

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: P180801

Luminaire Tested: **ICM-F05-LED-E1-SL4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180801
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-F05-LED-E1-SL4-HSS-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (35) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6594.1 lumens
Efficiency: N/A
Efficacy: 49.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

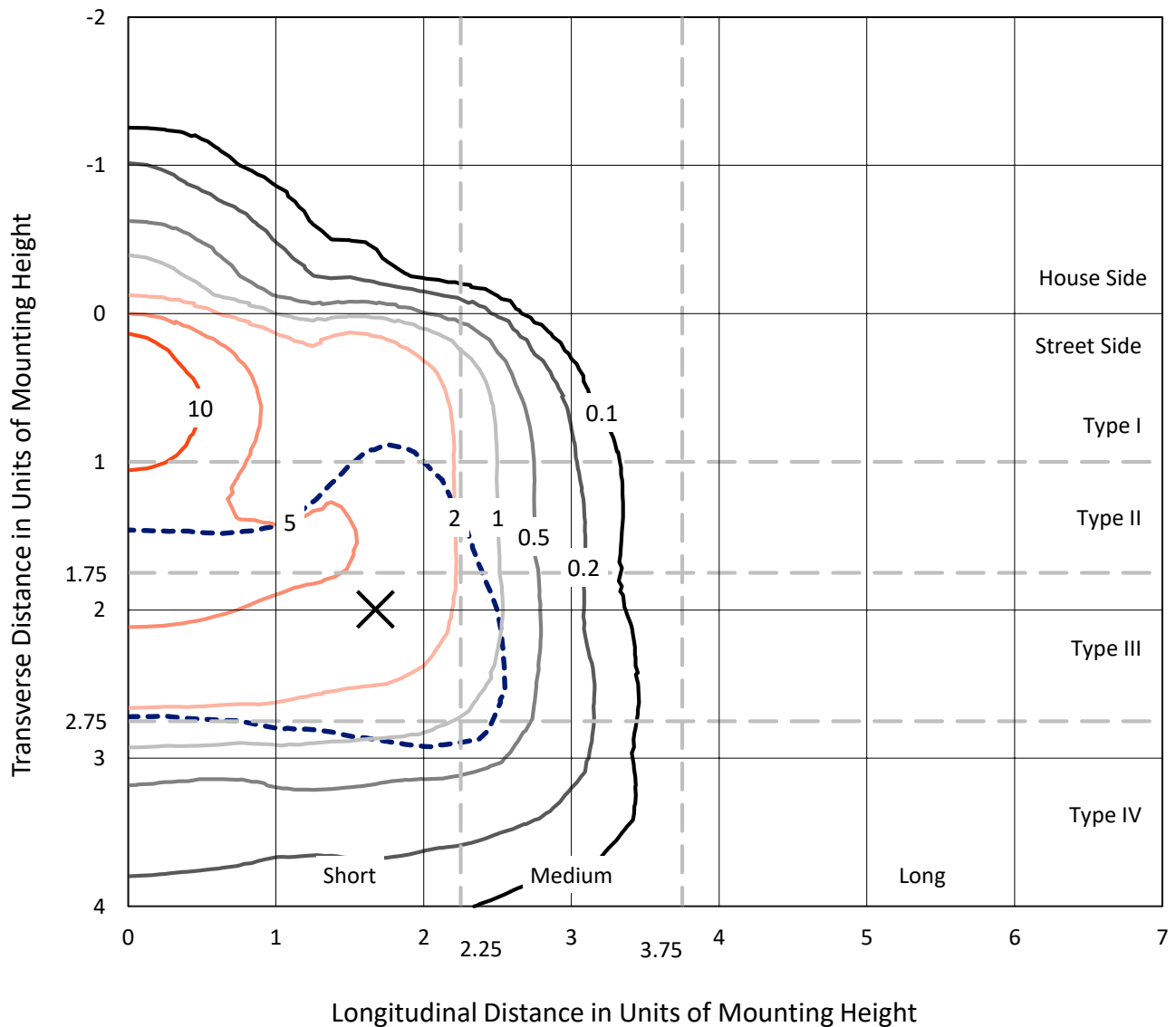
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

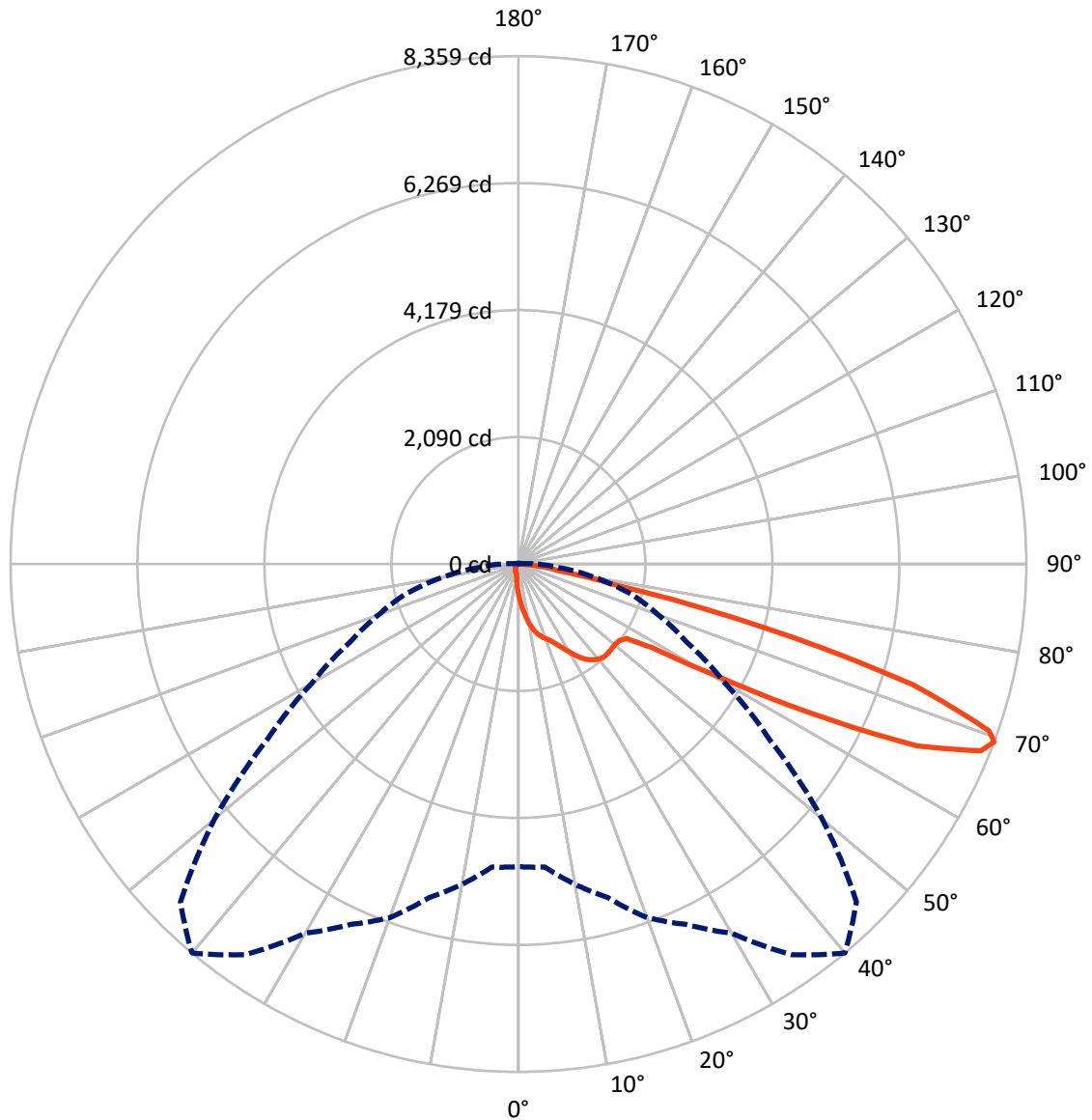
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.8 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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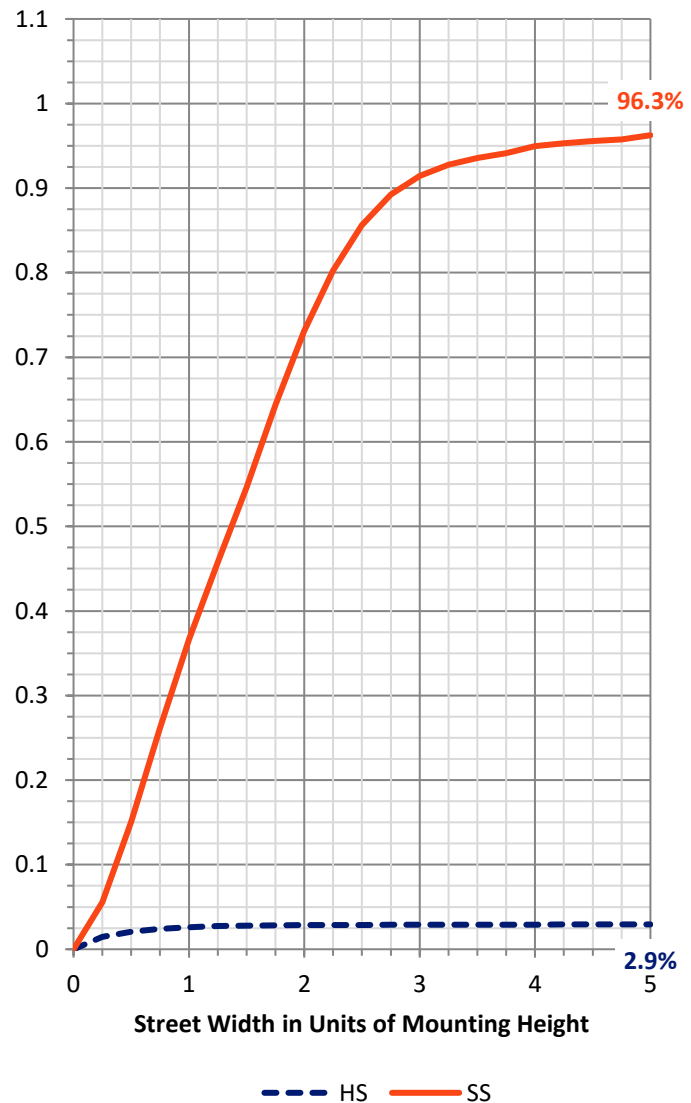
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	196.4	0.0	196.4
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	6397.7	0.0	6397.7
	% Fixture	97.0	0.0	97.0
Total	Lumens	6594.1	0.0	6594.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	0.8
10°-20°	176.5	2.7
20°-30°	337.8	5.1
30°-40°	561.7	8.5
40°-50°	760.1	11.5
50°-60°	1188.7	18.0
60°-70°	2443.9	37.1
70°-80°	983.4	14.9
80°-90°	91.0	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°	6594.1	100.0
0°-180°	6594.1	100.0



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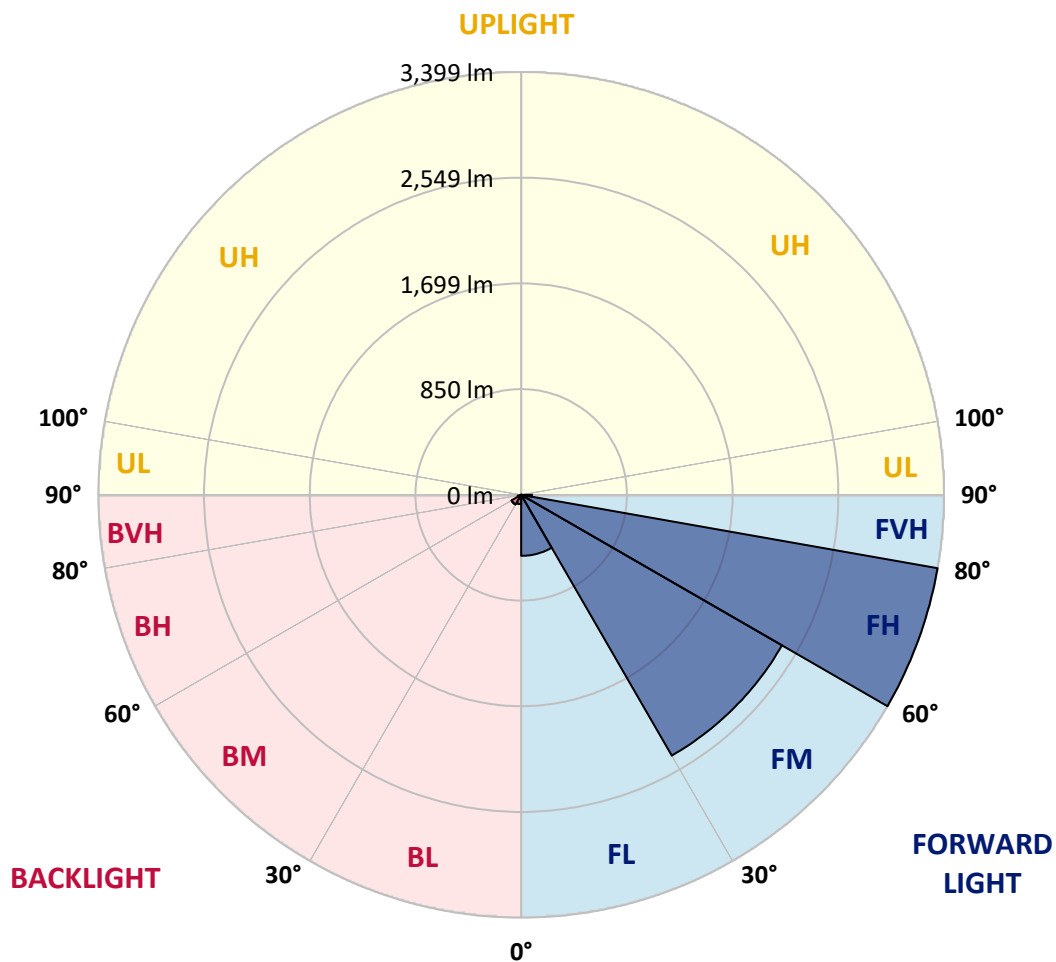
