

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: P181527

Luminaire Tested: **ICM-E02-LED-E1-T4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181527
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-E02-LED-E1-T4-HSS-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3036.9 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

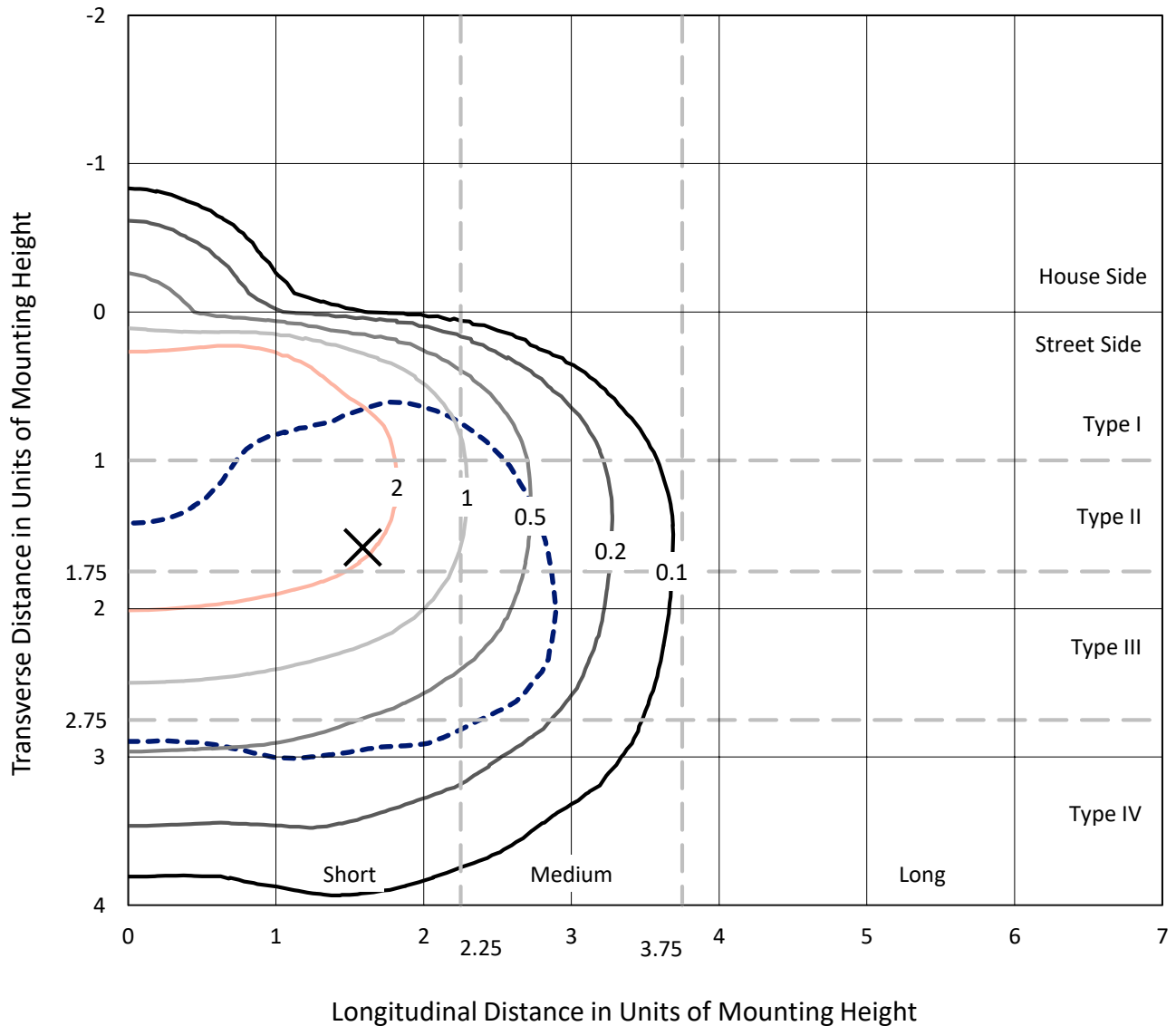
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

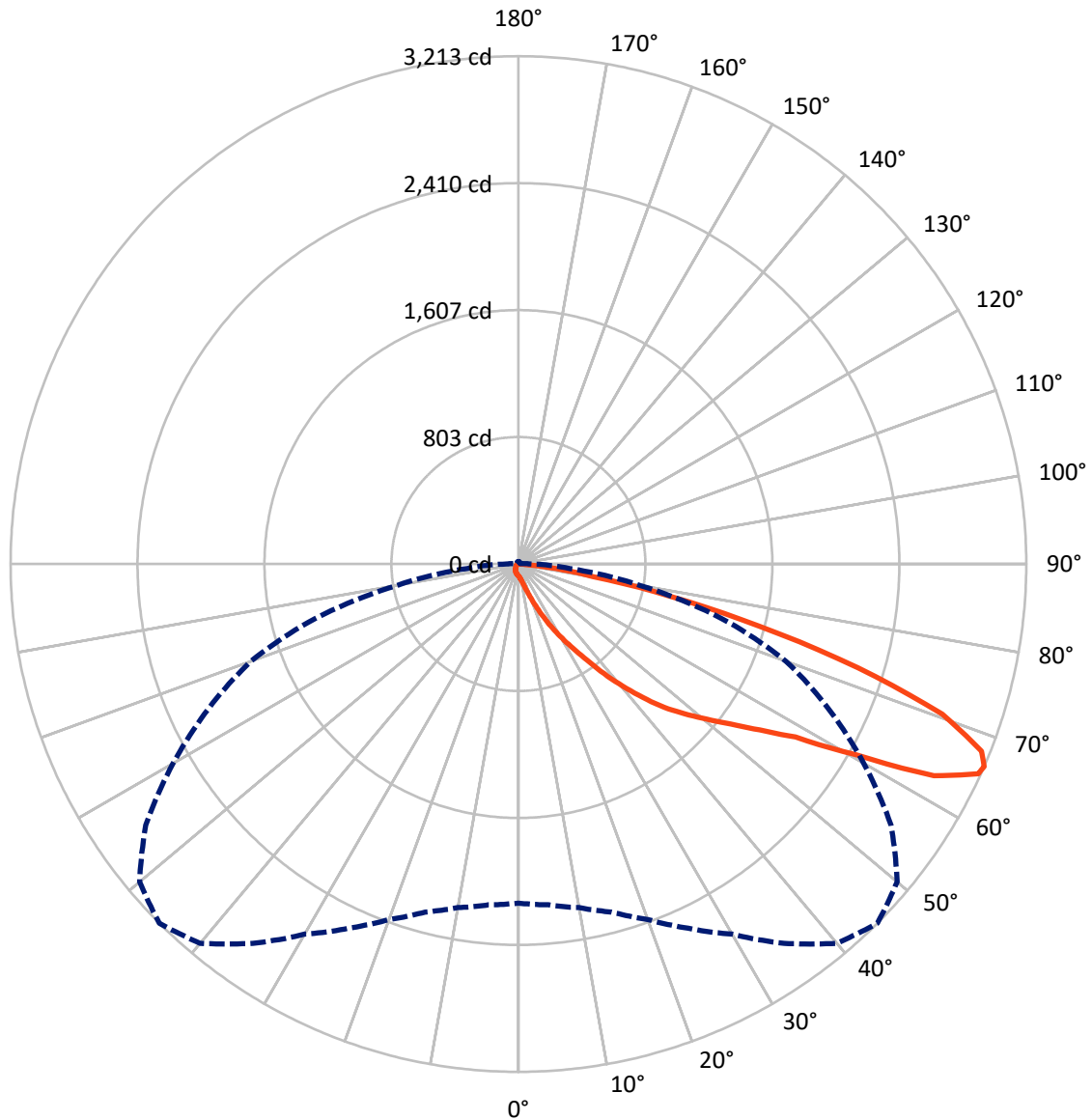
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 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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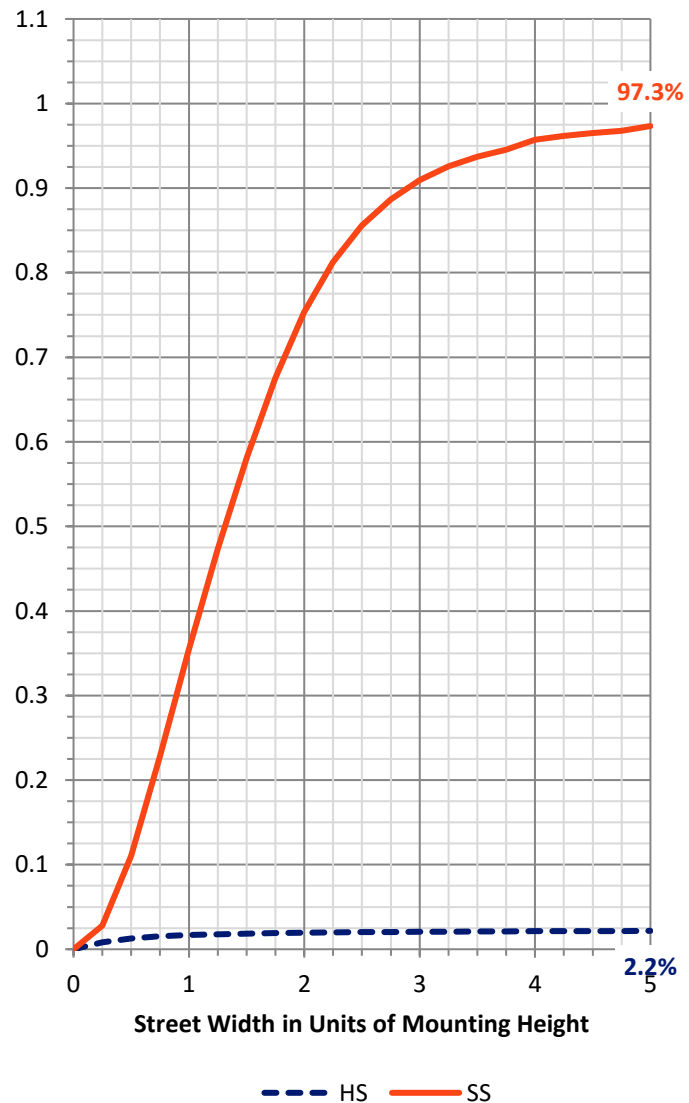
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	68.8	0.0	68.8
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	2968.1	0.0	2968.1
	% Fixture	97.7	0.0	97.7
Total	Lumens	3036.9	0.0	3036.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.6	0.3
10°-20°	31.0	1.0
20°-30°	90.7	3.0
30°-40°	211.9	7.0
40°-50°	398.1	13.1
50°-60°	659.7	21.7
60°-70°	1047.3	34.5
70°-80°	541.6	17.8
80°-90°	48.9	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°	3036.9	100.0
0°-180°	3036.9	100.0



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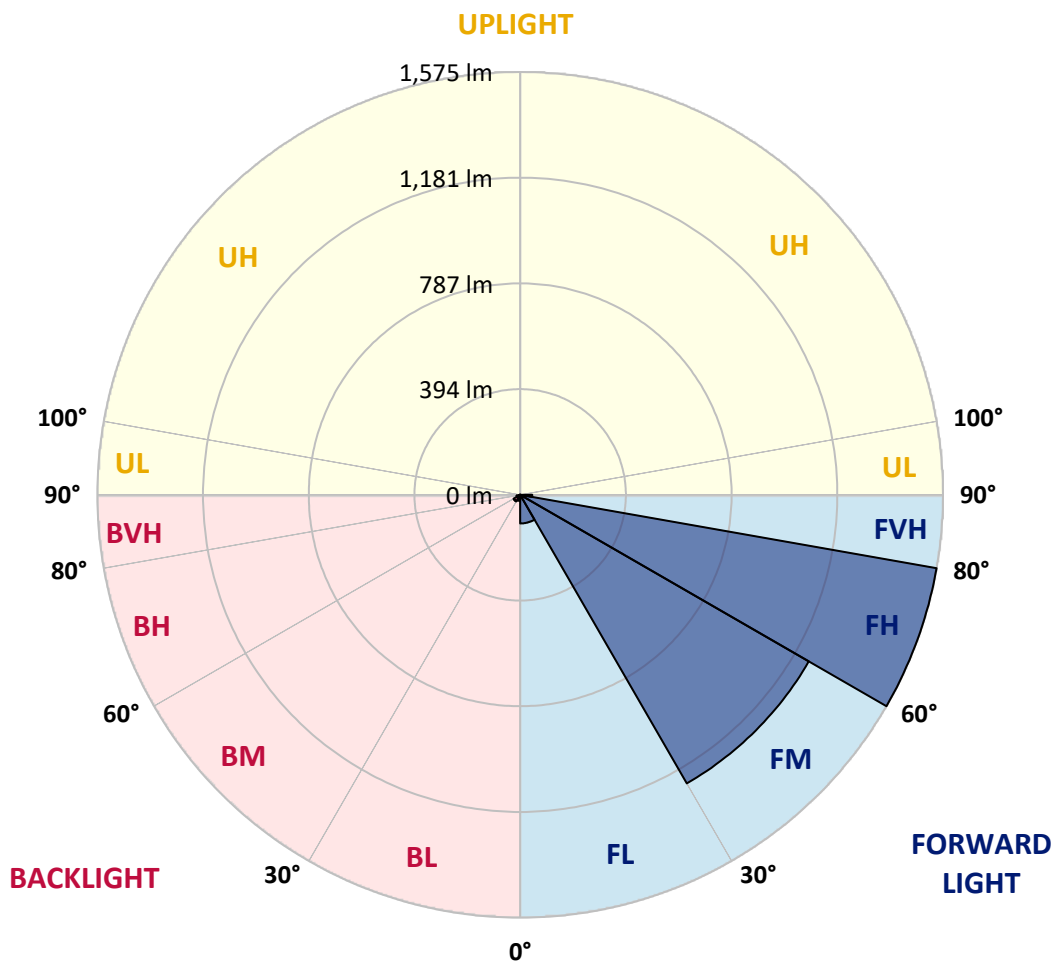
CATALOG NUMBER: ICM-E02-LED-E1-T4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	106.9	3.5			
FM (30°-60°)	1241.2	40.9			
FH (60°-80°)	1575.0	51.9			G1/1800
