

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: P181602

Luminaire Tested: **ICS-F03-LED-E1-T4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181602
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-F03-LED-E1-T4-HSS-8030
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3638.5 lumens
Efficiency: N/A
Efficacy: 46.5 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

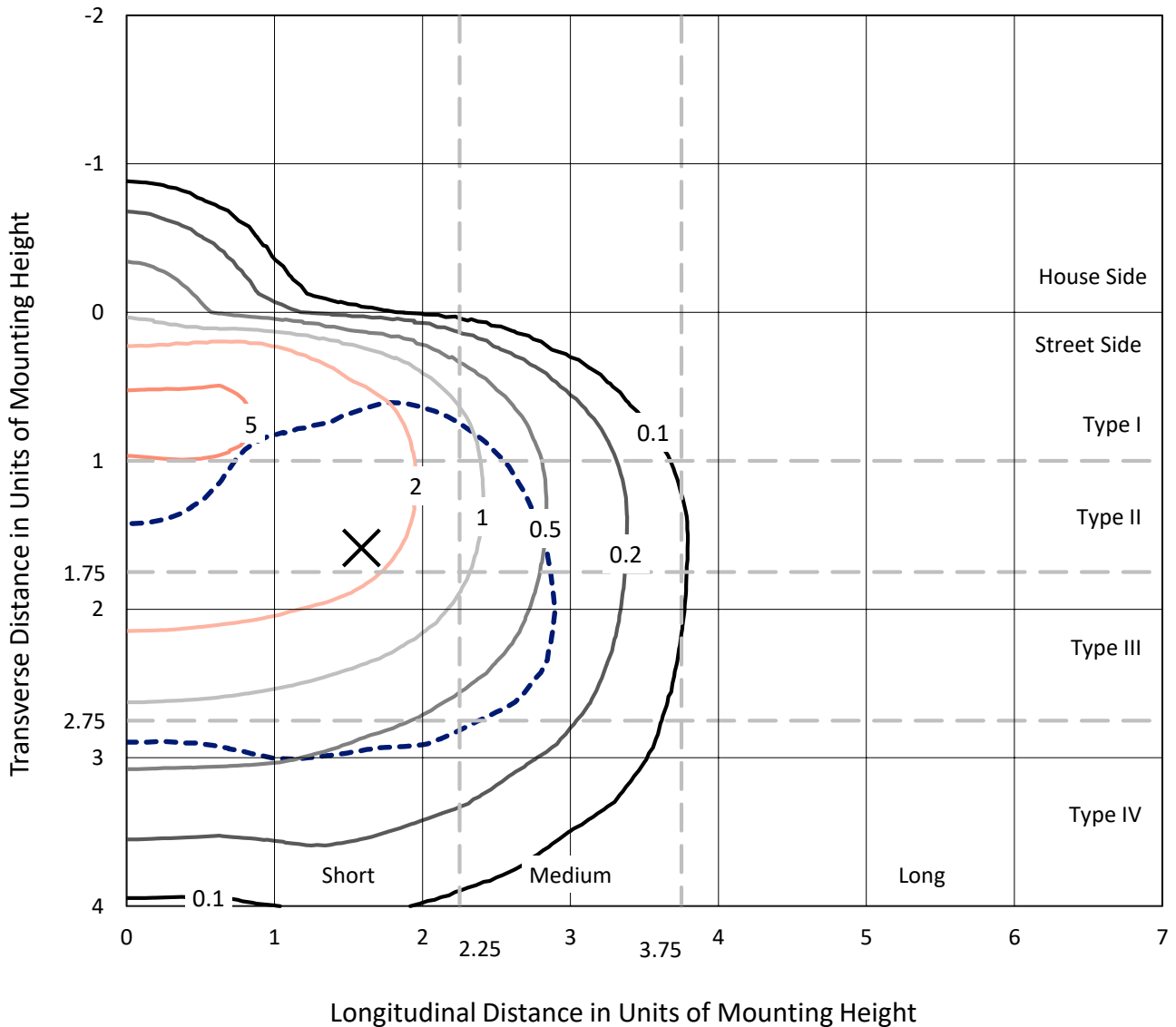
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

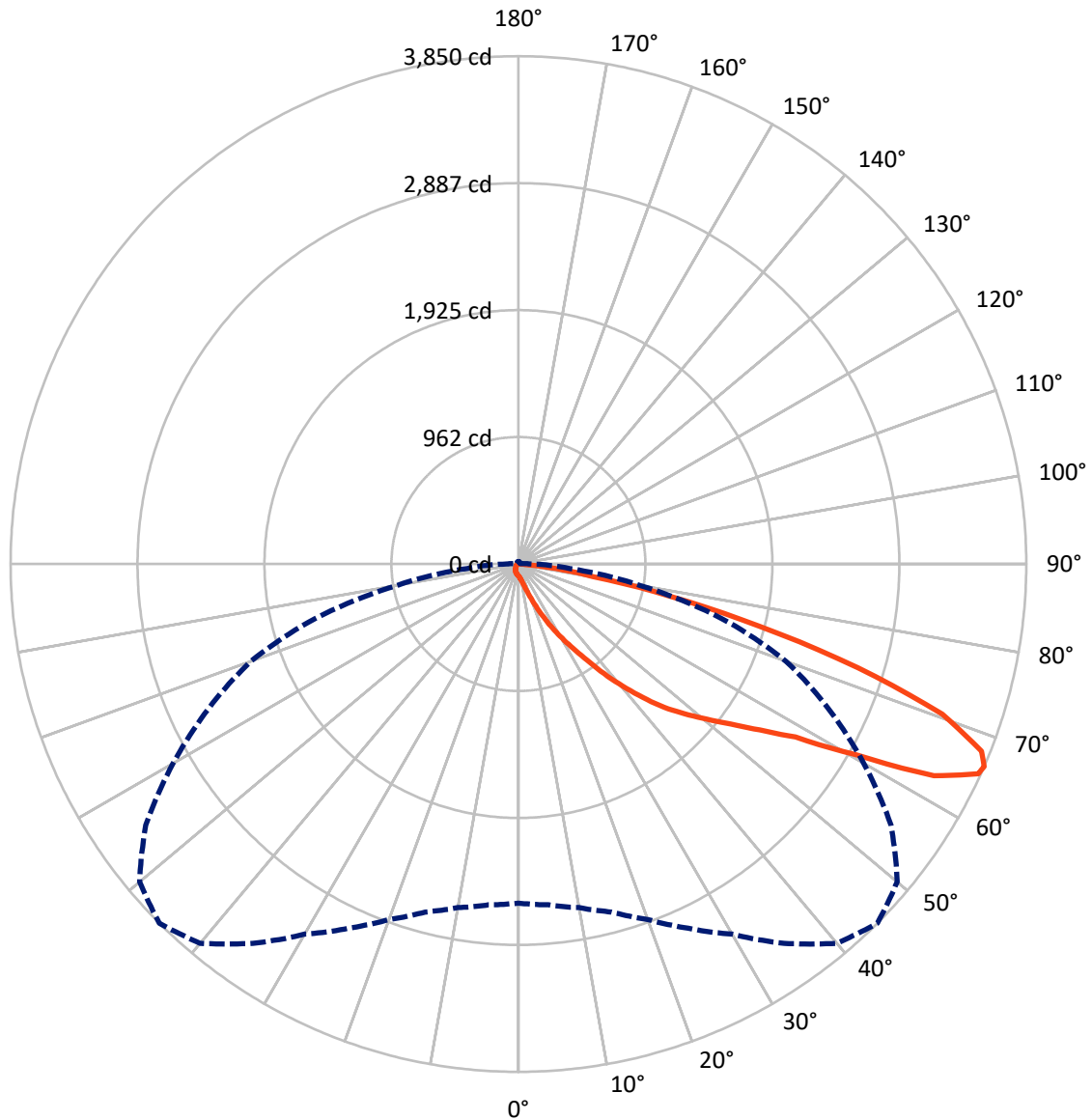
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 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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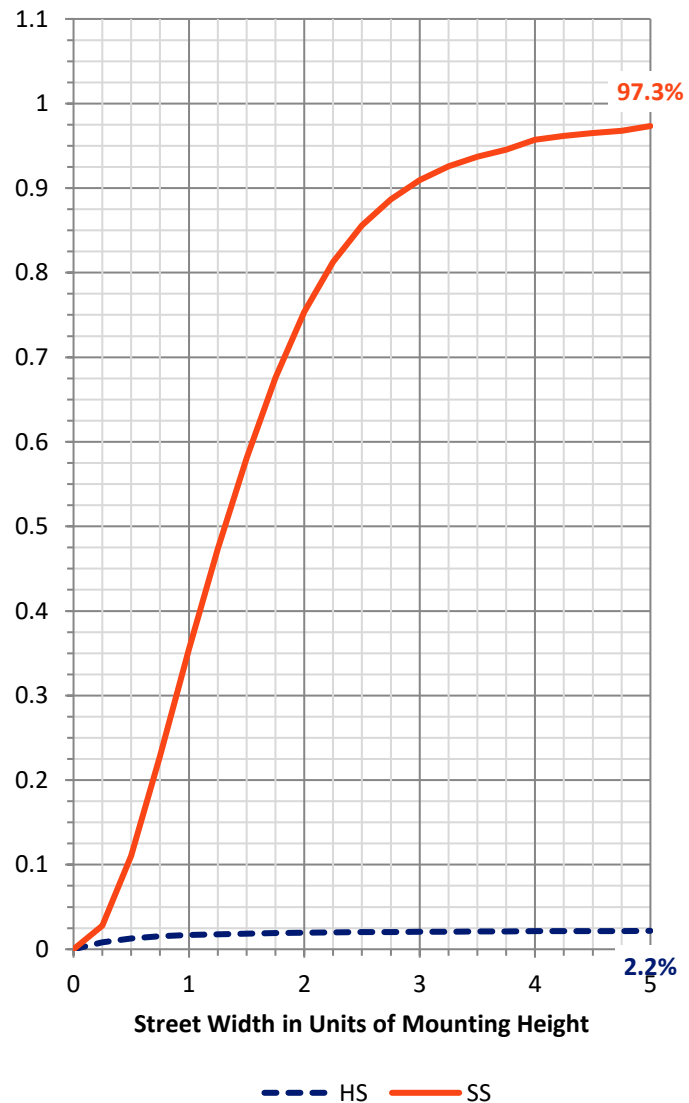
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	82.5	0.0	82.5
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	3556.0	0.0	3556.0
	% Fixture	97.7	0.0	97.7
Total	Lumens	3638.5	0.0	3638.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.2	0.3
10°-20°	37.1	1.0
20°-30°	108.7	3.0
30°-40°	253.9	7.0
40°-50°	476.9	13.1
50°-60°	790.4	21.7
60°-70°	1254.7	34.5
70°-80°	648.9	17.8
80°-90°	58.6	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°	3638.5	100.0
0°-180°	3638.5	100.0



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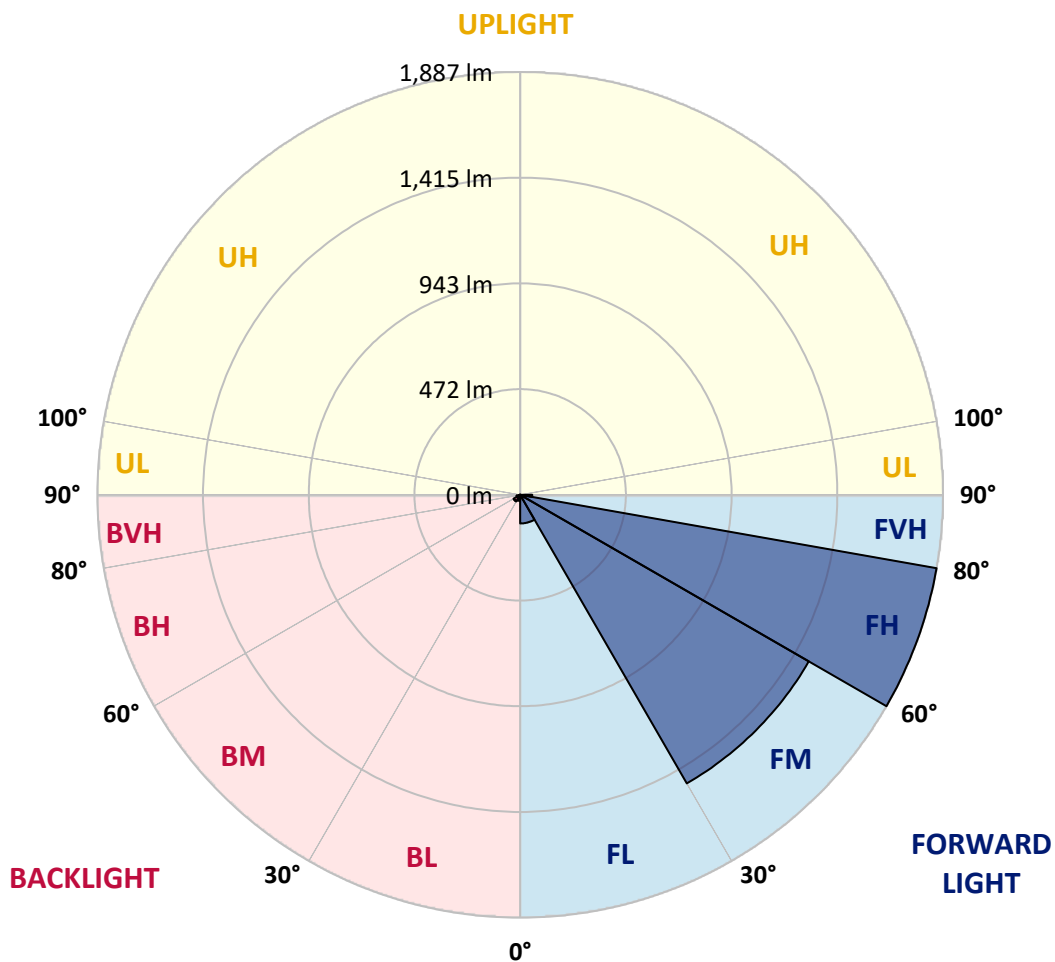
CATALOG NUMBER: ICS-F03-LED-E1-T4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	128.0	3.5			
FM	(30°-60°)	1487.1	40.9			