CATALOG NUMBER: ICM-F05-LED-E1-SL4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	490.7	7.4			
FM	(30°-60°)	2420.8	36.7			
FH	(60°-80°)	3398.6	51.5			G2/5000
FVH	(80°-90°)	87.6	1.3			G1/100
BL	(0°-30°)	74.7	1.1	B0/110		
BM	(30°-60°)	89.7	1.4	B0/220		
BH	(60°-80°)	28.6	0.4	B0/110		G0/110
BVH	(80°-90°)	3.4	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°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0
2.5°	664.4	656.7	648.1	648.1	637.3	637.3	630.9	613.6	611.4	601.7	592.0
5°	848.0	841.5	830.7	820.9	812.3	797.2	786.4	765.9	743.2	721.6	702.1
7.5°	1027.3	1024.0	1004.6	1001.4	987.4	962.5	940.8	910.6	871.7	841.5	805.9
10°	1193.7	1186.1	1181.8	1163.4	1142.9	1115.8	1082.3	1045.7	1000.3	952.8	902.0
12.5°	1325.4	1321.1	1301.7	1294.1	1272.5	1245.5	1203.4	1155.8	1110.4	1048.9	989.5
15°	1423.7	1416.2	1403.2	1391.4	1365.4	1341.6	1302.7	1250.9	1195.8	1128.8	1057.5
17.5°	1505.8	1491.8	1488.6	1470.1	1443.2	1415.1	1371.9	1324.4	1259.5	1192.6	1114.8
20°	1616.0	1596.6	1590.1	1563.1	1531.7	1492.8	1443.2	1383.7	1315.7	1242.2	1162.3
22.5°	1745.6	1731.5	1717.5	1693.8	1653.8	1598.7	1526.3	1461.5	1375.1	1294.1	1207.7
25°	1929.2	1917.4	1894.7	1862.3	1812.6	1746.7	1659.2	1564.2	1462.6	1358.9	1257.4
27.5°	2107.5	2096.7	2080.5	2055.6	1999.5	1927.1	1819.1	1698.1	1569.6	1444.3	1331.9