FVH (80°-90°)	45.1	1.5			G1/100
BL (0°-30°)	22.5	0.7	B0/110		
BM (30°-60°)	28.5	0.9	B0/220		
BH (60°-80°)	13.9	0.5	B0/110		G0/110
BVH (80°-90°)	3.9	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
2.5°	82.1	82.1	82.1	82.1	81.7	81.1	80.6	80.1	79.5	79.5	79.1
5°	93.2	93.7	93.2	92.7	91.6	91.1	89.5	88.5	86.9	86.3	84.8
7.5°	108.4	107.8	108.4	106.8	104.7	104.2	102.0	99.4	97.4	94.2	92.1
10°	130.3	129.8	130.3	127.2	124.1	121.4	117.8	114.6	110.0	106.2	102.0
12.5°	165.4	165.4	164.4	160.2	156.0	150.2	144.5	137.7	129.3	122.0	115.2
15°	219.4	216.7	212.0	209.4	202.0	193.1	186.9	173.2	161.2	149.7	136.1
17.5°	284.2	279.0	275.4	269.6	260.1	248.7	238.1	218.2	206.2	187.3	168.0
20°	358.5	352.3	351.2	342.3	332.4	319.8	304.7	281.0	260.7	237.1	209.9
22.5°	434.4	435.4	431.3	425.0	415.1	400.4	376.8	355.4	330.2	300.5	265.4
25°	519.3	518.7	515.1	507.7	500.4	482.0	463.3	442.8	412.9	374.8	332.9
27.5°	598.8	598.2	589.4	589.9	575.7	568.9	550.6	528.7	492.6	460.6	415.1
30°	682.0	676.7	671.0	666.8	656.8	644.8	635.4	609.2	582.1	544.4	507.2
32.5°	766.2	760.5	762.1	756.8	749.0	736.9	722.8	701.4	672.1	635.4	600.8
35°	869.4	866.8	862.6	864.2	862.6	853.7	841.7	813.4	781.5	746.4	710.8
37.5°	945.8	943.2	945.8	956.8	959.4	965.1	956.3	942.1	919.1	880.9	843.7
40°	1016.5	1016.9	1029.0	1042.6	1052.0	1070.9	1074.1	1068.3	1050.0	1014.9	966.2
42.5°	1079.8	1087.6	1098.6	1121.1	1141.6	1168.3	1188.1	1191.3	1177.7	1154.6	1105.4
