

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: P181557

Luminaire Tested: **ICM-E05-LED-E1-T4-HSS-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181557  
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-E05-LED-E1-T4-HSS-8030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD  
Light Source: (105) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

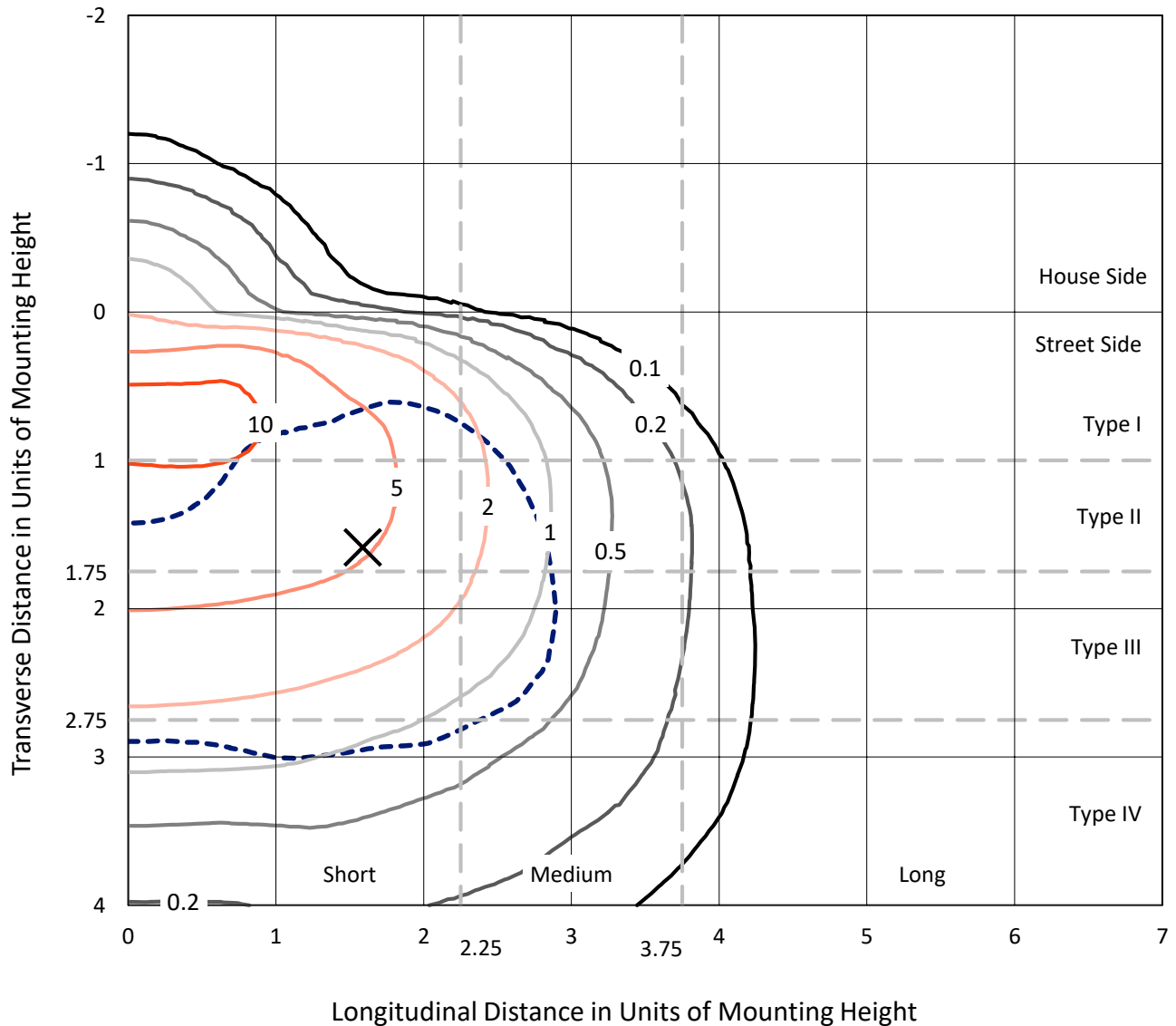
Lumens per Lamp: N/A  
Luminaire Lumens: 7592.2 lumens  
Efficiency: N/A  
Efficacy: 59.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 127.3  
Input Voltage (V): NR  
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

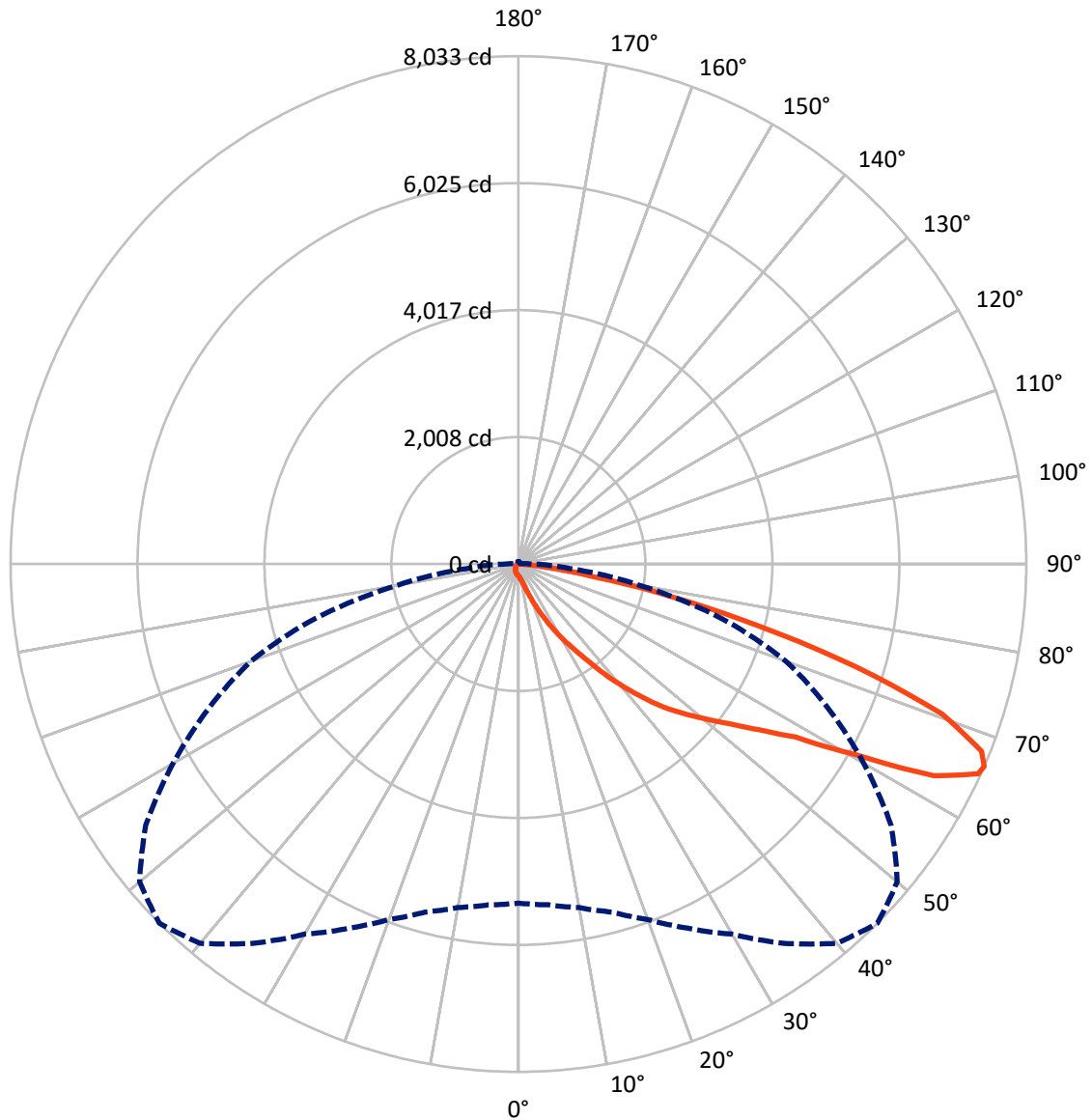
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12 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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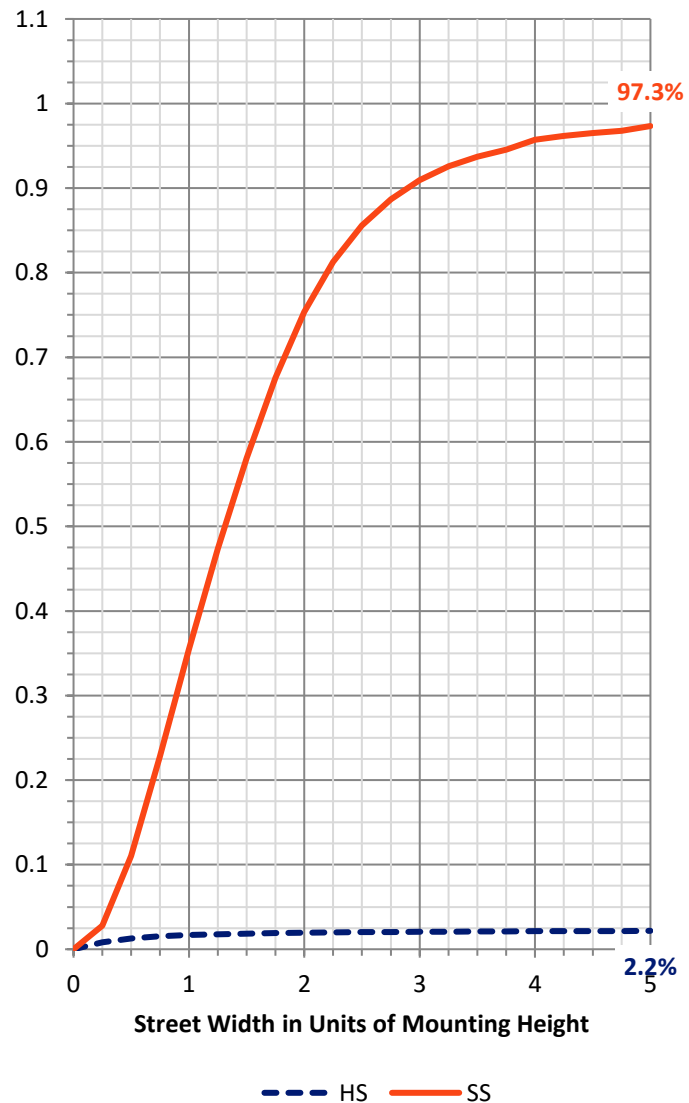
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	172.1	0.0	172.1
	% Fixture	2.3	0.0	2.3
<b>Street Side</b>	Lumens	7420.1	0.0	7420.1
	% Fixture	97.7	0.0	97.7
<b>Total</b>	Lumens	7592.2	0.0	7592.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.1	0.3
10°-20°	77.4	1.0
20°-30°	226.8	3.0
30°-40°	529.8	7.0
40°-50°	995.2	13.1
50°-60°	1649.3	21.7
60°-70°	2618.2	34.5
70°-80°	1354.0	17.8
80°-90°	122.3	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°	7592.2	100.0
