

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: P181613

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181613
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-F04-LED-E1-T4-HSS-7030
Description: ICON SITE SMALL 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: 5250 lumens
Efficiency: N/A
Efficacy: 51.4 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



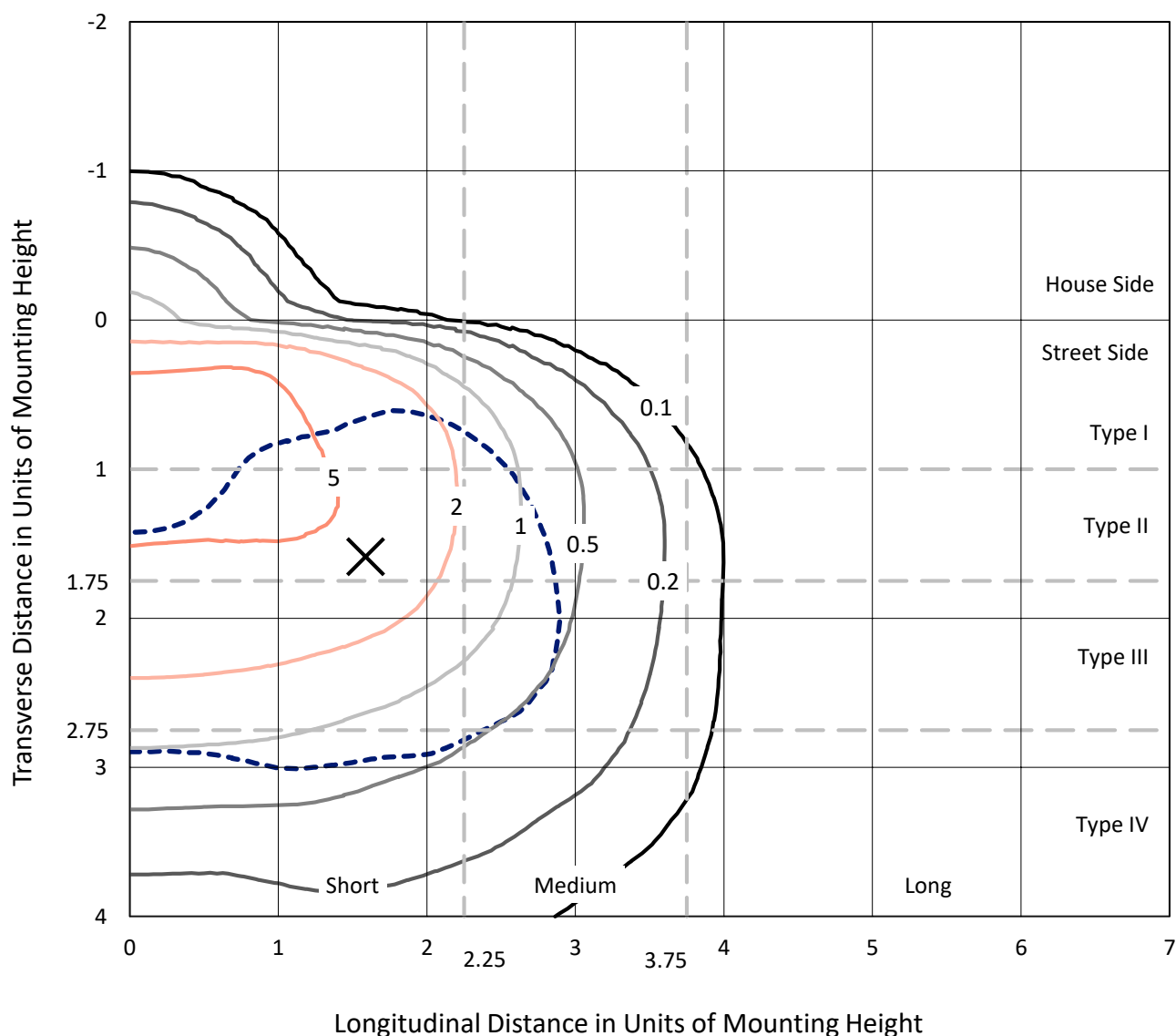
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

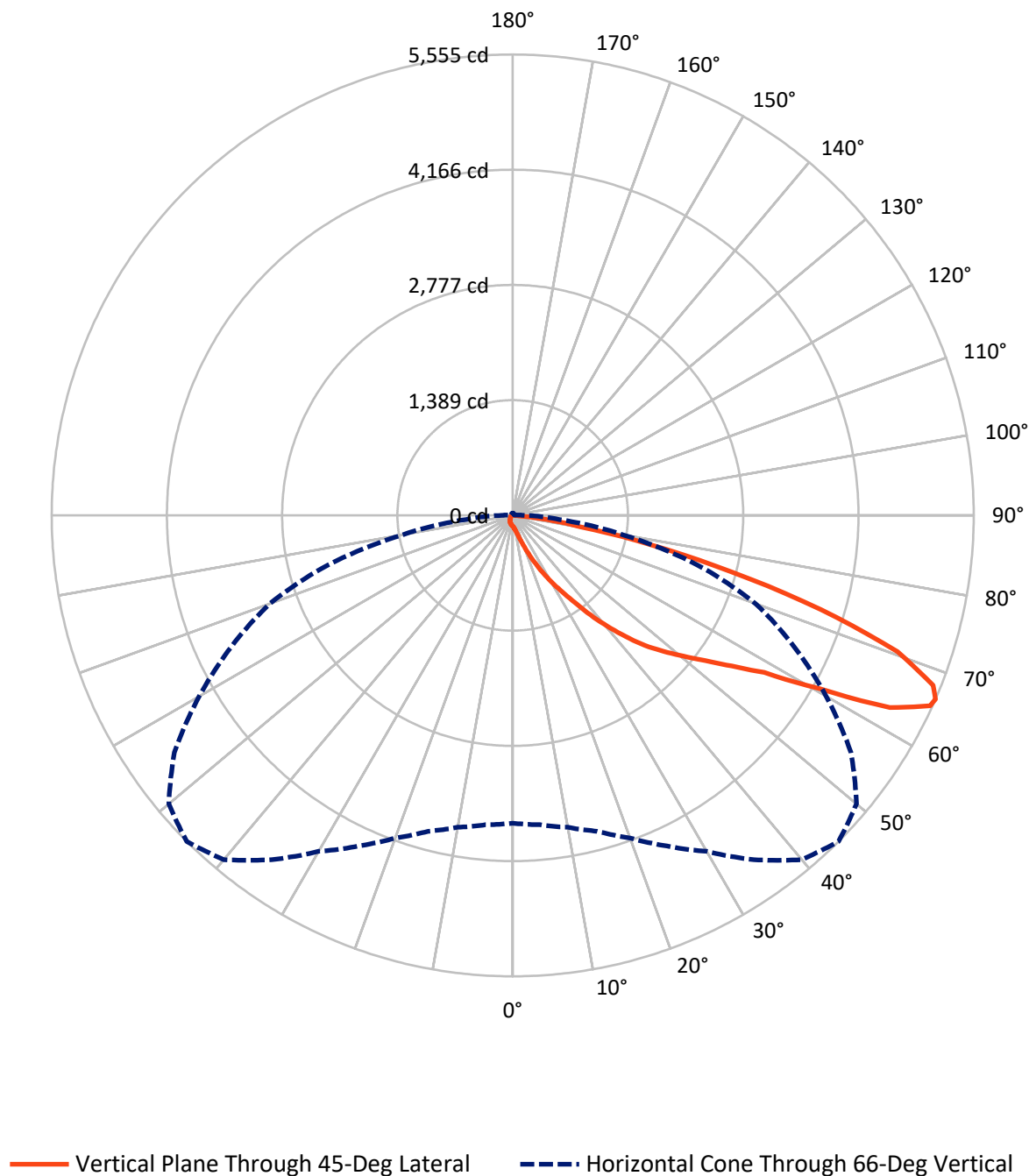


Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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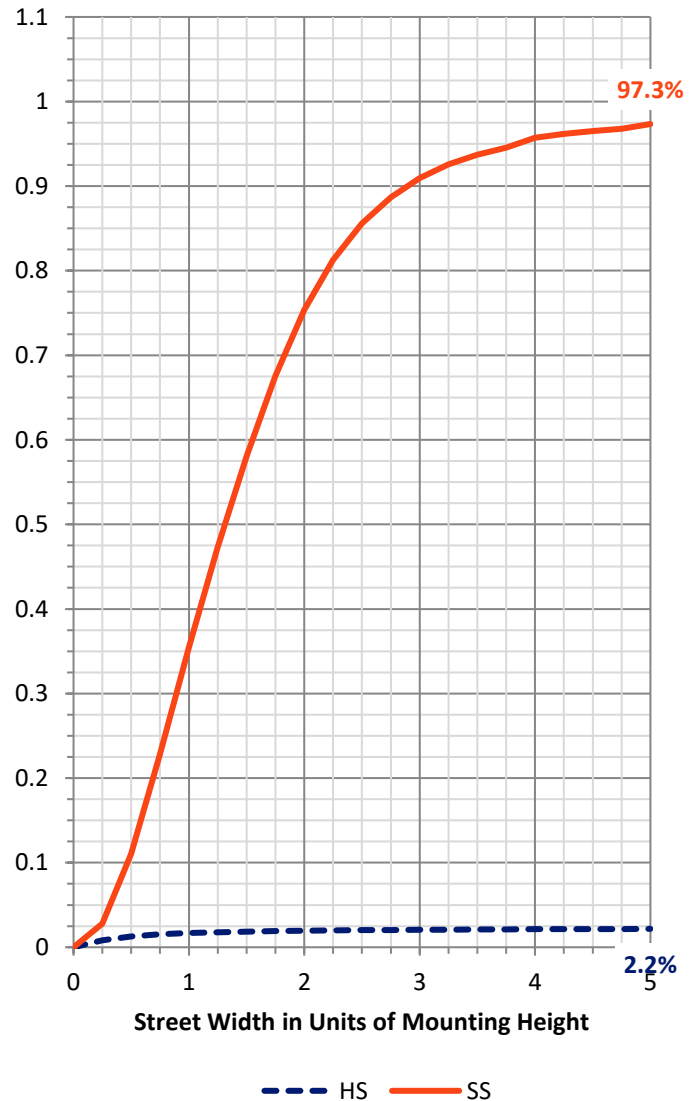
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	119.0	0.0	119.0
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	5131.0	0.0	5131.0
	% Fixture	97.7	0.0	97.7
Total	Lumens	5250.0	0.0	5250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.2	0.3
10°-20°	53.5	1.0
20°-30°	156.8	3.0
30°-40°	366.4	7.0
40°-50°	688.2	13.1
50°-60°	1140.5	21.7
60°-70°	1810.5	34.5
70°-80°	936.3	17.8
80°-90°	84.6	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°	5250.0	100.0
0°-180°	5250.0	100.0

Coefficient of Utilization



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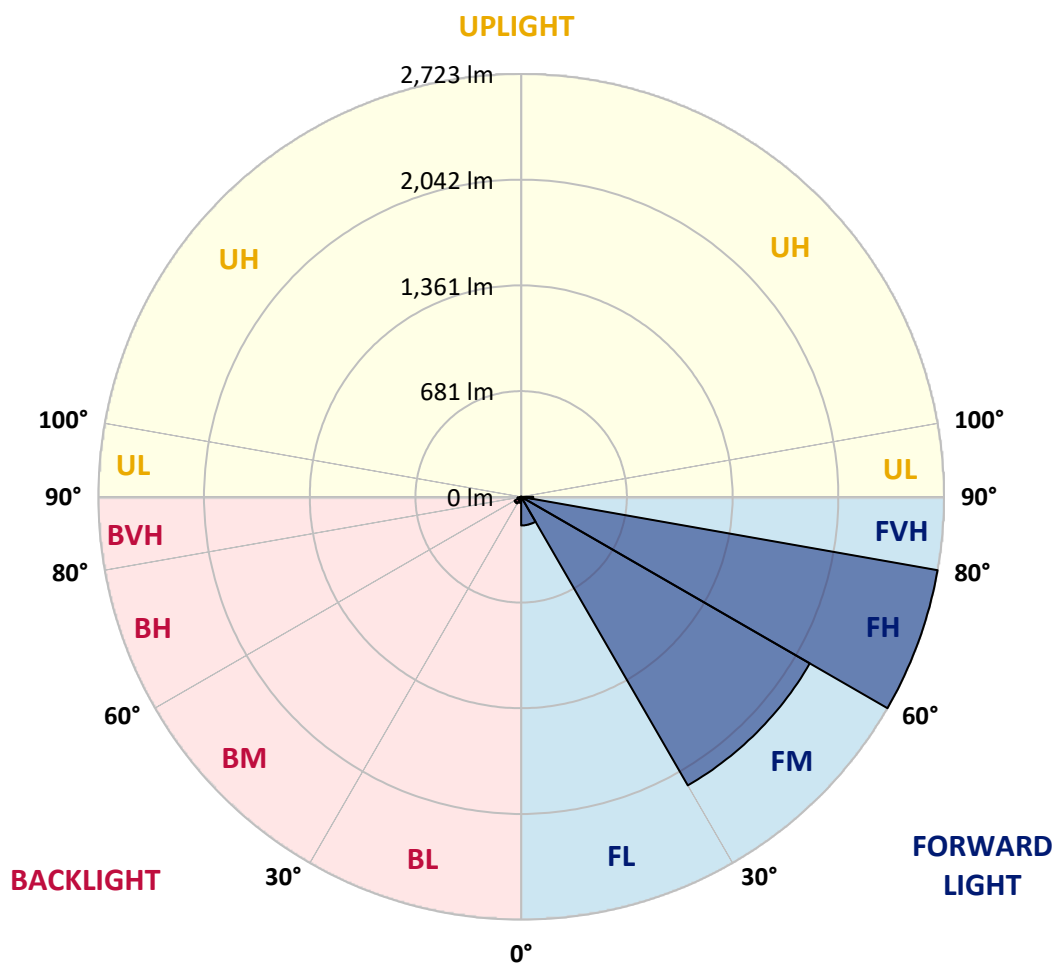
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	184.7	3.5			
FM	(30°-60°)	2145.7	40.9			
FH	(60°-80°)	2722.7	51.9			G2/5000
FVH	(80°-90°)	77.9	1.5			G1/100
BL	(0°-30°)	38.9	0.7	B0/110		