45°	1150.4	1157.2	1174.5	1201.2	1229.5	1262.4	1294.4	1311.2	1310.1	1293.9	1241.0
47.5°	1229.5	1238.4	1257.2	1279.2	1316.9	1354.1	1395.5	1425.2	1437.8	1415.3	1364.0
50°	1325.3	1328.9	1345.1	1373.4	1408.0	1450.9	1495.9	1539.4	1563.9	1543.0	1490.1
52.5°	1438.9	1439.9	1455.1	1481.2	1509.0	1556.1	1600.1	1660.3	1692.2	1680.7	1617.3
55°	1594.8	1591.7	1602.1	1624.7	1647.2	1692.7	1736.7	1804.8	1851.3	1852.4	1784.8
57.5°	1807.8	1800.6	1807.4	1825.1	1850.2	1892.7	1948.1	2008.3	2070.6	2066.4	2010.9
60°	2104.7	2102.0	2114.5	2144.4	2187.4	2231.3	2294.1	2375.3	2430.2	2449.0	2390.9
62.5°	2302.0	2309.3	2338.1	2384.1	2466.8	2557.9	2674.6	2798.6	2903.4	2950.4	2870.3
65°	2217.1	2229.2	2274.2	2342.2	2451.6	2588.3	2743.2	2946.8	3127.4	3199.1	3115.8
66°	2145.4	2164.9	2207.2	2279.5	2393.5	2542.7	2704.5	2929.5	3132.6	3213.2	3128.4
67.5°	2021.4	2035.0	2083.2	2163.3	2285.7	2433.3	2608.1	2845.8	3075.0	3160.3	3076.1
70°	1768.6	1773.9	1813.1	1881.1	1975.8	2127.2	2285.7	2514.4	2725.4	2845.2	2753.1
72.5°	1316.4	1323.7	1388.6	1512.7	1635.6	1721.5	1815.2	1998.3	2134.4	2246.4	2228.7
75°	633.3	636.5	679.9	861.0	1100.8	1203.4	1290.2	1432.0	1483.8	1577.6	1563.5
77.5°	401.5	408.3	436.6	480.5	616.6	738.5	807.1	888.2	903.4	982.4	936.4
80°	110.4	128.3	156.5	230.3	395.2	471.1	502.0	498.8	502.0	477.9	462.1
82.5°	22.5	22.0	26.7	41.4	174.3	274.2	296.3	252.3	250.7	241.3	249.1
85°	5.8	5.2	6.3	13.1	29.9	81.1	102.0	57.0	43.4	41.4	36.7
