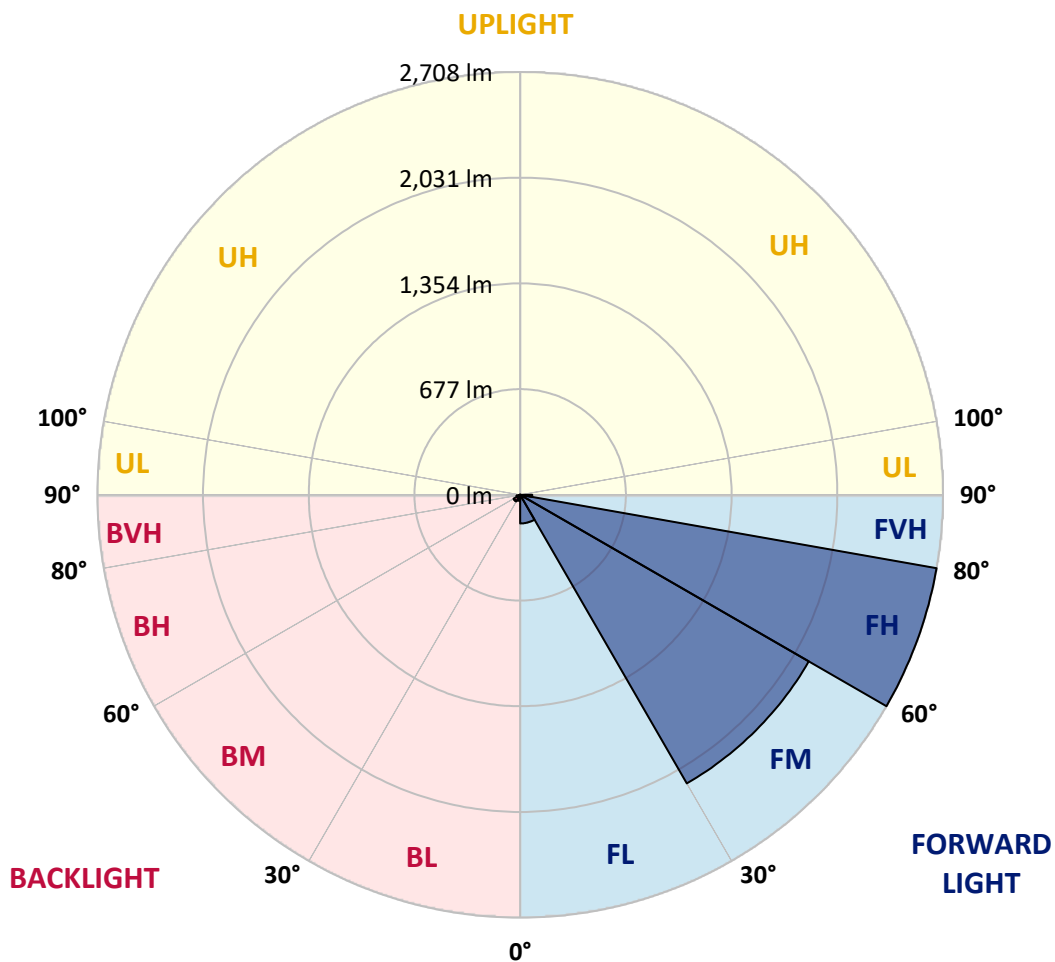
CATALOG NUMBER: ICS-E03-LED-E1-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	183.8	3.5			
FM	(30°-60°)	2134.3	40.9			
FH	(60°-80°)	2708.3	51.9			G2/5000
FVH	(80°-90°)	77.5	1.5			G1/100
BL	(0°-30°)	38.6	0.7	B0/110		
BM	(30°-60°)	49.1	0.9	B0/220		
BH	(60°-80°)	24.0	0.5	B0/110		G0/110
BVH	(80°-90°)	6.6	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°	130.5	130.5	130.5	130.5	130.5	130.5	130.5	130.5	130.5	130.5	130.5
2.5°	141.3	141.3	141.3	141.3	140.4	139.5	138.6	137.7	136.8	136.8	135.9
5°	160.2	161.1	160.2	159.3	157.5	156.6	153.9	152.1	149.4	148.5	145.8
7.5°	186.3	185.4	186.3	183.6	180.0	179.1	175.5	171.0	167.4	162.0	158.4
10°	224.1	223.2	224.1	218.7	213.3	208.8	202.5	197.1	189.0	182.7	175.5
12.5°	284.4	284.4	282.6	275.4	268.2	258.3	248.4	236.7	222.3	209.7	198.0
15°	377.1	372.6	364.5	360.0	347.4	332.1	321.3	297.9	277.2	257.4	234.0
17.5°	488.7	479.7	473.4	463.5	447.3	427.5	409.5	375.3	354.6	322.2	288.9
20°	616.5	605.7	603.9	588.6	571.5	549.9	523.8	483.3	448.2	407.7	360.9
22.5°	747.0	748.8	741.6	730.8	713.7	688.5	648.0	611.1	567.9	516.6	456.3
25°	892.8	891.9	885.6	873.0	860.4	828.9	796.5	761.4	710.1	644.4	572.4
27.5°	1029.7	1028.8	1013.5	1014.4	990.1	978.4	946.9	909.0	846.9	792.0	713.7
30°	1172.8	1163.8	1153.9	1146.7	1129.6	1108.9	1092.7	1047.7	1000.9	936.1	872.1
32.5°	1317.7	1307.8	1310.5	1301.5	1288.0	1267.3	1243.0	1206.1	1155.7	1092.7	1033.3
35°	1495.0	1490.5	1483.3	1486.0	1483.3	1468.0	1447.3	1398.7	1343.8	1283.5	1222.3
37.5°	1626.4	1621.9	1626.4	1645.3	1649.8	1659.7	1644.4	1620.1	1580.5	1514.8	1450.9
40°	1747.9	1748.8	1769.5	1792.9	1809.1	1841.5	1846.9	1837.0	1805.5	1745.2	1661.5
42.5°	1856.8	1870.3	1889.2	1927.9	1963.0	2008.9	2043.1	2048.5	2025.1	1985.5	1900.9
45°	1978.3	1990.0	2019.7	2065.6	2114.2	2170.9	2225.8	2254.6	2252.8	2224.9	2134.0
