

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: P181234

Luminaire Tested: **ICM-E01-LED-E1-T2**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181234
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E01-LED-E1-T2
Description: ICON SITE MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2850.1 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

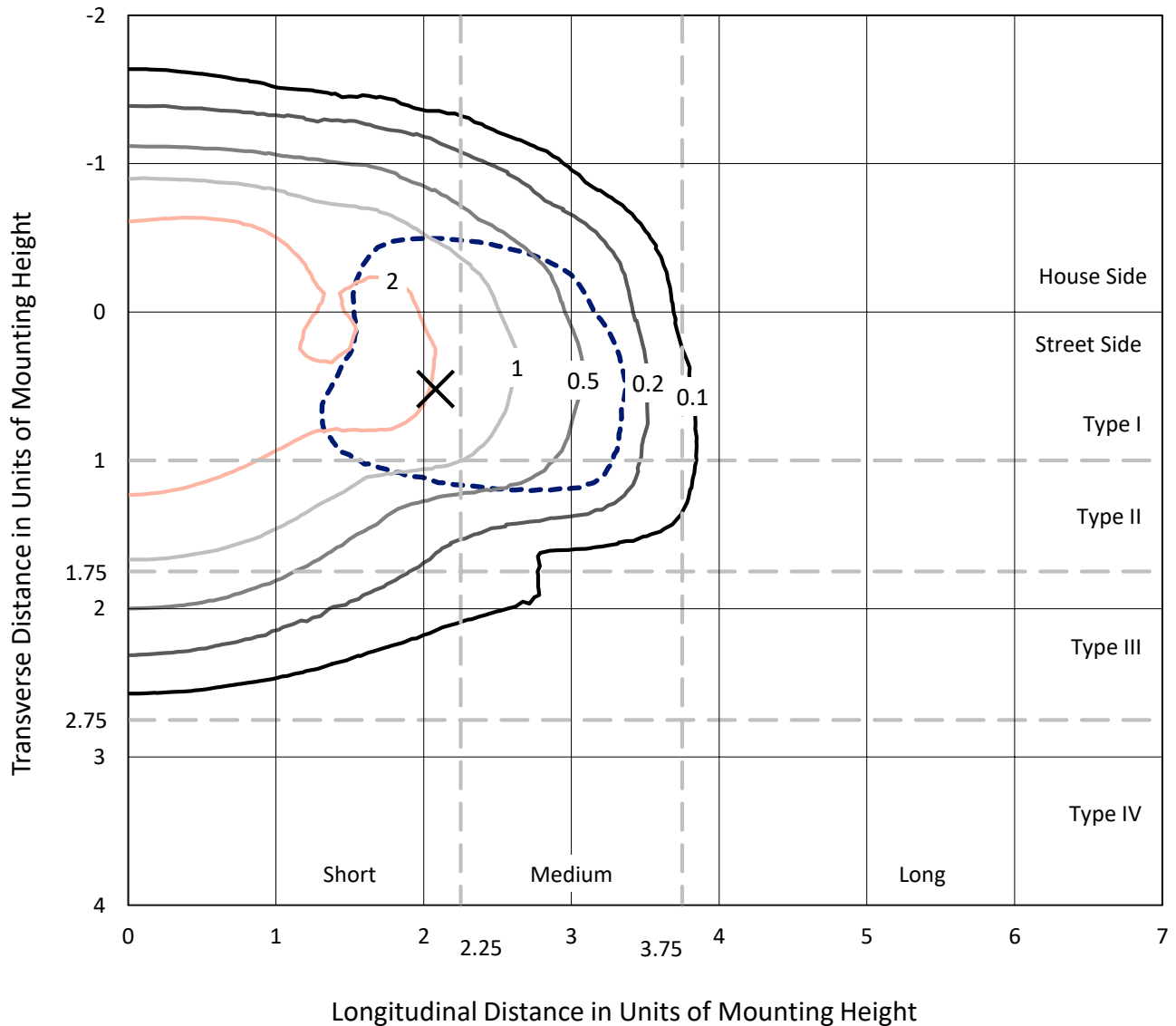
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

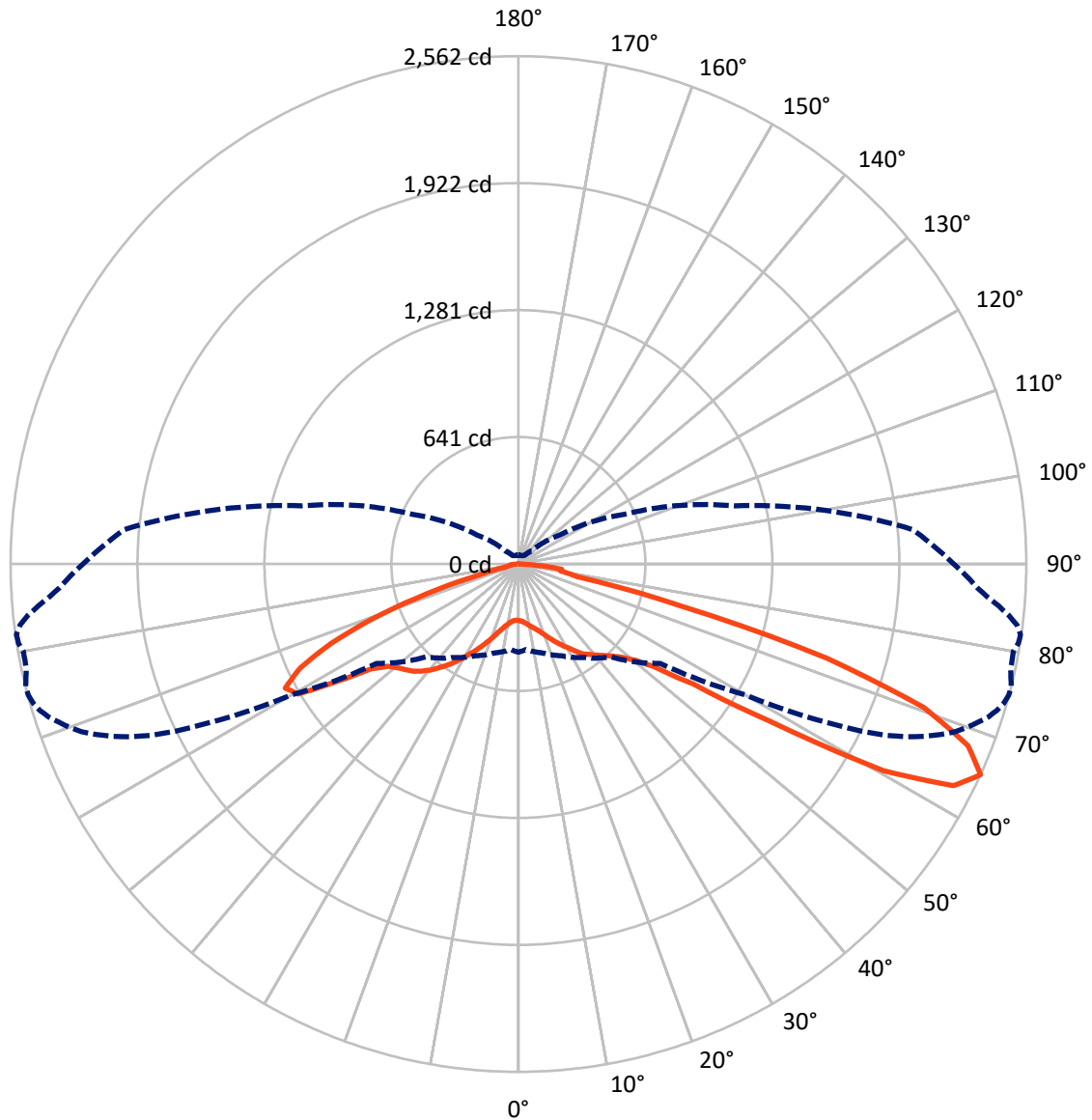
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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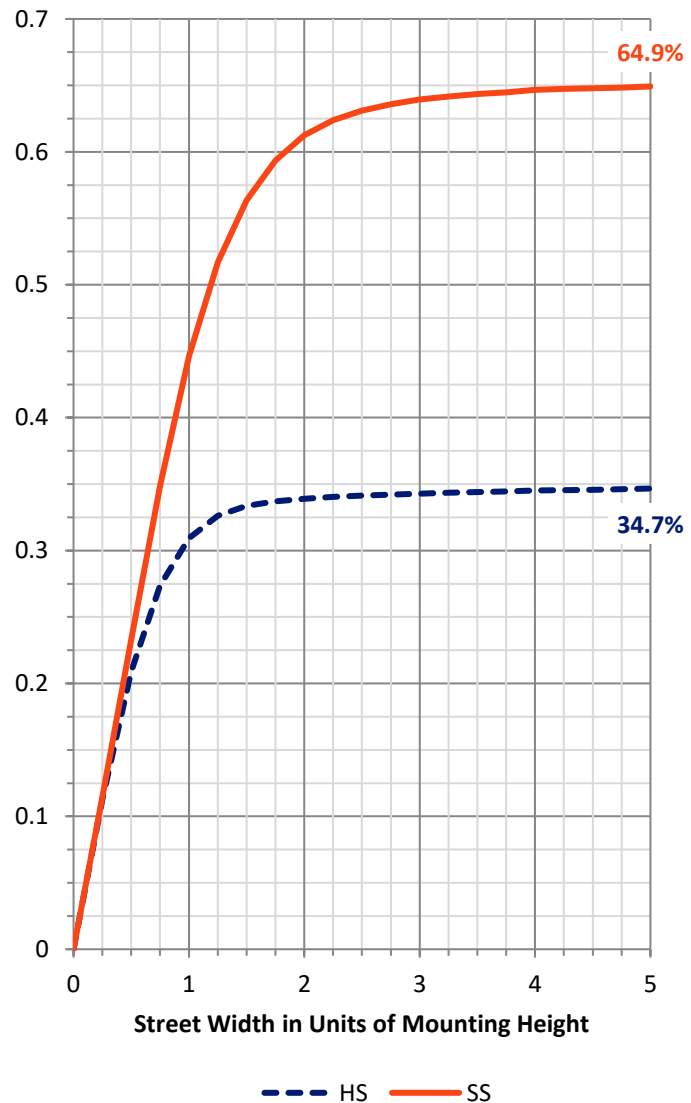
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	998.0	0.0	998.0
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	1852.1	0.0	1852.1
	% Fixture	65.0	0.0	65.0
Total	Lumens	2850.1	0.0	2850.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.5	1.0
10°-20°	98.0	3.4
20°-30°	192.6	6.8
30°-40°	319.9	11.2
40°-50°	470.1	16.5
50°-60°	650.9	22.8
60°-70°	776.9	27.3
70°-80°	274.7	9.6
80°-90°	38.4	1.3
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°	2850.1	100.0
0°-180°	2850.1	100.0

Coefficient of Utilization



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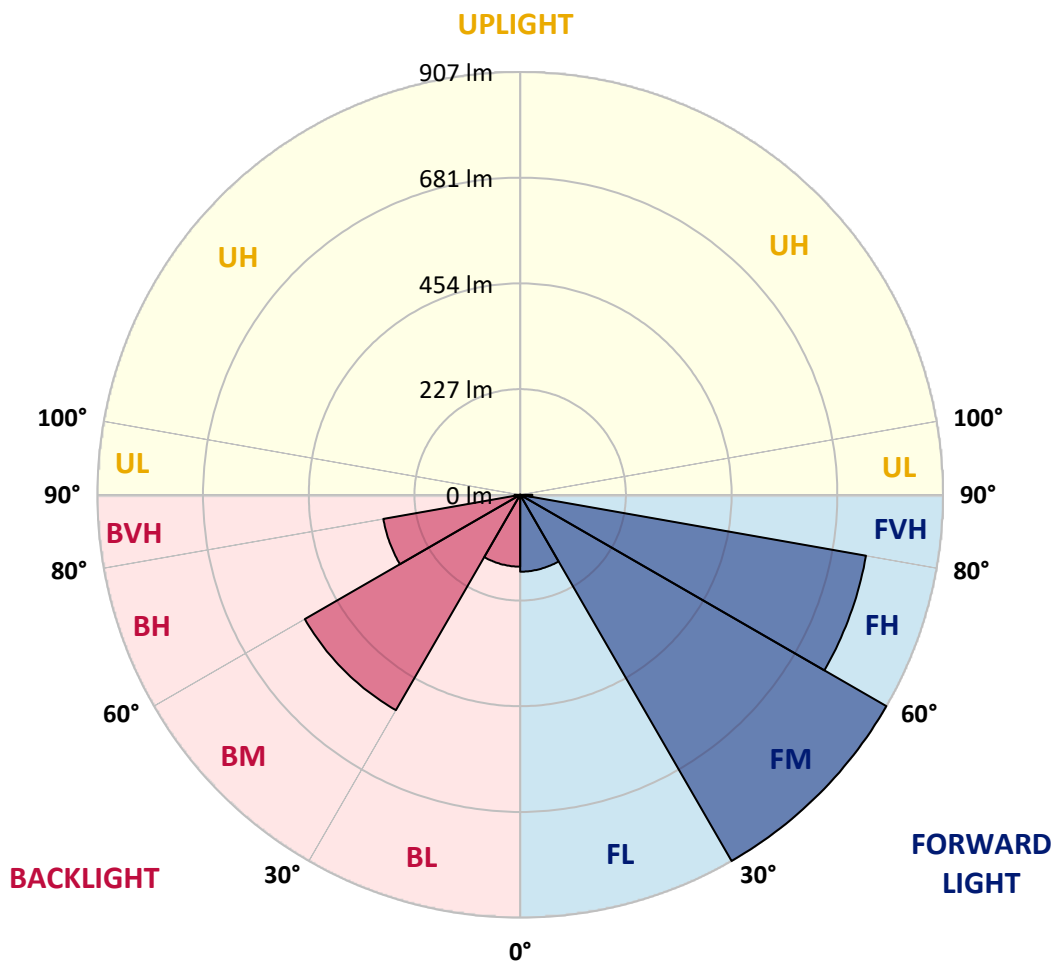
CATALOG NUMBER: ICM-E01-LED-E1-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	164.9	5.8			
FM	(30°-60°)	907.4	31.8			
FH	(60°-80°)	753.5	26.4			G1/1800
FVH	(80°-90°)	26.2	0.9			G1/100
BL	(0°-30°)	154.2	5.4	B1/500		
BM	(30°-60°)	533.6	18.7	B1/1000		
BH	(60°-80°)	298.1	10.5	B1/500		G1/500
