

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: P180406

Luminaire Tested: **ICM-E06-LED-E1-SL2-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180406
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-E06-LED-E1-SL2-HSS-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (126) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8637.4 lumens
Efficiency: N/A
Efficacy: 57.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

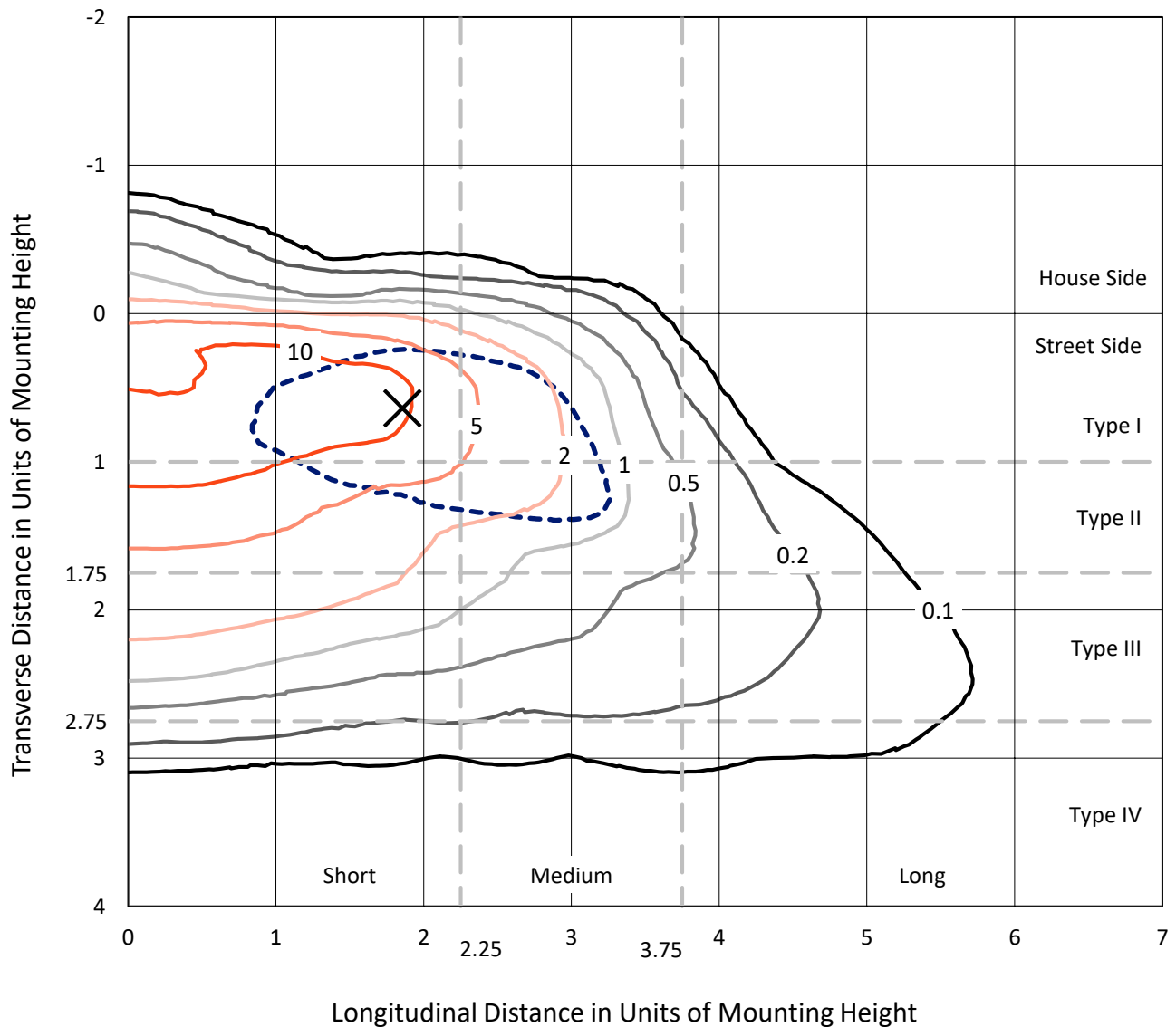
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

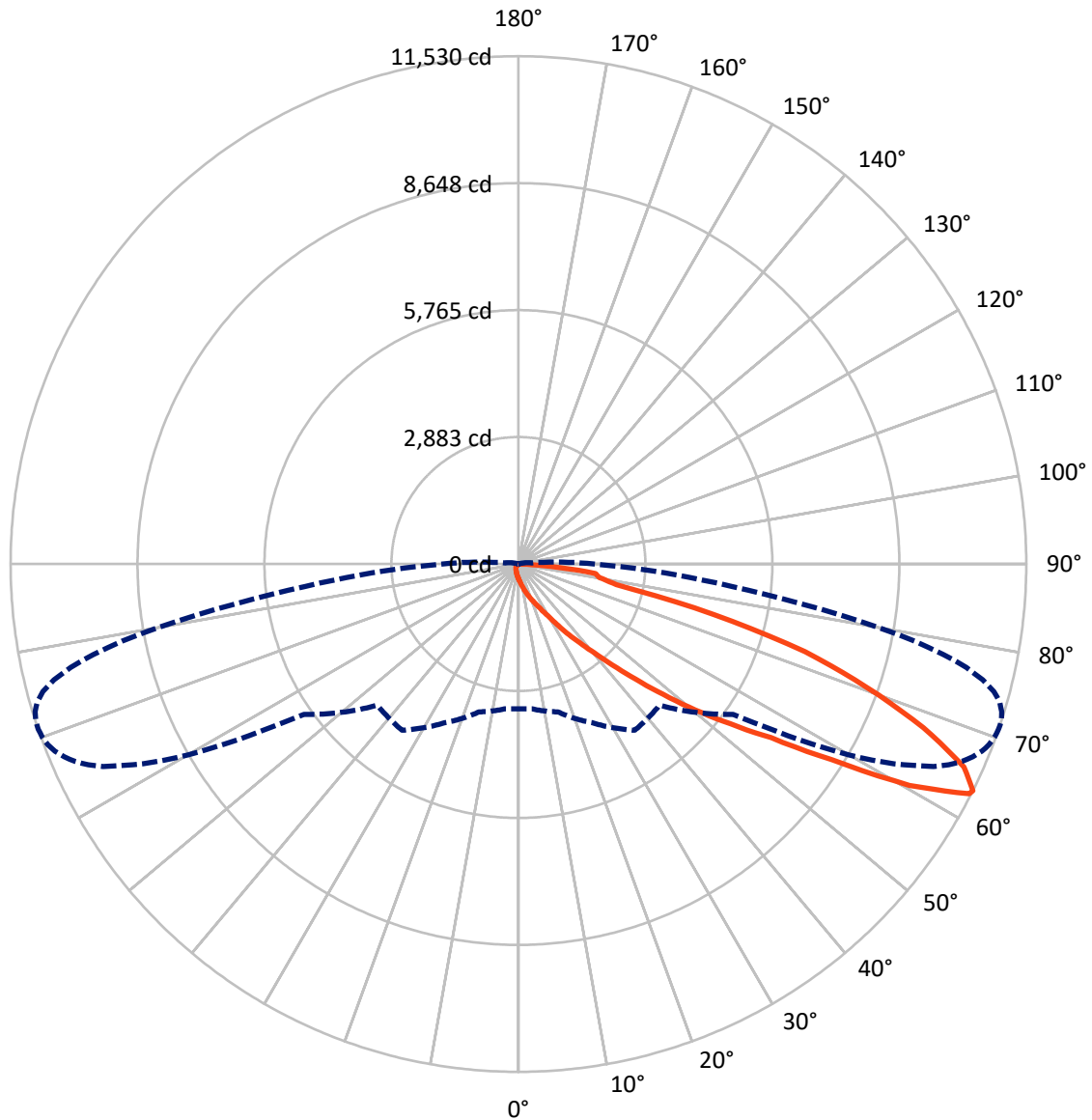
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.2 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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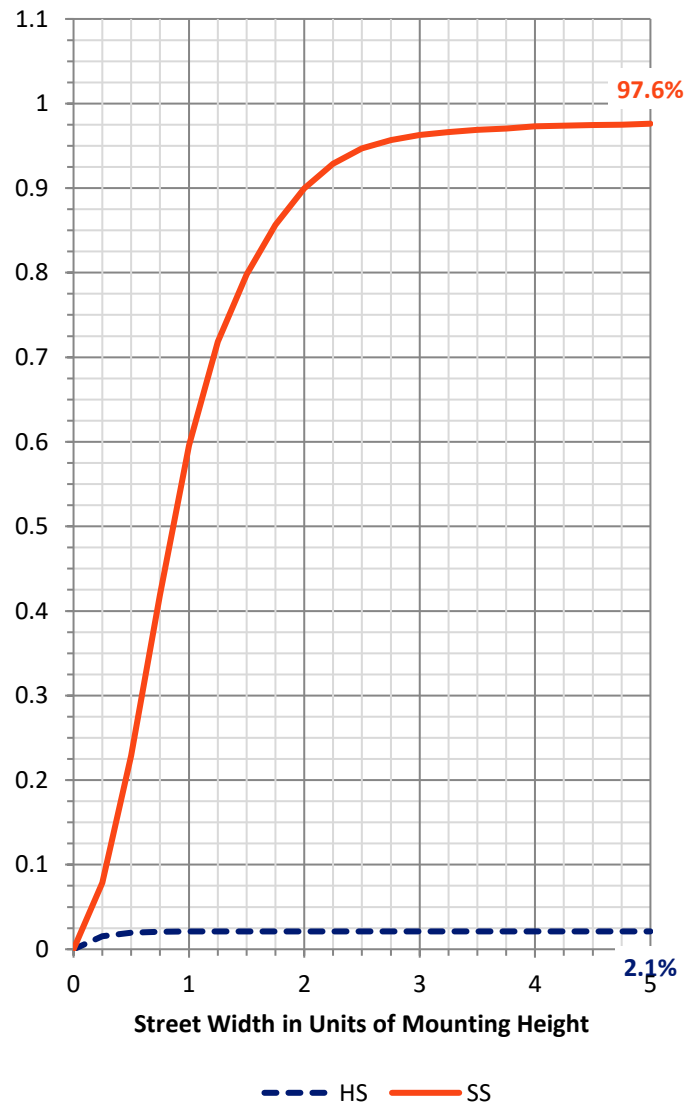
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	183.4	0.0	183.4
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	8454.0	0.0	8454.0
	% Fixture	97.9	0.0	97.9
Total	Lumens	8637.4	0.0	8637.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.6	0.4
10°-20°	142.0	1.6
20°-30°	288.5	3.3
30°-40°	704.8	8.2
40°-50°	1576.2	18.2
50°-60°	2216.3	25.7
60°-70°	2606.2	30.2
70°-80°	941.1	10.9
80°-90°	125.8	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°	8637.4	100.0
0°-180°	8637.4	100.0



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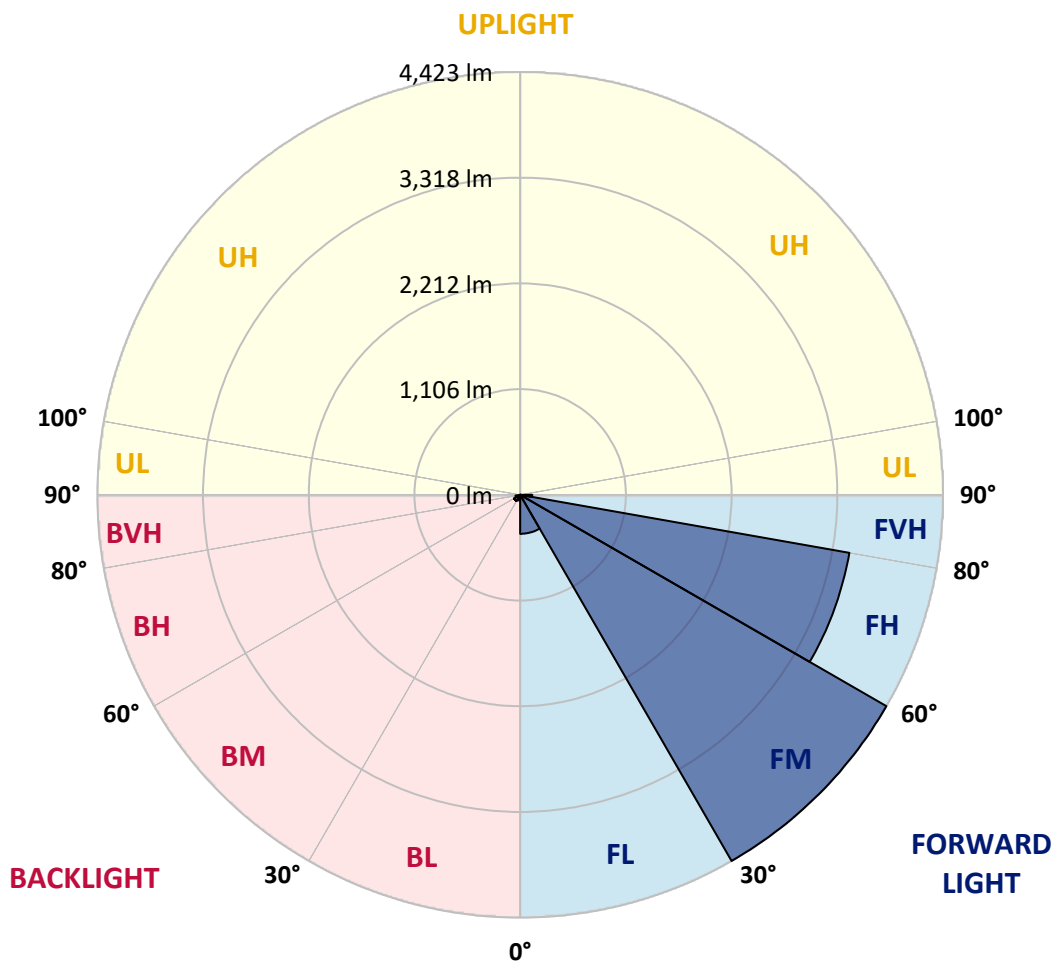
CATALOG NUMBER: ICM-E06-LED-E1-SL2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	408.1	4.7			
FM (30°-60°)	4423.3	51.2			
FH (60°-80°)	3496.9	40.5			G2/5000
FVH (80°-90°)	125.6	1.5			G2/225
BL (0°-30°)	59.0	0.7	B0/110		
BM (30°-60°)	73.9	0.9	B0/220		
BH (60°-80°)	50.3	0.6	B0/110		G0/110
BVH (80°-90°)	0.3	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4
