

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: P180382

Luminaire Tested: **ICM-F03-LED-E1-SL2-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180382
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
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-SL2-HSS-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3858.2 lumens
Efficiency: N/A
Efficacy: 49.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

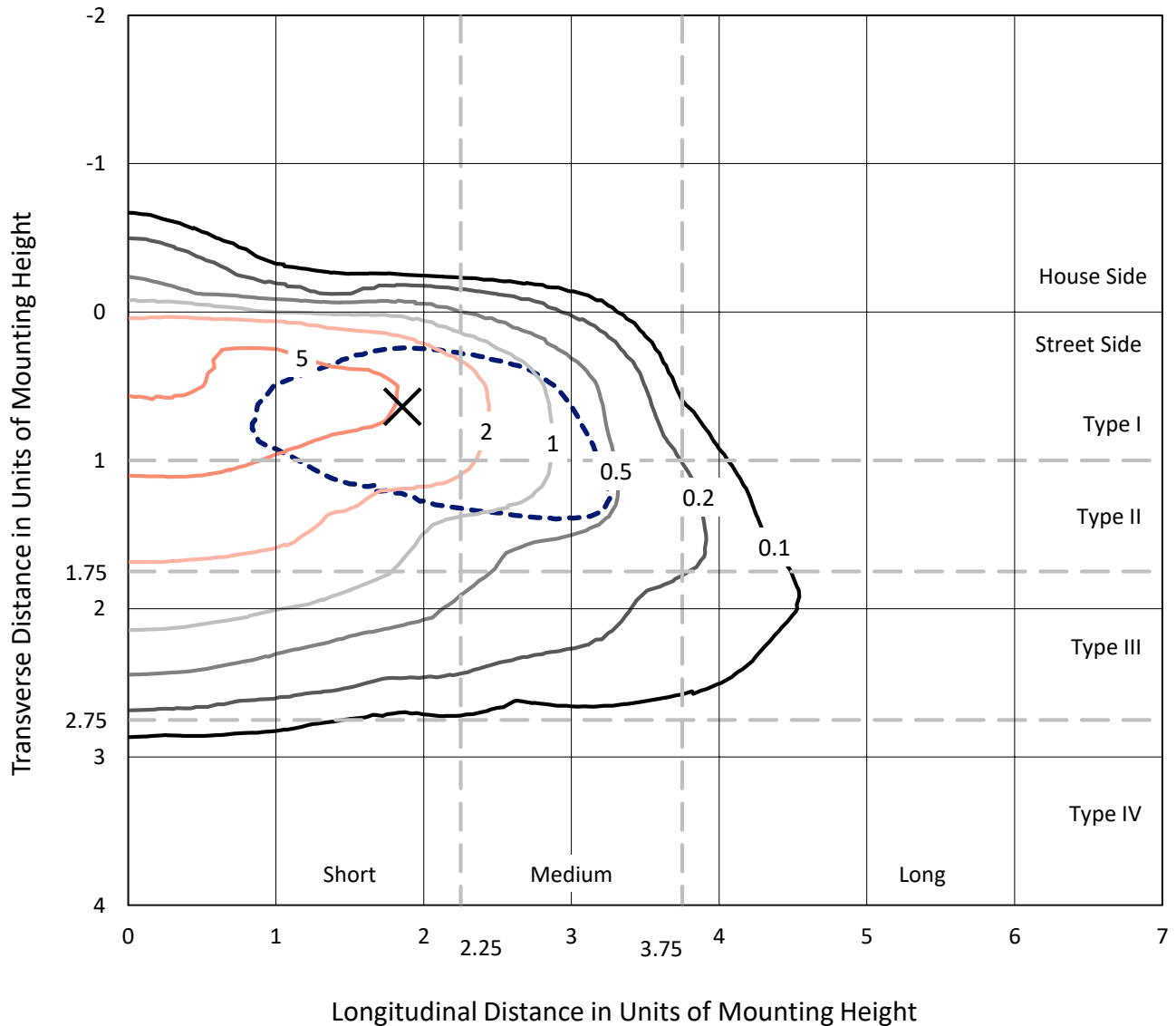
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

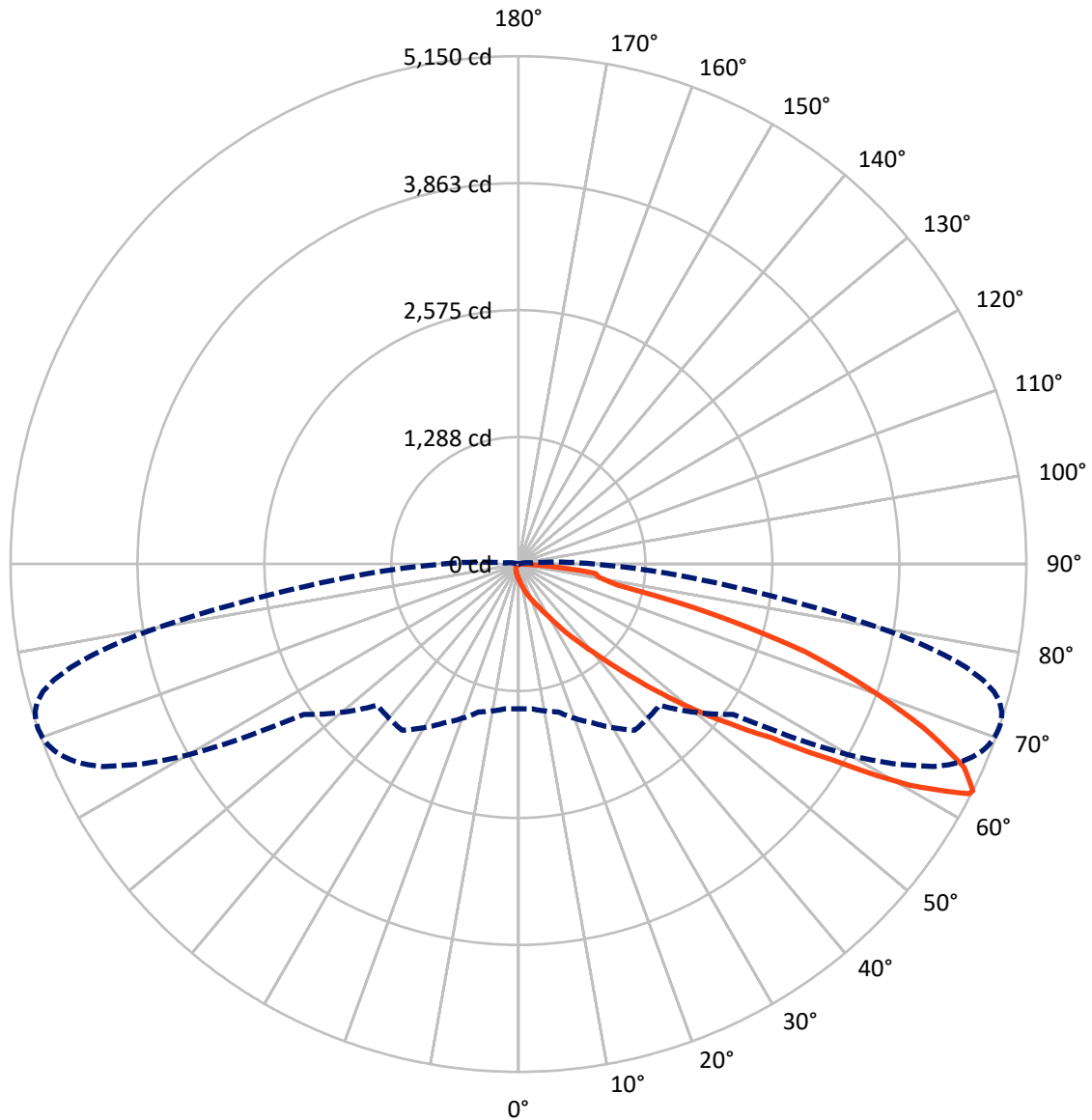
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	81.9	0.0	81.9
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	3776.3	0.0	3776.3
	% Fixture	97.9	0.0	97.9
Total	Lumens	3858.2	0.0	3858.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.4	0.4
10°-20°	63.4	1.6
20°-30°	128.9	3.3
30°-40°	314.8	8.2
40°-50°	704.0	18.2
50°-60°	990.0	25.7
60°-70°	1164.1	30.2
70°-80°	420.4	10.9
80°-90°	56.2	1.5
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°	3858.2	100.0
0°-180°	3858.2	100.0



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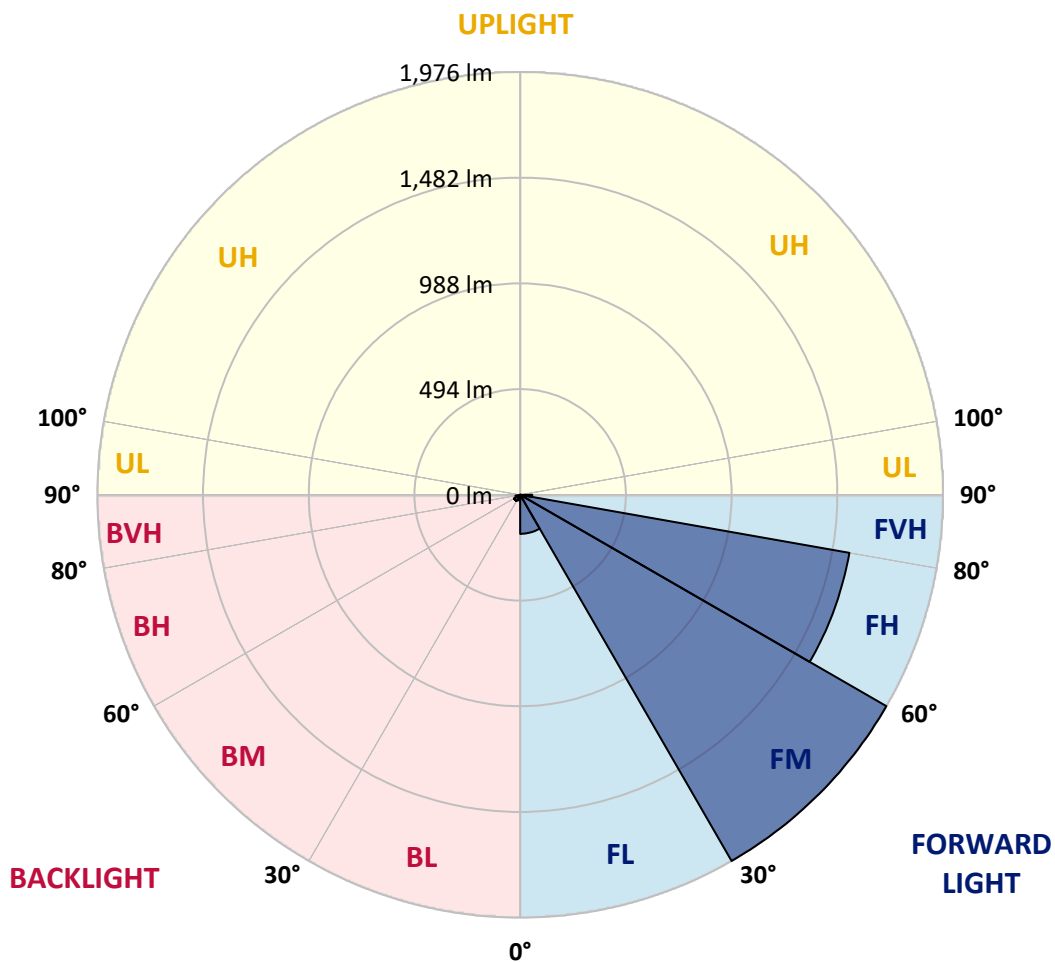
CATALOG NUMBER: ICM-F03-LED-E1-SL2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	182.3	4.7			
FM (30°-60°)	1975.8	51.2			
FH (60°-80°)	1562.0	40.5			G1/1800
FVH (80°-90°)	56.1	1.5			G1/100
BL (0°-30°)	26.3	0.7	B0/110		
BM (30°-60°)	33.0	0.9	B0/220		
BH (60°-80°)	22.5	0.6	B0/110		G0/110
BVH (80°-90°)	0.1	0.0			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°	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0
2.5°	193.6	195.7	194.3	190.8	186.6	180.9	176.1	176.1	175.3	173.2	174.0
