

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: P181176

Luminaire Tested: **ICM-E04-LED-E1-T2-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181176
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33723)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E04-LED-E1-T2-HSS-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ HOUSE SIDE SHIELD
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5028.8 lumens
Efficiency: N/A
Efficacy: 51.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

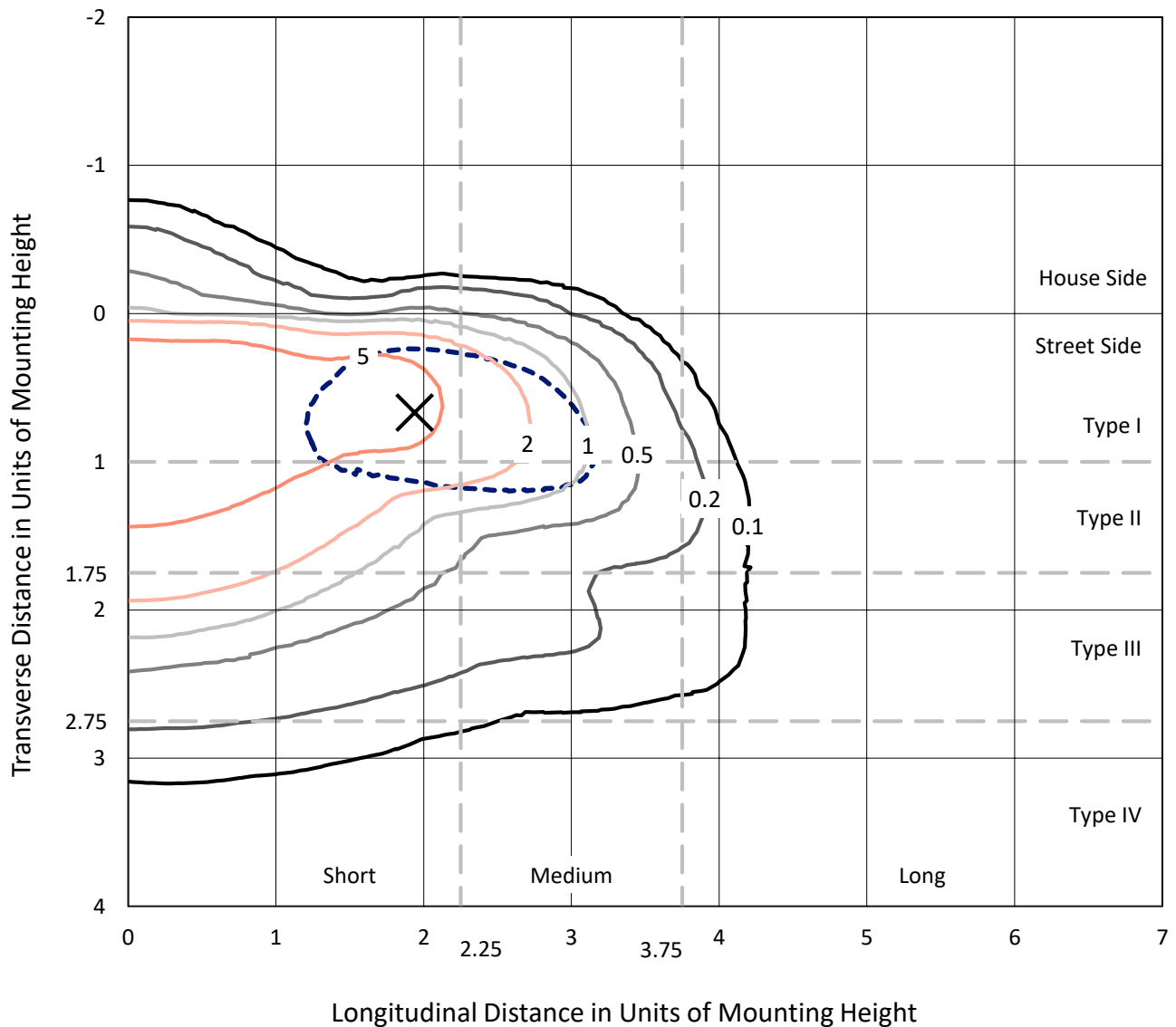
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

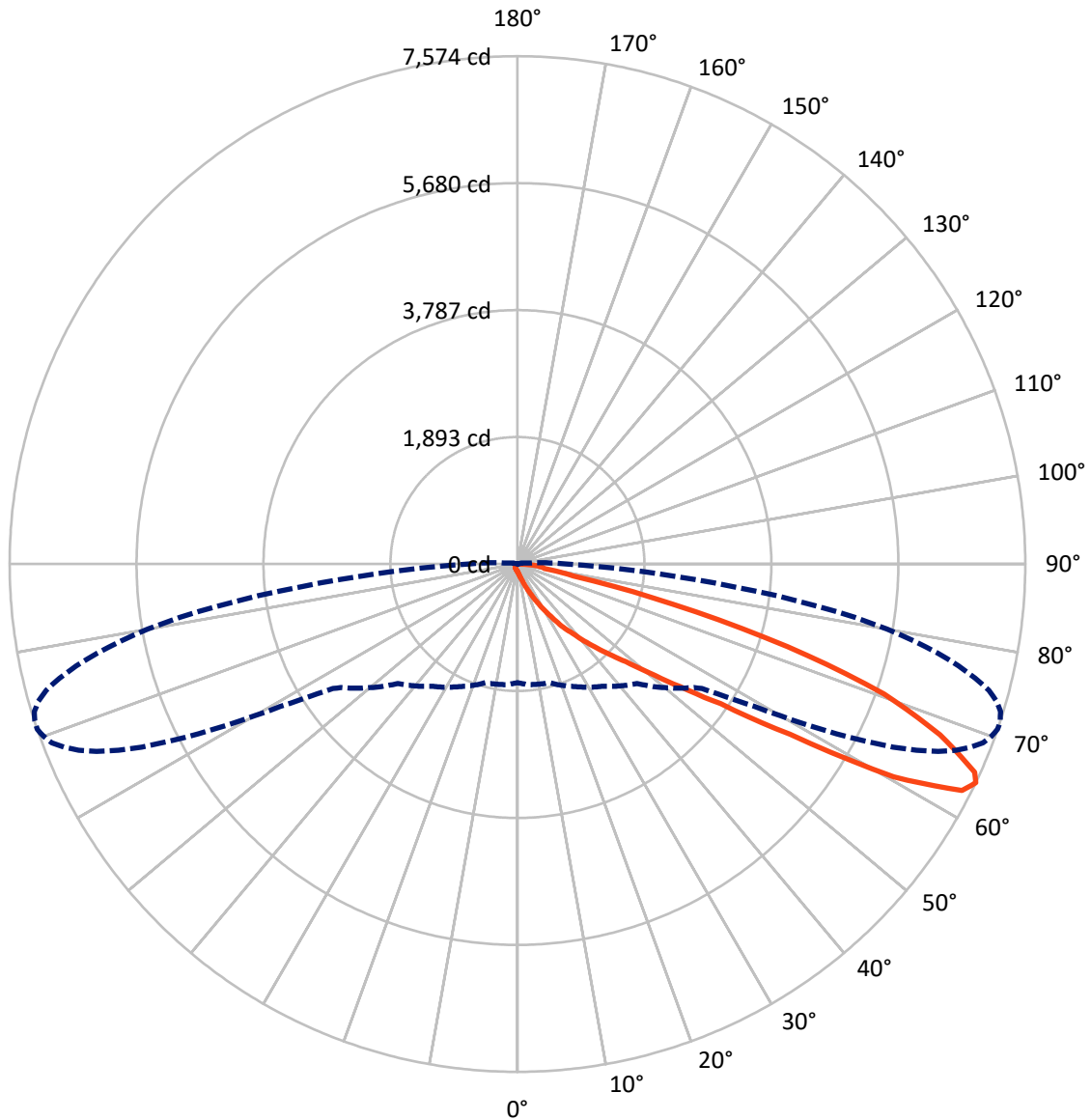
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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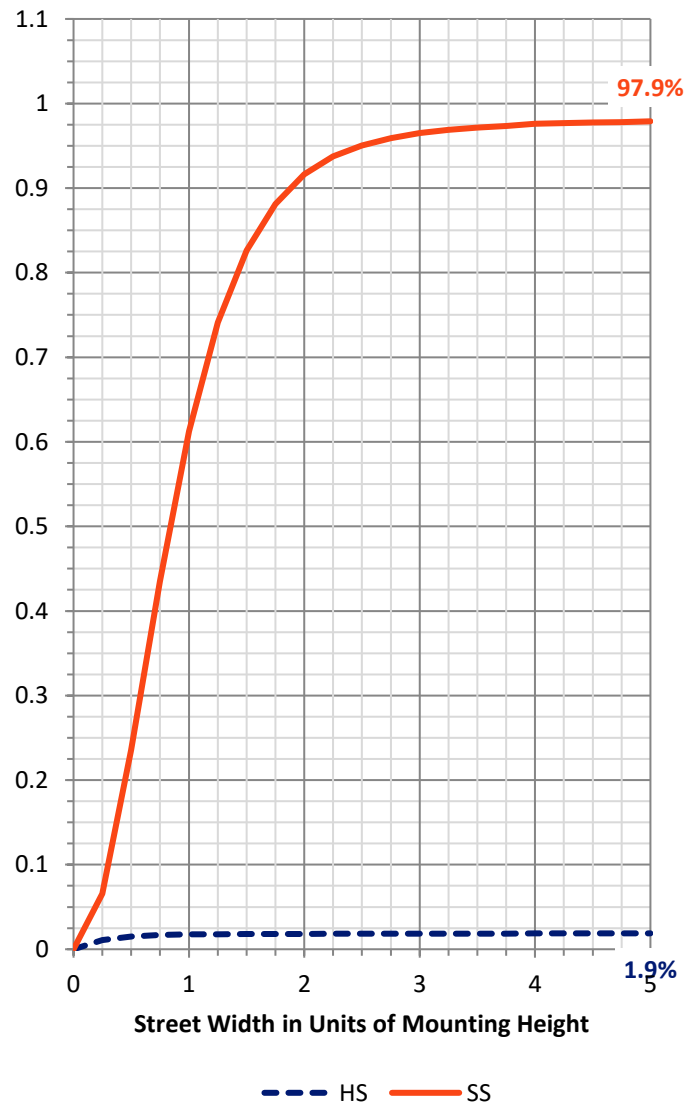
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	96.3	0.0	96.3
	% Fixture	1.9	0.0	1.9
Street Side	Lumens	4932.5	0.0	4932.5
	% Fixture	98.1	0.0	98.1
Total	Lumens	5028.8	0.0	5028.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.4	0.3
10°-20°	90.9	1.8
20°-30°	232.2	4.6
30°-40°	469.7	9.3
40°-50°	858.7	17.1
50°-60°	1337.8	26.6
60°-70°	1487.0	29.6
70°-80°	484.9	9.6
80°-90°	52.2	1.0
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°	5028.8	100.0
0°-180°	5028.8	100.0



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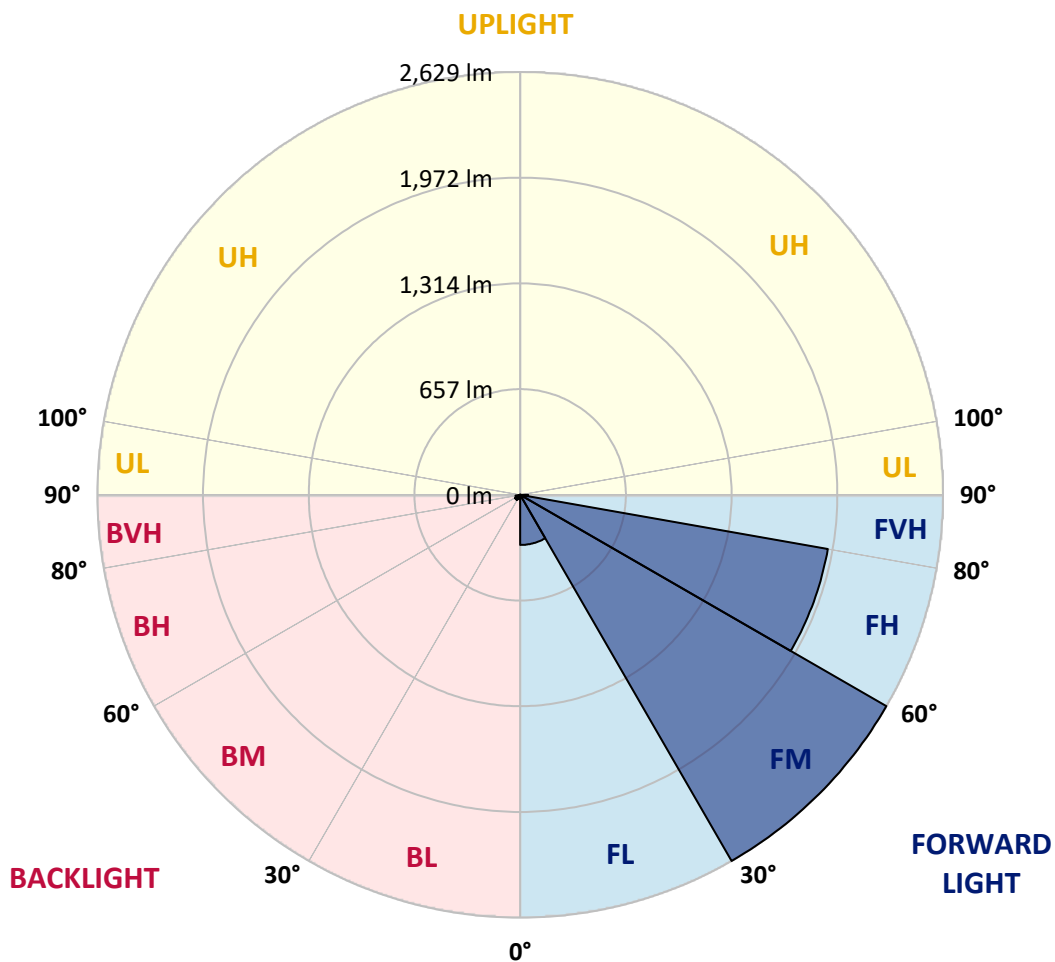
CATALOG NUMBER: ICM-E04-LED-E1-T2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	311.8	6.2			
FM (30°-60°)	2628.9	52.3			
FH (60°-80°)	1942.2	38.6			G2/5000
FVH (80°-90°)	49.7	1.0			G1/100
BL (0°-30°)	26.8	0.5	B0/110		
BM (30°-60°)	37.2	0.7	B0/220		
BH (60°-80°)	29.7	0.6	B0/110		G0/110
BVH (80°-90°)	2.5	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0
2.5°	150.7	148.7	148.7	145.5	141.3	137.1	132.9	131.9	130.9	129.8	129.8