30°	2274.9	2265.2	2249.0	2224.2	2174.4	2103.2	1981.1	1851.5	1691.6	1545.8	1410.8
32.5°	2455.4	2452.1	2433.7	2398.1	2354.9	2258.7	2125.9	1986.5	1824.5	1656.0	1498.2
35°	2659.5	2634.6	2617.4	2581.7	2508.3	2405.7	2250.1	2097.8	1927.1	1754.2	1578.2
37.5°	2832.3	2808.6	2787.0	2741.6	2651.9	2521.2	2345.1	2177.7	2001.7	1825.6	1646.2
40°	2958.7	2946.8	2920.9	2861.5	2761.0	2605.5	2415.4	2232.9	2055.6	1878.5	1701.3
42.5°	3052.7	3034.3	3005.1	2943.6	2824.8	2647.6	2443.5	2255.5	2080.5	1910.9	1737.0
45°	3087.3	3072.1	3045.1	2978.2	2849.6	2659.5	2442.3	2249.0	2081.6	1920.7	1760.8
47.5°	3066.7	3051.6	3027.8	2965.2	2838.8	2645.4	2422.9	2230.6	2070.8	1923.8	1782.3
50°	2998.7	2990.1	2971.6	2918.7	2805.3	2618.4	2405.7	2220.9	2068.6	1940.1	1812.6
52.5°	2992.2	2986.8	2964.1	2911.2	2795.6	2609.8	2403.5	2226.3	2087.0	1960.6	1834.2
55°	3656.5	3579.8	3408.1	3262.3	3022.4	2737.2	2512.6	2313.8	2164.8	2041.6	1953.0
57.5°	5197.0	5082.4	4856.7	4579.0	4028.1	3486.9	3053.8	2740.5	2586.1	2529.9	2563.4
60°	5918.5	5898.0	5862.4	5730.5	5448.6	4983.0	4464.5	3903.9	3679.2	3659.7	3727.8
62.5°	6261.0	6247.9	6258.7	6242.5	6155.1	6019.0	5869.9	5627.9	5405.4	5261.7	4957.1
65°	6418.6	6427.3	6488.9	6537.4	6548.3	6583.9	6693.1	6994.4	7214.7	6844.2	5998.5
67.5°	6017.9	6068.7	6210.2	6387.3	6594.7	6795.7	7119.7	7754.8	8207.5	7772.1	6570.9