0°-180°	7592.2	100.0



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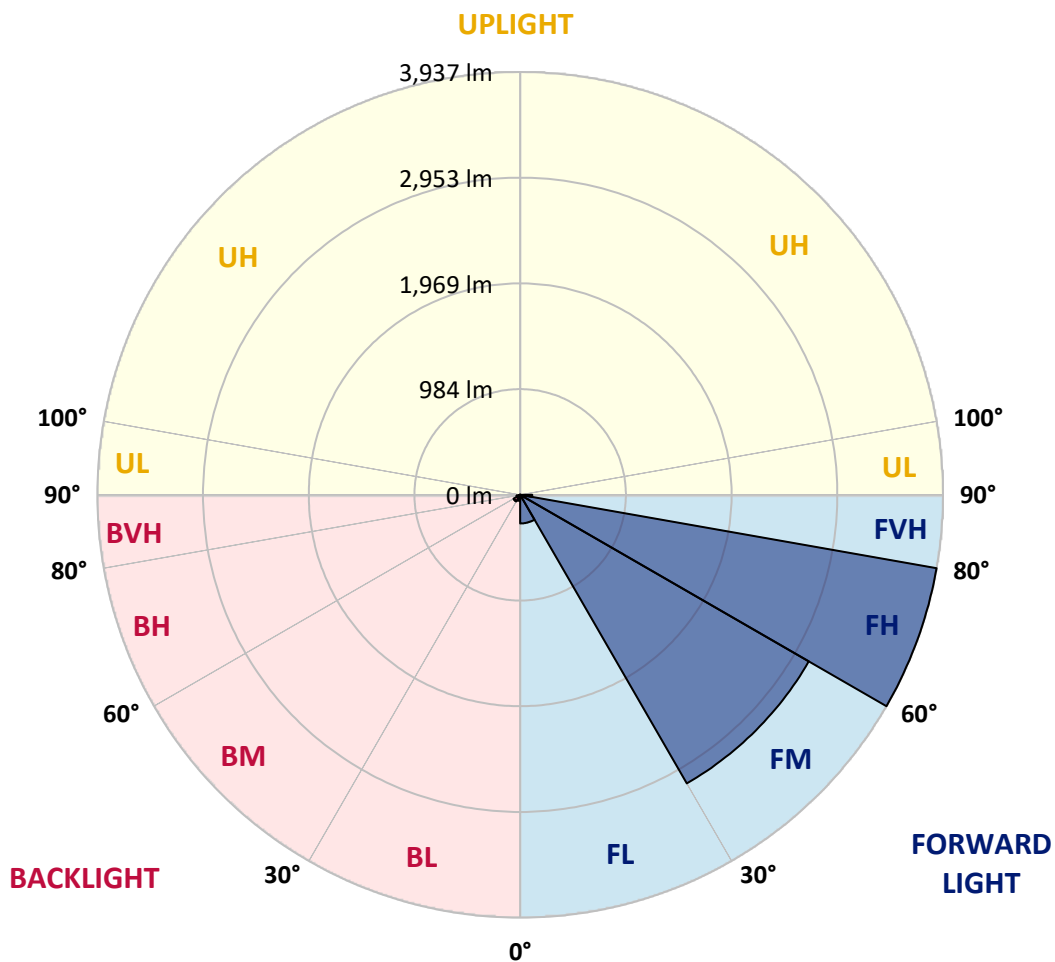
CATALOG NUMBER: ICM-E05-LED-E1-T4-HSS-8030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	267.2	3.5			
FM	(30°-60°)	3102.9	40.9			
FH	(60°-80°)	3937.4	51.9			G2/5000
FVH	(80°-90°)	112.6	1.5			G2/225
BL	(0°-30°)	56.2	0.7	B0/110		
BM	(30°-60°)	71.4	0.9	B0/220		
BH	(60°-80°)	34.8	0.5	B0/110		G0/110
BVH	(80°-90°)	9.7	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°	189.8	189.8	189.8	189.8	189.8	189.8	189.8	189.8	189.8	189.8	189.8
2.5°	205.4	205.4	205.4	205.4	204.1	202.8	201.5	200.2	198.9	198.9	197.6
5°	232.9	234.2	232.9	231.6	229.0	227.7	223.7	221.1	217.2	215.9	212.0
7.5°	270.9	269.6	270.9	267.0	261.7	260.4	255.2	248.7	243.4	235.5	230.3
10°	325.9	324.5	325.9	318.0	310.1	303.5	294.4	286.6	274.8	265.7	255.2
12.5°	413.5	413.5	410.9	400.4	390.0	375.5	361.1	344.1	323.2	304.8	287.9
15°	548.3	541.8	530.0	523.4	505.1	482.9	467.2	433.1	403.0	374.2	340.2
17.5°	710.5	697.4	688.3	673.9	650.3	621.6	595.4	545.7	515.5	468.5	420.0
20°	896.4	880.7	878.1	855.8	830.9	799.5	761.6	702.7	651.6	592.7	524.7
22.5°	1086.1	1088.7	1078.2	1062.5	1037.7	1001.0	942.1	888.5	825.7	751.1	663.4
25°	1298.1	1296.8	1287.5	1269.3	1251.0	1205.1	1158.1	1107.0	1032.4	936.9	832.2
27.5°	1496.9	1495.6	1473.4	1474.7	1439.4	1422.3	1376.6	1321.6	1231.4	1151.5	1037.7
