

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: P180853

Luminaire Tested: **ICS-F04-LED-E1-SL4-HSS**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180853  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICS-F04-LED-E1-SL4-HSS  
Description: ICON SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (28) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

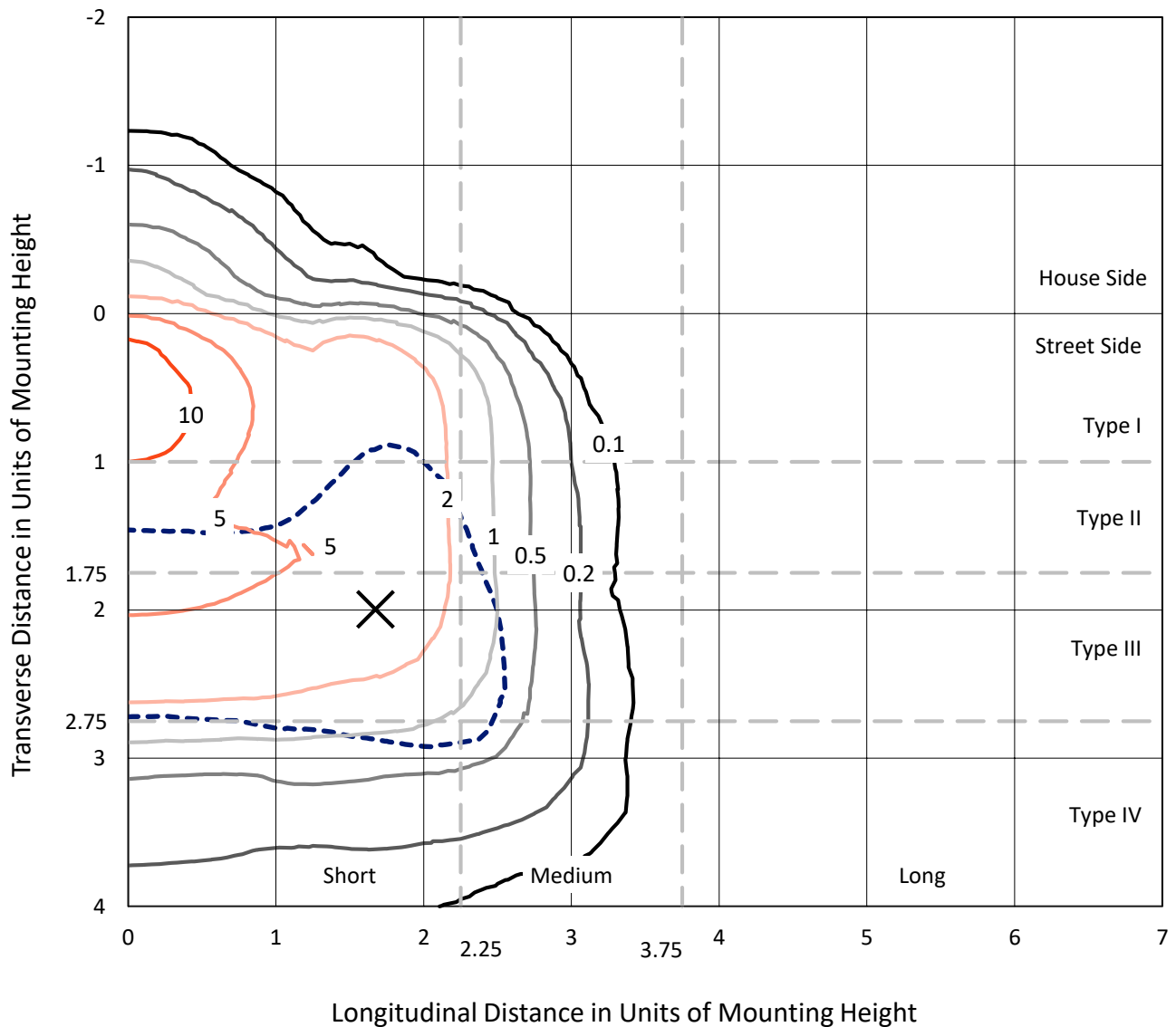
Lumens per Lamp: N/A  
Luminaire Lumens: 6047.5 lumens  
Efficiency: N/A  
Efficacy: 59.2 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 102.2  
Input Voltage (V): NR  
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

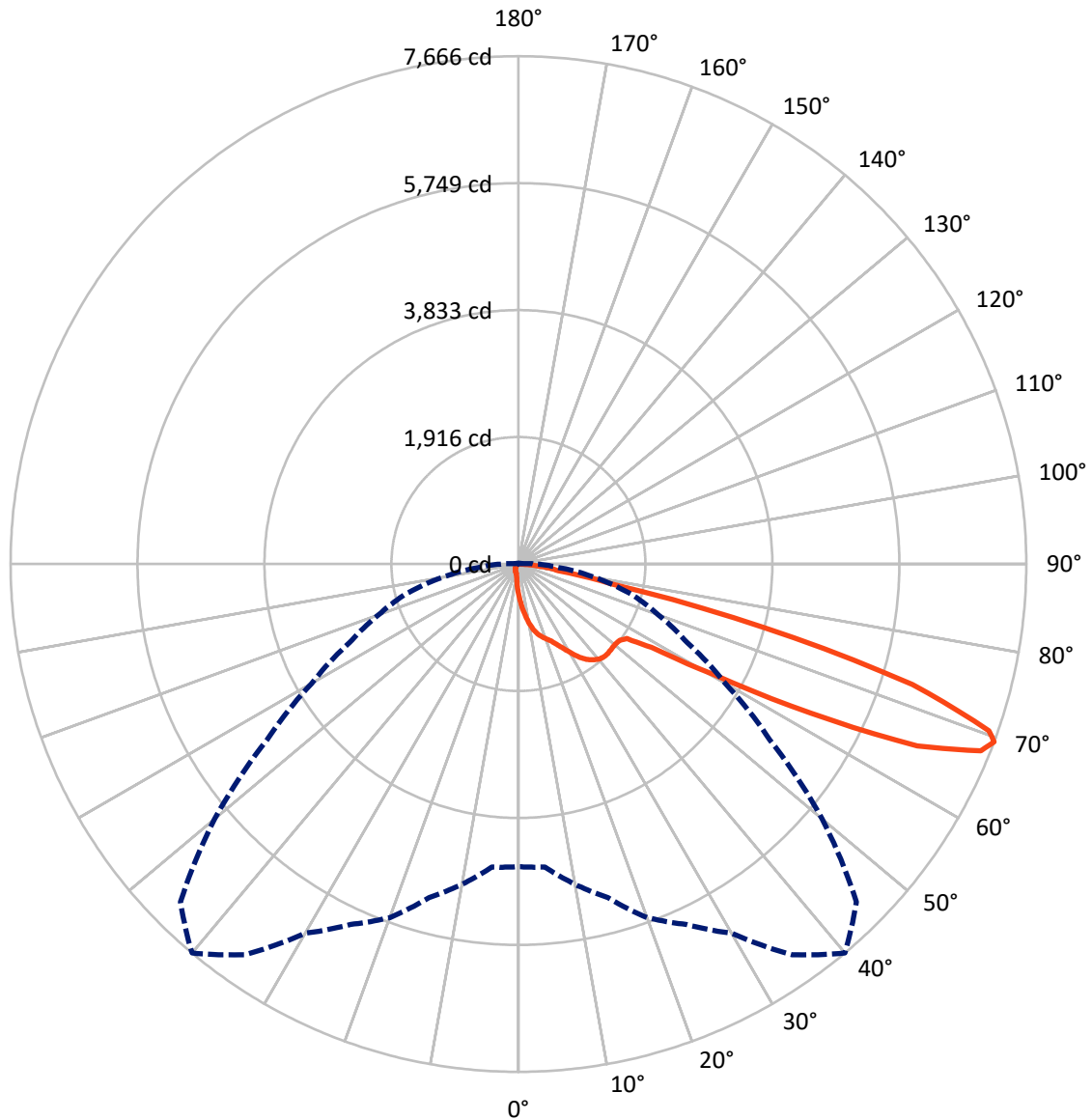
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.5 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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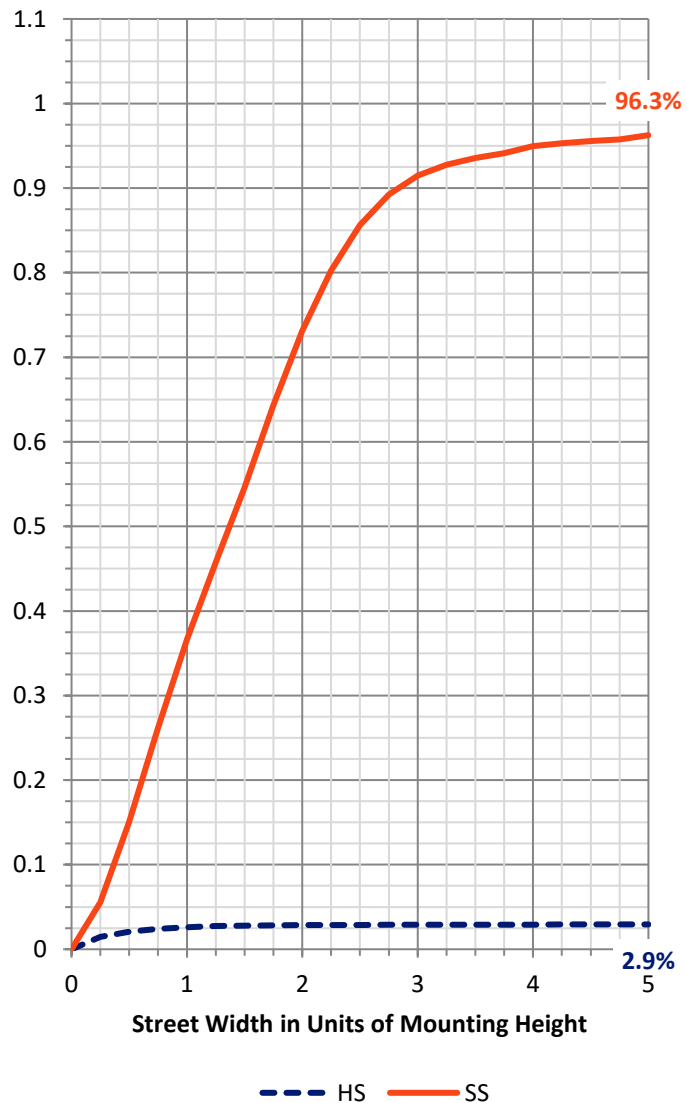
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	180.1	0.0	180.1
	% Fixture	3.0	0.0	3.0
<b>Street Side</b>	Lumens	5867.5	0.0	5867.5
	% Fixture	97.0	0.0	97.0
<b>Total</b>	Lumens	6047.5	0.0	6047.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.9	0.8
10°-20°	161.8	2.7
20°-30°	309.8	5.1
30°-40°	515.1	8.5
40°-50°	697.1	11.5
50°-60°	1090.2	18.0
60°-70°	2241.3	37.1
70°-80°	901.9	14.9
80°-90°	83.4	1.4
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°	6047.5	100.0