BM	(30°-60°)	49.4	0.9	B0/220		
BH	(60°-80°)	24.1	0.5	B0/110		G0/110
BVH	(80°-90°)	6.7	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°	131.2	131.2	131.2	131.2	131.2	131.2	131.2	131.2	131.2	131.2	131.2
2.5°	142.1	142.1	142.1	142.1	141.2	140.3	139.3	138.4	137.5	137.5	136.6
5°	161.1	162.0	161.1	160.2	158.3	157.4	154.7	152.9	150.2	149.3	146.6
7.5°	187.3	186.4	187.3	184.6	181.0	180.1	176.4	171.9	168.3	162.9	159.3
10°	225.3	224.4	225.3	219.9	214.4	209.9	203.6	198.2	190.0	183.7	176.4
12.5°	285.9	285.9	284.1	276.9	269.6	259.7	249.7	238.0	223.5	210.8	199.1
15°	379.1	374.6	366.5	361.9	349.3	333.9	323.0	299.5	278.7	258.8	235.3
17.5°	491.3	482.3	475.9	466.0	449.7	429.8	411.7	377.3	356.5	323.9	290.5
20°	619.8	609.0	607.1	591.8	574.6	552.9	526.6	485.9	450.6	409.9	362.8
22.5°	751.0	752.8	745.6	734.7	717.5	692.2	651.5	614.4	571.0	519.4	458.8
25°	897.6	896.7	890.4	877.7	865.0	833.4	800.8	765.5	713.9	647.9	575.5
27.5°	1035.1	1034.2	1018.9	1019.8	995.3	983.6	951.9	913.9	851.5	796.3	717.5
30°	1179.0	1170.0	1160.0	1152.8	1135.6	1114.8	1098.5	1053.2	1006.2	941.0	876.8
32.5°	1324.7	1314.7	1317.4	1308.4	1294.8	1274.0	1249.6	1212.5	1161.8	1098.5	1038.8
35°	1502.9	1498.4	1491.2	1493.9	1491.2	1475.8	1455.0	1406.1	1350.9	1290.3	1228.8
37.5°	1635.0	1630.5	1635.0	1654.1	1658.6	1668.5	1653.1	1628.7	1588.9	1522.8	1458.6
40°	1757.2	1758.1	1778.9	1802.4	1818.7	1851.3	1856.7	1846.8	1815.1	1754.5	1670.3
42.5°	1866.7	1880.3	1899.3	1938.2	1973.5	2019.6	2054.0	2059.4	2035.9	1996.1	1911.0
