

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: P180783

Luminaire Tested: **ICM-F03-LED-E1-SL4-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180783
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: ICM-F03-LED-E1-SL4-HSS
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4687.8 lumens
Efficiency: N/A
Efficacy: 59.9 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

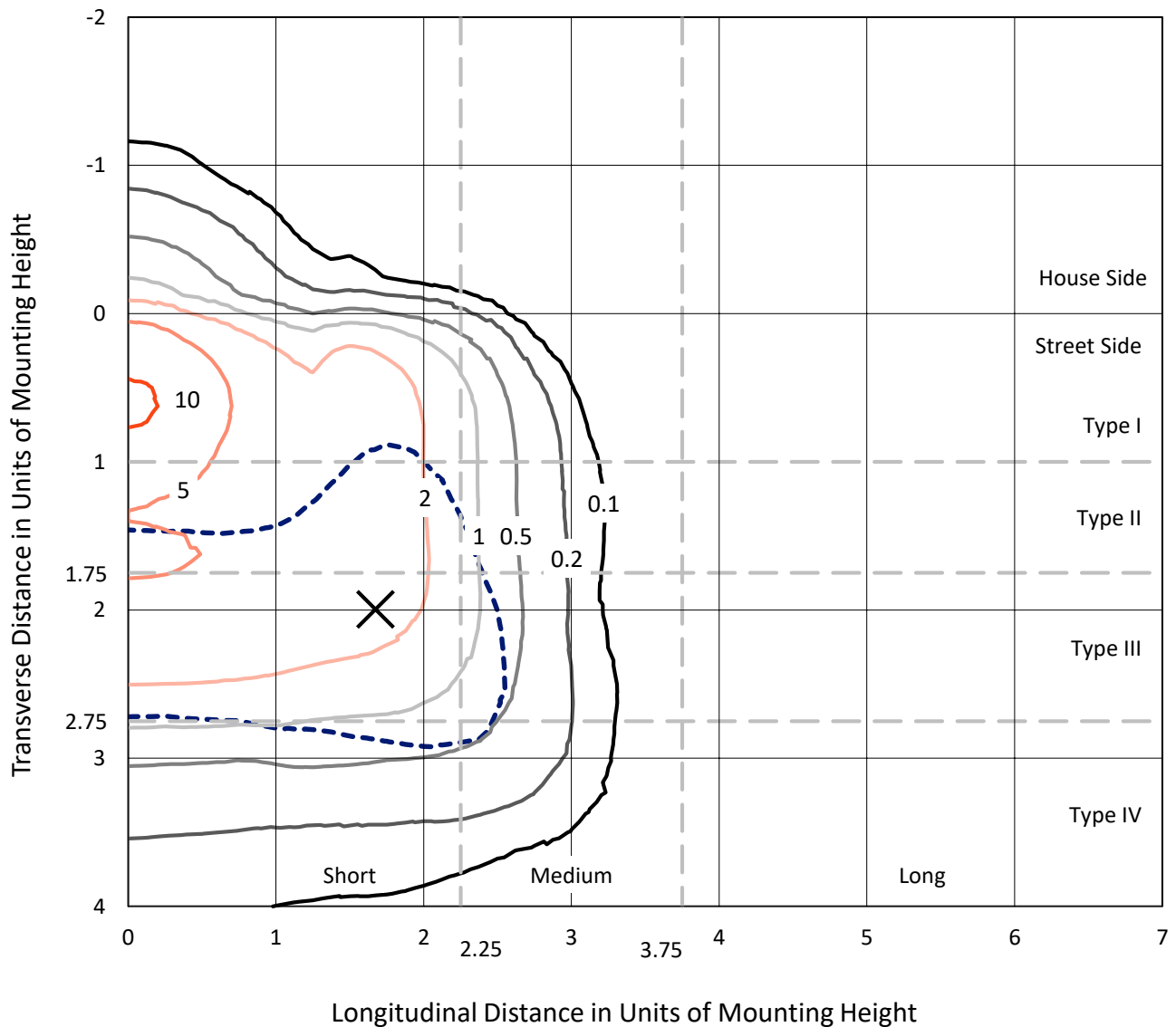


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

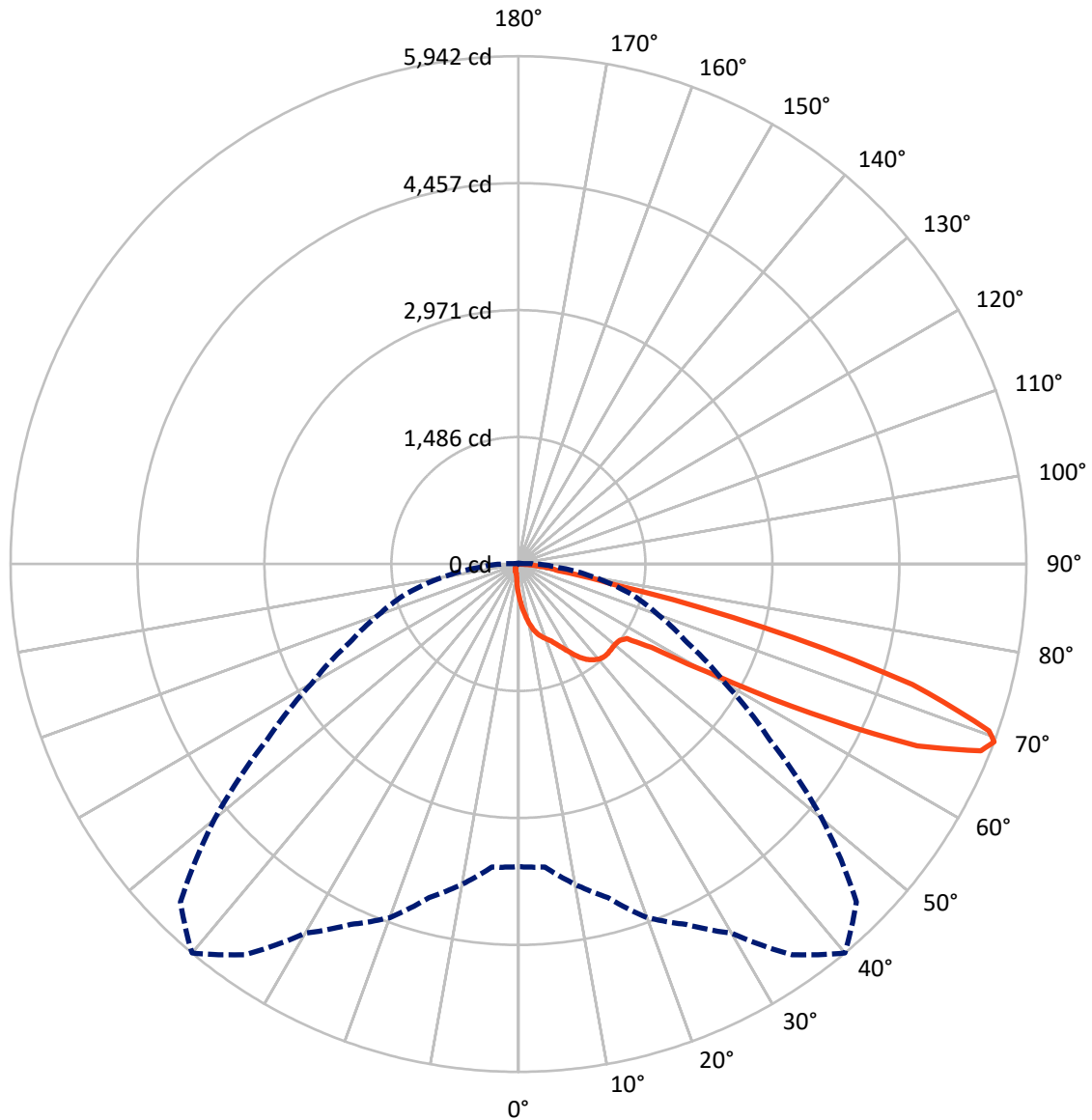


Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - Semi-Cutoff

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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
House Side	Lumens	139.6	0.0	139.6
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	4548.2	0.0	4548.2
	% Fixture	97.0	0.0	97.0
Total	Lumens	4687.8	0.0	4687.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.4	0.8
10°-20°	125.5	2.7
20°-30°	240.1	5.1
30°-40°	399.3	8.5
40°-50°	540.3	11.5
50°-60°	845.0	18.0
60°-70°	1737.4	37.1
70°-80°	699.1	14.9
80°-90°	64.7	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°	4687.8	100.0
0°-180°	4687.8	100.0



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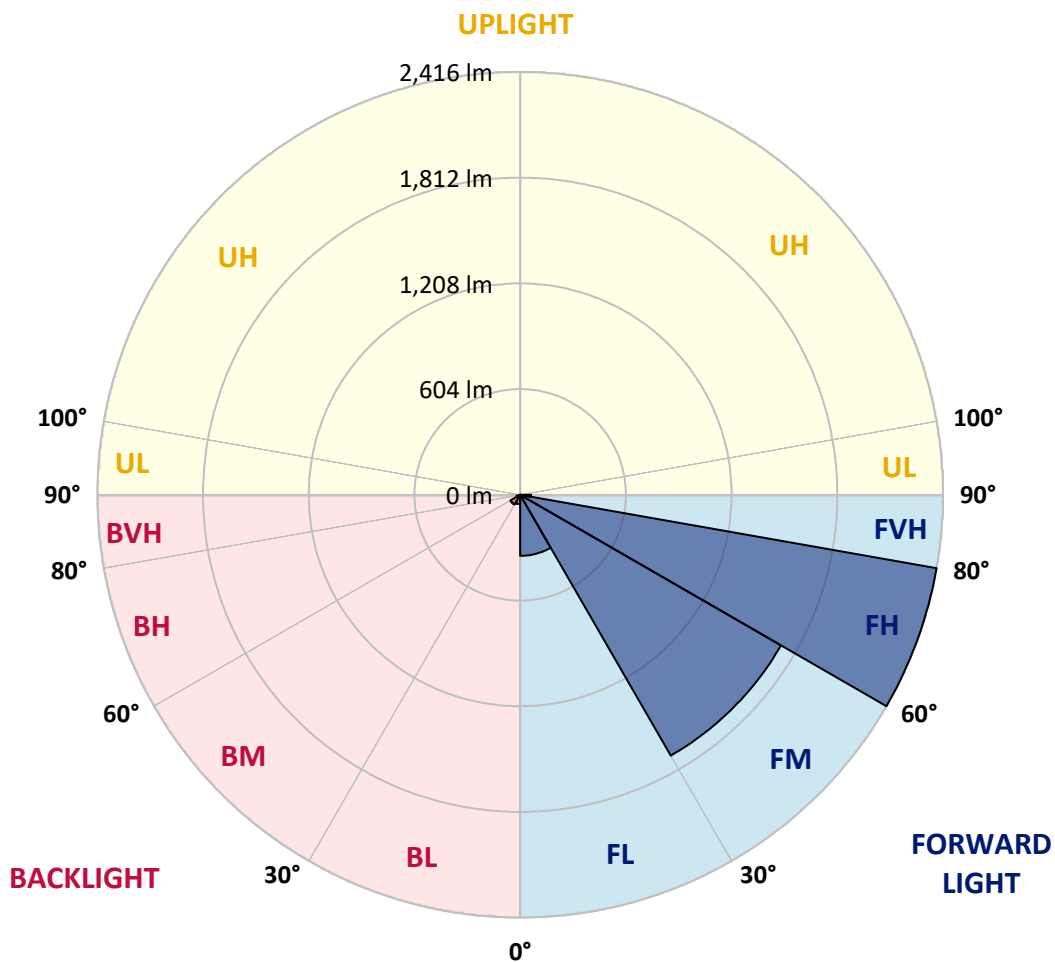
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	348.9	7.4			
FM (30°-60°)	1721.0	36.7			
FH (60°-80°)	2416.1	51.5			G2/5000
FVH (80°-90°)	62.3	1.3			G1/100
BL (0°-30°)	53.1	1.1	B0/110		
BM (30°-60°)	63.7	1.4	B0/220		