0°-180°	6047.5	100.0



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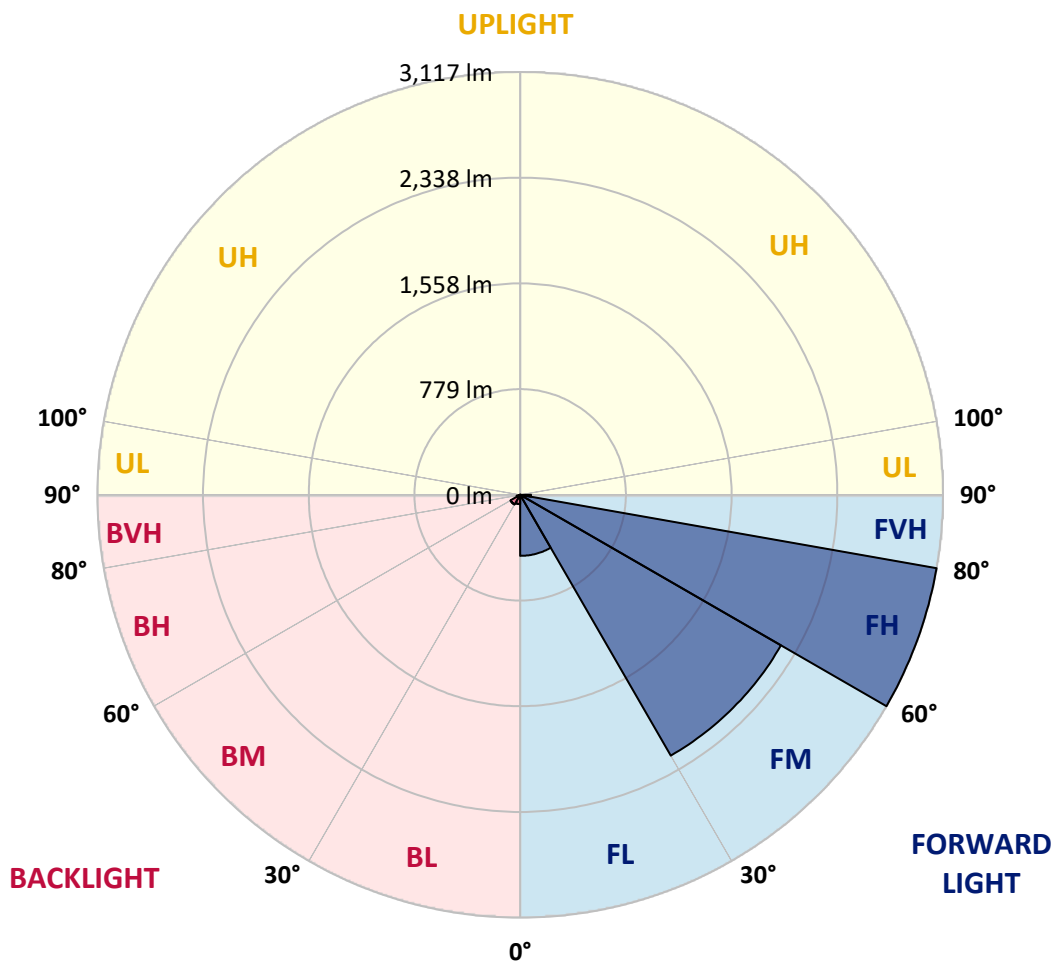
CATALOG NUMBER: ICS-F04-LED-E1-SL4-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	450.1	7.4			
FM	(30°-60°)	2220.1	36.7			
FH	(60°-80°)	3116.9	51.5			G2/5000
FVH	(80°-90°)	80.3	1.3			G1/100
BL	(0°-30°)	68.5	1.1	B0/110		
BM	(30°-60°)	82.2	1.4	B0/220		
BH	(60°-80°)	26.3	0.4	B0/110		G0/110
BVH	(80°-90°)	3.1	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°	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7
2.5°	609.3	602.3	594.4	594.4	584.5	584.5	578.6	562.7	560.7	551.8	542.9
5°	777.7	771.7	761.8	752.9	745.0	731.1	721.2	702.4	681.6	661.8	643.9
7.5°	942.1	939.2	921.3	918.4	905.5	882.7	862.9	835.1	799.5	771.7	739.1
10°	1094.7	1087.8	1083.8	1067.0	1048.1	1023.4	992.7	959.0	917.4	873.8	827.2
12.5°	1215.6	1211.6	1193.8	1186.8	1167.0	1142.3	1103.6	1060.0	1018.4	962.0	907.5
15°	1305.7	1298.8	1286.9	1276.0	1252.2	1230.4	1194.8	1147.2	1096.7	1035.3	969.9
17.5°	1381.0	1368.1	1365.2	1348.3	1323.6	1297.8	1258.2	1214.6	1155.1	1093.7	1022.4
20°	1482.1	1464.2	1458.3	1433.5	1404.8	1369.1	1323.6	1269.1	1206.7	1139.3	1066.0
22.5°	1600.9	1588.1	1575.2	1553.4	1516.7	1466.2	1399.8	1340.4	1261.1	1186.8	1107.6
25°	1769.4	1758.5	1737.7	1707.9	1662.4	1601.9	1521.7	1434.5	1341.4	1246.3	1153.2