5°	253.9	254.6	251.8	243.4	235.6	223.7	210.4	209.0	207.6	205.5	204.8
7.5°	312.8	315.6	312.8	303.7	288.3	270.0	249.0	246.9	242.7	242.7	239.9
10°	373.1	373.1	370.3	359.8	345.8	319.8	293.2	289.7	284.7	283.4	279.2
12.5°	415.9	415.9	414.5	408.9	397.7	374.5	342.2	338.8	332.5	330.3	325.5
15°	432.7	432.7	433.5	438.3	439.1	428.6	394.9	392.1	385.8	380.2	378.0
17.5°	443.3	442.6	442.6	449.6	462.2	469.2	447.4	444.7	437.7	434.9	427.8
20°	466.4	465.0	460.8	460.8	472.7	497.3	497.3	496.6	488.8	486.8	483.3
22.5°	500.8	499.4	486.8	476.3	481.9	512.7	541.5	540.1	537.3	534.4	532.4
25°	556.9	552.0	530.2	499.4	494.5	527.4	575.2	578.6	580.7	580.7	582.1
27.5°	641.8	635.4	596.8	539.4	517.6	551.3	612.3	619.4	625.7	627.1	633.4
30°	759.6	748.4	692.9	608.8	559.0	586.3	667.0	674.7	683.8	686.7	696.5
32.5°	953.2	946.9	893.6	767.4	660.7	655.1	743.4	753.3	765.2	770.1	782.1
35°	1247.8	1249.2	1205.7	1092.1	944.7	867.6	880.3	888.7	892.8	907.6	914.0
37.5°	1447.6	1451.2	1461.0	1416.1	1310.9	1232.4	1133.5	1142.6	1120.8	1122.9	1123.6
40°	1557.1	1568.3	1625.9	1669.3	1660.9	1615.3	1536.0	1540.9	1500.3	1491.2	1447.0
42.5°	1630.1	1644.8	1736.7	1871.4	1940.0	1981.4	1963.2	1961.1	1929.5	1917.6	1880.5
45°	1675.6	1688.9	1804.7	2003.2	2161.7	2282.3	2332.1	2337.8	2311.1	2299.2	2268.3
47.5°	1673.5	1688.9	1813.1	2052.3	2285.9	2478.7	2619.0	2626.1	2642.2	2631.6	2633.7
50°	1580.9	1595.6	1720.5	1968.8	2249.4	2568.5	2825.2	2847.6	2873.6	2891.2	2899.6
52.5°	1468.8	1479.3	1590.1	1825.7	2093.7	2531.4	2947.3	2985.9	3024.4	3057.4	3080.5
55°	1427.4	1439.3	1526.2	1722.0	1968.8	2375.6	3004.1	3060.9	3115.6	3169.6	3213.8
57.5°	1449.1	1460.3	1522.7	1672.8	1894.4	2211.5	3020.2	3108.6	3198.3	3286.1	3373.0