BH (60°-80°)	20.4	0.4	B0/110		G0/110
BVH (80°-90°)	2.4	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°	354.0	354.0	354.0	354.0	354.0	354.0	354.0	354.0	354.0	354.0	354.0
2.5°	472.3	466.9	460.7	460.7	453.1	453.1	448.5	436.2	434.6	427.7	420.8
5°	602.8	598.2	590.5	583.6	577.5	566.7	559.1	544.5	528.4	513.0	499.2
7.5°	730.3	728.0	714.1	711.9	701.9	684.2	668.8	647.4	619.7	598.2	572.8
10°	848.6	843.2	840.1	827.1	812.5	793.3	769.5	743.4	711.1	677.3	641.2
12.5°	942.2	939.2	925.4	920.0	904.7	885.4	855.4	821.7	789.4	745.7	703.4
15°	1012.1	1006.8	997.6	989.1	970.7	953.8	926.1	889.3	850.1	802.5	751.8
17.5°	1070.5	1060.5	1058.2	1045.1	1026.0	1006.0	975.3	941.5	895.4	847.8	792.5
20°	1148.8	1135.0	1130.4	1111.2	1088.9	1061.3	1026.0	983.7	935.4	883.2	826.3
22.5°	1240.9	1231.0	1221.0	1204.1	1175.7	1136.6	1085.1	1039.0	977.6	920.0	858.5
25°	1371.5	1363.1	1347.0	1323.9	1288.6	1241.8	1179.5	1112.0	1039.8	966.1	893.9
27.5°	1498.2	1490.5	1479.1	1461.4	1421.4	1370.0	1293.2	1207.2	1115.8	1026.7	946.9
30°	1617.3	1610.3	1598.8	1581.2	1545.9	1495.2	1408.4	1316.2	1202.6	1098.9	1002.9
32.5°	1745.5	1743.2	1730.2	1704.8	1674.1	1605.8	1511.3	1412.2	1297.0	1177.2	1065.1
35°	1890.6	1873.0	1860.7	1835.4	1783.2	1710.2	1599.6	1491.4	1370.0	1247.2	1122.0
37.5°	2013.5	1996.7	1981.3	1949.0	1885.3	1792.4	1667.2	1548.2	1423.0	1297.8	1170.3
40°	2103.4	2094.9	2076.5	2034.2	1962.8	1852.3	1717.1	1587.4	1461.4	1335.5	1209.5
42.5°	2170.2	2157.1	2136.4	2092.7	2008.1	1882.2	1737.0	1603.5	1479.1	1358.5	1234.8