27.5°	1932.8	1922.9	1908.1	1885.3	1833.8	1767.4	1668.3	1557.4	1439.5	1324.5	1221.5
30°	2086.4	2077.5	2062.6	2039.8	1994.2	1928.9	1816.9	1698.0	1551.4	1417.7	1293.8
32.5°	2251.8	2248.9	2232.0	2199.3	2159.7	2071.5	1949.7	1821.9	1673.3	1518.7	1374.1
35°	2439.1	2416.3	2400.4	2367.7	2300.4	2206.3	2063.6	1923.9	1767.4	1608.9	1447.4
37.5°	2597.6	2575.8	2556.0	2514.4	2432.1	2312.3	2150.8	1997.2	1835.7	1674.3	1509.8
40°	2713.5	2702.6	2678.8	2624.3	2532.2	2389.5	2215.2	2047.7	1885.3	1722.8	1560.3
42.5°	2799.7	2782.8	2756.1	2699.6	2590.6	2428.2	2240.9	2068.5	1908.1	1752.5	1593.0
45°	2831.4	2817.5	2792.7	2731.3	2613.4	2439.1	2239.9	2062.6	1909.0	1761.4	1614.8
47.5°	2812.6	2798.7	2776.9	2719.4	2603.5	2426.2	2222.1	2045.8	1899.1	1764.4	1634.6
50°	2750.1	2742.2	2725.4	2676.8	2572.8	2401.4	2206.3	2036.8	1897.2	1779.3	1662.4
52.5°	2744.2	2739.2	2718.4	2669.9	2563.9	2393.5	2204.3	2041.8	1914.0	1798.1	1682.2
55°	3353.5	3283.1	3125.6	2991.9	2771.9	2510.4	2304.3	2122.0	1985.3	1872.4	1791.2
57.5°	4766.2	4661.2	4454.1	4199.5	3694.3	3197.9	2800.7	2513.4	2371.7	2320.2	2350.9
60°	5428.0	5409.1	5376.4	5255.6	4997.0	4570.0	4094.5	3580.3	3374.3	3356.4	3418.8
62.5°	5742.0	5730.1	5740.0	5725.2	5644.9	5520.1	5383.4	5161.5	4957.4	4825.6	4546.2
65°	5886.6	5894.6	5951.0	5995.6	6005.5	6038.2	6138.3	6414.7	6616.8	6277.0	5501.3
67.5°	5519.1	5565.7	5695.4	5857.9	6048.1	6232.4	6529.6	7112.1	7527.2	7128.0	6026.3