FH	(60°-80°)	1887.0	51.9			G2/5000
FVH	(80°-90°)	54.0	1.5			G1/100
BL	(0°-30°)	26.9	0.7	B0/110		
BM	(30°-60°)	34.2	0.9	B0/220		
BH	(60°-80°)	16.7	0.5	B0/110		G0/110
BVH	(80°-90°)	4.6	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°	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
2.5°	98.5	98.5	98.5	98.5	97.8	97.2	96.6	95.9	95.3	95.3	94.7
5°	111.6	112.3	111.6	111.0	109.7	109.1	107.2	106.0	104.1	103.5	101.6
7.5°	129.8	129.2	129.8	127.9	125.4	124.8	122.3	119.1	116.6	112.9	110.4
10°	156.1	155.5	156.1	152.4	148.6	145.5	141.1	137.3	131.7	127.3	122.3
12.5°	198.2	198.2	196.9	191.9	186.9	180.0	173.1	164.9	154.9	146.1	138.0
15°	262.8	259.6	254.0	250.8	242.1	231.4	223.9	207.6	193.1	179.3	163.0
17.5°	340.5	334.2	329.9	323.0	311.7	297.9	285.3	261.5	247.1	224.5	201.3
20°	429.6	422.0	420.8	410.1	398.2	383.2	365.0	336.8	312.3	284.1	251.5
22.5°	520.5	521.7	516.7	509.2	497.3	479.7	451.5	425.8	395.7	360.0	317.9
25°	622.1	621.5	617.1	608.3	599.5	577.6	555.0	530.5	494.8	449.0	398.8
27.5°	717.4	716.8	706.1	706.7	689.8	681.7	659.7	633.4	590.1	551.8	497.3
30°	817.1	810.8	803.9	798.9	787.0	772.6	761.3	729.9	697.3	652.2	607.7
32.5°	918.1	911.2	913.1	906.8	897.4	883.0	866.0	840.3	805.2	761.3	719.9
35°	1041.6	1038.5	1033.5	1035.3	1033.5	1022.8	1008.4	974.5	936.3	894.2	851.6
37.5°	1133.2	1130.0	1133.2	1146.3	1149.5	1156.4	1145.7	1128.8	1101.2	1055.4	1010.9
40°	1217.8	1218.4	1232.9	1249.2	1260.5	1283.0	1286.8	1279.9	1258.0	1215.9	1157.6