69°	4982.0	5006.8	5352.5	5686.3	6192.9	6547.2	7017.1	7849.9	8358.7	7867.2	6525.6
70°	3922.3	3945.0	4315.5	4769.1	5625.8	6081.6	6696.2	7689.0	8217.2	7740.8	6292.2
72.5°	1769.4	1737.0	1867.7	2110.7	3041.9	3765.6	4840.5	6229.6	6779.5	6201.5	4707.6
75°	1235.7	1221.7	1235.7	1236.8	1381.6	1782.3	2249.0	3376.8	4176.1	3603.6	2249.0
77.5°	957.0	947.4	937.6	926.8	944.1	1057.5	1102.9	1198.0	1555.5	1471.3	857.7
80°	757.2	748.6	772.4	764.7	764.7	777.8	769.1	733.5	666.5	617.9	553.0
82.5°	352.2	354.3	354.3	384.6	463.4	541.2	566.0	530.4	471.0	400.7	323.0
85°	33.5	37.8	63.7	98.3	195.5	220.4	221.5	183.6	183.6	144.7	116.7
87.5°	0.0	1.1	1.1	1.1	9.8	27.0	22.7	6.5	3.3	3.3	5.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0
2.5°	574.7	571.4	558.5	545.5	533.6	520.7	508.7	496.9	483.9	474.2	462.3
5°	671.9	648.1	621.1	595.2	569.3	542.2	514.1	489.3	463.4	439.6	416.9
7.5°	770.2	723.7	687.0	640.6	598.4	556.3	517.4	477.5	440.7	406.1	373.8
10°	853.4	797.2	739.9	680.6	620.0	563.9	509.9	462.3	413.7	371.6	331.6
12.5°	921.4	850.1	779.9	705.4	637.3	566.0	499.1	441.8	384.6	337.0	296.0
15°	983.0	900.9	816.7	730.2	643.8	562.8	488.3	416.9	358.6	304.7	258.1
17.5°	1032.7	938.7	843.6	746.4	653.5	558.5	474.2	399.7	331.6	275.4	230.0
20°	1075.9	977.6	875.0	765.9	660.0	557.4	462.3	378.0	307.8	248.5	204.2
22.5°	1115.8	1017.6	907.4	790.7	669.8	556.3	451.5	361.9	287.4	227.9	183.6