30°	1705.0	1691.9	1677.5	1667.1	1642.1	1612.1	1588.6	1523.1	1455.1	1360.8	1267.9
32.5°	1915.6	1901.3	1905.2	1892.1	1872.5	1842.4	1807.1	1753.4	1680.1	1588.6	1502.1
35°	2173.4	2166.9	2156.5	2160.4	2156.5	2134.2	2104.1	2033.4	1953.6	1866.0	1776.9
37.5°	2364.5	2358.0	2364.5	2392.0	2398.5	2412.9	2390.7	2355.4	2297.8	2202.2	2109.3
40°	2541.1	2542.4	2572.6	2606.5	2630.2	2677.2	2685.0	2670.7	2624.9	2537.2	2415.5
42.5°	2699.5	2719.1	2746.6	2802.8	2853.9	2920.6	2970.3	2978.2	2944.2	2886.6	2763.6
45°	2876.1	2893.1	2936.3	3003.1	3073.7	3156.1	3235.9	3277.9	3275.2	3234.6	3102.5
47.5°	3073.7	3095.9	3143.1	3198.1	3292.2	3385.1	3488.5	3563.1	3594.5	3538.3	3410.0
50°	3313.1	3322.3	3362.9	3433.6	3519.9	3627.2	3739.7	3848.4	3909.9	3857.5	3725.3
52.5°	3597.1	3599.7	3637.7	3703.1	3772.5	3890.3	4000.1	4150.6	4230.4	4201.7	4043.4
55°	3987.1	3979.2	4005.4	4061.6	4117.9	4231.7	4341.7	4511.7	4628.2	4630.8	4462.1
57.5°	4519.7	4501.3	4518.4	4562.8	4625.6	4731.7	4870.4	5020.8	5176.5	5166.1	5027.4
60°	5261.5	5255.0	5286.5	5361.1	5468.3	5578.3	5735.3	5938.1	6075.5	6122.5	5977.3
62.5°	5754.9	5773.2	5845.2	5960.3	6167.0	6394.7	6686.6	6996.7	7258.4	7376.1	7176.0
65°	5542.9	5573.0	5685.5	5855.7	6129.2	6470.6	6858.0	7366.9	7818.4	7997.7	7789.6
66°	5363.7	5412.0	5518.0	5698.6	5983.9	6356.8	6761.2	7323.8	7831.5	8033.0	7821.1