42.5°	1293.7	1303.1	1316.3	1343.2	1367.7	1399.7	1423.5	1427.3	1411.0	1383.4	1324.4
45°	1378.4	1386.5	1407.2	1439.2	1473.0	1512.6	1550.8	1570.9	1569.6	1550.2	1486.8
47.5°	1473.0	1483.7	1506.3	1532.6	1577.8	1622.3	1671.8	1707.6	1722.6	1695.7	1634.2
50°	1587.8	1592.2	1611.6	1645.5	1686.9	1738.3	1792.2	1844.3	1873.8	1848.7	1785.3
52.5°	1723.9	1725.1	1743.3	1774.7	1807.9	1864.4	1917.0	1989.1	2027.4	2013.6	1937.7
55°	1910.8	1907.0	1919.5	1946.5	1973.5	2028.0	2080.7	2162.2	2218.0	2219.3	2138.4
57.5°	2166.0	2157.2	2165.4	2186.7	2216.8	2267.6	2334.1	2406.2	2480.8	2475.8	2409.3
60°	2521.6	2518.4	2533.5	2569.2	2620.6	2673.3	2748.6	2845.8	2911.6	2934.2	2864.6
62.5°	2758.0	2766.7	2801.2	2856.4	2955.5	3064.6	3204.5	3353.1	3478.5	3534.9	3439.0
65°	2656.4	2670.8	2724.7	2806.3	2937.3	3101.0	3286.6	3530.6	3746.9	3832.8	3733.1
66°	2570.5	2593.7	2644.5	2731.0	2867.7	3046.4	3240.2	3509.9	3753.2	3849.7	3748.2
67.5°	2421.8	2438.1	2495.8	2591.8	2738.5	2915.4	3124.8	3409.5	3684.2	3786.4	3685.4
70°	2119.0	2125.2	2172.3	2253.8	2367.3	2548.5	2738.5	3012.6	3265.3	3408.9	3298.5
72.5°	1577.1	1585.9	1663.7	1812.3	1959.7	2062.5	2174.8	2394.3	2557.3	2691.5	2670.2
75°	758.8	762.5	814.6	1031.6	1318.8	1441.7	1545.8	1715.7	1777.8	1890.1	1873.1
77.5°	481.0	489.1	523.0	575.7	738.7	884.8	967.0	1064.2	1082.4	1177.1	1121.9
80°	132.3	153.6	187.5	275.9	473.5	564.4	601.4	597.6	601.4	572.5	553.7
82.5°	27.0	26.3	32.0	49.5	208.8	328.6	354.9	302.3	300.4	289.1	298.5
85°	6.9	6.3	7.5	15.7	35.7	97.2	122.3	68.4	52.0	49.5	43.9