60°	1529.0	1540.9	1594.2	1718.4	1874.8	2116.9	2957.0	3103.6	3253.0	3406.0	3549.8
62.5°	1497.5	1502.4	1580.9	1798.3	2015.1	2036.1	2727.7	2932.5	3160.5	3396.1	3628.3
63°	1467.4	1472.9	1552.8	1776.7	2057.9	2024.2	2656.9	2872.9	3113.5	3367.4	3619.9
65°	1330.5	1331.3	1392.3	1569.0	2010.2	2045.2	2341.2	2547.5	2823.8	3128.2	3447.4
67.5°	993.2	988.3	1047.2	1181.9	1578.1	2046.0	2009.5	2125.2	2317.4	2587.5	2873.6
70°	352.1	344.4	439.8	626.3	983.4	1673.5	1726.8	1734.5	1787.8	1933.8	2113.3
72.5°	114.3	116.5	140.3	229.4	453.1	1126.4	1563.5	1539.5	1525.5	1524.8	1548.7
75°	45.6	46.3	56.1	101.7	203.4	542.9	1369.1	1382.4	1387.4	1394.3	1402.1
77.5°	21.8	23.8	31.5	56.8	101.0	268.7	979.8	1092.8	1157.3	1207.1	1237.2
80°	7.7	9.1	17.5	35.1	47.0	123.4	516.2	622.8	717.5	839.5	944.7
82.5°	0.0	0.0	3.5	24.6	26.0	49.8	211.8	248.3	284.1	368.2	472.7
85°	0.0	0.0	0.0	7.0	7.7	8.4	71.5	86.2	96.8	112.9	130.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.1	4.2	10.5	16.1
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0
2.5°	172.6	171.8	171.8	170.4	169.8	168.4	167.6	165.5	164.8	164.8	164.8
5°	204.1	201.3	199.9	196.4	194.3	193.6	190.0	188.7	186.6	187.3	183.7
7.5°	239.2	234.2	232.2	227.3	225.9	220.9	219.5	216.0	214.0	209.7	208.3
10°	277.8	271.4	267.9	260.2	258.1	254.6	250.4	246.2	242.7	238.5	236.4
12.5°	322.0	316.4	313.5	303.0	298.0	293.2	287.5	282.0	276.4	272.8	267.9
15°	373.9	364.7	362.0	352.1	343.7	337.4	329.7	322.6	318.4	311.4	306.5
17.5°	425.0	415.9	413.9	399.1	390.0	385.8	377.3	368.2	360.6	353.5	345.8
20°	476.3	470.0	464.3	450.3	440.5	433.5	422.2	413.1	406.8	397.0	387.2
22.5°	527.4	521.1	516.9	502.2	493.1	483.3	473.4	463.6	454.5	442.6	431.4
25°	580.1	575.8	573.8	560.4	552.0	542.9	533.0	521.9	510.6	497.3	485.4