2.5°	433.4	438.0	435.0	427.1	417.7	405.1	394.1	394.1	392.6	387.8	389.4
5°	568.4	570.0	563.7	544.8	527.6	500.9	471.1	467.9	464.7	460.1	458.5
7.5°	700.3	706.6	700.3	679.9	645.4	604.6	557.4	552.7	543.3	543.3	537.0
10°	835.4	835.4	829.1	805.5	774.1	716.0	656.4	648.5	637.5	634.3	624.9
12.5°	931.2	931.2	928.0	915.4	890.3	838.5	766.2	758.4	744.3	739.5	728.6
15°	968.8	968.8	970.4	981.4	983.0	959.4	884.0	877.8	863.6	851.1	846.3
17.5°	992.4	990.8	990.8	1006.5	1034.8	1050.5	1001.8	995.5	979.8	973.5	957.9
20°	1044.2	1041.0	1031.6	1031.6	1058.3	1113.3	1113.3	1111.7	1094.4	1089.8	1081.9
22.5°	1121.1	1118.0	1089.8	1066.1	1078.7	1147.8	1212.2	1209.0	1202.8	1196.5	1191.8
25°	1246.8	1235.7	1187.1	1118.0	1107.0	1180.8	1287.5	1295.4	1300.1	1300.1	1303.3
27.5°	1436.8	1422.6	1336.3	1207.5	1158.8	1234.2	1370.8	1386.5	1400.7	1403.8	1417.9
30°	1700.6	1675.5	1551.4	1363.0	1251.4	1312.8	1493.3	1510.5	1531.0	1537.2	1559.3
32.5°	2134.0	2119.8	2000.5	1717.9	1479.2	1466.6	1664.5	1686.4	1713.1	1724.1	1750.8
35°	2793.4	2796.6	2699.2	2444.9	2115.1	1942.3	1970.6	1989.5	1998.9	2031.8	2046.0
37.5°	3241.0	3248.8	3270.8	3170.3	2934.7	2758.9	2537.5	2557.9	2509.2	2514.0	2515.5
40°	3485.9	3511.0	3639.7	3737.1	3718.3	3616.2	3438.8	3449.8	3358.7	3338.3	3239.4
42.5°	3649.2	3682.2	3887.8	4189.3	4343.3	4435.8	4395.1	4390.4	4319.7	4293.0	4209.8
45°	3751.3	3781.1	4040.2	4484.6	4839.5	5109.5	5221.0	5233.5	5173.9	5147.2	5078.1
47.5°	3746.5	3781.1	4059.0	4594.4	5117.3	5549.2	5863.2	5878.9	5915.0	5891.5	5896.2
50°	3539.3	3572.3	3851.7	4407.7	5035.8	5750.2	6324.9	6375.1	6433.2	6472.5	6491.3
52.5°	3288.0	3311.6	3559.7	4087.3	4687.1	5666.9	6598.1	6684.4	6770.8	6844.6	6896.4
55°	3195.4	3222.1	3416.8	3854.9	4407.7	5318.4	6725.3	6852.5	6974.9	7095.9	7194.7
57.5°	3244.1	3269.2	3409.0	3745.0	4241.1	4950.9	6761.3	6959.2	7160.2	7356.5	7551.2