BVH	(80°-90°)	12.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9
2.5°	297.4	297.7	297.0	296.7	295.8	294.2	293.0	291.8	291.8	291.8	290.9
5°	310.4	311.0	309.8	308.8	306.0	304.5	302.3	300.7	300.2	299.8	298.9
7.5°	326.8	325.9	324.0	323.4	321.2	317.9	313.8	310.7	310.7	310.4	310.7
10°	343.3	340.7	339.8	338.9	335.5	331.2	326.5	323.1	322.8	322.5	321.6
12.5°	359.7	358.8	357.9	354.4	351.0	344.2	338.9	335.5	335.2	335.5	334.2
15°	381.4	379.3	378.3	372.4	364.9	357.5	351.0	347.9	347.0	347.3	346.3
17.5°	398.1	398.1	396.0	389.5	379.8	369.6	362.8	360.9	360.7	360.7	360.9
20°	411.4	411.2	409.0	403.7	392.3	382.0	378.6	378.0	377.7	377.7	378.6
22.5°	418.9	418.3	417.4	411.4	402.5	395.6	396.0	397.9	398.4	399.1	400.3
25°	422.6	421.7	421.4	417.4	410.9	410.0	415.5	420.5	421.7	423.0	424.5
27.5°	428.8	427.3	427.9	426.3	424.8	427.6	439.1	444.4	445.3	446.8	447.7
30°	445.9	445.3	447.7	448.4	449.6	453.7	464.2	469.1	471.4	471.4	475.6
32.5°	478.4	478.8	479.4	485.9	488.1	490.9	496.5	500.5	500.7	501.1	505.1
35°	522.1	524.0	529.3	534.9	540.2	539.8	536.5	538.6	537.0	538.9	539.3
37.5°	577.4	574.9	582.6	595.4	603.4	601.2	586.1	576.1	578.9	577.7	576.7
40°	619.8	622.6	637.5	654.2	660.5	667.3	647.4	630.4	627.9	623.3	620.5
42.5°	678.4	678.8	690.9	703.3	721.2	736.1	723.4	698.9	691.4	685.9	673.8
45°	732.7	731.8	741.7	756.9	778.3	799.7	804.4	777.7	774.9	764.9	749.1
47.5°	769.0	767.7	774.6	794.4	829.1	864.2	883.4	875.4	870.1	866.1	841.2
50°	793.5	791.0	798.8	819.8	858.6	912.6	962.8	969.6	967.4	967.4	951.6
52.5°	811.8	811.8	817.4	834.4	873.8	941.1	1031.0	1065.4	1068.2	1071.4	1070.4