27.5°	634.8	636.2	631.9	629.1	620.0	613.7	598.3	590.6	582.1	566.0	551.3
30°	704.2	708.4	707.0	709.1	703.5	699.3	687.4	677.6	667.7	652.3	635.4
32.5°	791.9	797.5	800.3	808.0	805.2	803.8	800.3	786.2	779.3	752.6	745.6
35°	927.3	924.5	936.4	942.7	939.9	938.4	934.2	926.5	918.1	899.2	881.7
37.5°	1103.3	1106.1	1110.3	1097.7	1089.3	1088.6	1075.9	1068.2	1056.3	1035.3	1014.2
40°	1426.0	1408.4	1388.8	1335.5	1312.3	1299.0	1261.8	1251.3	1231.0	1202.1	1180.5
42.5°	1845.4	1827.8	1768.9	1679.8	1632.1	1566.2	1536.0	1498.9	1470.1	1423.2	1397.9
45°	2262.0	2211.5	2204.5	2100.7	2041.8	1954.8	1900.8	1838.3	1773.1	1711.4	1666.5
47.5°	2613.4	2602.2	2567.8	2504.7	2450.0	2377.0	2307.5	2211.5	2144.2	2056.5	1975.8
50°	2894.6	2894.0	2881.3	2844.9	2799.3	2740.4	2679.4	2598.0	2521.5	2414.2	2327.9
52.5°	3105.0	3116.3	3120.5	3109.3	3091.7	3039.8	3008.9	2940.9	2876.4	2785.2	2691.9
55°	3259.4	3300.8	3321.8	3345.6	3340.8	3322.5	3321.1	3277.0	3247.5	3175.2	3109.3
57.5°	3450.2	3518.2	3583.5	3699.2	3703.4	3744.0	3765.0	3786.2	3791.7	3763.0	3741.2
60°	3692.9	3831.7	3955.2	4197.1	4260.3	4359.8	4424.4	4494.5	4554.2	4559.1	4557.6
62.5°	3864.0	4077.9	4277.1	4636.2	4758.9	4874.0	4960.2	5028.3	5069.7	5111.8	5131.4
63°	3868.9	4103.2	4315.0	4685.3	4814.4	4923.8	5005.9	5069.0	5112.5	5137.7	5150.4
65°	3750.3	4034.4	4286.9	4655.8	4777.1	4887.3	4930.1	4971.5	4992.5	5002.4	4965.1
67.5°	3178.7	3456.5	3751.1	4163.5	4267.3	4399.1	4434.2	4455.3	4465.1	4463.0	4431.4
70°	2377.0	2609.9	2937.4	3408.8	3546.3	3675.3	3755.3	3789.6	3800.9	3797.3	3750.3
72.5°	1659.5	1796.3	2066.3	2591.0	2778.2	2943.7	3042.6	3093.9	3104.4	3083.4	3039.8
75°	1393.7	1400.7	1461.7	1748.6	1923.9	2100.7	2212.2	2244.5	2223.5	2159.5	2048.8