69°	4569.0	4591.8	4908.8	5215.0	5679.6	6004.5	6435.5	7199.3	7665.9	7215.2	5984.7
70°	3597.2	3618.0	3957.8	4373.9	5159.5	5577.5	6141.2	7051.7	7536.1	7099.2	5770.7
72.5°	1622.7	1593.0	1712.9	1935.8	2789.8	3453.5	4439.3	5713.3	6217.5	5687.5	4317.4
75°	1133.3	1120.5	1133.3	1134.3	1267.1	1634.6	2062.6	3096.9	3830.0	3304.9	2062.6
77.5°	877.7	868.8	859.9	850.0	865.9	969.9	1011.5	1098.7	1426.6	1349.3	786.6
80°	694.5	686.5	708.3	701.4	701.4	713.3	705.4	672.7	611.3	566.7	507.2
82.5°	323.0	324.9	324.9	352.7	425.0	496.3	519.1	486.4	431.9	367.5	296.2
85°	30.7	34.7	58.5	90.2	179.3	202.1	203.1	168.4	168.4	132.8	107.0
87.5°	0.0	1.0	1.0	1.0	8.9	24.8	20.8	5.9	3.0	3.0	5.0
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°	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7
2.5°	527.0	524.1	512.2	500.3	489.4	477.5	466.6	455.7	443.8	434.9	424.0
5°	616.2	594.4	569.6	545.9	522.1	497.3	471.6	448.8	425.0	403.2	382.4
7.5°	706.4	663.8	630.1	587.5	548.8	510.2	474.5	437.9	404.2	372.5	342.8
10°	782.6	731.1	678.6	624.1	568.7	517.1	467.6	424.0	379.4	340.8	304.1
12.5°	845.1	779.7	715.3	646.9	584.5	519.1	457.7	405.2	352.7	309.1	271.4
15°	901.5	826.2	749.0	669.7	590.4	516.1	447.8	382.4	328.9	279.4	236.8
17.5°	947.1	860.9	773.7	684.6	599.4	512.2	434.9	366.6	304.1	252.6	211.0
20°	986.7	896.6	802.5	702.4	605.3	511.2	424.0	346.7	282.3	227.9	187.2