87.5°	1.9	1.9	1.9	3.1	3.8	5.0	6.9	5.0	3.8	3.8	3.8
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°	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
2.5°	94.1	94.1	93.4	92.8	92.8	92.2	91.6	90.9	90.3	89.7	89.0
5°	99.7	98.5	96.6	95.3	94.1	92.2	90.9	89.7	88.4	87.8	86.5
7.5°	107.2	104.1	101.6	97.8	95.3	92.8	90.3	88.4	86.5	85.3	84.0
10°	116.6	111.6	106.6	101.6	97.2	93.4	89.7	86.5	84.7	82.8	81.5
12.5°	128.6	121.0	114.1	106.6	99.7	94.1	89.0	85.3	82.8	80.9	79.0
15°	148.0	136.1	124.2	112.9	104.1	95.3	88.4	84.0	80.9	79.0	77.1
17.5°	178.7	157.4	138.6	122.9	108.5	97.2	88.4	82.8	79.0	76.5	74.6
20°	223.2	188.1	158.0	135.5	116.6	100.3	88.4	80.9	77.1	74.0	72.1
22.5°	275.9	232.0	190.6	153.0	126.0	104.7	88.4	79.0	74.6	72.1	69.6
25°	353.1	294.7	238.3	185.6	141.7	111.6	90.3	77.8	72.7	69.6	67.1
27.5°	443.4	373.1	302.9	228.9	165.6	121.7	92.8	76.5	70.9	67.1	64.6
30°	546.2	468.4	382.5	286.6	196.9	134.8	97.2	75.9	68.4	64.6	61.5
32.5°	657.8	575.7	481.6	360.6	243.3	154.9	102.8	75.3	65.8	61.5	57.7
35°	790.8	714.3	599.5	464.7	315.4	189.4	115.4	76.5	63.3	58.3	53.9
37.5°	936.3	854.7	733.1	575.0	386.9	228.3	124.8	74.6	58.9	53.9	49.5
40°	1083.0	989.6	866.0	691.1	477.8	275.9	136.7	72.7	54.6	49.5	45.2
42.5°	1226.0	1127.5	993.3	810.2	573.8	332.4	151.8	72.7	51.4	45.2	40.8
45°	1375.8	1257.3	1110.6	924.3	669.1	397.0	173.1	72.1	47.7	41.4	36.4
47.5°	1517.6	1377.1	1208.4	1024.7	771.3	467.8	197.5	72.7	44.5	37.6	33.2
50°	1651.8	1490.6	1308.7	1114.3	869.2	544.3	227.6	73.4	41.4	34.5	30.1
