

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: P181181

Luminaire Tested: **ICM-F04-LED-E1-T2-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181181
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33723)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F04-LED-E1-T2-HSS-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4492.6 lumens
Efficiency: N/A
Efficacy: 44.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

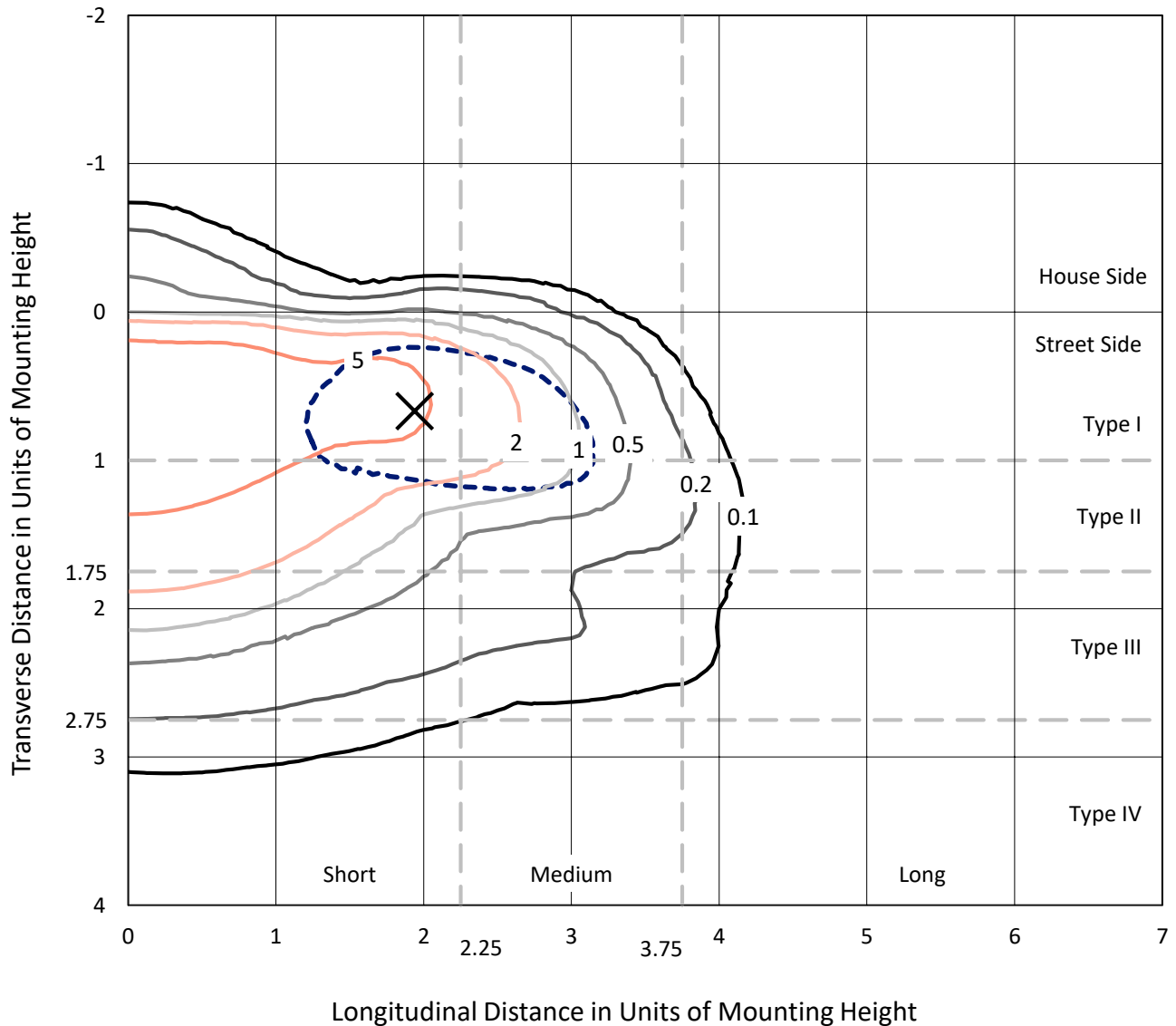
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

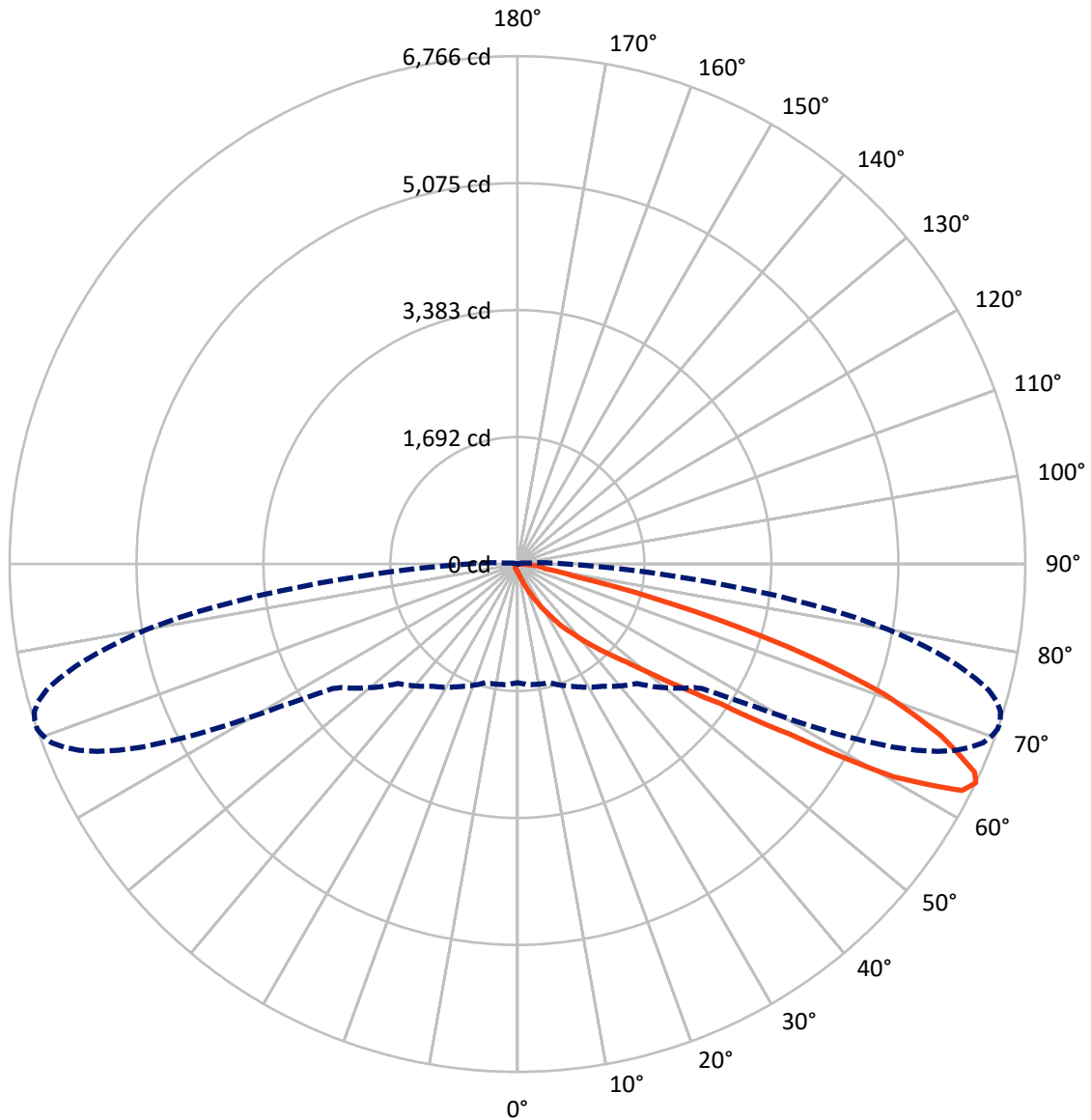
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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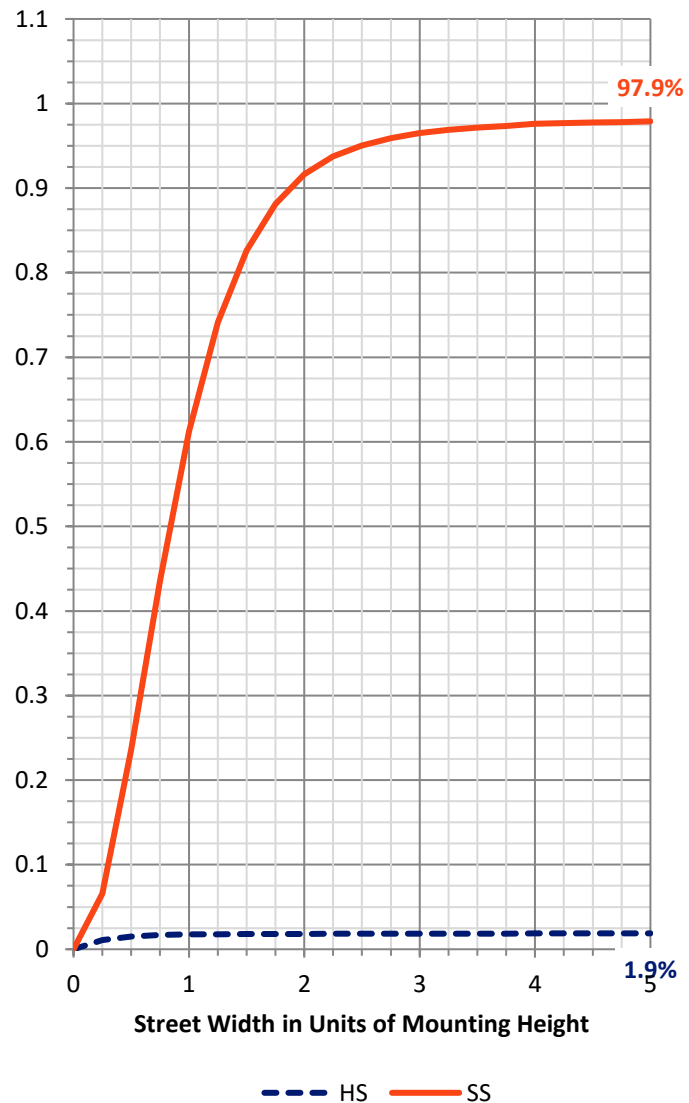
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	86.0	0.0	86.0
	% Fixture	1.9	0.0	1.9
Street Side	Lumens	4406.5	0.0	4406.5
	% Fixture	98.1	0.0	98.1
Total	Lumens	4492.6	0.0	4492.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.8	0.3
10°-20°	81.2	1.8
20°-30°	207.5	4.6
30°-40°	419.7	9.3
40°-50°	767.1	17.1
50°-60°	1195.1	26.6
60°-70°	1328.4	29.6
70°-80°	433.2	9.6
80°-90°	46.6	1.0
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°	4492.6	100.0
0°-180°	4492.6	100.0



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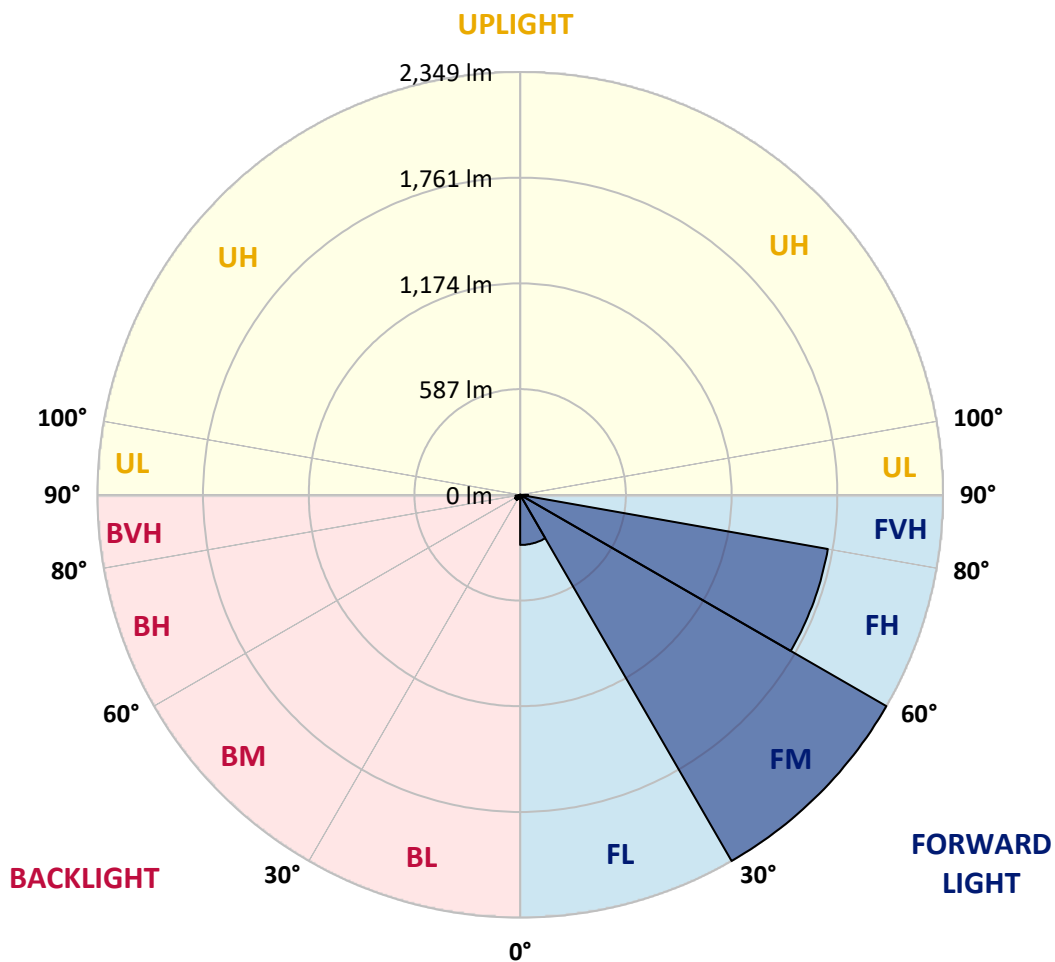
CATALOG NUMBER: ICM-F04-LED-E1-T2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	278.5	6.2			
FM	(30°-60°)	2348.6	52.3			
FH	(60°-80°)	1735.1	38.6			G1/1800
FVH	(80°-90°)	44.4	1.0			G1/100
BL	(0°-30°)	23.9	0.5	B0/110		
BM	(30°-60°)	33.3	0.7	B0/220		
BH	(60°-80°)	26.6	0.6	B0/110		G0/110
BVH	(80°-90°)	2.3	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1
2.5°	134.7	132.8	132.8	130.0	126.2	122.5	118.8	117.9	116.9	116.0	116.0