77.5°	1244.3	1259.7	1259.7	1302.5	1336.8	1386.0	1396.5	1318.0	1226.7	1108.9	1013.5
80°	1043.6	1097.7	1135.5	1167.1	1170.6	1160.8	1134.9	1090.7	1020.6	930.7	831.2
82.5°	634.1	740.7	784.2	946.9	1026.8	1080.8	1076.7	1017.7	964.4	871.2	786.2
85°	159.9	172.6	187.3	243.4	272.8	333.1	371.1	388.6	394.9	362.6	328.3
87.5°	15.4	10.5	17.5	13.3	19.0	14.0	19.0	17.5	21.8	23.2	25.2
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°	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0
2.5°	163.4	162.7	162.0	161.3	160.7	159.9	158.5	158.5	157.1	156.4	155.7
5°	181.7	180.3	179.5	178.1	176.1	174.6	172.6	169.8	167.6	167.0	165.5
7.5°	204.8	201.3	199.9	197.8	195.0	190.8	188.0	185.9	182.3	180.3	176.1
10°	230.8	227.3	223.1	218.8	214.6	209.7	206.2	203.4	197.8	195.0	190.0
12.5°	263.7	257.4	252.5	246.9	241.3	235.6	231.4	223.1	218.1	211.8	207.6
15°	297.4	291.8	286.1	279.2	270.7	261.6	257.4	249.7	243.4	233.6	227.9
17.5°	338.0	327.5	319.2	310.7	303.0	294.6	286.1	274.2	265.1	256.7	245.5
20°	378.0	365.4	356.3	345.1	333.9	320.6	310.7	302.3	289.7	278.4	266.5
22.5°	420.8	408.2	393.5	382.2	366.8	356.3	343.0	328.9	316.4	301.6	286.9
25°	472.7	459.4	442.6	427.8	410.3	395.6	379.4	363.4	347.9	331.1	312.1
27.5°	536.6	522.5	504.3	486.8	463.6	445.4	430.0	408.2	388.6	367.5	345.8
30°	617.2	601.8	579.4	554.1	531.0	510.6	488.8	460.1	438.3	413.1	385.0
32.5°	722.4	704.2	674.1	650.2	621.4	594.8	564.7	535.9	505.0	472.0	439.8
35°	855.0	838.1	803.1	768.0	736.5	704.9	667.0	634.1	590.6	550.6	509.2
37.5°	992.5	962.3	930.1	892.2	852.9	815.0	768.7	723.2	673.3	629.9	578.0
40°	1149.6	1113.1	1086.4	1045.8	990.3	936.4	893.6	836.7	774.3	716.1	655.1
42.5°	1364.9	1324.2	1276.6	1214.8	1174.8	1111.7	1056.3	988.9	906.9	841.7	768.0