45°	2194.8	2184.0	2164.9	2117.2	2025.8	1890.6	1736.3	1598.8	1479.8	1365.4	1251.7
47.5°	2180.2	2169.4	2152.5	2108.0	2018.2	1880.7	1722.5	1585.8	1472.1	1367.7	1267.1
50°	2131.8	2125.7	2112.6	2075.0	1994.3	1861.5	1710.2	1578.9	1470.6	1379.2	1288.6
52.5°	2127.2	2123.4	2107.2	2069.6	1987.5	1855.4	1708.7	1582.7	1483.6	1393.8	1303.9
55°	2599.5	2544.9	2422.8	2319.2	2148.7	1946.0	1786.2	1644.9	1539.0	1451.4	1388.4
57.5°	3694.5	3613.1	3452.7	3255.3	2863.6	2478.9	2171.0	1948.3	1838.4	1798.5	1822.3
60°	4207.6	4193.0	4167.6	4073.9	3873.4	3542.4	3173.9	2775.3	2615.6	2601.8	2650.2
62.5°	4450.9	4441.7	4449.4	4437.9	4375.7	4278.9	4173.0	4001.0	3842.7	3740.6	3524.0
65°	4563.1	4569.2	4613.0	4647.6	4655.2	4680.6	4758.2	4972.4	5129.1	4865.6	4264.3
67.5°	4278.2	4314.3	4414.8	4540.8	4688.2	4831.1	5061.4	5513.0	5834.7	5525.3	4671.4
69°	3541.7	3559.4	3805.1	4042.4	4402.5	4654.4	4988.5	5580.6	5942.3	5592.9	4639.1
70°	2788.4	2804.5	3067.9	3390.4	3999.4	4323.5	4760.4	5466.2	5841.7	5503.0	4473.2
72.5°	1257.9	1234.8	1327.7	1500.6	2162.5	2677.0	3441.1	4428.7	4819.6	4408.7	3346.6
75°	878.5	868.6	878.5	879.3	982.1	1267.1	1598.8	2400.6	2968.9	2561.9	1598.8
77.5°	680.4	673.5	666.6	658.9	671.2	751.8	784.1	851.6	1105.9	1046.0	609.8
80°	538.3	532.2	549.1	543.7	543.7	552.9	546.8	521.4	473.8	439.3	393.2
82.5°	250.3	251.9	251.9	273.4	329.5	384.7	402.4	377.0	334.8	284.9	229.6
85°	23.8	26.9	45.3	69.9	139.0	156.7	157.4	130.5	130.5	102.9	83.0