22.5°	1023.4	933.2	832.2	725.2	614.2	510.2	414.1	331.9	263.5	209.0	168.4
25°	1065.0	969.9	863.9	749.0	630.1	514.2	408.2	320.0	246.7	191.2	153.6
27.5°	1111.5	1011.5	901.5	778.7	650.9	522.1	406.2	307.1	231.8	174.4	141.7
30°	1176.9	1061.0	939.2	808.4	669.7	531.0	404.2	299.2	217.0	161.5	129.8
32.5°	1234.4	1109.6	980.8	839.1	690.5	539.9	403.2	288.3	203.1	148.6	120.9
35°	1294.8	1154.1	1016.4	868.8	708.3	549.8	402.2	280.4	190.2	135.7	111.9
37.5°	1347.3	1191.8	1044.2	894.6	728.2	558.7	403.2	273.4	178.3	124.8	104.0
40°	1391.9	1230.4	1074.9	918.4	749.0	572.6	404.2	266.5	166.4	114.9	97.1
42.5°	1431.5	1267.1	1107.6	945.1	772.7	588.5	410.1	260.5	156.5	106.0	90.2
45°	1462.2	1300.8	1143.2	982.8	811.4	614.2	421.0	256.6	146.6	98.1	84.2
47.5°	1494.0	1350.3	1203.7	1042.2	867.8	654.8	439.9	255.6	138.7	92.1	79.3
50°	1537.5	1399.8	1257.2	1102.6	919.4	696.5	462.6	256.6	128.8	86.2	74.3
52.5°	1569.2	1450.4	1326.5	1207.6	1042.2	823.3	550.8	274.4	123.8	81.2	68.4
55°	1756.5	1735.7	1738.7	1758.5	1630.7	1400.8	921.3	396.3	145.6	92.1	67.4
57.5°	2476.7	2550.0	2592.6	2591.6	2380.6	1974.4	1237.4	509.2	162.5	107.0	80.2
60°	3423.8	3368.3	3290.1	3096.9	2816.5	2253.8	1384.0	547.8	140.7	85.2	73.3
62.5°	4260.9	3936.0	3647.7	3334.6	2967.1	2350.9	1413.7	544.9	122.8	64.4	51.5
65°	4783.0	4198.5	3732.9	3340.6	2907.7	2269.7	1337.4	500.3	104.0	52.5	42.6