25°	1161.2	1057.5	942.0	816.7	687.0	560.7	445.0	348.9	268.9	208.5	167.4
27.5°	1212.0	1102.9	983.0	849.0	709.7	569.3	442.9	334.9	252.7	190.1	154.5
30°	1283.3	1156.9	1024.0	881.5	730.2	579.0	440.7	326.2	236.6	176.1	141.5
32.5°	1346.0	1209.9	1069.4	915.0	752.9	588.7	439.6	314.3	221.5	162.0	131.8
35°	1411.8	1258.4	1108.3	947.4	772.4	599.5	438.6	305.7	207.4	148.0	122.0
37.5°	1469.1	1299.5	1138.5	975.4	794.0	609.2	439.6	298.1	194.4	136.1	113.4
40°	1517.7	1341.6	1172.0	1001.4	816.7	624.4	440.7	290.6	181.5	125.3	105.9
42.5°	1560.9	1381.6	1207.7	1030.5	842.6	641.7	447.2	284.1	170.7	115.6	98.3
45°	1594.4	1418.3	1246.6	1071.5	884.7	669.8	459.1	279.8	159.9	107.0	91.8
47.5°	1628.9	1472.4	1312.5	1136.4	946.2	714.1	479.6	278.7	151.3	100.5	86.4
50°	1676.5	1526.3	1370.8	1202.2	1002.4	759.4	504.5	279.8	140.5	94.0	81.0
52.5°	1711.1	1581.4	1446.4	1316.8	1136.4	897.7	600.6	299.3	135.1	88.6	74.5
55°	1915.3	1892.6	1895.8	1917.4	1778.1	1527.5	1004.6	432.1	158.8	100.5	73.5
57.5°	2700.6	2780.5	2826.9	2825.9	2595.7	2152.9	1349.2	555.3	177.1	116.7	87.5
60°	3733.2	3672.8	3587.4	3376.8	3071.1	2457.5	1509.0	597.4	153.4	92.9	79.9
62.5°	4646.0	4291.7	3977.3	3636.0	3235.3	2563.4	1541.5	594.1	134.0	70.2	56.2
65°	5215.3	4578.0	4070.3	3642.5	3170.4	2474.8	1458.3	545.5	113.4	57.2	46.4
67.5°	5351.4	4423.5	3705.1	3159.6	2648.7	1926.1	1070.5	410.5	88.6	47.5	41.0