47.5°	2114.2	2129.5	2161.9	2199.7	2264.5	2328.4	2399.5	2450.8	2472.4	2433.7	2345.5
50°	2278.9	2285.2	2313.1	2361.7	2421.1	2494.9	2572.3	2647.0	2689.3	2653.3	2562.4
52.5°	2474.2	2476.0	2502.1	2547.1	2594.8	2675.8	2751.4	2855.0	2909.9	2890.1	2781.2
55°	2742.4	2737.0	2755.0	2793.8	2832.5	2910.8	2986.4	3103.4	3183.5	3185.3	3069.2
57.5°	3108.8	3096.2	3107.9	3138.5	3181.7	3254.6	3350.0	3453.5	3560.6	3553.4	3458.0
60°	3619.1	3614.6	3636.2	3687.5	3761.3	3836.9	3944.9	4084.4	4178.9	4211.3	4111.4
62.5°	3958.4	3971.0	4020.5	4099.7	4241.9	4398.5	4599.3	4812.6	4992.6	5073.6	4935.9
65°	3812.6	3833.3	3910.7	4027.7	4215.8	4450.7	4717.2	5067.3	5377.8	5501.1	5358.0
66°	3689.3	3722.6	3795.5	3919.7	4115.9	4372.4	4650.6	5037.6	5386.8	5525.4	5379.6
67.5°	3476.0	3499.4	3582.2	3719.9	3930.5	4184.3	4484.9	4893.6	5287.8	5434.5	5289.6
70°	3041.3	3050.3	3117.8	3234.8	3397.7	3657.8	3930.5	4323.8	4686.6	4892.7	4734.3
72.5°	2263.6	2276.2	2387.8	2601.1	2812.7	2960.3	3121.4	3436.4	3670.4	3863.0	3832.4
75°	1089.1	1094.5	1169.2	1480.6	1892.8	2069.2	2218.6	2462.5	2551.6	2712.7	2688.4
77.5°	690.3	702.0	750.6	826.2	1060.3	1270.0	1387.9	1527.4	1553.5	1689.4	1610.2
80°	189.9	220.5	269.1	396.0	679.5	810.0	863.1	857.7	863.1	821.7	794.7
82.5°	38.7	37.8	45.9	71.1	299.7	471.6	509.4	433.8	431.1	414.9	428.4
85°	9.9	9.0	10.8	22.5	51.3	139.5	175.5	98.1	74.7	71.1	63.0
87.5°	2.7	2.7	2.7	4.5	5.4	7.2	9.9	7.2	5.4	5.4	5.4
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°	130.5	130.5	130.5	130.5	130.5	130.5	130.5	130.5	130.5	130.5	130.5
2.5°	135.0	135.0	134.1	133.2	133.2	132.3	131.4	130.5	129.6	128.7	127.8
5°	143.1	141.3	138.6	136.8	135.0	132.3	130.5	128.7	126.9	126.0	124.2
7.5°	153.9	149.4	145.8	140.4	136.8	133.2	129.6	126.9	124.2	122.4	120.6
10°	167.4	160.2	153.0	145.8	139.5	134.1	128.7	124.2	121.5	118.8	117.0
12.5°	184.5	173.7	163.8	153.0	143.1	135.0	127.8	122.4	118.8	116.1	113.4