87.5°	1.6	1.6	1.6	2.6	3.2	4.2	5.8	4.2	3.2	3.2	3.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
2.5°	78.5	78.5	78.0	77.5	77.5	76.9	76.4	75.9	75.3	74.9	74.3
5°	83.3	82.1	80.6	79.5	78.5	76.9	75.9	74.9	73.8	73.3	72.2
7.5°	89.5	86.9	84.8	81.7	79.5	77.5	75.3	73.8	72.2	71.2	70.1
10°	97.4	93.2	89.0	84.8	81.1	78.0	74.9	72.2	70.7	69.1	68.0
12.5°	107.3	101.0	95.3	89.0	83.3	78.5	74.3	71.2	69.1	67.5	66.0
15°	123.5	113.6	103.6	94.2	86.9	79.5	73.8	70.1	67.5	66.0	64.4
17.5°	149.2	131.3	115.6	102.6	90.5	81.1	73.8	69.1	66.0	63.8	62.3
20°	186.3	157.0	131.9	113.0	97.4	83.7	73.8	67.5	64.4	61.8	60.2
22.5°	230.3	193.7	159.1	127.7	105.2	87.4	73.8	66.0	62.3	60.2	58.1
25°	294.7	246.0	198.9	154.9	118.3	93.2	75.3	64.9	60.7	58.1	56.0
27.5°	370.0	311.4	252.8	191.1	138.1	101.6	77.5	63.8	59.2	56.0	54.0
30°	455.9	391.0	319.3	239.2	164.4	112.6	81.1	63.3	57.0	54.0	51.3
32.5°	549.0	480.5	402.0	300.9	203.1	129.3	85.9	62.8	55.0	51.3	48.2
35°	660.0	596.2	500.4	387.8	263.3	158.0	96.3	63.8	52.8	48.7	45.0
37.5°	781.5	713.4	611.9	480.0	323.0	190.5	104.2	62.3	49.2	45.0	41.4
40°	903.9	826.0	722.8	576.8	398.8	230.3	114.1	60.7	45.6	41.4	37.7
42.5°	1023.3	941.1	829.1	676.3	478.9	277.4	126.7	60.7	42.9	37.7	34.0
45°	1148.4	1049.4	927.0	771.5	558.5	331.4	144.5	60.2	39.8	34.5	30.3
47.5°	1266.6	1149.4	1008.6	855.3	643.8	390.4	164.8	60.7	37.1	31.4	27.7
50°	1378.6	1244.1	1092.4	930.1	725.4	454.3	190.0	61.2	34.5	28.7	25.1