67.5°	5053.5	5087.6	5207.9	5408.1	5714.3	6083.3	6520.3	7114.5	7687.6	7900.9	7690.2
70°	4421.5	4434.5	4532.7	4702.8	4939.7	5317.8	5714.3	6286.2	6813.4	7113.2	6882.8
72.5°	3290.9	3309.2	3471.5	3781.6	4089.1	4303.7	4538.0	4995.9	5336.1	5616.1	5571.7
75°	1583.3	1591.2	1699.7	2152.5	2751.8	3008.3	3225.5	3580.1	3709.7	3943.8	3908.6
77.5°	1003.6	1020.7	1091.3	1201.2	1541.4	1846.3	2017.8	2220.6	2258.5	2456.1	2340.9
80°	276.1	320.6	391.3	575.7	987.9	1177.7	1254.9	1247.0	1254.9	1194.7	1155.4
82.5°	56.3	55.0	66.7	103.3	435.7	685.7	740.7	630.7	626.8	603.3	622.9
85°	14.4	13.1	15.7	32.7	74.6	202.8	255.2	142.6	108.7	103.3	91.6
87.5°	3.9	3.9	3.9	6.5	7.8	10.5	14.4	10.5	7.8	7.8	7.8
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	189.8	189.8	189.8	189.8	189.8	189.8	189.8	189.8	189.8	189.8	189.8
2.5°	196.3	196.3	195.0	193.7	193.7	192.4	191.1	189.8	188.5	187.2	185.8
5°	208.1	205.4	201.5	198.9	196.3	192.4	189.8	187.2	184.5	183.2	180.6
7.5°	223.7	217.2	212.0	204.1	198.9	193.7	188.5	184.5	180.6	178.0	175.3
10°	243.4	232.9	222.4	212.0	202.8	195.0	187.2	180.6	176.7	172.7	170.1
12.5°	268.3	252.6	238.1	222.4	208.1	196.3	185.8	178.0	172.7	168.8	164.8
15°	308.8	283.9	259.1	235.5	217.2	198.9	184.5	175.3	168.8	164.8	160.9
17.5°	372.9	328.5	289.2	256.5	226.4	202.8	184.5	172.7	164.8	159.6	155.7
20°	465.9	392.6	329.8	282.6	243.4	209.4	184.5	168.8	160.9	154.4	150.5
22.5°	575.7	484.2	397.8	319.3	263.0	218.5	184.5	164.8	155.7	150.5	145.2