15°	212.4	195.3	178.2	162.0	149.4	136.8	126.9	120.6	116.1	113.4	110.7
17.5°	256.5	225.9	198.9	176.4	155.7	139.5	126.9	118.8	113.4	109.8	107.1
20°	320.4	270.0	226.8	194.4	167.4	144.0	126.9	116.1	110.7	106.2	103.5
22.5°	396.0	333.0	273.6	219.6	180.9	150.3	126.9	113.4	107.1	103.5	99.9
25°	506.7	423.0	342.0	266.4	203.4	160.2	129.6	111.6	104.4	99.9	96.3
27.5°	636.3	535.5	434.7	328.5	237.6	174.6	133.2	109.8	101.7	96.3	92.7
30°	783.9	672.3	549.0	411.3	282.6	193.5	139.5	108.9	98.1	92.7	88.2
32.5°	944.2	826.2	691.2	517.5	349.2	222.3	147.6	108.0	94.5	88.2	82.8
35°	1135.0	1025.2	860.4	666.9	452.7	271.8	165.6	109.8	90.9	83.7	77.4
37.5°	1343.8	1226.8	1052.2	825.3	555.3	327.6	179.1	107.1	84.6	77.4	71.1
40°	1554.4	1420.3	1243.0	991.9	685.8	396.0	196.2	104.4	78.3	71.1	64.8
42.5°	1759.6	1618.3	1425.7	1162.9	823.5	477.0	217.8	104.4	73.8	64.8	58.5
45°	1974.7	1804.6	1594.0	1326.7	960.4	569.7	248.4	103.5	68.4	59.4	52.2
47.5°	2178.1	1976.5	1734.4	1470.7	1107.1	671.4	283.5	104.4	63.9	54.0	47.7
50°	2370.7	2139.4	1878.4	1599.4	1247.5	781.2	326.7	105.3	59.4	49.5	43.2
52.5°	2581.3	2324.8	2033.2	1731.7	1386.1	891.9	377.1	107.1	54.9	45.0	39.6
55°	2842.4	2557.9	2224.0	1893.7	1532.8	1003.6	425.7	108.9	50.4	41.4	36.0
57.5°	3218.6	2894.6	2533.6	2136.7	1727.2	1130.5	476.1	113.4	46.8	38.7	33.3
60°	3830.6	3444.5	3027.8	2559.7	2017.9	1302.4	549.0	123.3	42.3	35.1	31.5
62.5°	4566.8	4102.4	3572.3	3004.4	2291.5	1418.5	597.6	134.1	38.7	32.4	29.7
65°	4937.7	4352.6	3741.5	3128.6	2326.6	1384.3	577.8	130.5	34.2	28.8	25.2
66°	4948.5	4339.1	3718.1	3101.6	2290.6	1342.9	558.9	128.7	33.3	27.9	23.4
67.5°	4845.9	4223.0	3593.9	2979.2	2184.4	1262.8	524.7	122.4	30.6	25.2	20.7
70°	4339.1	3732.5	3155.6	2587.6	1879.3	1063.9	440.1	108.0	27.0	22.5	18.9
72.5°	3458.9	2964.8	2478.7	2035.9	1460.8	798.3	347.4	88.2	23.4	19.8	16.2
75°	2415.7	2009.8	1639.9	1324.0	918.0	477.9	225.0	62.1	19.8	16.2	13.5