60°	3423.1	3449.8	3569.1	3847.1	4197.2	4738.9	6620.0	6948.2	7282.7	7625.0	7946.9
62.5°	3352.4	3363.5	3539.3	4026.1	4511.3	4558.4	6106.6	6565.2	7075.4	7603.0	8122.7
63°	3285.0	3297.5	3476.5	3977.4	4607.0	4531.7	5948.0	6431.7	6970.3	7538.7	8104.0
65°	2978.7	2980.3	3116.9	3512.6	4500.3	4578.8	5241.4	5703.1	6321.7	7003.2	7717.6
67.5°	2223.5	2212.5	2344.4	2645.8	3533.0	4580.3	4498.7	4757.8	5188.0	5792.6	6433.2
70°	788.3	771.0	984.6	1402.2	2201.5	3746.5	3865.9	3883.2	4002.5	4329.1	4731.1
72.5°	255.9	260.7	314.0	513.5	1014.3	2521.8	3500.0	3446.6	3415.3	3413.7	3467.1
75°	102.0	103.6	125.6	227.7	455.4	1215.4	3065.0	3094.9	3105.9	3121.6	3138.9
77.5°	48.7	53.4	70.7	127.2	226.1	601.4	2193.6	2446.4	2590.9	2702.3	2769.9
80°	17.3	20.4	39.3	78.5	105.2	276.4	1155.7	1394.3	1606.3	1879.5	2115.1
82.5°	0.0	0.0	7.8	55.0	58.1	111.4	474.2	555.8	635.9	824.4	1058.3
85°	0.0	0.0	0.0	15.7	17.3	18.9	160.2	193.1	216.7	252.8	292.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.7	9.4	23.5	36.1
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°	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4
2.5°	386.2	384.7	384.7	381.6	380.0	376.8	375.3	370.6	369.0	369.0	369.0
5°	456.9	450.7	447.5	439.6	435.0	433.4	425.5	422.4	417.7	419.3	411.4
7.5°	535.4	524.5	519.7	508.7	505.6	494.6	491.4	483.6	478.9	469.5	466.3
10°	621.8	607.6	599.8	582.5	577.9	570.0	560.6	551.2	543.3	533.9	529.1
12.5°	720.7	708.2	701.9	678.3	667.4	656.4	643.8	631.3	618.7	610.8	599.8
15°	836.9	816.6	810.2	788.3	769.4	755.3	738.1	722.3	712.8	697.2	686.1
17.5°	951.5	931.2	926.4	893.5	873.0	863.6	844.7	824.4	807.1	791.4	774.1
20°	1066.1	1052.0	1039.4	1008.1	986.1	970.4	945.3	924.8	910.7	888.7	866.8
22.5°	1180.8	1166.7	1157.2	1124.3	1103.9	1081.9	1059.9	1038.0	1017.5	990.8	965.7