69°	5054.4	3932.0	3070.0	2451.0	1927.1	1277.9	662.1	259.3	68.1	43.2	37.8
70°	4649.2	3419.9	2500.7	1967.1	1427.0	897.7	463.4	182.5	55.1	40.0	34.6
72.5°	2991.1	1796.4	1229.3	855.5	588.7	357.6	181.5	82.1	42.1	33.5	28.1
75°	1160.2	664.4	481.8	366.2	286.2	198.8	110.1	52.9	35.6	28.1	21.6
77.5°	571.4	437.5	357.6	245.2	142.6	88.6	59.4	41.0	29.2	20.6	14.0
80°	451.5	300.3	179.3	111.3	84.3	63.7	45.4	33.5	21.6	12.9	9.8
82.5°	231.2	126.4	92.9	75.6	62.7	49.7	36.7	23.7	14.0	8.7	7.5
85°	72.4	52.9	47.5	46.4	43.2	35.6	26.0	15.2	8.7	5.4	5.4
87.5°	5.4	7.5	9.8	7.5	8.7	7.5	9.8	6.5	4.3	4.3	3.3
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°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0
2.5°	453.7	440.7	428.8	421.3	407.3	401.9	396.5	394.2	384.6	386.7	378.0
5°	396.5	373.8	356.5	339.2	323.0	311.1	301.4	289.5	279.8	275.4	266.8
7.5°	344.6	315.4	292.7	274.4	254.9	239.8	226.9	218.2	209.6	200.9	196.6
10°	299.3	267.9	242.0	223.6	205.2	192.3	182.5	176.1	170.7	167.4	166.3
12.5°	257.1	226.9	203.1	186.9	172.8	166.3	162.0	158.8	157.7	156.7	156.7
15°	224.7	194.4	176.1	164.2	157.7	154.5	153.4	151.3	149.0	148.0	148.0
17.5°	194.4	171.7	158.8	152.3	149.0	146.9	144.7	142.6	140.5	139.3	139.3
20°	174.0	155.5	149.0	144.7	141.5	139.3	136.1	134.0	132.8	131.8	130.7
22.5°	157.7	145.9	141.5	138.2	134.0	130.7	128.6	126.4	124.2	123.2	122.0