87.5°	0.0	0.7	0.7	0.7	6.9	19.2	16.1	4.7	2.3	2.3	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°	354.0	354.0	354.0	354.0	354.0	354.0	354.0	354.0	354.0	354.0	354.0
2.5°	408.6	406.2	397.0	387.8	379.4	370.1	361.7	353.2	344.0	337.1	328.7
5°	477.7	460.7	441.6	423.2	404.7	385.5	365.5	347.9	329.5	312.6	296.5
7.5°	547.5	514.5	488.4	455.4	425.4	395.4	367.8	339.4	313.3	288.7	265.7
10°	606.7	566.7	526.0	483.8	440.8	400.8	362.4	328.7	294.1	264.2	235.7
12.5°	655.1	604.4	554.4	501.5	453.1	402.4	354.8	314.0	273.4	239.6	210.4
15°	698.8	640.5	580.6	519.2	457.7	400.1	347.1	296.5	255.0	216.6	183.5
17.5°	734.1	667.4	599.7	530.6	464.6	397.0	337.1	284.1	235.7	195.8	163.5
20°	764.8	695.0	622.1	544.5	469.2	396.3	328.7	268.7	218.9	176.7	145.1
22.5°	793.3	723.4	645.0	562.1	476.1	395.4	321.0	257.3	204.3	162.0	130.5
25°	825.5	751.8	669.7	580.6	488.4	398.5	316.4	248.0	191.3	148.2	119.1
27.5°	861.6	784.1	698.8	603.6	504.6	404.7	314.9	238.0	179.7	135.2	109.9
30°	912.3	822.4	728.0	626.6	519.2	411.6	313.3	231.9	168.2	125.2	100.6
32.5°	956.8	860.1	760.3	650.4	535.3	418.5	312.6	223.4	157.4	115.2	93.7
35°	1003.7	894.6	787.9	673.5	549.1	426.2	311.8	217.3	147.4	105.2	86.8
37.5°	1044.4	923.8	809.4	693.4	564.5	433.1	312.6	211.9	138.2	96.7	80.7
40°	1079.0	953.8	833.2	711.9	580.6	443.9	313.3	206.6	129.0	89.1	75.3
42.5°	1109.7	982.1	858.5	732.7	599.0	456.2	318.0	202.0	121.3	82.1	69.9
45°	1133.5	1008.3	886.2	761.8	628.9	476.1	326.3	198.9	113.7	76.0	65.3
47.5°	1158.1	1046.7	933.0	807.9	672.7	507.6	340.9	198.1	107.5	71.4	61.4