55°	801.6	803.1	817.0	841.9	883.4	960.9	1087.4	1162.8	1178.3	1191.4	1206.2
57.5°	766.5	771.8	790.4	831.0	885.9	975.8	1150.1	1299.3	1343.0	1380.8	1439.7
60°	715.4	722.1	749.1	800.9	867.6	951.6	1172.1	1414.6	1484.0	1566.5	1720.3
62.5°	627.6	634.4	660.7	712.6	769.6	858.9	1080.9	1431.6	1542.6	1659.5	1892.1
65°	444.7	433.8	464.2	510.7	576.1	662.6	873.5	1317.2	1476.9	1635.4	1922.5
67.5°	247.7	246.8	265.4	300.2	362.8	455.8	601.9	1010.2	1157.2	1336.8	1689.3
70°	170.9	172.7	184.5	222.0	273.8	354.1	428.8	634.4	740.2	862.1	1208.7
72.5°	120.0	124.0	130.5	152.8	205.9	298.3	438.1	379.3	431.9	515.1	726.8
75°	70.4	73.2	77.9	88.7	117.2	199.4	453.7	333.3	333.3	352.8	439.7
77.5°	43.4	43.4	46.2	50.5	62.3	97.7	323.1	374.6	364.0	352.8	353.8
80°	22.3	23.9	27.9	30.0	34.7	44.7	145.1	349.5	383.3	405.9	390.0
82.5°	10.2	11.4	17.0	18.3	20.2	23.5	50.0	198.8	266.3	350.7	438.1
85°	5.3	5.3	9.0	11.2	12.1	10.9	18.3	80.3	121.6	185.4	290.2
87.5°	0.9	0.9	1.6	1.9	2.8	2.5	3.1	4.7	7.7	8.4	8.7
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9
2.5°	290.5	290.9	290.5	290.2	289.6	289.6	289.6	289.3	289.3	289.3	289.0
5°	298.9	297.7	298.0	297.4	297.0	296.7	297.0	296.5	295.8	296.1	295.8
7.5°	309.5	308.8	307.6	307.6	307.3	306.7	306.7	305.8	305.4	304.8	304.5
10°	321.2	319.7	320.3	319.7	320.0	318.8	318.1	317.5	316.9	316.9	317.2
12.5°	333.3	333.0	332.1	331.4	331.4	330.5	330.9	330.5	329.6	329.3	328.4
15°	345.8	345.8	344.8	345.1	344.8	344.2	343.5	343.5	343.0	342.3	342.6
17.5°	360.3	360.3	360.3	360.3	360.7	359.7	360.0	359.4	358.8	360.0	360.0
20°	379.3	380.5	380.5	380.2	381.7	380.7	380.5	382.0	380.5	382.6	382.3