25°	1298.6	1289.1	1284.5	1254.6	1235.7	1215.4	1193.4	1168.3	1143.2	1113.3	1086.6
27.5°	1421.0	1424.2	1414.8	1408.5	1388.1	1374.0	1339.4	1322.1	1303.3	1267.2	1234.2
30°	1576.5	1586.0	1582.8	1587.5	1574.9	1565.5	1538.8	1516.8	1494.9	1460.3	1422.6
32.5°	1772.8	1785.3	1791.6	1808.9	1802.6	1799.5	1791.6	1760.2	1744.5	1684.8	1669.1
35°	2075.8	2069.6	2096.3	2110.3	2104.1	2100.9	2091.5	2074.2	2055.5	2013.0	1973.8
37.5°	2470.0	2476.2	2485.7	2457.4	2438.5	2436.9	2408.8	2391.5	2364.8	2317.7	2270.5
40°	3192.3	3153.0	3109.0	2989.7	2937.9	2908.0	2824.9	2801.3	2755.7	2691.4	2642.7
42.5°	4131.3	4092.0	3960.1	3760.7	3653.9	3506.3	3438.8	3355.6	3291.2	3186.0	3129.4
45°	5063.9	4950.9	4935.2	4702.8	4570.9	4376.2	4255.3	4115.6	3969.5	3831.4	3730.8
47.5°	5850.6	5825.5	5748.6	5607.3	5484.8	5321.5	5166.1	4950.9	4800.2	4603.9	4423.3
50°	6480.3	6478.7	6450.5	6368.9	6266.7	6134.8	5998.3	5816.1	5645.0	5404.7	5211.6
52.5°	6951.4	6976.5	6985.9	6960.8	6921.5	6805.3	6736.2	6583.9	6439.5	6235.4	6026.5
55°	7296.9	7389.4	7436.6	7490.0	7479.0	7438.2	7435.0	7336.1	7270.2	7108.4	6960.8
57.5°	7724.0	7876.2	8022.3	8281.4	8290.7	8381.8	8429.0	8476.1	8488.6	8424.2	8375.6
60°	8267.2	8578.1	8854.5	9396.2	9537.5	9760.5	9905.0	10062.0	10195.5	10206.5	10203.3
62.5°	8650.4	9129.3	9575.2	10379.2	10654.0	10911.5	11104.6	11256.9	11349.6	11443.8	11487.8
63°	8661.4	9185.8	9660.1	10489.1	10778.0	11023.0	11206.7	11348.0	11445.4	11501.9	11530.2
65°	8396.0	9032.0	9597.2	10423.1	10694.8	10941.4	11037.1	11129.7	11176.9	11198.9	11115.6
67.5°	7116.2	7738.1	8397.5	9320.9	9553.3	9848.4	9926.9	9974.1	9996.1	9991.3	9920.7
70°	5321.5	5842.8	6576.1	7631.3	7939.0	8228.0	8407.0	8484.0	8509.1	8501.2	8396.0
72.5°	3715.2	4021.3	4625.9	5800.4	6219.7	6590.3	6811.7	6926.3	6949.8	6902.7	6805.3