50°	1191.8	1085.1	974.5	854.7	712.7	539.8	358.6	198.9	99.8	66.8	57.6
52.5°	1216.4	1124.3	1028.3	936.1	807.9	638.1	427.0	212.7	96.0	63.0	53.0
55°	1361.6	1345.4	1347.7	1363.1	1264.0	1085.9	714.1	307.2	112.9	71.4	52.2
57.5°	1919.8	1976.7	2009.7	2008.9	1845.3	1530.5	959.2	394.7	126.0	83.0	62.2
60°	2654.0	2611.0	2550.3	2400.6	2183.3	1747.1	1072.8	424.7	109.0	66.0	56.8
62.5°	3302.9	3051.0	2827.6	2584.9	2299.9	1822.3	1095.8	422.3	95.3	50.0	39.9
65°	3707.6	3254.5	2893.6	2589.5	2253.9	1759.4	1036.8	387.8	80.7	40.7	33.0
67.5°	3804.4	3144.7	2634.1	2246.2	1883.0	1369.2	761.0	291.8	63.0	33.8	29.2
69°	3593.1	2795.3	2182.4	1742.4	1370.0	908.5	470.7	184.3	48.4	30.7	26.9
70°	3305.2	2431.3	1777.8	1398.4	1014.4	638.1	329.5	129.8	39.2	28.4	24.6
72.5°	2126.4	1277.0	873.9	608.2	418.5	254.1	129.0	58.3	30.0	23.8	20.0
75°	824.7	472.3	342.5	260.4	203.5	141.3	78.3	37.7	25.3	20.0	15.3
77.5°	406.2	311.0	254.1	174.3	101.4	63.0	42.2	29.2	20.7	14.6	10.0
80°	321.0	213.5	127.4	79.1	59.9	45.3	32.3	23.8	15.3	9.2	6.9
82.5°	164.4	89.9	66.0	53.8	44.6	35.3	26.1	16.9	10.0	6.1	5.4
85°	51.4	37.7	33.8	33.0	30.7	25.3	18.4	10.8	6.1	3.8	3.8
87.5°	3.8	5.4	6.9	5.4	6.1	5.4	6.9	4.7	3.1	3.1	2.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	354.0	354.0	354.0	354.0	354.0	354.0	354.0	354.0	354.0	354.0	354.0
2.5°	322.5	313.3	304.8	299.5	289.5	285.7	281.9	280.3	273.4	274.9	268.7
5°	281.9	265.7	253.4	241.1	229.6	221.2	214.2	205.8	198.9	195.8	189.7
7.5°	244.9	224.3	208.1	195.1	181.2	170.5	161.3	155.2	149.0	142.8	139.7