22.5°	400.9	402.1	402.1	403.4	403.7	404.7	405.3	404.7	405.9	407.2	407.2
25°	425.1	426.3	427.3	429.1	430.0	429.5	429.8	431.4	431.9	433.2	434.4
27.5°	450.5	450.9	452.1	454.2	455.8	456.5	456.7	459.3	459.5	460.2	461.4
30°	475.4	478.4	477.9	480.7	481.6	482.5	484.4	485.3	487.4	488.7	488.7
32.5°	504.5	503.9	506.3	508.6	510.0	511.6	513.2	514.4	515.6	516.3	519.4
35°	540.7	542.0	542.0	542.3	546.0	546.3	547.6	550.4	551.4	553.2	554.4
37.5°	576.7	574.6	574.2	574.2	573.0	574.0	574.2	574.6	575.8	576.1	577.4
40°	617.0	614.2	611.8	610.2	607.7	604.4	603.7	602.1	603.1	602.8	603.1
42.5°	672.3	664.5	658.6	654.2	649.3	645.6	642.8	638.8	636.0	632.6	631.9
45°	742.6	728.1	718.1	711.0	703.9	693.7	687.7	681.6	676.0	670.4	665.8
47.5°	835.1	819.5	803.7	790.7	779.5	763.1	746.3	737.0	726.2	716.6	709.8
50°	943.9	925.3	917.9	899.5	885.6	860.7	840.0	824.8	803.1	788.6	775.8
52.5°	1055.2	1050.5	1046.5	1031.0	1014.6	1000.3	982.1	955.4	933.3	916.6	890.5
55°	1206.8	1209.0	1207.4	1199.1	1193.2	1179.5	1172.1	1148.8	1138.9	1114.7	1087.4
57.5°	1462.1	1479.4	1501.4	1510.1	1521.9	1510.7	1523.7	1539.5	1500.2	1513.8	1489.3
60°	1787.9	1867.6	1915.1	1973.3	2011.5	2064.8	2074.4	2088.4	2084.4	2092.1	2107.9
62.5°	1987.0	2081.6	2172.4	2238.4	2309.1	2348.2	2395.4	2428.2	2462.3	2485.3	2478.8
65°	2045.6	2143.0	2225.4	2297.7	2360.9	2408.7	2452.4	2493.7	2524.9	2547.0	2560.0
67.5°	1830.4	1957.5	2044.4	2129.0	2210.5	2260.8	2297.4	2337.4	2383.3	2421.4	2428.9
70°	1377.4	1568.1	1691.2	1792.6	1888.4	1956.0	2007.2	2044.4	2080.0	2107.3	2137.0
72.5°	861.4	1028.2	1169.0	1300.5	1402.1	1495.2	1538.3	1620.8	1610.0	1630.7	1653.0