77.5°	1348.3	1069.3	808.2	615.6	366.3	149.4	74.7	31.5	17.1	12.6	10.8
80°	685.8	508.5	387.0	285.3	169.2	77.4	37.8	20.7	13.5	9.9	9.0
82.5°	398.7	292.5	233.1	184.5	116.1	58.5	30.6	15.3	9.0	7.2	8.1
85°	89.1	117.9	99.9	84.6	62.1	36.9	21.6	9.9	6.3	6.3	7.2
87.5°	7.2	9.9	9.0	11.7	12.6	11.7	9.0	5.4	4.5	5.4	5.4
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°	130.5	130.5	130.5	130.5	130.5	130.5	130.5	130.5	130.5	130.5	130.5
2.5°	126.9	126.0	126.0	125.1	124.2	124.2	124.2	123.3	124.2	124.2	124.2
5°	123.3	122.4	121.5	120.6	119.7	118.8	118.8	117.9	117.9	117.9	118.8
7.5°	119.7	117.9	117.0	115.2	114.3	113.4	113.4	112.5	112.5	112.5	112.5
10°	115.2	113.4	111.6	110.7	109.8	108.0	108.0	107.1	106.2	106.2	106.2
12.5°	111.6	109.8	108.0	106.2	104.4	103.5	102.6	101.7	100.8	100.8	100.8
15°	108.0	105.3	103.5	101.7	99.9	98.1	97.2	96.3	95.4	94.5	94.5
17.5°	104.4	101.7	99.0	97.2	95.4	93.6	92.7	90.0	90.0	89.1	89.1
20°	99.9	97.2	94.5	92.7	90.9	89.1	87.3	85.5	83.7	82.8	82.8
22.5°	96.3	93.6	90.9	88.2	85.5	82.8	81.0	79.2	78.3	77.4	76.5
25°	92.7	89.1	85.5	82.8	80.1	77.4	75.6	73.8	72.0	71.1	71.1
27.5°	88.2	84.6	81.0	77.4	74.7	72.0	70.2	67.5	66.6	65.7	64.8
30°	83.7	79.2	75.6	72.0	69.3	65.7	63.9	62.1	60.3	60.3	59.4
32.5°	78.3	73.8	70.2	66.6	63.0	60.3	58.5	56.7	55.8	54.0	54.0
35°	72.9	68.4	63.9	60.3	57.6	54.9	53.1	51.3	49.5	48.6	48.6
37.5°	66.6	62.1	58.5	54.9	52.2	49.5	47.7	45.9	45.0	44.1	43.2
40°	59.4	54.9	52.2	49.5	46.8	45.0	42.3	40.5	39.6	38.7	37.8
42.5°	53.1	48.6	46.8	45.0	42.3	40.5	37.8	36.0	34.2	33.3	32.4
45°	47.7	44.1	42.3	40.5	37.8	35.1	33.3	31.5	29.7	28.8	28.8
47.5°	42.3	39.6	37.8	36.0	33.3	31.5	28.8	27.9	26.1	26.1	26.1
50°	38.7	36.0	34.2	32.4	30.6	27.9	26.1	25.2	24.3	24.3	25.2
52.5°	36.0	33.3	31.5	29.7	27.9	26.1	24.3	23.4	23.4	24.3	25.2
55°	33.3	30.6	28.8	27.0	25.2	24.3	22.5	22.5	23.4	24.3	25.2
57.5°	31.5	27.9	26.1	25.2	23.4	22.5	22.5	22.5	23.4	24.3	26.1