25°	736.7	615.0	497.2	387.4	295.7	232.9	188.5	162.2	151.8	145.2	140.0
27.5°	925.1	778.6	632.0	477.6	345.5	253.9	193.7	159.6	147.9	140.0	134.8
30°	1139.7	977.5	798.2	598.0	410.9	281.3	202.8	158.3	142.6	134.8	128.3
32.5°	1372.7	1201.2	1004.9	752.4	507.7	323.2	214.6	157.0	137.4	128.3	120.4
35°	1650.1	1490.4	1251.0	969.6	658.1	395.2	240.7	159.6	132.2	121.7	112.6
37.5°	1953.6	1783.5	1529.7	1199.9	807.4	476.3	260.4	155.7	123.0	112.6	103.3
40°	2259.8	2064.8	1807.1	1442.0	997.1	575.7	285.3	151.8	113.9	103.3	94.2
42.5°	2558.2	2352.8	2072.7	1690.6	1197.3	693.5	316.7	151.8	107.3	94.2	85.0
45°	2870.9	2623.6	2317.4	1928.8	1396.2	828.3	361.1	150.5	99.4	86.3	75.9
47.5°	3166.6	2873.5	2521.5	2138.2	1609.5	976.2	412.2	151.8	92.9	78.5	69.4
50°	3446.6	3110.3	2730.9	2325.2	1813.6	1135.8	475.0	153.1	86.3	72.0	62.8
52.5°	3752.9	3379.9	2955.9	2517.6	2015.1	1296.8	548.3	155.7	79.8	65.4	57.6
55°	4132.3	3718.8	3233.3	2753.1	2228.4	1459.0	618.9	158.3	73.3	60.2	52.4
57.5°	4679.3	4208.2	3683.5	3106.4	2511.1	1643.5	692.2	164.8	68.0	56.3	48.4
60°	5569.1	5007.8	4401.9	3721.4	2933.7	1893.4	798.2	179.3	61.5	51.1	45.8
62.5°	6639.4	5964.2	5193.5	4367.8	3331.5	2062.2	868.8	195.0	56.3	47.1	43.2
65°	7178.6	6328.0	5439.6	4548.4	3382.5	2012.5	840.1	189.8	49.8	41.9	36.7
66°	7194.3	6308.4	5405.5	4509.1	3330.2	1952.3	812.6	187.2	48.4	40.6	34.0