5°	236.6	228.2	225.0	213.6	198.9	181.1	165.4	161.2	161.2	158.0	156.0
7.5°	371.6	367.4	345.5	334.0	299.4	256.5	211.4	207.3	206.2	202.0	195.7
10°	544.4	536.0	520.3	486.8	424.0	349.7	285.8	275.4	268.0	259.6	251.3
12.5°	717.0	706.6	683.5	629.1	566.3	471.1	368.5	359.1	347.5	336.0	322.4
15°	889.8	882.4	846.9	792.5	710.8	596.7	466.9	450.1	440.7	417.7	407.2
17.5°	1039.4	1030.1	1001.8	940.0	855.3	729.6	575.7	554.8	539.1	525.5	500.4
20°	1169.3	1159.9	1132.7	1081.4	986.1	862.6	693.0	682.5	654.2	633.3	618.7
22.5°	1248.8	1245.7	1227.9	1178.7	1094.0	984.0	827.0	810.2	791.4	763.2	746.4
25°	1298.1	1294.9	1284.5	1249.9	1192.3	1111.7	974.6	953.7	936.9	911.8	890.8
27.5°	1349.3	1347.3	1338.9	1308.6	1278.1	1227.9	1124.3	1112.8	1076.1	1061.5	1041.6
30°	1434.1	1424.8	1432.0	1417.4	1378.6	1347.3	1275.0	1258.2	1242.6	1217.4	1199.6
32.5°	1569.2	1553.5	1569.2	1553.5	1536.8	1499.1	1430.0	1424.8	1409.0	1393.3	1368.2
35°	1734.6	1728.3	1740.8	1754.4	1740.8	1690.6	1606.9	1591.2	1584.8	1559.7	1550.3
37.5°	1901.0	1912.6	1935.5	1966.0	1957.6	1920.9	1802.6	1787.9	1776.5	1754.4	1737.7
40°	2080.0	2081.0	2130.2	2174.2	2196.2	2174.2	2018.2	2006.7	1991.1	1959.6	1955.5
42.5°	2274.7	2266.3	2303.0	2352.2	2397.2	2427.5	2303.0	2281.0	2259.0	2223.5	2199.4
45°	2447.5	2447.5	2476.8	2522.8	2591.9	2668.3	2603.5	2580.4	2559.5	2530.2	2502.9
47.5°	2575.2	2576.2	2594.0	2661.0	2768.9	2882.9	2885.0	2889.2	2873.5	2839.0	2840.0
50°	2665.2	2653.7	2677.8	2742.6	2867.3	3046.3	3175.0	3182.3	3194.9	3166.6	3175.0
52.5°	2731.2	2725.9	2741.6	2796.0	2920.6	3139.4	3412.6	3444.0	3462.9	3467.1	3501.6
55°	2696.6	2699.7	2737.4	2815.9	2950.0	3201.1	3614.6	3666.0	3709.9	3747.7	3790.5
57.5°	2582.5	2591.9	2657.9	2780.4	2956.2	3251.4	3829.2	3907.7	3990.4	4091.0	4175.7