75°	3120.0	3135.7	3272.4	3914.5	4307.1	4702.8	4952.5	5024.7	4977.6	4834.7	4586.6
77.5°	2785.6	2820.1	2820.1	2915.9	2992.9	3102.8	3126.3	2950.4	2746.3	2482.5	2268.9
80°	2336.5	2457.4	2542.2	2612.9	2620.7	2598.7	2540.7	2441.7	2284.7	2083.7	1860.8
82.5°	1419.5	1658.1	1755.5	2119.8	2298.8	2419.7	2410.3	2278.4	2159.1	1950.2	1760.2
85°	358.0	386.2	419.3	544.8	610.8	745.9	830.6	869.9	884.0	811.8	734.9
87.5°	34.5	23.5	39.3	29.9	42.4	31.4	42.4	39.3	48.7	51.8	56.6
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4
2.5°	365.9	364.3	362.7	361.1	359.5	358.0	354.9	354.9	351.7	350.1	348.6
5°	406.7	403.5	402.0	398.8	394.1	391.0	386.2	380.0	375.3	373.7	370.6
7.5°	458.5	450.7	447.5	442.8	436.6	427.1	420.8	416.1	408.3	403.5	394.1
10°	516.6	508.7	499.4	490.0	480.5	469.5	461.7	455.4	442.8	436.6	425.5
12.5°	590.4	576.3	565.3	552.7	540.2	527.6	518.1	499.4	488.4	474.2	464.7
15°	665.8	653.2	640.7	624.9	606.1	585.7	576.3	559.0	544.8	522.9	510.3
17.5°	756.8	733.3	714.4	695.6	678.3	659.5	640.7	614.0	593.6	574.7	549.6
20°	846.3	818.1	797.7	772.6	747.4	717.6	695.6	676.7	648.5	623.4	596.7
22.5°	942.1	913.9	880.9	855.8	821.2	797.7	767.8	736.5	708.2	675.2	642.2
25°	1058.3	1028.5	990.8	957.9	918.6	885.6	849.5	813.4	778.8	741.1	698.8
27.5°	1201.2	1169.8	1129.0	1089.8	1038.0	997.1	962.5	913.9	869.9	822.8	774.1
30°	1381.8	1347.3	1297.0	1240.5	1188.7	1143.2	1094.4	1030.1	981.4	924.8	862.1
32.5°	1617.3	1576.5	1509.0	1455.6	1391.3	1331.5	1264.0	1199.6	1130.5	1056.8	984.6
35°	1914.1	1876.4	1797.9	1719.4	1648.8	1578.1	1493.3	1419.5	1322.1	1232.7	1140.0
37.5°	2221.9	2154.3	2082.2	1997.3	1909.4	1824.6	1720.9	1618.9	1507.5	1410.1	1293.9
40°	2573.6	2491.9	2432.3	2341.2	2217.1	2096.3	2000.5	1873.3	1733.5	1603.2	1466.6
42.5°	3055.6	2964.6	2857.8	2719.6	2630.2	2488.9	2364.8	2214.1	2030.3	1884.3	1719.4