75°	516.3	597.5	675.1	767.7	821.1	898.6	912.6	926.2	919.1	895.8	913.2
77.5°	358.8	372.1	371.4	366.2	360.7	347.0	329.3	319.7	313.2	303.9	307.6
80°	360.9	332.1	288.1	242.1	200.0	172.1	160.9	160.9	172.4	188.8	205.3
82.5°	431.4	400.7	357.2	298.9	236.9	192.8	163.4	151.6	153.8	170.5	191.6
85°	290.9	297.7	261.1	238.8	189.1	147.3	123.4	100.2	88.7	91.4	103.5
87.5°	10.5	12.7	4.7	6.2	4.4	3.7	3.7	4.0	2.8	3.4	3.1
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9
2.5°	288.7	288.4	288.4	287.7	287.7	287.4	287.4	287.2	286.8	286.8	286.5
5°	295.5	295.2	294.6	294.2	293.7	293.7	293.3	292.7	292.7	292.1	291.8
7.5°	305.1	304.5	303.9	303.5	303.3	302.3	302.3	301.7	301.7	301.1	300.7
10°	316.6	316.0	315.4	315.6	314.7	314.4	313.8	313.8	312.8	312.6	312.6
12.5°	329.0	328.7	328.7	327.7	327.4	327.2	325.9	325.9	325.9	325.3	325.6
15°	342.3	342.6	341.7	342.6	342.3	341.4	341.4	341.4	340.2	341.7	340.5
17.5°	360.3	361.2	360.7	360.9	360.3	360.3	360.7	360.3	360.9	360.9	362.8
20°	382.6	383.0	384.5	383.9	383.9	383.5	384.2	384.5	385.8	385.1	386.3
22.5°	407.2	408.7	409.0	410.2	410.2	410.0	410.5	411.8	412.4	413.3	413.0
25°	435.1	436.0	437.2	435.6	438.1	438.1	438.8	440.3	440.7	440.7	442.8
27.5°	461.1	463.5	463.9	465.4	464.5	465.1	467.3	468.2	469.5	469.5	470.0
30°	490.5	491.4	492.1	494.0	493.7	494.0	494.2	495.8	495.8	497.4	498.9
32.5°	520.9	521.6	522.1	524.0	524.7	525.9	525.3	526.5	528.1	528.4	529.3
35°	557.2	557.9	558.4	561.2	561.6	563.7	564.4	563.7	566.2	564.7	566.2
37.5°	578.3	581.1	581.7	583.5	583.0	584.5	585.4	586.7	587.3	588.6	591.0
40°	604.0	604.9	606.8	607.7	609.0	609.3	610.5	611.4	612.4	615.2	618.0