60°	2400.4	2422.3	2511.3	2683.0	2895.5	3185.5	3893.1	4013.5	4140.1	4293.0	4463.7
62.5°	2133.4	2137.6	2196.2	2362.7	2597.1	2834.8	3600.0	3753.9	3921.4	4142.3	4381.0
64°	1768.1	1805.8	1832.9	2016.2	2225.5	2521.8	3212.7	3319.5	3552.9	3824.0	4124.5
65°	1459.3	1504.3	1526.2	1709.4	1949.1	2231.8	2875.6	2989.7	3235.7	3511.0	3885.8
67.5°	860.5	830.1	894.0	1001.8	1202.8	1537.8	1939.7	2026.6	2209.9	2537.5	2836.9
70°	554.8	554.8	613.4	723.4	909.7	1166.1	1332.6	1295.9	1334.7	1461.3	1672.8
72.5°	355.9	374.8	410.3	503.5	676.3	977.8	1361.9	1189.2	1099.2	1057.3	1055.2
75°	162.2	172.7	211.4	267.0	361.1	637.5	1373.4	1298.1	1215.4	1135.8	1074.1
77.5°	34.5	39.8	67.0	138.1	175.9	294.1	974.6	1087.6	1177.7	1203.8	1203.8
80°	17.8	18.9	28.3	64.9	75.3	99.4	375.8	494.1	609.2	761.0	920.2
82.5°	7.3	8.4	16.7	29.3	31.4	30.3	99.4	125.6	172.7	251.3	374.8
85°	2.1	2.1	7.3	11.5	16.7	13.6	22.0	25.1	32.5	47.1	90.0
87.5°	0.0	0.0	1.0	2.1	3.2	5.2	6.3	6.3	6.3	6.3	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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CATALOG NUMBER: ICM-E04-LED-E1-T2-HSS-8030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0
2.5°	128.7	128.7	127.7	126.7	126.7	124.6	124.6	123.5	123.5	122.5	122.5
5°	154.9	152.8	150.7	147.6	146.5	144.5	142.3	140.3	138.1	137.1	135.1
7.5°	192.7	190.5	184.3	180.1	174.8	171.7	167.5	164.4	161.2	159.1	154.9
10°	242.9	235.5	232.4	217.8	214.6	207.3	201.0	196.8	188.5	183.2	178.0
12.5°	314.0	300.5	295.2	270.0	262.8	252.3	244.9	234.5	225.0	218.8	209.4
15°	394.6	384.2	364.3	339.2	325.6	314.0	296.3	287.9	275.4	261.7	248.1
17.5°	491.0	472.1	450.1	417.7	400.9	383.2	366.4	348.6	327.6	315.1	300.5
20°	603.0	583.1	555.8	515.1	495.2	477.3	448.0	435.4	410.3	385.2	366.4
22.5°	725.4	705.6	679.4	633.3	607.2	577.9	553.8	531.8	502.5	477.3	455.4