67.5°	4907.8	4056.9	3398.0	2897.8	2429.2	1766.4	981.8	376.5	81.2	43.6	37.6
69°	4635.4	3606.1	2815.5	2247.9	1767.4	1172.0	607.3	237.8	62.4	39.6	34.7
70°	4263.9	3136.5	2293.4	1804.0	1308.7	823.3	425.0	167.4	50.5	36.7	31.7
72.5°	2743.2	1647.5	1127.4	784.6	539.9	327.9	166.4	75.3	38.6	30.7	25.8
75°	1064.0	609.3	441.8	335.8	262.5	182.3	101.0	48.5	32.7	25.8	19.8
77.5°	524.1	401.2	327.9	224.9	130.8	81.2	54.5	37.6	26.7	18.8	12.9
80°	414.1	275.4	164.5	102.0	77.3	58.5	41.6	30.7	19.8	11.9	8.9
82.5°	212.0	115.9	85.2	69.3	57.5	45.6	33.7	21.8	12.9	7.9	6.9
85°	66.4	48.5	43.6	42.6	39.6	32.7	23.8	13.9	7.9	5.0	5.0
87.5°	5.0	6.9	8.9	6.9	7.9	6.9	8.9	5.9	4.0	4.0	3.0
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°	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7	456.7
2.5°	416.1	404.2	393.3	386.4	373.5	368.5	363.6	361.6	352.7	354.7	346.7
5°	363.6	342.8	326.9	311.1	296.2	285.3	276.4	265.5	256.6	252.6	244.7
7.5°	316.0	289.3	268.5	251.6	233.8	219.9	208.0	200.1	192.2	184.3	180.3
10°	274.4	245.7	221.9	205.1	188.2	176.3	167.4	161.5	156.5	153.6	152.6
12.5°	235.8	208.0	186.2	171.4	158.5	152.6	148.6	145.6	144.6	143.6	143.6
15°	206.1	178.3	161.5	150.6	144.6	141.7	140.7	138.7	136.7	135.7	135.7
17.5°	178.3	157.5	145.6	139.7	136.7	134.7	132.8	130.8	128.8	127.8	127.8
20°	159.5	142.7	136.7	132.8	129.8	127.8	124.8	122.8	121.9	120.9	119.9
22.5°	144.6	133.7	129.8	126.8	122.8	119.9	117.9	115.9	113.9	112.9	111.9