5°	211.4	203.9	201.0	190.8	177.7	161.8	147.7	144.0	144.0	141.2	139.3
7.5°	332.0	328.3	308.7	298.3	267.4	229.1	188.9	185.2	184.2	180.5	174.9
10°	486.3	478.8	464.7	434.9	378.8	312.4	255.4	246.0	239.4	231.9	224.5
12.5°	640.6	631.3	610.7	562.0	506.0	420.8	329.2	320.7	310.5	300.2	288.0
15°	794.9	788.4	756.6	707.9	635.0	533.0	417.1	402.1	393.7	373.1	363.8
17.5°	928.7	920.2	895.0	839.8	764.1	651.8	514.3	495.6	481.6	469.5	447.0
20°	1044.6	1036.2	1011.9	966.1	880.9	770.6	619.1	609.8	584.5	565.8	552.7
22.5°	1115.7	1112.8	1096.9	1053.0	977.3	879.1	738.8	723.8	707.0	681.8	666.8
25°	1159.6	1156.8	1147.4	1116.7	1065.2	993.2	870.7	852.0	837.0	814.5	795.8
27.5°	1205.5	1203.6	1196.1	1169.0	1141.9	1096.9	1004.4	994.1	961.4	948.3	930.5
30°	1281.2	1272.8	1279.4	1266.2	1231.6	1203.6	1139.1	1124.1	1110.1	1087.6	1071.7
32.5°	1401.9	1387.8	1401.9	1387.8	1372.8	1339.2	1277.5	1272.8	1258.8	1244.8	1222.3
35°	1549.6	1544.0	1555.3	1567.4	1555.3	1510.3	1435.5	1421.5	1415.9	1393.4	1385.0
37.5°	1698.3	1708.6	1729.1	1756.3	1748.8	1716.1	1610.4	1597.3	1587.0	1567.4	1552.4
40°	1858.2	1859.2	1903.1	1942.4	1962.1	1942.4	1803.1	1792.8	1778.7	1750.7	1746.9
42.5°	2032.2	2024.7	2057.4	2101.4	2141.6	2168.7	2057.4	2037.8	2018.2	1986.3	1964.8
45°	2186.4	2186.4	2212.7	2253.8	2315.5	2383.8	2325.8	2305.2	2286.5	2260.4	2236.0
47.5°	2300.6	2301.5	2317.4	2377.2	2473.6	2575.6	2577.4	2581.1	2567.1	2536.2	2537.1
50°	2381.0	2370.7	2392.2	2450.2	2561.5	2721.4	2836.4	2843.0	2854.3	2828.9	2836.4
52.5°	2439.9	2435.3	2449.2	2497.9	2609.2	2804.7	3048.8	3076.8	3093.6	3097.3	3128.2
55°	2409.0	2411.8	2445.5	2515.6	2635.4	2859.8	3229.2	3275.0	3314.3	3348.0	3386.3
57.5°	2307.1	2315.5	2374.4	2483.8	2640.9	2904.7	3421.0	3491.1	3565.0	3654.7	3730.4
60°	2144.4	2164.0	2243.5	2396.9	2586.7	2845.8	3478.0	3585.5	3698.7	3835.2	3987.7