45°	3613.0	3489.0	3385.4	3251.9	3143.6	2967.7	2823.3	2622.2	2438.5	2247.0	2046.0
47.5°	4249.0	4095.2	3944.4	3812.5	3639.7	3467.1	3283.4	3069.8	2834.2	2623.8	2385.1
50°	4979.2	4761.0	4552.1	4382.5	4145.4	3946.0	3746.5	3506.3	3245.7	3003.8	2732.2
52.5°	5791.0	5538.2	5261.8	5001.1	4726.4	4470.4	4230.2	3953.8	3663.4	3368.1	3065.0
55°	6770.8	6580.8	6255.8	5924.5	5557.1	5214.7	4905.4	4563.1	4209.8	3821.9	3503.2
57.5°	8304.9	8212.2	7940.6	7609.3	7130.4	6714.3	6189.8	5770.5	5258.7	4724.8	4313.4
60°	10383.9	10269.3	10117.0	9848.4	9468.4	8903.2	8325.4	7673.7	6894.8	6155.3	5453.4
62.5°	11492.4	11451.7	11327.6	11142.3	10787.4	10341.5	9758.9	9042.9	8163.6	7265.4	6370.4
63°	11525.5	11473.7	11366.9	11178.4	10865.9	10434.1	9862.6	9166.9	8306.5	7391.0	6477.2
65°	11079.5	11059.1	10950.8	10745.1	10531.5	10201.7	9758.9	9160.7	8438.4	7573.2	6664.0
67.5°	9826.5	9765.3	9598.8	9536.0	9386.8	9157.5	8820.0	8408.5	7892.0	7212.0	6426.9
70°	8311.2	8220.1	8011.3	7899.8	7717.6	7573.2	7367.5	7073.9	6755.1	6280.9	5695.2
72.5°	6704.9	6516.4	6324.9	6034.4	5780.0	5522.5	5294.8	5087.6	4737.3	4545.8	4101.4
75°	4354.3	4011.9	3683.7	3244.1	2848.4	2498.2	2157.5	1984.8	1625.2	1479.2	1270.3
77.5°	2066.4	1874.9	1617.3	1417.9	1163.5	950.0	775.7	582.5	456.9	358.0	273.2
80°	1667.5	1505.9	1350.4	1169.8	978.2	780.4	598.2	447.5	317.2	219.8	155.4
82.5°	1487.0	1311.2	1119.5	995.5	865.2	708.2	581.0	474.2	350.1	255.9	174.3
85°	577.9	486.8	375.3	306.2	238.7	196.3	177.4	122.5	95.8	75.3	58.1
87.5°	50.2	40.8	32.9	22.0	23.5	12.6	14.1	9.4	7.8	7.8	6.3
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4
2.5°	347.0	345.5	343.9	340.7	340.7	337.6	336.0	334.4	326.6	309.3	295.2
5°	364.3	361.1	358.0	353.3	350.1	345.5	342.3	337.6	320.3	287.4	259.1
7.5°	389.4	383.2	378.4	369.0	364.3	358.0	353.3	345.5	317.2	267.0	227.7