25°	863.6	840.6	820.7	767.4	734.9	704.5	678.3	639.6	614.5	585.2	554.8
27.5°	1020.7	993.4	967.3	908.7	878.2	844.7	813.4	772.6	748.5	700.3	672.1
30°	1181.9	1148.4	1121.1	1061.5	1034.2	999.7	956.8	920.2	879.4	846.9	800.8
32.5°	1351.5	1324.2	1302.2	1239.4	1204.8	1162.0	1123.3	1084.5	1048.9	996.6	954.7
35°	1532.6	1508.5	1484.4	1430.0	1399.6	1367.2	1323.2	1276.1	1226.9	1172.5	1134.7
37.5°	1723.1	1704.2	1685.4	1619.5	1583.8	1549.3	1499.1	1451.9	1408.0	1350.4	1286.5
40°	1923.0	1905.2	1874.9	1820.4	1782.7	1751.4	1705.2	1661.3	1601.6	1537.8	1481.2
42.5°	2174.2	2135.5	2109.3	2049.7	2009.9	1975.4	1934.5	1868.6	1818.3	1741.9	1687.5
45°	2468.4	2431.7	2388.9	2328.1	2278.9	2222.4	2164.9	2119.8	2057.0	1987.9	1917.8
47.5°	2799.2	2769.9	2719.6	2659.9	2610.8	2554.2	2486.2	2428.6	2352.2	2271.5	2176.3
50°	3163.5	3133.1	3099.6	3032.7	2983.5	2930.1	2876.7	2808.6	2739.6	2643.2	2544.9
52.5°	3501.6	3507.9	3488.0	3456.6	3432.5	3377.0	3327.8	3262.9	3202.3	3114.3	3037.9
55°	3835.6	3890.0	3910.9	3941.2	3951.7	3906.7	3905.7	3810.4	3773.8	3722.4	3678.5
57.5°	4276.2	4396.6	4491.9	4676.1	4753.6	4832.1	4846.7	4779.8	4848.9	4759.8	4790.3
60°	4651.0	4871.8	5108.5	5584.8	5823.5	6003.5	6147.9	6254.7	6323.9	6441.1	6447.4
62.5°	4684.5	5032.0	5392.1	6087.2	6413.8	6687.1	6947.8	7129.9	7274.4	7407.3	7439.8
64°	4524.3	4954.5	5392.1	6232.8	6566.6	6870.3	7107.9	7289.0	7436.6	7519.3	7573.7
65°	4233.3	4714.8	5218.4	6136.4	6480.9	6803.3	7030.5	7212.6	7351.8	7434.5	7491.0
67.5°	3136.3	3602.1	4107.7	5176.5	5718.7	6014.0	6305.0	6560.4	6672.4	6777.1	6797.0
70°	1911.5	2249.6	2598.2	3589.5	4093.0	4623.7	4951.5	5325.1	5586.8	5748.0	5801.4
72.5°	1153.6	1270.8	1479.2	2012.0	2494.5	2867.3	3320.5	3677.5	3970.5	4132.9	4214.4
75°	1026.9	1012.3	1039.4	1261.4	1433.1	1657.1	1821.5	2045.5	2226.6	2283.1	2388.9