42.5°	630.4	631.6	632.6	633.8	635.4	636.6	637.5	640.3	640.9	642.8	648.1
45°	662.3	661.7	662.1	662.3	663.0	664.5	667.3	670.1	671.9	676.3	680.7
47.5°	702.1	698.0	696.5	694.0	694.6	698.0	698.6	703.3	707.0	711.0	716.3
50°	762.1	751.4	744.8	738.3	737.7	739.5	742.1	747.0	751.4	756.6	764.0
52.5°	863.3	842.5	829.5	811.4	806.5	805.6	803.7	806.5	807.7	814.9	828.8
55°	1067.9	1029.5	1004.7	976.8	950.7	943.0	928.1	931.2	928.1	932.4	953.2
57.5°	1495.2	1464.5	1440.3	1404.7	1360.0	1312.6	1300.8	1252.1	1261.7	1289.6	1271.6
60°	2115.6	2104.5	2087.2	2070.1	2009.0	1974.6	1918.4	1912.3	1872.8	1873.2	1847.5
62.5°	2463.0	2477.2	2466.7	2461.7	2458.3	2447.5	2419.5	2386.1	2335.8	2299.5	2246.2
65°	2562.2	2550.1	2538.6	2537.0	2536.1	2553.8	2557.9	2534.2	2488.7	2432.3	2370.9
67.5°	2446.5	2439.7	2440.3	2427.3	2435.4	2466.1	2487.5	2480.9	2439.1	2370.9	2292.8
70°	2171.2	2157.9	2171.5	2188.6	2200.7	2218.3	2239.7	2244.9	2206.8	2136.8	2057.0
72.5°	1625.8	1627.9	1640.9	1645.6	1694.2	1689.3	1708.6	1645.9	1618.3	1551.6	1510.7
75°	855.5	841.6	877.9	800.9	769.3	791.4	729.6	670.4	682.8	693.0	619.3
77.5°	302.3	282.8	249.6	236.3	196.6	166.5	136.1	122.8	115.6	111.9	107.3
80°	217.0	223.3	216.5	200.3	170.2	136.5	107.6	84.9	72.8	66.3	62.0
82.5°	219.5	244.0	254.9	250.2	223.0	168.7	111.3	71.0	52.7	44.0	40.9
85°	117.9	129.0	124.0	104.5	94.0	56.1	38.4	25.8	21.7	19.8	18.3
87.5°	4.7	3.7	3.1	3.1	3.4	3.7	3.1	3.4	3.1	3.1	3.1
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9
2.5°	285.9	285.9	285.9	285.6	284.9	283.4	281.9	280.7	279.7	278.8	277.5
5°	291.4	290.9	290.9	290.9	288.4	285.9	283.7	281.6	279.7	278.1	276.9