10°	419.3	408.3	400.4	389.4	380.0	372.2	364.3	353.3	314.0	244.9	199.4
12.5°	455.4	442.8	427.1	414.5	402.0	391.0	380.0	365.9	309.3	226.1	177.4
15°	491.4	472.7	461.7	444.4	427.1	411.4	395.7	383.2	310.9	205.7	158.6
17.5°	532.3	513.5	490.0	471.1	452.2	431.8	412.9	387.8	303.1	190.0	144.5
20°	571.5	544.8	522.9	499.4	472.7	447.5	424.0	402.0	296.7	174.3	131.9
22.5°	614.0	582.5	554.3	524.5	491.4	463.3	435.0	406.7	285.8	160.2	120.9
25°	665.8	629.7	588.8	552.7	518.1	483.6	447.5	412.9	274.8	147.6	113.0
27.5°	728.6	681.5	640.7	595.1	546.4	502.5	463.3	425.5	263.8	138.1	105.2
30°	808.7	753.7	695.6	637.5	585.7	535.4	480.5	433.4	252.8	128.7	97.4
32.5°	915.4	846.3	775.7	708.2	639.1	574.7	516.6	455.4	246.5	120.9	89.5
35°	1056.8	967.3	880.9	796.1	712.8	634.3	559.0	490.0	246.5	111.4	80.1
37.5°	1190.2	1086.6	976.7	871.4	772.6	681.5	592.0	508.7	234.0	103.6	72.2
40°	1334.7	1210.6	1081.9	957.9	838.5	725.4	623.4	527.6	223.0	94.2	64.4
42.5°	1556.1	1399.1	1231.1	1086.6	943.7	803.9	676.7	563.7	208.8	84.8	56.6
45°	1846.6	1647.2	1449.3	1273.5	1091.3	920.2	769.4	629.7	205.7	76.9	48.7
47.5°	2157.5	1922.0	1689.6	1465.0	1251.4	1052.0	871.4	703.4	205.7	69.1	42.4
50°	2466.8	2171.6	1923.5	1662.9	1422.6	1187.1	972.0	780.4	207.3	62.8	34.5
52.5°	2746.3	2430.7	2152.8	1851.3	1586.0	1312.8	1078.7	855.8	204.1	55.0	28.3
55°	3134.2	2763.6	2441.7	2108.9	1797.9	1490.1	1224.8	968.8	205.7	48.7	23.5
57.5°	3848.6	3413.7	3025.8	2589.3	2231.3	1834.1	1512.1	1201.2	224.6	40.8	17.3
60°	4874.0	4308.7	3763.8	3231.6	2776.2	2303.5	1885.9	1520.0	263.8	32.9	12.6
62.5°	5563.3	4823.8	4173.7	3586.4	3057.2	2562.6	2107.3	1691.2	290.5	26.7	7.8
63°	5634.0	4869.2	4216.0	3610.0	3069.8	2575.2	2116.7	1703.7	292.1	25.1	7.8
65°	5767.5	4947.8	4239.7	3614.6	3057.2	2557.9	2110.3	1702.1	295.2	20.4	6.3