45°	1988.8	2000.6	2030.5	2076.6	2125.5	2182.5	2237.7	2266.6	2264.8	2236.8	2145.4
47.5°	2125.5	2140.9	2173.4	2211.4	2276.6	2340.8	2412.3	2463.9	2485.6	2446.7	2358.0
50°	2291.1	2297.4	2325.4	2374.3	2434.0	2508.2	2586.0	2661.1	2703.7	2667.5	2576.1
52.5°	2487.4	2489.2	2515.5	2560.7	2608.7	2690.1	2766.1	2870.2	2925.4	2905.4	2796.0
55°	2757.1	2751.6	2769.7	2808.6	2847.5	2926.3	3002.3	3119.9	3200.4	3202.2	3085.5
57.5°	3125.3	3112.7	3124.4	3155.2	3198.6	3271.9	3367.8	3471.9	3579.6	3572.3	3476.4
60°	3638.4	3633.8	3655.6	3707.1	3781.3	3857.3	3965.9	4106.2	4201.2	4233.8	4133.3
62.5°	3979.5	3992.2	4041.9	4121.6	4264.5	4422.0	4623.7	4838.2	5019.2	5100.6	4962.2
65°	3832.9	3853.7	3931.5	4049.2	4238.3	4474.4	4742.3	5094.3	5406.4	5530.4	5386.5
66°	3708.9	3742.4	3815.7	3940.6	4137.8	4395.7	4675.3	5064.4	5415.5	5554.8	5408.2
67.5°	3494.5	3518.0	3601.3	3739.7	3951.4	4206.6	4508.8	4919.6	5315.9	5463.4	5317.8
70°	3057.5	3066.5	3134.4	3252.0	3415.8	3677.3	3951.4	4346.9	4711.5	4918.7	4759.5
72.5°	2275.7	2288.3	2400.5	2615.0	2827.6	2976.0	3138.0	3454.7	3689.9	3883.6	3852.8
75°	1094.9	1100.3	1175.4	1488.5	1902.9	2080.2	2230.4	2475.6	2565.2	2727.2	2702.8
77.5°	694.0	705.8	754.6	830.6	1065.9	1276.7	1395.3	1535.5	1561.8	1698.4	1618.8
80°	190.9	221.7	270.5	398.1	683.2	814.4	867.7	862.3	867.7	826.1	799.0
82.5°	38.9	38.0	46.1	71.5	301.3	474.1	512.1	436.1	433.4	417.1	430.7
85°	10.0	9.0	10.9	22.6	51.6	140.3	176.4	98.6	75.1	71.5	63.3
87.5°	2.7	2.7	2.7	4.5	5.4	7.2	10.0	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°	131.2	131.2	131.2	131.2	131.2	131.2	131.2	131.2	131.2	131.2	131.2