77.5°	1187.1	1145.2	1102.3	1060.5	1052.0	1031.1	997.6	1006.0	926.4	850.1	852.1
80°	1057.3	1157.8	1217.4	1173.5	1074.1	973.5	850.1	696.1	544.4	450.1	410.3
82.5°	530.7	754.8	970.4	1183.9	1169.3	1080.3	944.2	775.7	600.8	461.7	368.5
85°	163.3	290.0	408.3	567.4	658.4	645.9	567.4	551.6	393.6	306.7	236.6
87.5°	7.3	7.3	7.3	6.3	7.3	7.3	7.3	8.4	8.4	9.4	9.4
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0
2.5°	122.5	121.4	120.4	119.3	119.3	119.3	118.3	118.3	117.2	117.2	116.2
5°	135.1	132.9	131.9	129.8	129.8	127.7	126.7	125.6	123.5	122.5	121.4
7.5°	151.8	149.7	146.5	143.4	142.3	139.3	136.1	134.0	131.9	129.8	127.7
10°	173.8	169.6	163.3	159.1	156.0	151.8	147.6	144.5	140.3	136.1	134.0
12.5°	202.0	193.7	187.3	180.1	173.8	167.5	160.2	156.0	151.8	145.5	141.3
15°	234.5	226.1	218.8	206.2	195.7	187.3	181.1	171.7	164.4	156.0	149.7
17.5°	290.0	268.0	253.3	240.7	230.3	214.6	202.0	191.5	182.1	171.7	164.4
20°	344.4	325.6	305.7	291.0	268.0	254.4	237.6	223.0	206.2	193.7	181.1
22.5°	424.0	399.9	374.8	352.7	321.4	302.5	280.6	261.7	240.7	219.8	206.2
25°	524.5	488.8	455.4	424.0	394.6	366.4	338.1	307.7	285.8	260.7	237.6
27.5°	630.1	590.4	558.0	517.1	479.4	444.9	409.3	376.8	339.2	306.7	279.5
30°	763.2	708.7	671.0	621.8	584.1	536.0	492.0	449.1	403.0	365.3	326.6
32.5°	898.1	861.5	797.7	755.8	699.3	641.7	595.6	546.4	490.0	440.7	393.6
35°	1076.1	1013.3	959.9	901.3	839.5	779.9	720.2	650.1	592.5	531.8	474.2
37.5°	1233.1	1169.3	1107.5	1031.1	960.9	898.1	826.0	752.7	684.7	612.4	543.3
40°	1415.3	1335.7	1262.4	1191.3	1104.4	1030.1	954.7	863.6	785.1	705.6	623.9
42.5°	1614.1	1533.6	1446.7	1365.0	1269.8	1178.7	1085.6	994.5	906.5	810.2	715.0
45°	1831.9	1747.2	1649.8	1556.7	1452.9	1352.5	1241.5	1136.8	1033.2	925.4	815.4
47.5°	2102.0	1993.1	1903.1	1786.9	1658.1	1552.5	1416.4	1297.0	1178.7	1053.1	929.6