45°	1613.9	1558.5	1512.2	1452.6	1404.2	1325.6	1261.1	1171.4	1089.3	1003.7	914.0
47.5°	1898.0	1829.2	1761.9	1703.0	1625.9	1548.7	1466.6	1371.3	1266.1	1172.0	1065.4
50°	2224.1	2126.6	2033.3	1957.6	1851.6	1762.6	1673.5	1566.2	1449.8	1341.8	1220.4
52.5°	2586.7	2473.8	2350.3	2234.0	2111.2	1996.8	1889.6	1766.2	1636.4	1504.5	1369.1
55°	3024.4	2939.6	2794.3	2646.3	2482.2	2329.3	2191.2	2038.2	1880.5	1707.2	1564.8
57.5°	3709.7	3668.3	3546.9	3399.0	3185.0	2999.2	2764.9	2577.6	2348.9	2110.5	1926.7
60°	4638.4	4587.1	4519.1	4399.1	4229.4	3976.9	3718.8	3427.7	3079.8	2749.5	2435.9
62.5°	5133.5	5115.3	5059.8	4977.1	4818.5	4619.4	4359.2	4039.3	3646.5	3245.3	2845.6
63°	5148.2	5125.1	5077.4	4993.2	4853.6	4660.8	4405.4	4094.7	3710.3	3301.4	2893.2
65°	4949.1	4939.9	4891.6	4799.7	4704.2	4557.0	4359.2	4091.9	3769.3	3382.8	2976.7
67.5°	4389.3	4362.0	4287.7	4259.6	4193.0	4090.5	3939.7	3755.9	3525.2	3221.5	2870.8
70°	3712.5	3671.8	3578.5	3528.7	3447.4	3382.8	3290.9	3159.7	3017.4	2805.6	2543.9
72.5°	2995.0	2910.8	2825.2	2695.5	2581.8	2466.8	2365.1	2272.5	2116.1	2030.5	1832.0
75°	1944.9	1792.1	1645.5	1449.1	1272.3	1115.9	963.7	886.5	726.0	660.7	567.4
77.5°	923.1	837.5	722.4	633.4	519.7	424.4	346.5	260.2	204.1	159.9	122.0
80°	744.8	672.7	603.2	522.5	436.9	348.6	267.3	199.9	141.7	98.2	69.4
82.5°	664.2	585.7	500.1	444.7	386.5	316.4	259.5	211.8	156.4	114.3	77.9
85°	258.1	217.4	167.6	136.7	106.6	87.6	79.3	54.7	42.8	33.7	26.0
87.5°	22.4	18.2	14.7	9.9	10.5	5.6	6.3	4.2	3.5	3.5	2.8
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0
2.5°	155.0	154.3	153.6	152.2	152.2	150.8	150.1	149.4	145.9	138.1	131.9
5°	162.7	161.3	159.9	157.8	156.4	154.3	152.9	150.8	143.1	128.4	115.7