67.5°	5615.1	4826.9	4103.0	3479.6	2947.3	2455.8	2031.8	1639.4	293.7	14.1	4.7
70°	5021.6	4368.4	3732.4	3151.5	2667.8	2223.5	1849.7	1494.9	270.0	9.4	3.2
72.5°	3686.9	3242.5	2749.5	2330.2	2009.9	1669.1	1424.2	1122.7	208.8	6.3	1.6
75°	1092.8	995.5	836.9	738.1	651.6	538.6	478.9	373.7	106.8	3.2	0.0
77.5°	218.2	197.9	177.4	161.8	152.3	130.3	124.1	102.0	44.0	1.6	0.0
80°	114.6	94.2	80.1	70.7	61.2	50.2	42.4	34.5	7.8	0.0	0.0
82.5°	110.0	73.8	53.4	44.0	37.7	29.9	23.5	17.3	4.7	0.0	0.0
85°	40.8	31.4	23.5	18.9	15.7	14.1	11.0	9.4	0.0	0.0	0.0
87.5°	6.3	4.7	4.7	3.2	3.2	1.6	1.6	1.6	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°	331.4	331.4	331.4	331.4	331.4	331.4	331.4
2.5°	281.0	268.5	262.2	254.4	254.4	252.8	255.9
5°	234.0	216.7	204.1	194.7	196.3	191.5	193.1
7.5°	197.9	180.6	169.6	163.3	161.8	160.2	160.2
10°	171.2	155.4	146.0	141.3	139.7	139.7	139.7
12.5°	152.3	136.7	128.7	125.6	125.6	124.1	124.1
15°	136.7	124.1	116.2	113.0	113.0	111.4	113.0
17.5°	124.1	111.4	105.2	102.0	102.0	100.5	100.5
20°	113.0	102.0	95.8	91.1	91.1	89.5	91.1
22.5°	103.6	92.7	84.8	81.7	80.1	78.5	80.1
25°	94.2	83.3	75.3	70.7	69.1	69.1	67.5
27.5°	86.3	75.3	66.0	61.2	59.6	59.6	58.1
30°	78.5	66.0	56.6	51.8	50.2	50.2	50.2
32.5°	70.7	56.6	48.7	44.0	42.4	42.4	42.4
35°	62.8	48.7	40.8	36.1	34.5	34.5	34.5
37.5°	53.4	40.8	31.4	28.3	26.7	25.1	25.1
40°	45.6	31.4	23.5	20.4	17.3	17.3	17.3
42.5°	37.7	25.1	17.3	12.6	11.0	9.4	11.0
45°	31.4	18.9	11.0	6.3	4.7	4.7	4.7
47.5°	25.1	12.6	4.7	1.6	1.6	1.6	1.6
50°	18.9	7.8	1.6	0.0	0.0	1.6	1.6
52.5°	14.1	4.7	0.0	0.0	0.0	0.0	0.0
55°	7.8	1.6	0.0	0.0	0.0	0.0	0.0
57.5°	4.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	3.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.6	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)