25°	133.7	126.8	123.8	119.9	115.9	112.9	110.0	107.0	105.0	104.0	102.0
27.5°	125.8	120.9	116.9	111.9	108.0	105.0	102.0	99.1	97.1	95.1	94.1
30°	118.9	113.9	109.0	105.0	100.1	97.1	93.1	90.2	89.2	87.2	85.2
32.5°	111.9	107.0	102.0	97.1	92.1	88.2	86.2	82.2	80.2	79.3	77.3
35°	104.0	99.1	93.1	89.2	84.2	80.2	77.3	74.3	72.3	70.3	69.3
37.5°	97.1	91.1	85.2	80.2	76.3	72.3	69.3	66.4	64.4	62.4	61.4
40°	89.2	83.2	77.3	72.3	68.4	65.4	62.4	59.4	57.5	56.5	56.5
42.5°	82.2	75.3	69.3	65.4	62.4	58.5	55.5	52.5	51.5	50.5	51.5
45°	75.3	68.4	63.4	59.4	56.5	52.5	49.5	47.6	46.6	47.6	48.5
47.5°	69.3	62.4	57.5	54.5	51.5	48.5	45.6	43.6	43.6	45.6	47.6
50°	63.4	56.5	52.5	50.5	47.6	44.6	40.6	39.6	40.6	42.6	44.6
52.5°	57.5	49.5	46.6	45.6	42.6	39.6	36.7	35.7	36.7	38.6	37.6
55°	51.5	43.6	42.6	41.6	38.6	34.7	31.7	31.7	31.7	30.7	28.7
57.5°	49.5	38.6	37.6	36.7	33.7	29.7	27.7	25.8	24.8	21.8	20.8
60°	51.5	34.7	34.7	32.7	29.7	25.8	22.8	19.8	17.8	15.9	15.9
62.5°	41.6	31.7	30.7	28.7	24.8	20.8	17.8	14.9	13.9	12.9	12.9
65°	33.7	28.7	26.7	23.8	20.8	16.8	13.9	11.9	10.9	10.9	11.9
67.5°	30.7	25.8	22.8	19.8	16.8	12.9	10.9	9.9	9.9	10.9	10.9
69°	28.7	23.8	20.8	17.8	14.9	11.9	9.9	9.9	9.9	9.9	10.9
70°	26.7	22.8	19.8	16.8	12.9	9.9	8.9	8.9	9.9	9.9	10.9
72.5°	20.8	17.8	16.8	13.9	9.9	8.9	7.9	8.9	8.9	9.9	9.9
75°	15.9	12.9	12.9	10.9	7.9	6.9	6.9	7.9	7.9	8.9	8.9