2.5°	135.7	135.7	134.8	133.9	133.9	133.0	132.1	131.2	130.3	129.4	128.5
5°	143.9	142.1	139.3	137.5	135.7	133.0	131.2	129.4	127.6	126.7	124.9
7.5°	154.7	150.2	146.6	141.2	137.5	133.9	130.3	127.6	124.9	123.1	121.2
10°	168.3	161.1	153.8	146.6	140.3	134.8	129.4	124.9	122.2	119.4	117.6
12.5°	185.5	174.6	164.7	153.8	143.9	135.7	128.5	123.1	119.4	116.7	114.0
15°	213.5	196.4	179.2	162.9	150.2	137.5	127.6	121.2	116.7	114.0	111.3
17.5°	257.9	227.1	200.0	177.3	156.5	140.3	127.6	119.4	114.0	110.4	107.7
20°	322.1	271.5	228.0	195.4	168.3	144.8	127.6	116.7	111.3	106.8	104.1
22.5°	398.1	334.8	275.1	220.8	181.9	151.1	127.6	114.0	107.7	104.1	100.4
25°	509.4	425.3	343.8	267.8	204.5	161.1	130.3	112.2	105.0	100.4	96.8
27.5°	639.7	538.4	437.0	330.3	238.9	175.5	133.9	110.4	102.2	96.8	93.2
30°	788.1	675.9	552.0	413.5	284.1	194.5	140.3	109.5	98.6	93.2	88.7
32.5°	949.2	830.6	694.9	520.3	351.1	223.5	148.4	108.6	95.0	88.7	83.2
35°	1141.0	1030.6	865.0	670.5	455.1	273.3	166.5	110.4	91.4	84.2	77.8
37.5°	1350.9	1233.3	1057.8	829.7	558.3	329.4	180.1	107.7	85.1	77.8	71.5
40°	1562.7	1427.8	1249.6	997.1	689.5	398.1	197.3	105.0	78.7	71.5	65.1
42.5°	1769.0	1626.9	1433.3	1169.1	827.9	479.6	219.0	105.0	74.2	65.1	58.8
45°	1985.2	1814.2	1602.5	1333.7	965.5	572.8	249.7	104.1	68.8	59.7	52.5
47.5°	2189.7	1987.0	1743.6	1478.5	1113.0	675.0	285.0	105.0	64.2	54.3	48.0
50°	2383.4	2150.8	1888.4	1607.9	1254.1	785.4	328.5	105.9	59.7	49.8	43.4