10°	212.7	190.4	172.0	159.0	145.9	136.7	129.8	125.2	121.3	119.1	118.2
12.5°	182.8	161.3	144.4	132.8	122.9	118.2	115.2	112.9	112.1	111.3	111.3
15°	159.7	138.2	125.2	116.7	112.1	109.9	109.0	107.5	106.0	105.2	105.2
17.5°	138.2	122.1	112.9	108.3	106.0	104.5	102.9	101.4	99.8	99.1	99.1
20°	123.6	110.6	106.0	102.9	100.6	99.1	96.7	95.3	94.4	93.7	92.9
22.5°	112.1	103.6	100.6	98.3	95.3	92.9	91.3	89.9	88.3	87.5	86.8
25°	103.6	98.3	96.0	92.9	89.9	87.5	85.2	83.0	81.4	80.7	79.1
27.5°	97.5	93.7	90.6	86.8	83.7	81.4	79.1	76.8	75.3	73.8	72.9
30°	92.2	88.3	84.5	81.4	77.6	75.3	72.2	69.9	69.1	67.5	66.0
32.5°	86.8	83.0	79.1	75.3	71.4	68.4	66.8	63.7	62.2	61.4	59.9
35°	80.7	76.8	72.2	69.1	65.3	62.2	59.9	57.6	56.1	54.5	53.8
37.5°	75.3	70.6	66.0	62.2	59.2	56.1	53.8	51.4	50.0	48.4	47.6
40°	69.1	64.5	59.9	56.1	53.0	50.7	48.4	46.0	44.6	43.8	43.8
42.5°	63.7	58.3	53.8	50.7	48.4	45.3	43.0	40.7	39.9	39.2	39.9
45°	58.3	53.0	49.1	46.0	43.8	40.7	38.4	36.8	36.1	36.8	37.7
47.5°	53.8	48.4	44.6	42.2	39.9	37.7	35.3	33.8	33.8	35.3	36.8
50°	49.1	43.8	40.7	39.2	36.8	34.5	31.4	30.7	31.4	33.0	34.5
52.5°	44.6	38.4	36.1	35.3	33.0	30.7	28.4	27.6	28.4	30.0	29.2
55°	39.9	33.8	33.0	32.3	30.0	26.9	24.6	24.6	24.6	23.8	22.2
57.5°	38.4	30.0	29.2	28.4	26.1	23.1	21.5	20.0	19.2	16.9	16.1
60°	39.9	26.9	26.9	25.3	23.1	20.0	17.7	15.3	13.9	12.3	12.3
62.5°	32.3	24.6	23.8	22.2	19.2	16.1	13.9	11.5	10.8	10.0	10.0
65°	26.1	22.2	20.7	18.4	16.1	13.0	10.8	9.2	8.5	8.5	9.2
67.5°	23.8	20.0	17.7	15.3	13.0	10.0	8.5	7.7	7.7	8.5	8.5
69°	22.2	18.4	16.1	13.9	11.5	9.2	7.7	7.7	7.7	7.7	8.5