7.5°	174.0	171.2	169.0	164.8	162.7	159.9	157.8	154.3	141.7	119.3	101.7
10°	187.3	182.3	178.9	174.0	169.8	166.2	162.7	157.8	140.3	109.4	89.1
12.5°	203.4	197.8	190.8	185.2	179.5	174.6	169.8	163.4	138.1	101.0	79.3
15°	219.5	211.2	206.2	198.5	190.8	183.7	176.7	171.2	138.9	91.9	70.9
17.5°	237.8	229.4	218.8	210.4	202.0	192.8	184.5	173.2	135.3	84.8	64.6
20°	255.4	243.4	233.6	223.1	211.2	199.9	189.4	179.5	132.6	77.9	58.9
22.5°	274.2	260.2	247.6	234.2	219.5	206.9	194.3	181.7	127.6	71.5	54.0
25°	297.4	281.3	263.0	246.9	231.4	216.0	199.9	184.5	122.7	66.0	50.5
27.5°	325.5	304.4	286.1	265.9	244.1	224.5	206.9	190.0	117.9	61.8	47.0
30°	361.2	336.7	310.7	284.7	261.6	239.2	214.6	193.6	112.9	57.5	43.4
32.5°	408.9	378.0	346.5	316.4	285.5	256.7	230.8	203.4	110.1	54.0	40.0
35°	472.0	432.1	393.5	355.6	318.4	283.4	249.7	218.8	110.1	49.8	35.8
37.5°	531.6	485.4	436.3	389.3	345.1	304.4	264.5	227.3	104.5	46.3	32.3
40°	596.2	540.7	483.3	427.8	374.5	324.0	278.4	235.6	99.6	42.0	28.7
42.5°	695.1	624.9	549.9	485.4	421.6	359.1	302.3	251.8	93.3	37.9	25.2
45°	824.8	735.7	647.4	568.8	487.4	411.0	343.7	281.3	91.9	34.3	21.8
47.5°	963.7	858.5	754.7	654.4	559.0	470.0	389.3	314.2	91.9	30.9	19.0
50°	1101.9	970.1	859.2	742.8	635.4	530.2	434.1	348.6	92.6	28.1	15.4
52.5°	1226.7	1085.8	961.6	827.0	708.4	586.3	481.9	382.2	91.2	24.6	12.7
55°	1400.0	1234.4	1090.7	942.0	803.1	665.6	547.1	432.7	91.9	21.8	10.5
57.5°	1719.1	1524.8	1351.5	1156.6	996.7	819.3	675.4	536.6	100.3	18.2	7.7
60°	2177.1	1924.7	1681.2	1443.5	1240.1	1028.9	842.3	679.0	117.9	14.7	5.6
62.5°	2485.0	2154.7	1864.3	1602.0	1365.6	1144.7	941.3	755.4	129.8	11.9	3.5
63°	2516.6	2175.0	1883.3	1612.5	1371.3	1150.2	945.5	761.0	130.4	11.3	3.5