52.5°	1798.5	1619.8	1416.6	1206.5	965.7	621.5	262.8	74.6	38.3	31.4	27.6
55°	1980.4	1782.2	1549.6	1319.4	1067.9	699.2	296.6	75.9	35.1	28.8	25.1
57.5°	2242.5	2016.7	1765.3	1488.7	1203.4	787.6	331.7	79.0	32.6	27.0	23.2
60°	2668.9	2399.9	2109.6	1783.5	1405.9	907.4	382.5	85.9	29.5	24.5	21.9
62.5°	3181.9	2858.3	2488.9	2093.2	1596.6	988.3	416.4	93.4	27.0	22.6	20.7
65°	3440.2	3032.6	2606.8	2179.8	1621.0	964.5	402.6	90.9	23.8	20.1	17.6
66°	3447.8	3023.2	2590.5	2161.0	1596.0	935.6	389.4	89.7	23.2	19.4	16.3
67.5°	3376.3	2942.3	2504.0	2075.7	1522.0	879.8	365.6	85.3	21.3	17.6	14.4
70°	3023.2	2600.6	2198.6	1802.9	1309.4	741.2	306.6	75.3	18.8	15.7	13.2
72.5°	2409.9	2065.7	1727.0	1418.5	1017.8	556.2	242.1	61.5	16.3	13.8	11.3
75°	1683.1	1400.3	1142.6	922.5	639.6	333.0	156.8	43.3	13.8	11.3	9.4
77.5°	939.4	745.0	563.1	428.9	255.2	104.1	52.0	21.9	11.9	8.8	7.5
80°	477.8	354.3	269.7	198.8	117.9	53.9	26.3	14.4	9.4	6.9	6.3
82.5°	277.8	203.8	162.4	128.6	80.9	40.8	21.3	10.7	6.3	5.0	5.6
85°	62.1	82.1	69.6	58.9	43.3	25.7	15.1	6.9	4.4	4.4	5.0
87.5°	5.0	6.9	6.3	8.2	8.8	8.2	6.3	3.8	3.1	3.8	3.8
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°	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
2.5°	88.4	87.8	87.8	87.2	86.5	86.5	86.5	85.9	86.5	86.5	86.5
5°	85.9	85.3	84.7	84.0	83.4	82.8	82.8	82.1	82.1	82.1	82.8
7.5°	83.4	82.1	81.5	80.3	79.6	79.0	79.0	78.4	78.4	78.4	78.4
10°	80.3	79.0	77.8	77.1	76.5	75.3	75.3	74.6	74.0	74.0	74.0