70°	20.7	17.7	15.3	13.0	10.0	7.7	6.9	6.9	7.7	7.7	8.5
72.5°	16.1	13.9	13.0	10.8	7.7	6.9	6.1	6.9	6.9	7.7	7.7
75°	12.3	10.0	10.0	8.5	6.1	5.4	5.4	6.1	6.1	6.9	6.9
77.5°	8.5	6.9	6.9	6.1	5.4	4.7	4.7	5.4	6.1	6.1	6.9
80°	6.1	5.4	4.7	5.4	4.7	3.8	4.7	5.4	5.4	6.1	6.1
82.5°	4.7	4.7	4.7	4.7	3.8	3.8	4.7	4.7	5.4	6.1	6.1
85°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.7	4.7	5.4	5.4
87.5°	2.3	2.3	2.3	3.1	3.1	3.8	3.8	3.8	3.8	4.7	4.7
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):

	165°	170°	175°	180°
0°	354.0	354.0	354.0	354.0
2.5°	267.3	266.5	263.4	264.2
5°	187.3	182.8	185.9	185.1
7.5°	137.5	136.7	135.9	137.5
10°	117.5	117.5	116.7	117.5
12.5°	110.6	110.6	110.6	110.6
15°	105.2	105.2	104.5	104.5
17.5°	99.1	99.1	99.1	98.3
20°	92.9	92.2	92.2	92.2
22.5°	86.0	85.2	85.2	85.2
25°	79.1	78.3	78.3	78.3
27.5°	72.2	71.4	70.6	70.6
30°	65.3	64.5	63.7	63.7
32.5°	58.3	57.6	56.8	56.8
35°	52.2	52.2	51.4	50.7
37.5°	46.9	46.9	46.9	46.9
40°	43.0	43.8	43.8	43.8
42.5°	40.7	41.5	42.2	43.0
45°	39.2	40.7	41.5	41.5
47.5°	38.4	39.2	39.9	39.9
50°	35.3	34.5	34.5	34.5
52.5°	28.4	26.9	26.1	25.3
55°	20.7	20.0	18.4	18.4
57.5°	14.6	14.6	13.9	13.9
60°	11.5	11.5	10.8	11.5
62.5°	10.0	10.0	10.0	10.0
65°	9.2	9.2	9.2	9.2
67.5°	9.2	9.2	9.2	9.2
69°	8.5	8.5	8.5	8.5
70°	8.5	8.5	8.5	8.5
72.5°	7.7	7.7	7.7	7.7
75°	6.9	7.7	7.7	7.7
77.5°	6.9	6.9	6.9	6.9
80°	6.1	6.1	6.9	6.9
82.5°	6.1	6.1	6.1	6.1
85°	5.4	5.4	6.1	6.1
87.5°	4.7	4.7	5.4	5.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)