25°	145.9	138.2	135.1	130.7	126.4	123.2	119.9	116.7	114.5	113.4	111.3
27.5°	137.2	131.8	127.4	122.0	117.8	114.5	111.3	108.0	105.9	103.7	102.6
30°	129.6	124.2	118.8	114.5	109.1	105.9	101.6	98.3	97.2	95.1	92.9
32.5°	122.0	116.7	111.3	105.9	100.5	96.1	94.0	89.7	87.5	86.4	84.3
35°	113.4	108.0	101.6	97.2	91.8	87.5	84.3	81.0	78.9	76.7	75.6
37.5°	105.9	99.3	92.9	87.5	83.2	78.9	75.6	72.4	70.2	68.1	67.0
40°	97.2	90.7	84.3	78.9	74.5	71.3	68.1	64.8	62.7	61.6	61.6
42.5°	89.7	82.1	75.6	71.3	68.1	63.7	60.5	57.2	56.2	55.1	56.2
45°	82.1	74.5	69.1	64.8	61.6	57.2	54.0	51.8	50.8	51.8	52.9
47.5°	75.6	68.1	62.7	59.4	56.2	52.9	49.7	47.5	47.5	49.7	51.8
50°	69.1	61.6	57.2	55.1	51.8	48.7	44.3	43.2	44.3	46.4	48.7
52.5°	62.7	54.0	50.8	49.7	46.4	43.2	40.0	38.9	40.0	42.1	41.0
55°	56.2	47.5	46.4	45.4	42.1	37.8	34.6	34.6	34.6	33.5	31.3
57.5°	54.0	42.1	41.0	40.0	36.7	32.4	30.2	28.1	27.0	23.7	22.7
60°	56.2	37.8	37.8	35.6	32.4	28.1	24.8	21.6	19.4	17.3	17.3
62.5°	45.4	34.6	33.5	31.3	27.0	22.7	19.4	16.2	15.2	14.0	14.0
65°	36.7	31.3	29.2	26.0	22.7	18.3	15.2	12.9	11.9	11.9	12.9
67.5°	33.5	28.1	24.8	21.6	18.3	14.0	11.9	10.8	10.8	11.9	11.9
69°	31.3	26.0	22.7	19.4	16.2	12.9	10.8	10.8	10.8	10.8	11.9
70°	29.2	24.8	21.6	18.3	14.0	10.8	9.8	9.8	10.8	10.8	11.9
72.5°	22.7	19.4	18.3	15.2	10.8	9.8	8.7	9.8	9.8	10.8	10.8
75°	17.3	14.0	14.0	11.9	8.7	7.5	7.5	8.7	8.7	9.8	9.8