62.5°	1906.0	1909.7	1962.1	2110.7	2320.2	2532.5	3216.1	3353.6	3503.2	3700.6	3913.8
64°	1579.5	1613.2	1637.5	1801.2	1988.2	2252.9	2870.1	2965.5	3174.1	3416.3	3684.7
65°	1303.6	1343.9	1363.5	1527.2	1741.3	1993.9	2568.9	2670.9	2890.7	3136.7	3471.5
67.5°	768.7	741.6	798.6	895.0	1074.5	1373.8	1732.9	1810.5	1974.2	2266.9	2534.3
70°	495.6	495.6	548.0	646.2	812.7	1041.8	1190.5	1157.8	1192.4	1305.5	1494.4
72.5°	318.0	334.8	366.6	449.9	604.1	873.5	1216.7	1062.3	982.0	944.6	942.7
75°	144.9	154.3	188.9	238.5	322.6	569.5	1227.0	1159.6	1085.8	1014.7	959.5
77.5°	30.9	35.5	59.8	123.4	157.1	262.8	870.7	971.6	1052.1	1075.4	1075.4
80°	15.9	16.8	25.2	58.0	67.3	88.8	335.7	441.4	544.3	679.9	822.1
82.5°	6.5	7.4	15.0	26.1	28.1	27.2	88.8	112.2	154.3	224.5	334.8
85°	1.9	1.9	6.5	10.3	15.0	12.2	19.6	22.4	29.0	42.0	80.5
87.5°	0.0	0.0	0.9	1.9	2.8	4.7	5.6	5.6	5.6	5.6	5.6
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1
2.5°	115.1	115.1	114.0	113.1	113.1	111.3	111.3	110.3	110.3	109.4	109.4
5°	138.4	136.6	134.7	131.9	130.9	129.0	127.2	125.3	123.4	122.5	120.7
7.5°	172.1	170.2	164.6	160.8	156.2	153.4	149.7	146.8	144.0	142.1	138.4
10°	216.9	210.4	207.6	194.5	191.7	185.2	179.5	175.8	168.4	163.6	159.0
12.5°	280.6	268.4	263.7	241.3	234.7	225.4	218.8	209.5	201.0	195.4	187.1
15°	352.6	343.3	325.5	303.0	290.9	280.6	264.7	257.2	246.0	233.8	221.7
17.5°	438.6	421.8	402.1	373.1	358.1	342.2	327.4	311.4	292.7	281.5	268.4
20°	538.7	520.9	496.6	460.1	442.3	426.4	400.3	389.0	366.6	344.2	327.4
22.5°	648.1	630.3	607.0	565.8	542.4	516.2	494.7	475.1	448.9	426.4	406.8
25°	771.5	751.0	733.2	685.5	656.5	629.4	606.1	571.4	548.9	522.8	495.6
27.5°	911.8	887.5	864.1	811.7	784.7	754.7	726.6	690.1	668.7	625.7	600.4