67.5°	7045.1	6139.6	5225.0	4331.2	3175.7	1835.8	762.9	178.0	44.5	36.7	30.1
70°	6308.4	5426.5	4587.7	3762.0	2732.2	1546.7	639.9	157.0	39.3	32.7	27.4
72.5°	5028.7	4310.3	3603.6	2959.8	2123.7	1160.7	505.1	128.3	34.0	28.7	23.5
75°	3512.1	2922.0	2384.1	1924.8	1334.7	694.8	327.2	90.3	28.7	23.5	19.6
77.5°	1960.2	1554.5	1175.1	895.0	532.6	217.2	108.7	45.8	24.8	18.3	15.7
80°	997.1	739.4	562.7	414.8	246.0	112.6	55.0	30.1	19.6	14.4	13.1
82.5°	579.6	425.3	338.9	268.3	168.8	85.0	44.5	22.2	13.1	10.5	11.8
85°	129.6	171.4	145.2	123.0	90.3	53.7	31.4	14.4	9.1	9.1	10.5
87.5°	10.5	14.4	13.1	17.0	18.3	17.0	13.1	7.8	6.5	7.8	7.8
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	189.8	189.8	189.8	189.8	189.8	189.8	189.8	189.8	189.8	189.8	189.8
2.5°	184.5	183.2	183.2	181.9	180.6	180.6	180.6	179.3	180.6	180.6	180.6
5°	179.3	178.0	176.7	175.3	174.0	172.7	172.7	171.4	171.4	171.4	172.7
7.5°	174.0	171.4	170.1	167.5	166.1	164.8	164.8	163.5	163.5	163.5	163.5
10°	167.5	164.8	162.2	160.9	159.6	157.0	157.0	155.7	154.4	154.4	154.4
12.5°	162.2	159.6	157.0	154.4	151.8	150.5	149.2	147.9	146.5	146.5	146.5
15°	157.0	153.1	150.5	147.9	145.2	142.6	141.3	140.0	138.7	137.4	137.4
17.5°	151.8	147.9	143.9	141.3	138.7	136.1	134.8	130.9	130.9	129.6	129.6
20°	145.2	141.3	137.4	134.8	132.2	129.6	126.9	124.3	121.7	120.4	120.4
22.5°	140.0	136.1	132.2	128.3	124.3	120.4	117.8	115.2	113.9	112.6	111.3