52.5°	2595.1	2337.2	2044.0	1740.9	1393.5	896.7	379.1	107.7	55.2	45.2	39.8
55°	2857.5	2571.6	2235.9	1903.8	1540.9	1008.9	428.0	109.5	50.7	41.6	36.2
57.5°	3235.7	2910.0	2547.1	2148.1	1736.4	1136.5	478.7	114.0	47.1	38.9	33.5
60°	3851.0	3462.8	3043.9	2573.4	2028.7	1309.3	552.0	124.0	42.5	35.3	31.7
62.5°	4591.2	4124.3	3591.3	3020.4	2303.7	1426.0	600.8	134.8	38.9	32.6	29.9
65°	4964.0	4375.8	3761.4	3145.2	2339.0	1391.6	580.9	131.2	34.4	29.0	25.3
66°	4974.8	4362.2	3737.9	3118.1	2302.8	1350.0	561.9	129.4	33.5	28.1	23.5
67.5°	4871.7	4245.5	3613.0	2995.0	2196.1	1269.5	527.5	123.1	30.8	25.3	20.8
70°	4362.2	3752.4	3172.4	2601.4	1889.3	1069.5	442.5	108.6	27.1	22.6	19.0
72.5°	3477.3	2980.5	2491.9	2046.8	1468.6	802.6	349.3	88.7	23.5	19.9	16.3
75°	2428.6	2020.5	1648.6	1331.0	922.9	480.5	226.2	62.4	19.9	16.3	13.6
77.5°	1355.5	1075.0	812.5	618.9	368.3	150.2	75.1	31.7	17.2	12.7	10.9
80°	689.5	511.2	389.1	286.8	170.1	77.8	38.0	20.8	13.6	10.0	9.0
82.5°	400.8	294.1	234.4	185.5	116.7	58.8	30.8	15.4	9.0	7.2	8.1
85°	89.6	118.5	100.4	85.1	62.4	37.1	21.7	10.0	6.3	6.3	7.2
87.5°	7.2	10.0	9.0	11.8	12.7	11.8	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°	131.2	131.2	131.2	131.2	131.2	131.2	131.2	131.2	131.2	131.2	131.2
2.5°	127.6	126.7	126.7	125.8	124.9	124.9	124.9	124.0	124.9	124.9	124.9
5°	124.0	123.1	122.2	121.2	120.3	119.4	119.4	118.5	118.5	118.5	119.4
7.5°	120.3	118.5	117.6	115.8	114.9	114.0	114.0	113.1	113.1	113.1	113.1
10°	115.8	114.0	112.2	111.3	110.4	108.6	108.6	107.7	106.8	106.8	106.8