50°	2451.6	2328.1	2198.3	2069.6	1927.2	1793.2	1642.4	1501.1	1343.1	1202.8	1061.5
52.5°	2915.4	2823.3	2672.5	2524.9	2351.2	2180.5	1973.2	1790.1	1587.0	1408.0	1235.3
55°	3573.8	3513.1	3382.3	3221.0	3069.2	2820.1	2581.4	2296.8	2032.9	1775.4	1532.6
57.5°	4766.2	4700.2	4554.7	4515.9	4282.5	4099.4	3819.8	3451.4	3004.4	2610.8	2218.2
60°	6482.9	6354.2	6211.9	6185.6	5911.4	5718.7	5441.3	5048.8	4627.9	3999.9	3465.0
62.5°	7441.8	7403.1	7288.0	7146.6	6909.0	6623.2	6311.3	5931.3	5504.1	4953.5	4317.0
64°	7570.6	7535.0	7435.6	7276.4	7037.7	6754.1	6408.6	6029.7	5601.5	5099.0	4518.1
65°	7490.0	7439.8	7354.9	7208.4	6986.5	6714.3	6366.7	5982.5	5548.1	5064.5	4524.3
67.5°	6839.9	6816.9	6739.4	6603.3	6464.1	6219.1	5913.4	5570.1	5215.3	4735.8	4293.0
70°	5807.8	5791.0	5692.6	5638.2	5407.8	5253.0	5005.9	4735.8	4421.8	4087.8	3711.0
72.5°	4305.5	4249.0	4169.5	4086.8	3930.8	3718.3	3525.7	3237.8	3075.6	2794.0	2581.4
75°	2283.1	2247.5	2124.0	1951.3	1758.6	1659.2	1459.3	1280.3	1137.9	1074.1	920.2
77.5°	789.3	719.2	650.1	572.7	454.3	358.0	285.8	228.2	180.1	159.1	132.9
80°	393.6	373.7	351.7	307.7	258.6	208.3	163.3	128.7	105.8	90.0	80.6
82.5°	319.3	282.6	252.3	220.8	176.9	145.5	115.2	94.2	77.5	68.0	59.6
85°	188.5	144.5	110.0	99.4	77.5	67.0	57.6	49.2	41.9	39.8	36.7
87.5°	7.3	9.4	9.4	7.3	9.4	8.4	8.4	7.3	7.3	7.3	7.3
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°	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0
2.5°	116.2	115.2	115.2	114.1	113.0	113.0	113.0	112.0	110.0	105.8	102.6
5°	120.4	119.3	118.3	116.2	115.2	114.1	113.0	113.0	107.8	100.5	95.3
7.5°	125.6	123.5	121.4	119.3	118.3	116.2	114.1	113.0	105.8	96.3	91.1
10°	130.9	127.7	124.6	123.5	120.4	118.3	115.2	113.0	104.7	93.2	85.9
12.5°	137.1	132.9	128.7	125.6	121.4	119.3	116.2	113.0	102.6	90.0	81.7
15°	144.5	138.1	132.9	129.8	125.6	120.4	116.2	113.0	100.5	86.9	77.5