25°	134.8	129.6	124.3	120.4	116.5	112.6	110.0	107.3	104.7	103.3	103.3
27.5°	128.3	123.0	117.8	112.6	108.7	104.7	102.0	98.1	96.8	95.5	94.2
30°	121.7	115.2	110.0	104.7	100.7	95.5	92.9	90.3	87.6	87.6	86.3
32.5°	113.9	107.3	102.0	96.8	91.6	87.6	85.0	82.4	81.1	78.5	78.5
35°	106.0	99.4	92.9	87.6	83.7	79.8	77.2	74.6	72.0	70.7	70.7
37.5°	96.8	90.3	85.0	79.8	75.9	72.0	69.4	66.7	65.4	64.1	62.8
40°	86.3	79.8	75.9	72.0	68.0	65.4	61.5	58.9	57.6	56.3	55.0
42.5°	77.2	70.7	68.0	65.4	61.5	58.9	55.0	52.4	49.8	48.4	47.1
45°	69.4	64.1	61.5	58.9	55.0	51.1	48.4	45.8	43.2	41.9	41.9
47.5°	61.5	57.6	55.0	52.4	48.4	45.8	41.9	40.6	38.0	38.0	38.0
50°	56.3	52.4	49.8	47.1	44.5	40.6	38.0	36.7	35.3	35.3	36.7
52.5°	52.4	48.4	45.8	43.2	40.6	38.0	35.3	34.0	34.0	35.3	36.7
55°	48.4	44.5	41.9	39.3	36.7	35.3	32.7	32.7	34.0	35.3	36.7
57.5°	45.8	40.6	38.0	36.7	34.0	32.7	32.7	32.7	34.0	35.3	38.0
60°	41.9	36.7	34.0	34.0	31.4	31.4	31.4	32.7	34.0	36.7	38.0
62.5°	36.7	32.7	31.4	31.4	30.1	30.1	31.4	32.7	35.3	36.7	38.0
65°	31.4	28.7	28.7	28.7	28.7	30.1	31.4	32.7	34.0	36.7	38.0
66°	28.7	27.4	27.4	28.7	28.7	30.1	31.4	32.7	34.0	35.3	36.7
67.5°	27.4	26.1	26.1	27.4	28.7	28.7	30.1	32.7	34.0	35.3	35.3
70°	23.5	23.5	23.5	26.1	27.4	28.7	30.1	31.4	32.7	34.0	35.3
72.5°	20.9	20.9	22.2	23.5	26.1	27.4	28.7	30.1	32.7	34.0	34.0
75°	18.3	18.3	20.9	22.2	24.8	26.1	28.7	30.1	31.4	32.7	32.7