52.5°	1501.1	1352.0	1182.4	1007.1	806.1	518.7	219.4	62.3	31.9	26.1	23.1
55°	1652.9	1487.5	1293.3	1101.2	891.4	583.6	247.5	63.3	29.3	24.1	20.9
57.5°	1871.7	1683.3	1473.4	1242.6	1004.4	657.4	276.8	66.0	27.3	22.5	19.3
60°	2227.6	2003.1	1760.8	1488.6	1173.5	757.4	319.3	71.7	24.6	20.4	18.3
62.5°	2655.7	2385.7	2077.4	1747.2	1332.6	824.9	347.5	78.0	22.5	18.9	17.3
65°	2871.5	2531.2	2175.8	1819.4	1353.0	805.0	336.0	75.9	19.9	16.7	14.7
66°	2877.7	2523.4	2162.2	1803.6	1332.1	780.9	325.0	74.9	19.3	16.2	13.6
67.5°	2818.1	2455.8	2090.0	1732.5	1270.3	734.3	305.1	71.2	17.8	14.7	12.0
70°	2523.4	2170.6	1835.1	1504.8	1092.8	618.7	255.9	62.8	15.7	13.1	11.0
72.5°	2011.5	1724.1	1441.5	1183.9	849.5	464.3	202.0	51.3	13.6	11.5	9.4
75°	1404.8	1168.8	953.7	770.0	533.9	278.0	130.9	36.1	11.5	9.4	7.8
77.5°	784.1	621.8	470.0	358.0	213.0	86.9	43.4	18.3	10.0	7.3	6.3
80°	398.8	295.7	225.0	166.0	98.4	45.0	22.0	12.0	7.8	5.8	5.2
82.5°	231.9	170.1	135.5	107.3	67.5	34.0	17.8	8.9	5.2	4.2	4.7
85°	51.8	68.6	58.1	49.2	36.1	21.5	12.6	5.8	3.6	3.6	4.2
87.5°	4.2	5.8	5.2	6.8	7.3	6.8	5.2	3.2	2.6	3.2	3.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
2.5°	73.8	73.3	73.3	72.7	72.2	72.2	72.2	71.7	72.2	72.2	72.2
5°	71.7	71.2	70.7	70.1	69.6	69.1	69.1	68.6	68.6	68.6	69.1
7.5°	69.6	68.6	68.0	67.0	66.5	66.0	66.0	65.4	65.4	65.4	65.4
10°	67.0	66.0	64.9	64.4	63.8	62.8	62.8	62.3	61.8	61.8	61.8
12.5°	64.9	63.8	62.8	61.8	60.7	60.2	59.6	59.2	58.6	58.6	58.6