30°	1055.8	1025.9	1001.6	948.3	924.0	893.1	854.8	822.1	785.6	756.6	715.4
32.5°	1207.4	1183.0	1163.4	1107.3	1076.4	1038.1	1003.4	968.8	937.0	890.3	852.9
35°	1369.1	1347.6	1326.1	1277.5	1250.3	1221.4	1182.1	1140.0	1096.0	1047.4	1013.8
37.5°	1539.4	1522.5	1505.7	1446.7	1415.0	1384.1	1339.2	1297.1	1257.9	1206.4	1149.3
40°	1718.0	1702.1	1674.9	1626.3	1592.7	1564.6	1523.5	1484.2	1430.8	1373.8	1323.3
42.5°	1942.4	1907.8	1884.4	1831.1	1795.5	1764.7	1728.2	1669.3	1624.4	1556.2	1507.5
45°	2205.2	2172.5	2134.2	2079.8	2035.9	1985.4	1934.0	1893.8	1837.7	1775.9	1713.3
47.5°	2500.7	2474.5	2429.6	2376.3	2332.4	2281.9	2221.0	2169.7	2101.4	2029.4	1944.3
50°	2826.2	2799.0	2769.1	2709.2	2665.3	2617.6	2569.9	2509.1	2447.4	2361.3	2273.4
52.5°	3128.2	3133.8	3116.0	3088.0	3066.5	3016.9	2972.9	2915.0	2860.8	2782.2	2714.0
55°	3426.5	3475.2	3493.9	3521.0	3530.3	3490.2	3489.2	3404.1	3371.4	3325.5	3286.3
57.5°	3820.3	3927.8	4012.9	4177.5	4246.7	4316.9	4330.0	4270.1	4331.8	4252.3	4279.5
60°	4155.1	4352.4	4563.7	4989.2	5202.5	5363.3	5492.4	5587.8	5649.5	5754.3	5759.8
62.5°	4185.0	4495.5	4817.1	5438.2	5729.9	5974.0	6206.8	6369.6	6498.6	6617.4	6646.4
64°	4041.9	4426.3	4817.1	5568.1	5866.5	6137.6	6350.0	6511.8	6643.6	6717.4	6766.1
65°	3781.9	4212.1	4661.9	5482.1	5789.8	6077.8	6280.8	6443.5	6567.9	6641.7	6692.2
67.5°	2801.9	3218.0	3669.7	4624.5	5109.0	5372.7	5632.7	5860.9	5960.9	6054.5	6072.2
70°	1707.6	2009.7	2321.1	3206.8	3656.6	4130.7	4423.5	4757.3	4991.1	5135.1	5182.8
72.5°	1030.6	1135.4	1321.4	1797.4	2228.6	2561.5	2966.4	3285.3	3547.2	3692.1	3765.0
75°	917.4	904.3	928.7	1126.9	1280.3	1480.4	1627.3	1827.4	1989.1	2039.6	2134.2
77.5°	1060.5	1023.1	984.8	947.4	939.9	921.1	891.3	898.7	827.6	759.4	761.2
80°	944.6	1034.3	1087.6	1048.4	959.5	869.8	759.4	621.9	486.3	402.1	366.6