77.5°	15.7	17.0	19.6	22.2	23.5	26.1	27.4	28.7	30.1	31.4	31.4
80°	14.4	17.0	19.6	20.9	22.2	23.5	24.8	27.4	28.7	30.1	31.4
82.5°	14.4	15.7	18.3	19.6	20.9	23.5	24.8	26.1	27.4	28.7	30.1
85°	11.8	14.4	15.7	18.3	19.6	22.2	23.5	23.5	24.8	26.1	27.4
87.5°	9.1	10.5	10.5	13.1	14.4	17.0	19.6	19.6	20.9	22.2	23.5
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°	189.8	189.8	189.8	189.8
2.5°	180.6	181.9	181.9	181.9
5°	172.7	172.7	172.7	172.7
7.5°	163.5	163.5	163.5	163.5
10°	154.4	154.4	155.7	154.4
12.5°	146.5	145.2	145.2	145.2
15°	137.4	137.4	136.1	137.4
17.5°	128.3	128.3	126.9	126.9
20°	119.1	119.1	119.1	119.1
22.5°	111.3	110.0	110.0	110.0
25°	102.0	102.0	102.0	102.0
27.5°	94.2	94.2	94.2	94.2
30°	86.3	86.3	85.0	85.0
32.5°	78.5	78.5	78.5	78.5
35°	70.7	70.7	69.4	69.4
37.5°	61.5	61.5	61.5	61.5
40°	53.7	53.7	53.7	53.7
42.5°	47.1	47.1	45.8	45.8
45°	40.6	40.6	40.6	40.6
47.5°	38.0	38.0	38.0	38.0
50°	36.7	38.0	38.0	38.0
52.5°	38.0	38.0	38.0	38.0
55°	38.0	39.3	39.3	39.3
57.5°	38.0	39.3	39.3	40.6
60°	39.3	40.6	40.6	40.6
62.5°	39.3	40.6	40.6	40.6
65°	38.0	39.3	39.3	39.3
66°	38.0	38.0	38.0	39.3
67.5°	36.7	38.0	38.0	38.0
70°	35.3	36.7	36.7	38.0
72.5°	35.3	36.7	36.7	36.7
75°	34.0	34.0	35.3	35.3
77.5°	32.7	32.7	34.0	34.0
80°	31.4	32.7	32.7	32.7
82.5°	30.1	31.4	31.4	31.4
85°	27.4	28.7	28.7	28.7
87.5°	23.5	23.5	24.8	24.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)