15°	62.8	61.2	60.2	59.2	58.1	57.0	56.6	56.0	55.4	55.0	55.0
17.5°	60.7	59.2	57.6	56.6	55.4	54.4	54.0	52.4	52.4	51.8	51.8
20°	58.1	56.6	55.0	54.0	52.8	51.8	50.8	49.8	48.7	48.2	48.2
22.5°	56.0	54.4	52.8	51.3	49.8	48.2	47.1	46.0	45.6	45.0	44.5
25°	54.0	51.8	49.8	48.2	46.6	45.0	44.0	42.9	41.9	41.4	41.4
27.5°	51.3	49.2	47.1	45.0	43.4	41.9	40.8	39.3	38.7	38.2	37.7
30°	48.7	46.0	44.0	41.9	40.3	38.2	37.1	36.1	35.1	35.1	34.5
32.5°	45.6	42.9	40.8	38.7	36.7	35.1	34.0	32.9	32.5	31.4	31.4
35°	42.4	39.8	37.1	35.1	33.5	31.9	30.9	29.9	28.7	28.3	28.3
37.5°	38.7	36.1	34.0	31.9	30.3	28.7	27.7	26.7	26.1	25.7	25.1
40°	34.5	31.9	30.3	28.7	27.3	26.1	24.6	23.5	23.1	22.5	22.0
42.5°	30.9	28.3	27.3	26.1	24.6	23.5	22.0	20.9	19.9	19.3	18.9
45°	27.7	25.7	24.6	23.5	22.0	20.4	19.3	18.3	17.3	16.7	16.7
47.5°	24.6	23.1	22.0	20.9	19.3	18.3	16.7	16.2	15.2	15.2	15.2
50°	22.5	20.9	19.9	18.9	17.8	16.2	15.2	14.7	14.1	14.1	14.7
52.5°	20.9	19.3	18.3	17.3	16.2	15.2	14.1	13.6	13.6	14.1	14.7
55°	19.3	17.8	16.7	15.7	14.7	14.1	13.1	13.1	13.6	14.1	14.7
57.5°	18.3	16.2	15.2	14.7	13.6	13.1	13.1	13.1	13.6	14.1	15.2
60°	16.7	14.7	13.6	13.6	12.6	12.6	12.6	13.1	13.6	14.7	15.2
62.5°	14.7	13.1	12.6	12.6	12.0	12.0	12.6	13.1	14.1	14.7	15.2
65°	12.6	11.5	11.5	11.5	11.5	12.0	12.6	13.1	13.6	14.7	15.2
66°	11.5	11.0	11.0	11.5	11.5	12.0	12.6	13.1	13.6	14.1	14.7
67.5°	11.0	10.5	10.5	11.0	11.5	11.5	12.0	13.1	13.6	14.1	14.1
70°	9.4	9.4	9.4	10.5	11.0	11.5	12.0	12.6	13.1	13.6	14.1