82.5°	474.1	674.2	866.9	1057.7	1044.6	965.1	843.5	692.9	536.8	412.4	329.2
85°	145.9	259.1	364.7	506.9	588.2	577.0	506.9	492.8	351.6	274.0	211.4
87.5°	6.5	6.5	6.5	5.6	6.5	6.5	6.5	7.4	7.4	8.4	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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1
2.5°	109.4	108.5	107.5	106.6	106.6	106.6	105.7	105.7	104.7	104.7	103.8
5°	120.7	118.8	117.9	116.0	116.0	114.0	113.1	112.2	110.3	109.4	108.5
7.5°	135.6	133.8	130.9	128.1	127.2	124.4	121.6	119.7	117.9	116.0	114.0
10°	155.3	151.5	145.9	142.1	139.3	135.6	131.9	129.0	125.3	121.6	119.7
12.5°	180.5	173.0	167.4	160.8	155.3	149.7	143.1	139.3	135.6	130.0	126.2
15°	209.5	202.0	195.4	184.2	174.9	167.4	161.8	153.4	146.8	139.3	133.8
17.5°	259.1	239.4	226.3	215.1	205.8	191.7	180.5	171.2	162.7	153.4	146.8
20°	307.7	290.9	273.1	260.0	239.4	227.3	212.3	199.2	184.2	173.0	161.8
22.5°	378.8	357.2	334.8	315.2	287.1	270.2	250.6	233.8	215.1	196.4	184.2
25°	468.6	436.7	406.8	378.8	352.6	327.4	302.0	275.0	255.4	232.8	212.3
27.5°	563.0	527.4	498.4	462.0	428.3	397.5	365.7	336.7	303.0	274.0	249.7
30°	681.8	633.1	599.4	555.5	521.9	478.8	439.5	401.2	360.0	326.4	291.8
32.5°	802.4	769.7	712.7	675.2	624.7	573.3	532.1	488.2	437.7	393.7	351.6
35°	961.4	905.3	857.6	805.2	750.1	696.7	643.4	580.7	529.3	475.1	423.6
37.5°	1101.7	1044.6	989.4	921.1	858.5	802.4	737.9	672.4	611.6	547.1	485.4
40°	1264.4	1193.3	1127.8	1064.3	986.6	920.2	852.9	771.5	701.4	630.3	557.4
42.5°	1442.1	1370.1	1292.5	1219.4	1134.4	1053.0	969.8	888.5	809.9	723.8	638.7
45°	1636.6	1560.8	1473.9	1390.6	1298.1	1208.3	1109.1	1015.6	923.1	826.7	728.5
47.5°	1877.9	1780.6	1700.2	1596.4	1481.3	1386.9	1265.3	1158.7	1053.0	940.8	830.4
50°	2190.2	2079.8	1963.9	1848.8	1721.7	1602.0	1467.4	1341.0	1199.8	1074.5	948.3