7.5°	300.7	300.5	299.3	298.9	297.0	293.0	290.5	286.8	284.7	282.5	281.9
10°	311.9	311.6	311.4	311.0	308.6	304.5	301.4	298.0	294.9	291.8	288.7
12.5°	324.9	324.7	324.4	323.4	322.5	320.3	316.9	313.2	309.5	303.0	299.5
15°	341.1	341.7	341.1	340.7	340.2	340.5	338.3	333.0	327.2	318.8	311.6
17.5°	362.5	361.9	361.6	362.8	362.5	364.0	363.4	356.6	347.6	334.2	321.9
20°	386.0	386.0	387.3	388.2	391.0	395.1	393.2	384.8	368.4	349.8	333.7
22.5°	414.2	414.9	416.1	415.5	419.8	426.3	427.0	415.2	393.8	368.1	345.4
25°	443.7	444.4	443.1	444.9	452.1	461.4	463.3	446.5	418.3	384.8	355.4
27.5°	471.6	472.3	472.3	474.7	481.6	497.4	499.3	480.7	443.1	399.4	362.5
30°	498.9	501.4	502.0	502.6	512.8	534.9	538.9	511.9	464.8	410.2	367.4
32.5°	533.3	534.2	535.5	537.0	548.8	575.8	575.8	538.9	478.8	417.0	368.4
35°	570.2	570.5	573.3	573.7	590.4	617.4	612.1	561.2	488.7	415.5	361.6
37.5°	592.6	593.8	596.6	600.3	618.0	656.1	644.0	580.5	490.5	405.3	346.0
40°	620.2	622.6	625.4	629.1	655.5	695.5	671.0	592.6	482.8	385.1	322.8
42.5°	650.0	653.3	657.7	664.5	695.8	730.2	691.4	594.4	465.1	362.5	295.2
45°	683.4	689.6	694.6	702.6	738.0	760.3	703.9	583.5	442.8	332.7	265.8
47.5°	722.1	727.2	735.8	744.5	779.8	780.7	705.1	562.5	412.4	303.0	234.4
50°	770.0	773.0	786.1	791.4	824.5	802.1	696.1	534.0	380.5	269.5	199.7
52.5°	833.5	837.9	854.6	862.6	886.2	831.4	683.4	503.0	343.9	231.9	164.0
55°	959.1	978.0	989.8	1003.7	1018.9	897.4	677.9	469.8	302.6	188.6	130.0
57.5°	1311.6	1305.4	1331.5	1363.1	1362.8	1048.4	711.4	441.2	254.0	144.2	99.8
60°	1836.9	1842.8	1829.5	1848.4	1788.2	1235.6	757.2	411.2	199.1	107.3	76.3