72.5°	8.4	8.4	8.9	9.4	10.5	11.0	11.5	12.0	13.1	13.6	13.6
75°	7.3	7.3	8.4	8.9	10.0	10.5	11.5	12.0	12.6	13.1	13.1
77.5°	6.3	6.8	7.8	8.9	9.4	10.5	11.0	11.5	12.0	12.6	12.6
80°	5.8	6.8	7.8	8.4	8.9	9.4	10.0	11.0	11.5	12.0	12.6
82.5°	5.8	6.3	7.3	7.8	8.4	9.4	10.0	10.5	11.0	11.5	12.0
85°	4.7	5.8	6.3	7.3	7.8	8.9	9.4	9.4	10.0	10.5	11.0
87.5°	3.6	4.2	4.2	5.2	5.8	6.8	7.8	7.8	8.4	8.9	9.4
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):

	165°	170°	175°	180°
0°	75.9	75.9	75.9	75.9
2.5°	72.2	72.7	72.7	72.7
5°	69.1	69.1	69.1	69.1
7.5°	65.4	65.4	65.4	65.4
10°	61.8	61.8	62.3	61.8
12.5°	58.6	58.1	58.1	58.1
15°	55.0	55.0	54.4	55.0
17.5°	51.3	51.3	50.8	50.8
20°	47.6	47.6	47.6	47.6
22.5°	44.5	44.0	44.0	44.0
25°	40.8	40.8	40.8	40.8
27.5°	37.7	37.7	37.7	37.7
30°	34.5	34.5	34.0	34.0
32.5°	31.4	31.4	31.4	31.4
35°	28.3	28.3	27.7	27.7
37.5°	24.6	24.6	24.6	24.6
40°	21.5	21.5	21.5	21.5
42.5°	18.9	18.9	18.3	18.3
45°	16.2	16.2	16.2	16.2
47.5°	15.2	15.2	15.2	15.2
50°	14.7	15.2	15.2	15.2
52.5°	15.2	15.2	15.2	15.2
55°	15.2	15.7	15.7	15.7
57.5°	15.2	15.7	15.7	16.2
60°	15.7	16.2	16.2	16.2
62.5°	15.7	16.2	16.2	16.2
65°	15.2	15.7	15.7	15.7
66°	15.2	15.2	15.2	15.7
67.5°	14.7	15.2	15.2	15.2
70°	14.1	14.7	14.7	15.2
72.5°	14.1	14.7	14.7	14.7
75°	13.6	13.6	14.1	14.1
77.5°	13.1	13.1	13.6	13.6
80°	12.6	13.1	13.1	13.1
82.5°	12.0	12.6	12.6	12.6
85°	11.0	11.5	11.5	11.5
87.5°	9.4	9.4	10.0	10.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)