52.5°	2604.5	2522.2	2387.5	2255.6	2100.5	1948.0	1762.8	1599.2	1417.8	1257.9	1103.5
55°	3192.8	3138.5	3021.6	2877.6	2742.0	2519.4	2306.2	2051.8	1816.1	1586.1	1369.1
57.5°	4257.9	4199.0	4069.0	4034.4	3825.9	3662.3	3412.5	3083.4	2684.0	2332.4	1981.7
60°	5791.7	5676.6	5549.4	5526.1	5281.1	5109.0	4861.1	4510.4	4134.4	3573.3	3095.5
62.5°	6648.3	6613.7	6510.8	6384.6	6172.2	5917.0	5638.3	5298.8	4917.2	4425.3	3856.8
64°	6763.3	6731.5	6642.6	6500.5	6287.3	6033.9	5725.2	5386.7	5004.2	4555.3	4036.3
65°	6691.3	6646.4	6570.6	6439.8	6241.4	5998.4	5687.8	5344.6	4956.5	4524.5	4041.9
67.5°	6110.5	6090.0	6020.8	5899.2	5774.8	5555.9	5282.9	4976.1	4659.1	4230.8	3835.2
70°	5188.4	5173.5	5085.6	5037.0	4831.2	4692.8	4472.1	4230.8	3950.3	3651.9	3315.3
72.5°	3846.4	3795.9	3724.9	3651.0	3511.6	3321.8	3149.7	2892.6	2747.6	2496.0	2306.2
75°	2039.6	2007.8	1897.5	1743.2	1571.1	1482.2	1303.6	1143.7	1016.6	959.5	822.1
77.5°	705.1	642.5	580.7	511.5	405.9	319.8	255.4	203.9	160.8	142.1	118.8
80°	351.6	333.9	314.2	275.0	231.0	186.1	145.9	115.1	94.4	80.5	72.0
82.5°	285.2	252.5	225.4	197.3	158.0	130.0	102.9	84.2	69.2	60.7	53.3
85°	168.4	129.0	98.2	88.8	69.2	59.8	51.4	44.0	37.4	35.5	32.7
87.5°	6.5	8.4	8.4	6.5	8.4	7.4	7.4	6.5	6.5	6.5	6.5
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1
2.5°	103.8	102.9	102.9	102.0	101.0	101.0	101.0	100.1	98.2	94.4	91.6
5°	107.5	106.6	105.7	103.8	102.9	102.0	101.0	101.0	96.3	89.8	85.1
7.5°	112.2	110.3	108.5	106.6	105.7	103.8	102.0	101.0	94.4	86.0	81.4
10°	116.9	114.0	111.3	110.3	107.5	105.7	102.9	101.0	93.5	83.3	76.7
12.5°	122.5	118.8	115.1	112.2	108.5	106.6	103.8	101.0	91.6	80.5	72.9
15°	129.0	123.4	118.8	116.0	112.2	107.5	103.8	101.0	89.8	77.6	69.2
17.5°	137.5	130.9	125.3	119.7	114.0	109.4	105.7	102.0	87.0	73.9	64.6