12.5°	77.8	76.5	75.3	74.0	72.7	72.1	71.5	70.9	70.2	70.2	70.2
15°	75.3	73.4	72.1	70.9	69.6	68.4	67.7	67.1	66.5	65.8	65.8
17.5°	72.7	70.9	69.0	67.7	66.5	65.2	64.6	62.7	62.7	62.1	62.1
20°	69.6	67.7	65.8	64.6	63.3	62.1	60.8	59.6	58.3	57.7	57.7
22.5°	67.1	65.2	63.3	61.5	59.6	57.7	56.4	55.2	54.6	53.9	53.3
25°	64.6	62.1	59.6	57.7	55.8	53.9	52.7	51.4	50.2	49.5	49.5
27.5°	61.5	58.9	56.4	53.9	52.0	50.2	48.9	47.0	46.4	45.8	45.2
30°	58.3	55.2	52.7	50.2	48.3	45.8	44.5	43.3	42.0	42.0	41.4
32.5°	54.6	51.4	48.9	46.4	43.9	42.0	40.8	39.5	38.9	37.6	37.6
35°	50.8	47.7	44.5	42.0	40.1	38.3	37.0	35.7	34.5	33.9	33.9
37.5°	46.4	43.3	40.8	38.3	36.4	34.5	33.2	32.0	31.4	30.7	30.1
40°	41.4	38.3	36.4	34.5	32.6	31.4	29.5	28.2	27.6	27.0	26.3
42.5°	37.0	33.9	32.6	31.4	29.5	28.2	26.3	25.1	23.8	23.2	22.6
45°	33.2	30.7	29.5	28.2	26.3	24.5	23.2	21.9	20.7	20.1	20.1
47.5°	29.5	27.6	26.3	25.1	23.2	21.9	20.1	19.4	18.2	18.2	18.2
50°	27.0	25.1	23.8	22.6	21.3	19.4	18.2	17.6	16.9	16.9	17.6
52.5°	25.1	23.2	21.9	20.7	19.4	18.2	16.9	16.3	16.3	16.9	17.6
55°	23.2	21.3	20.1	18.8	17.6	16.9	15.7	15.7	16.3	16.9	17.6
57.5°	21.9	19.4	18.2	17.6	16.3	15.7	15.7	15.7	16.3	16.9	18.2
60°	20.1	17.6	16.3	16.3	15.1	15.1	15.1	15.7	16.3	17.6	18.2
62.5°	17.6	15.7	15.1	15.1	14.4	14.4	15.1	15.7	16.9	17.6	18.2
65°	15.1	13.8	13.8	13.8	13.8	14.4	15.1	15.7	16.3	17.6	18.2
66°	13.8	13.2	13.2	13.8	13.8	14.4	15.1	15.7	16.3	16.9	17.6
67.5°	13.2	12.5	12.5	13.2	13.8	13.8	14.4	15.7	16.3	16.9	16.9