65°	2576.2	2210.1	1893.8	1614.6	1365.6	1142.6	942.7	760.3	131.9	9.1	2.8
67.5°	2508.2	2156.1	1832.8	1554.2	1316.5	1096.9	907.6	732.3	131.2	6.3	2.1
70°	2243.1	1951.3	1667.2	1407.7	1191.6	993.2	826.2	667.7	120.7	4.2	1.4
72.5°	1646.9	1448.4	1228.1	1040.8	897.8	745.6	636.2	501.5	93.3	2.8	0.7
75°	488.2	444.7	373.9	329.7	291.1	240.6	214.0	167.0	47.7	1.4	0.0
77.5°	97.5	88.4	79.3	72.3	68.0	58.2	55.4	45.6	19.6	0.7	0.0
80°	51.2	42.0	35.8	31.5	27.3	22.4	19.0	15.4	3.5	0.0	0.0
82.5°	49.1	32.9	23.8	19.6	16.8	13.3	10.5	7.7	2.1	0.0	0.0
85°	18.2	14.0	10.5	8.4	7.0	6.3	4.9	4.2	0.0	0.0	0.0
87.5°	2.8	2.1	2.1	1.4	1.4	0.7	0.7	0.7	0.0	0.0	0.0
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):

	125°	135°	145°	155°	165°	175°	180°
0°	148.0	148.0	148.0	148.0	148.0	148.0	148.0
2.5°	125.6	119.9	117.1	113.6	113.6	112.9	114.3
5°	104.5	96.8	91.2	87.0	87.6	85.6	86.2
7.5°	88.4	80.7	75.7	72.9	72.3	71.5	71.5
10°	76.5	69.4	65.2	63.2	62.4	62.4	62.4
12.5°	68.0	61.0	57.5	56.1	56.1	55.4	55.4
15°	61.0	55.4	51.9	50.5	50.5	49.8	50.5
17.5°	55.4	49.8	47.0	45.6	45.6	44.9	44.9
20°	50.5	45.6	42.8	40.7	40.7	40.0	40.7
22.5°	46.3	41.4	37.9	36.5	35.8	35.1	35.8
25°	42.0	37.2	33.7	31.5	30.9	30.9	30.1
27.5°	38.6	33.7	29.5	27.3	26.7	26.7	26.0
30°	35.1	29.5	25.2	23.2	22.4	22.4	22.4
32.5°	31.5	25.2	21.8	19.6	19.0	19.0	19.0
35°	28.1	21.8	18.2	16.1	15.4	15.4	15.4
37.5°	23.8	18.2	14.0	12.7	11.9	11.3	11.3
40°	20.4	14.0	10.5	9.1	7.7	7.7	7.7
42.5°	16.8	11.3	7.7	5.6	4.9	4.2	4.9
45°	14.0	8.4	4.9	2.8	2.1	2.1	2.1
47.5°	11.3	5.6	2.1	0.7	0.7	0.7	0.7
50°	8.4	3.5	0.7	0.0	0.0	0.7	0.7
52.5°	6.3	2.1	0.0	0.0	0.0	0.0	0.0
55°	3.5	0.7	0.0	0.0	0.0	0.0	0.0
57.5°	2.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)