20°	150.6	142.1	132.8	126.2	118.8	113.1	106.6	102.0	85.1	70.1	60.7
22.5°	168.4	155.3	144.9	133.8	124.4	116.9	109.4	103.8	82.3	66.4	56.1
25°	193.6	176.7	159.9	145.9	133.8	123.4	114.0	106.6	80.5	63.6	53.3
27.5°	221.7	202.0	179.5	162.7	145.9	130.9	120.7	111.3	80.5	61.8	50.5
30°	260.9	232.8	205.8	184.2	161.8	144.9	130.0	117.9	80.5	60.7	47.7
32.5°	308.7	276.8	242.2	211.4	185.2	160.8	142.1	126.2	82.3	58.9	45.9
35°	375.0	328.3	287.1	248.7	214.1	186.1	161.8	140.3	85.1	58.0	43.0
37.5°	427.4	371.3	318.9	275.0	234.7	200.1	169.3	145.9	82.3	54.2	40.2
40°	490.0	426.4	362.9	307.7	261.9	216.9	181.4	153.4	80.5	49.6	36.5
42.5°	565.8	486.3	412.4	349.8	292.7	239.4	197.3	162.7	80.5	46.8	33.7
45°	636.8	549.9	467.6	389.0	322.6	263.7	212.3	173.0	79.5	44.0	30.0
47.5°	724.7	621.9	525.6	434.9	358.1	286.1	228.2	182.3	78.5	41.1	27.2
50°	828.6	703.3	594.8	486.3	392.7	313.3	246.9	192.7	76.7	38.3	24.3
52.5°	943.6	808.9	670.5	545.2	435.8	342.2	264.7	202.0	73.9	35.5	21.5
55°	1147.4	962.3	798.6	643.4	501.3	385.3	290.9	216.0	71.1	32.7	18.7
57.5°	1636.6	1329.9	1098.0	864.1	660.3	494.7	362.0	256.3	67.3	29.0	15.0
60°	2569.9	2064.0	1670.2	1310.2	998.8	759.4	533.0	378.8	72.0	24.3	13.1
62.5°	3296.6	2714.9	2213.6	1761.9	1368.2	1039.9	776.2	565.8	103.8	21.5	10.3
64°	3486.4	2897.2	2362.3	1889.1	1479.5	1140.9	866.0	639.6	133.8	21.5	9.4
65°	3514.4	2953.3	2415.6	1935.8	1517.8	1168.1	892.2	664.0	145.9	22.4	8.4
67.5°	3398.4	2920.6	2431.5	1955.5	1546.8	1205.5	927.7	702.3	164.6	21.5	6.5
70°	2968.3	2616.7	2214.5	1829.2	1458.9	1145.6	892.2	680.8	172.1	20.6	5.6
72.5°	2020.0	1777.8	1540.3	1267.2	1015.6	837.0	650.9	479.7	120.7	16.8	4.7
75°	673.3	656.5	587.3	445.1	374.0	303.9	243.2	187.1	45.9	10.3	4.7
77.5°	112.2	96.3	84.2	80.5	67.3	65.5	57.0	45.9	19.6	6.5	4.7
80°	65.5	59.8	52.4	46.8	41.1	36.5	30.9	26.1	12.2	4.7	5.6