70°	11.3	11.3	11.3	12.5	13.2	13.8	14.4	15.1	15.7	16.3	16.9
72.5°	10.0	10.0	10.7	11.3	12.5	13.2	13.8	14.4	15.7	16.3	16.3
75°	8.8	8.8	10.0	10.7	11.9	12.5	13.8	14.4	15.1	15.7	15.7
77.5°	7.5	8.2	9.4	10.7	11.3	12.5	13.2	13.8	14.4	15.1	15.1
80°	6.9	8.2	9.4	10.0	10.7	11.3	11.9	13.2	13.8	14.4	15.1
82.5°	6.9	7.5	8.8	9.4	10.0	11.3	11.9	12.5	13.2	13.8	14.4
85°	5.6	6.9	7.5	8.8	9.4	10.7	11.3	11.3	11.9	12.5	13.2
87.5°	4.4	5.0	5.0	6.3	6.9	8.2	9.4	9.4	10.0	10.7	11.3
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°	90.9	90.9	90.9	90.9
2.5°	86.5	87.2	87.2	87.2
5°	82.8	82.8	82.8	82.8
7.5°	78.4	78.4	78.4	78.4
10°	74.0	74.0	74.6	74.0
12.5°	70.2	69.6	69.6	69.6
15°	65.8	65.8	65.2	65.8
17.5°	61.5	61.5	60.8	60.8
20°	57.1	57.1	57.1	57.1
22.5°	53.3	52.7	52.7	52.7
25°	48.9	48.9	48.9	48.9
27.5°	45.2	45.2	45.2	45.2
30°	41.4	41.4	40.8	40.8
32.5°	37.6	37.6	37.6	37.6
35°	33.9	33.9	33.2	33.2
37.5°	29.5	29.5	29.5	29.5
40°	25.7	25.7	25.7	25.7
42.5°	22.6	22.6	21.9	21.9
45°	19.4	19.4	19.4	19.4
47.5°	18.2	18.2	18.2	18.2
50°	17.6	18.2	18.2	18.2
52.5°	18.2	18.2	18.2	18.2
55°	18.2	18.8	18.8	18.8
57.5°	18.2	18.8	18.8	19.4
60°	18.8	19.4	19.4	19.4
62.5°	18.8	19.4	19.4	19.4
65°	18.2	18.8	18.8	18.8
66°	18.2	18.2	18.2	18.8
67.5°	17.6	18.2	18.2	18.2
70°	16.9	17.6	17.6	18.2
72.5°	16.9	17.6	17.6	17.6
75°	16.3	16.3	16.9	16.9
77.5°	15.7	15.7	16.3	16.3
80°	15.1	15.7	15.7	15.7
82.5°	14.4	15.1	15.1	15.1
85°	13.2	13.8	13.8	13.8
87.5°	11.3	11.3	11.9	11.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)