62.5°	2227.3	2193.2	2174.2	2151.9	2019.5	1256.1	723.7	349.5	144.8	75.3	58.6
65°	2319.7	2279.7	2239.1	2196.6	1996.9	1132.4	593.8	256.5	93.7	51.8	46.5
67.5°	2228.6	2164.4	2112.6	2068.8	1829.8	938.6	434.1	157.5	53.7	41.9	39.7
70°	1992.3	1921.2	1837.5	1788.6	1540.8	691.8	278.1	84.9	41.2	37.2	36.3
72.5°	1458.3	1400.0	1308.6	1252.4	1106.3	420.5	155.3	47.7	38.4	35.6	34.4
75°	568.1	537.7	499.5	502.6	448.7	186.0	70.4	41.2	37.5	35.1	33.8
77.5°	97.7	95.2	88.1	88.1	100.2	67.9	46.8	41.6	37.2	34.4	32.3
80°	58.6	57.4	54.6	54.0	52.1	47.7	44.9	42.1	36.6	32.6	29.8
82.5°	38.4	36.9	36.0	35.6	38.8	41.9	42.1	41.9	34.7	28.2	24.2
85°	16.5	16.5	16.5	16.7	22.3	33.8	34.7	37.2	28.6	22.0	17.4
87.5°	2.8	3.4	3.4	3.7	4.0	7.4	9.3	12.1	9.6	9.3	8.4
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°	175°	180°
0°	284.9	284.9	284.9
2.5°	277.2	276.6	276.6
5°	276.3	275.6	276.0
7.5°	280.0	278.8	279.1
10°	286.8	285.6	284.9
12.5°	295.5	294.0	294.0
15°	304.5	300.7	300.5
17.5°	311.9	307.3	306.7
20°	320.3	314.1	313.2
22.5°	328.1	319.7	318.4
25°	333.7	323.4	321.9
27.5°	336.1	324.0	322.8
30°	338.0	324.4	322.5
32.5°	336.1	321.6	320.0
35°	325.9	310.0	309.1
37.5°	308.2	290.5	289.3
40°	284.9	266.3	263.3
42.5°	255.2	237.9	234.4
45°	226.3	206.5	204.9
47.5°	195.4	176.5	177.4
50°	162.8	145.8	145.4
52.5°	131.8	116.9	116.0
55°	103.9	93.3	92.4
57.5°	82.1	76.6	75.6
60°	67.0	64.2	63.3
62.5°	54.0	53.0	52.7
65°	44.9	44.9	44.9
67.5°	39.1	39.3	39.3
70°	36.0	36.3	36.0
72.5°	34.7	35.6	35.6
75°	33.8	34.4	33.2
77.5°	33.2	33.5	31.3
80°	32.8	32.6	28.6
82.5°	28.6	27.6	24.2
85°	26.0	19.8	16.7
87.5°	13.3	9.3	7.2
90°	0.0	0.0	0.0

(END OF REPORT)