12.5°	112.2	110.4	108.6	106.8	105.0	104.1	103.2	102.2	101.3	101.3	101.3
15°	108.6	105.9	104.1	102.2	100.4	98.6	97.7	96.8	95.9	95.0	95.0
17.5°	105.0	102.2	99.5	97.7	95.9	94.1	93.2	90.5	90.5	89.6	89.6
20°	100.4	97.7	95.0	93.2	91.4	89.6	87.8	86.0	84.2	83.2	83.2
22.5°	96.8	94.1	91.4	88.7	86.0	83.2	81.4	79.6	78.7	77.8	76.9
25°	93.2	89.6	86.0	83.2	80.5	77.8	76.0	74.2	72.4	71.5	71.5
27.5°	88.7	85.1	81.4	77.8	75.1	72.4	70.6	67.9	67.0	66.1	65.1
30°	84.2	79.6	76.0	72.4	69.7	66.1	64.2	62.4	60.6	60.6	59.7
32.5°	78.7	74.2	70.6	67.0	63.3	60.6	58.8	57.0	56.1	54.3	54.3
35°	73.3	68.8	64.2	60.6	57.9	55.2	53.4	51.6	49.8	48.9	48.9
37.5°	67.0	62.4	58.8	55.2	52.5	49.8	48.0	46.1	45.2	44.3	43.4
40°	59.7	55.2	52.5	49.8	47.1	45.2	42.5	40.7	39.8	38.9	38.0
42.5°	53.4	48.9	47.1	45.2	42.5	40.7	38.0	36.2	34.4	33.5	32.6
45°	48.0	44.3	42.5	40.7	38.0	35.3	33.5	31.7	29.9	29.0	29.0
47.5°	42.5	39.8	38.0	36.2	33.5	31.7	29.0	28.1	26.2	26.2	26.2
50°	38.9	36.2	34.4	32.6	30.8	28.1	26.2	25.3	24.4	24.4	25.3
52.5°	36.2	33.5	31.7	29.9	28.1	26.2	24.4	23.5	23.5	24.4	25.3
55°	33.5	30.8	29.0	27.1	25.3	24.4	22.6	22.6	23.5	24.4	25.3
57.5°	31.7	28.1	26.2	25.3	23.5	22.6	22.6	22.6	23.5	24.4	26.2
60°	29.0	25.3	23.5	23.5	21.7	21.7	21.7	22.6	23.5	25.3	26.2
62.5°	25.3	22.6	21.7	21.7	20.8	20.8	21.7	22.6	24.4	25.3	26.2
65°	21.7	19.9	19.9	19.9	19.9	20.8	21.7	22.6	23.5	25.3	26.2
66°	19.9	19.0	19.0	19.9	19.9	20.8	21.7	22.6	23.5	24.4	25.3
67.5°	19.0	18.1	18.1	19.0	19.9	19.9	20.8	22.6	23.5	24.4	24.4
70°	16.3	16.3	16.3	18.1	19.0	19.9	20.8	21.7	22.6	23.5	24.4