60°	28.8	25.2	23.4	23.4	21.6	21.6	21.6	22.5	23.4	25.2	26.1
62.5°	25.2	22.5	21.6	21.6	20.7	20.7	21.6	22.5	24.3	25.2	26.1
65°	21.6	19.8	19.8	19.8	19.8	20.7	21.6	22.5	23.4	25.2	26.1
66°	19.8	18.9	18.9	19.8	19.8	20.7	21.6	22.5	23.4	24.3	25.2
67.5°	18.9	18.0	18.0	18.9	19.8	19.8	20.7	22.5	23.4	24.3	24.3
70°	16.2	16.2	16.2	18.0	18.9	19.8	20.7	21.6	22.5	23.4	24.3
72.5°	14.4	14.4	15.3	16.2	18.0	18.9	19.8	20.7	22.5	23.4	23.4
75°	12.6	12.6	14.4	15.3	17.1	18.0	19.8	20.7	21.6	22.5	22.5
77.5°	10.8	11.7	13.5	15.3	16.2	18.0	18.9	19.8	20.7	21.6	21.6
80°	9.9	11.7	13.5	14.4	15.3	16.2	17.1	18.9	19.8	20.7	21.6
82.5°	9.9	10.8	12.6	13.5	14.4	16.2	17.1	18.0	18.9	19.8	20.7
85°	8.1	9.9	10.8	12.6	13.5	15.3	16.2	16.2	17.1	18.0	18.9
87.5°	6.3	7.2	7.2	9.0	9.9	11.7	13.5	13.5	14.4	15.3	16.2
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):

	165°	170°	175°	180°
0°	130.5	130.5	130.5	130.5
2.5°	124.2	125.1	125.1	125.1
5°	118.8	118.8	118.8	118.8
7.5°	112.5	112.5	112.5	112.5
10°	106.2	106.2	107.1	106.2
12.5°	100.8	99.9	99.9	99.9
15°	94.5	94.5	93.6	94.5
17.5°	88.2	88.2	87.3	87.3
20°	81.9	81.9	81.9	81.9
22.5°	76.5	75.6	75.6	75.6
25°	70.2	70.2	70.2	70.2
27.5°	64.8	64.8	64.8	64.8
30°	59.4	59.4	58.5	58.5
32.5°	54.0	54.0	54.0	54.0
35°	48.6	48.6	47.7	47.7
37.5°	42.3	42.3	42.3	42.3
40°	36.9	36.9	36.9	36.9
42.5°	32.4	32.4	31.5	31.5
45°	27.9	27.9	27.9	27.9
47.5°	26.1	26.1	26.1	26.1
50°	25.2	26.1	26.1	26.1
52.5°	26.1	26.1	26.1	26.1
55°	26.1	27.0	27.0	27.0
57.5°	26.1	27.0	27.0	27.9
60°	27.0	27.9	27.9	27.9
62.5°	27.0	27.9	27.9	27.9
65°	26.1	27.0	27.0	27.0
66°	26.1	26.1	26.1	27.0
67.5°	25.2	26.1	26.1	26.1
70°	24.3	25.2	25.2	26.1
72.5°	24.3	25.2	25.2	25.2
75°	23.4	23.4	24.3	24.3
77.5°	22.5	22.5	23.4	23.4
80°	21.6	22.5	22.5	22.5
82.5°	20.7	21.6	21.6	21.6
85°	18.9	19.8	19.8	19.8
87.5°	16.2	16.2	17.1	17.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)