77.5°	10.9	8.9	8.9	7.9	6.9	5.9	5.9	6.9	7.9	7.9	8.9
80°	7.9	6.9	5.9	6.9	5.9	5.0	5.9	6.9	6.9	7.9	7.9
82.5°	5.9	5.9	5.9	5.9	5.0	5.0	5.9	5.9	6.9	7.9	7.9
85°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.9	5.9	6.9	6.9
87.5°	3.0	3.0	3.0	4.0	4.0	5.0	5.0	5.0	5.0	5.9	5.9
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: P180853

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	456.7	456.7	456.7	456.7
2.5°	344.8	343.8	339.8	340.8
5°	241.7	235.8	239.7	238.8
7.5°	177.3	176.3	175.4	177.3
10°	151.6	151.6	150.6	151.6
12.5°	142.7	142.7	142.7	142.7
15°	135.7	135.7	134.7	134.7
17.5°	127.8	127.8	127.8	126.8
20°	119.9	118.9	118.9	118.9
22.5°	111.0	110.0	110.0	110.0
25°	102.0	101.0	101.0	101.0
27.5°	93.1	92.1	91.1	91.1
30°	84.2	83.2	82.2	82.2
32.5°	75.3	74.3	73.3	73.3
35°	67.4	67.4	66.4	65.4
37.5°	60.4	60.4	60.4	60.4
40°	55.5	56.5	56.5	56.5
42.5°	52.5	53.5	54.5	55.5
45°	50.5	52.5	53.5	53.5
47.5°	49.5	50.5	51.5	51.5
50°	45.6	44.6	44.6	44.6
52.5°	36.7	34.7	33.7	32.7
55°	26.7	25.8	23.8	23.8
57.5°	18.8	18.8	17.8	17.8
60°	14.9	14.9	13.9	14.9
62.5°	12.9	12.9	12.9	12.9
65°	11.9	11.9	11.9	11.9
67.5°	11.9	11.9	11.9	11.9
69°	10.9	10.9	10.9	10.9
70°	10.9	10.9	10.9	10.9
72.5°	9.9	9.9	9.9	9.9
75°	8.9	9.9	9.9	9.9
77.5°	8.9	8.9	8.9	8.9
80°	7.9	7.9	8.9	8.9
82.5°	7.9	7.9	7.9	7.9
85°	6.9	6.9	7.9	7.9
87.5°	5.9	5.9	6.9	6.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)