72.5°	14.5	14.5	15.4	16.3	18.1	19.0	19.9	20.8	22.6	23.5	23.5
75°	12.7	12.7	14.5	15.4	17.2	18.1	19.9	20.8	21.7	22.6	22.6
77.5°	10.9	11.8	13.6	15.4	16.3	18.1	19.0	19.9	20.8	21.7	21.7
80°	10.0	11.8	13.6	14.5	15.4	16.3	17.2	19.0	19.9	20.8	21.7
82.5°	10.0	10.9	12.7	13.6	14.5	16.3	17.2	18.1	19.0	19.9	20.8
85°	8.1	10.0	10.9	12.7	13.6	15.4	16.3	16.3	17.2	18.1	19.0
87.5°	6.3	7.2	7.2	9.0	10.0	11.8	13.6	13.6	14.5	15.4	16.3
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°	131.2	131.2	131.2	131.2
2.5°	124.9	125.8	125.8	125.8
5°	119.4	119.4	119.4	119.4
7.5°	113.1	113.1	113.1	113.1
10°	106.8	106.8	107.7	106.8
12.5°	101.3	100.4	100.4	100.4
15°	95.0	95.0	94.1	95.0
17.5°	88.7	88.7	87.8	87.8
20°	82.3	82.3	82.3	82.3
22.5°	76.9	76.0	76.0	76.0
25°	70.6	70.6	70.6	70.6
27.5°	65.1	65.1	65.1	65.1
30°	59.7	59.7	58.8	58.8
32.5°	54.3	54.3	54.3	54.3
35°	48.9	48.9	48.0	48.0
37.5°	42.5	42.5	42.5	42.5
40°	37.1	37.1	37.1	37.1
42.5°	32.6	32.6	31.7	31.7
45°	28.1	28.1	28.1	28.1
47.5°	26.2	26.2	26.2	26.2
50°	25.3	26.2	26.2	26.2
52.5°	26.2	26.2	26.2	26.2
55°	26.2	27.1	27.1	27.1
57.5°	26.2	27.1	27.1	28.1
60°	27.1	28.1	28.1	28.1
62.5°	27.1	28.1	28.1	28.1
65°	26.2	27.1	27.1	27.1
66°	26.2	26.2	26.2	27.1
67.5°	25.3	26.2	26.2	26.2
70°	24.4	25.3	25.3	26.2
72.5°	24.4	25.3	25.3	25.3
75°	23.5	23.5	24.4	24.4
77.5°	22.6	22.6	23.5	23.5
80°	21.7	22.6	22.6	22.6
82.5°	20.8	21.7	21.7	21.7
85°	19.0	19.9	19.9	19.9
87.5°	16.3	16.3	17.2	17.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)