17.5°	153.9	146.5	140.3	134.0	127.7	122.5	118.3	114.1	97.4	82.7	72.2
20°	168.6	159.1	148.7	141.3	132.9	126.7	119.3	114.1	95.3	78.5	68.0
22.5°	188.5	173.8	162.2	149.7	139.3	130.9	122.5	116.2	92.1	74.3	62.8
25°	216.7	197.9	179.0	163.3	149.7	138.1	127.7	119.3	90.0	71.2	59.6
27.5°	248.1	226.1	201.0	182.1	163.3	146.5	135.1	124.6	90.0	69.1	56.6
30°	292.1	260.7	230.3	206.2	181.1	162.2	145.5	131.9	90.0	68.0	53.4
32.5°	345.5	309.9	271.2	236.6	207.3	180.1	159.1	141.3	92.1	66.0	51.3
35°	419.8	367.4	321.4	278.4	239.7	208.3	181.1	157.0	95.3	64.9	48.2
37.5°	478.4	415.6	356.9	307.7	262.8	224.0	189.5	163.3	92.1	60.7	45.0
40°	548.6	477.3	406.1	344.4	293.1	242.9	203.1	171.7	90.0	55.4	40.8
42.5°	633.3	544.4	461.7	391.5	327.6	268.0	220.8	182.1	90.0	52.4	37.7
45°	712.8	615.5	523.4	435.4	361.1	295.2	237.6	193.7	89.0	49.2	33.5
47.5°	811.3	696.1	588.3	486.8	400.9	320.3	255.4	204.1	87.9	46.0	30.3
50°	927.4	787.2	665.8	544.4	439.6	350.7	276.4	215.6	85.9	42.9	27.3
52.5°	1056.2	905.5	750.6	610.3	487.8	383.2	296.3	226.1	82.7	39.8	24.1
55°	1284.5	1077.2	894.0	720.2	561.1	431.3	325.6	241.8	79.5	36.7	20.9
57.5°	1831.9	1488.6	1228.9	967.3	739.1	553.8	405.1	286.8	75.3	32.5	16.7
60°	2876.7	2310.3	1869.6	1466.6	1118.0	850.1	596.7	424.0	80.6	27.3	14.7
62.5°	3690.1	3038.9	2477.8	1972.2	1531.5	1164.1	868.8	633.3	116.2	24.1	11.5
64°	3902.5	3243.0	2644.3	2114.5	1656.1	1277.1	969.3	716.0	149.7	24.1	10.5
65°	3934.0	3305.9	2703.9	2166.9	1699.0	1307.4	998.7	743.3	163.3	25.1	9.4
67.5°	3804.1	3269.2	2721.7	2188.9	1731.5	1349.3	1038.4	786.1	184.3	24.1	7.3
70°	3322.6	2928.9	2478.9	2047.5	1633.0	1282.3	998.7	762.1	192.7	23.1	6.3
72.5°	2261.1	1990.0	1724.1	1418.4	1136.8	936.9	728.6	537.0	135.1	18.9	5.2
75°	753.7	734.9	657.4	498.3	418.7	340.2	272.2	209.4	51.3	11.5	5.2