82.5°	48.7	43.0	38.3	33.7	29.0	25.2	21.5	17.8	6.5	4.7	5.6
85°	28.1	24.3	21.5	18.7	15.0	13.1	11.3	9.4	4.7	4.7	4.7
87.5°	5.6	5.6	4.7	4.7	4.7	4.7	4.7	3.7	4.7	4.7	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P181181

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CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	100.1	100.1	100.1	100.1	100.1	100.1	100.1
2.5°	89.8	87.0	86.0	86.0	86.0	86.0	86.0
5°	82.3	79.5	77.6	76.7	76.7	76.7	76.7
7.5°	76.7	72.9	71.1	69.2	69.2	68.3	68.3
10°	71.1	67.3	64.6	62.7	61.8	61.8	61.8
12.5°	66.4	62.7	58.9	57.0	57.0	56.1	56.1
15°	62.7	57.0	54.2	52.4	52.4	51.4	51.4
17.5°	58.0	53.3	50.5	48.7	47.7	47.7	47.7
20°	53.3	48.7	45.9	44.9	44.0	44.0	43.0
22.5°	49.6	44.9	42.0	41.1	40.2	40.2	39.3
25°	45.9	41.1	38.3	37.4	36.5	35.5	35.5
27.5°	43.0	38.3	35.5	33.7	32.7	31.8	31.8
30°	40.2	34.6	31.8	30.0	29.0	28.1	28.1
32.5°	37.4	31.8	28.1	26.1	25.2	24.3	24.3
35°	33.7	28.1	24.3	23.3	22.4	21.5	20.6
37.5°	30.9	24.3	21.5	19.6	18.7	17.8	17.8
40°	27.2	21.5	18.7	16.8	15.0	14.0	14.0
42.5°	24.3	18.7	15.9	13.1	12.2	11.3	11.3
45°	21.5	16.8	13.1	10.3	9.4	8.4	8.4
47.5°	18.7	14.0	10.3	8.4	7.4	6.5	6.5
50°	15.9	11.3	7.4	5.6	6.5	5.6	5.6
52.5°	14.0	8.4	5.6	5.6	5.6	5.6	5.6
55°	11.3	6.5	4.7	4.7	5.6	5.6	5.6
57.5°	9.4	4.7	3.7	4.7	4.7	4.7	4.7
60°	6.5	3.7	3.7	4.7	4.7	4.7	4.7
62.5°	5.6	3.7	3.7	3.7	4.7	4.7	4.7
64°	4.7	3.7	3.7	3.7	4.7	4.7	4.7
65°	4.7	3.7	3.7	3.7	4.7	4.7	4.7
67.5°	4.7	3.7	3.7	3.7	4.7	4.7	4.7
70°	3.7	3.7	3.7	3.7	4.7	4.7	4.7
72.5°	3.7	3.7	3.7	3.7	4.7	4.7	4.7
75°	3.7	3.7	3.7	3.7	4.7	4.7	4.7
77.5°	3.7	3.7	3.7	4.7	4.7	4.7	4.7
80°	3.7	3.7	3.7	4.7	4.7	4.7	4.7
82.5°	3.7	3.7	3.7	4.7	4.7	4.7	4.7
85°	3.7	3.7	3.7	4.7	4.7	4.7	4.7
87.5°	3.7	3.7	3.7	4.7	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)