77.5°	11.9	9.8	9.8	8.7	7.5	6.5	6.5	7.5	8.7	8.7	9.8
80°	8.7	7.5	6.5	7.5	6.5	5.4	6.5	7.5	7.5	8.7	8.7
82.5°	6.5	6.5	6.5	6.5	5.4	5.4	6.5	6.5	7.5	8.7	8.7
85°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.5	6.5	7.5	7.5
87.5°	3.3	3.3	3.3	4.3	4.3	5.4	5.4	5.4	5.4	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):

	165°	170°	175°	180°
0°	498.0	498.0	498.0	498.0
2.5°	375.9	374.8	370.5	371.6
5°	263.5	257.1	261.4	260.4
7.5°	193.4	192.3	191.2	193.4
10°	165.3	165.3	164.2	165.3
12.5°	155.5	155.5	155.5	155.5
15°	148.0	148.0	146.9	146.9
17.5°	139.3	139.3	139.3	138.2
20°	130.7	129.6	129.6	129.6
22.5°	121.0	119.9	119.9	119.9
25°	111.3	110.1	110.1	110.1
27.5°	101.6	100.5	99.3	99.3
30°	91.8	90.7	89.7	89.7
32.5°	82.1	81.0	79.9	79.9
35°	73.5	73.5	72.4	71.3
37.5°	65.9	65.9	65.9	65.9
40°	60.5	61.6	61.6	61.6
42.5°	57.2	58.3	59.4	60.5
45°	55.1	57.2	58.3	58.3
47.5°	54.0	55.1	56.2	56.2
50°	49.7	48.7	48.7	48.7
52.5°	40.0	37.8	36.7	35.6
55°	29.2	28.1	26.0	26.0
57.5°	20.6	20.6	19.4	19.4
60°	16.2	16.2	15.2	16.2
62.5°	14.0	14.0	14.0	14.0
65°	12.9	12.9	12.9	12.9
67.5°	12.9	12.9	12.9	12.9
69°	11.9	11.9	11.9	11.9
70°	11.9	11.9	11.9	11.9
72.5°	10.8	10.8	10.8	10.8
75°	9.8	10.8	10.8	10.8
77.5°	9.8	9.8	9.8	9.8
80°	8.7	8.7	9.8	9.8
82.5°	8.7	8.7	8.7	8.7
85°	7.5	7.5	8.7	8.7
87.5°	6.5	6.5	7.5	7.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)