77.5°	125.6	107.8	94.2	90.0	75.3	73.3	63.8	51.3	22.0	7.3	5.2
80°	73.3	67.0	58.6	52.4	46.0	40.8	34.5	29.3	13.6	5.2	6.3
82.5°	54.4	48.2	42.9	37.7	32.5	28.3	24.1	19.9	7.3	5.2	6.3
85°	31.4	27.3	24.1	20.9	16.7	14.7	12.6	10.5	5.2	5.2	5.2
87.5°	6.3	6.3	5.2	5.2	5.2	5.2	5.2	4.2	5.2	5.2	4.2
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):

	125°	135°	145°	155°	165°	175°	180°
0°	112.0	112.0	112.0	112.0	112.0	112.0	112.0
2.5°	100.5	97.4	96.3	96.3	96.3	96.3	96.3
5°	92.1	89.0	86.9	85.9	85.9	85.9	85.9
7.5°	85.9	81.7	79.5	77.5	77.5	76.4	76.4
10°	79.5	75.3	72.2	70.1	69.1	69.1	69.1
12.5°	74.3	70.1	66.0	63.8	63.8	62.8	62.8
15°	70.1	63.8	60.7	58.6	58.6	57.6	57.6
17.5°	64.9	59.6	56.6	54.4	53.4	53.4	53.4
20°	59.6	54.4	51.3	50.2	49.2	49.2	48.2
22.5°	55.4	50.2	47.1	46.0	45.0	45.0	44.0
25°	51.3	46.0	42.9	41.9	40.8	39.8	39.8
27.5°	48.2	42.9	39.8	37.7	36.7	35.6	35.6
30°	45.0	38.7	35.6	33.5	32.5	31.4	31.4
32.5°	41.9	35.6	31.4	29.3	28.3	27.3	27.3
35°	37.7	31.4	27.3	26.1	25.1	24.1	23.1
37.5°	34.5	27.3	24.1	22.0	20.9	19.9	19.9
40°	30.3	24.1	20.9	18.9	16.7	15.7	15.7
42.5°	27.3	20.9	17.8	14.7	13.6	12.6	12.6
45°	24.1	18.9	14.7	11.5	10.5	9.4	9.4
47.5°	20.9	15.7	11.5	9.4	8.4	7.3	7.3
50°	17.8	12.6	8.4	6.3	7.3	6.3	6.3
52.5°	15.7	9.4	6.3	6.3	6.3	6.3	6.3
55°	12.6	7.3	5.2	5.2	6.3	6.3	6.3
57.5°	10.5	5.2	4.2	5.2	5.2	5.2	5.2
60°	7.3	4.2	4.2	5.2	5.2	5.2	5.2
62.5°	6.3	4.2	4.2	4.2	5.2	5.2	5.2
64°	5.2	4.2	4.2	4.2	5.2	5.2	5.2
65°	5.2	4.2	4.2	4.2	5.2	5.2	5.2
67.5°	5.2	4.2	4.2	4.2	5.2	5.2	5.2
70°	4.2	4.2	4.2	4.2	5.2	5.2	5.2
72.5°	4.2	4.2	4.2	4.2	5.2	5.2	5.2
75°	4.2	4.2	4.2	4.2	5.2	5.2	5.2
77.5°	4.2	4.2	4.2	5.2	5.2	5.2	5.2
80°	4.2	4.2	4.2	5.2	5.2	5.2	5.2
82.5°	4.2	4.2	4.2	5.2	5.2	5.2	5.2
85°	4.2	4.2	4.2	5.2	5.2	5.2	5.2
87.5°	4.2	4.2	4.2	5.2	5.2	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)