

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: P181217

Luminaire Tested: **ICS-E03-LED-E1-T2-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181217
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: ICS-E03-LED-E1-T2-HSS-8030
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ HOUSE SIDE SHIELD
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3649.2 lumens
Efficiency: N/A
Efficacy: 48.5 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

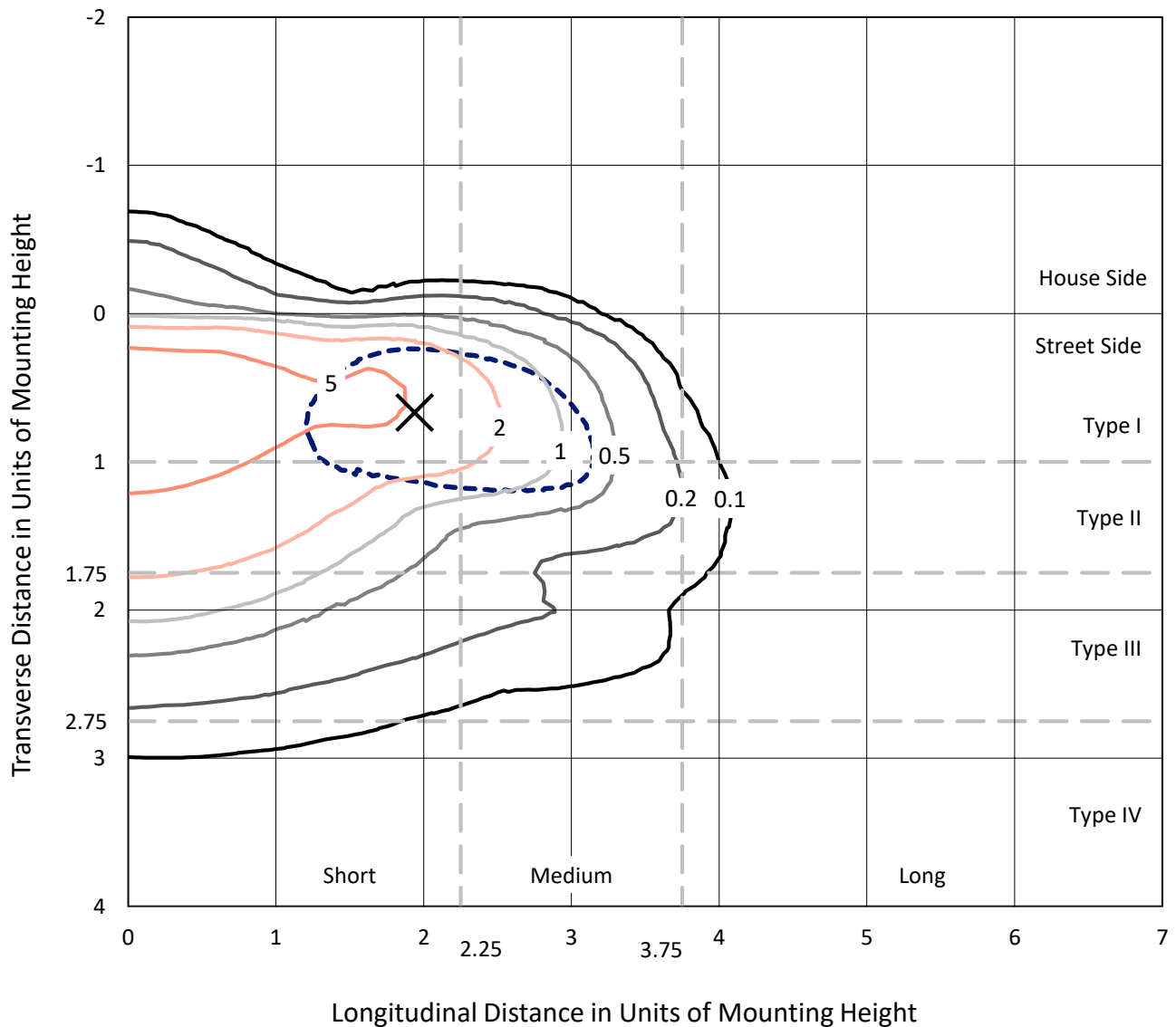
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

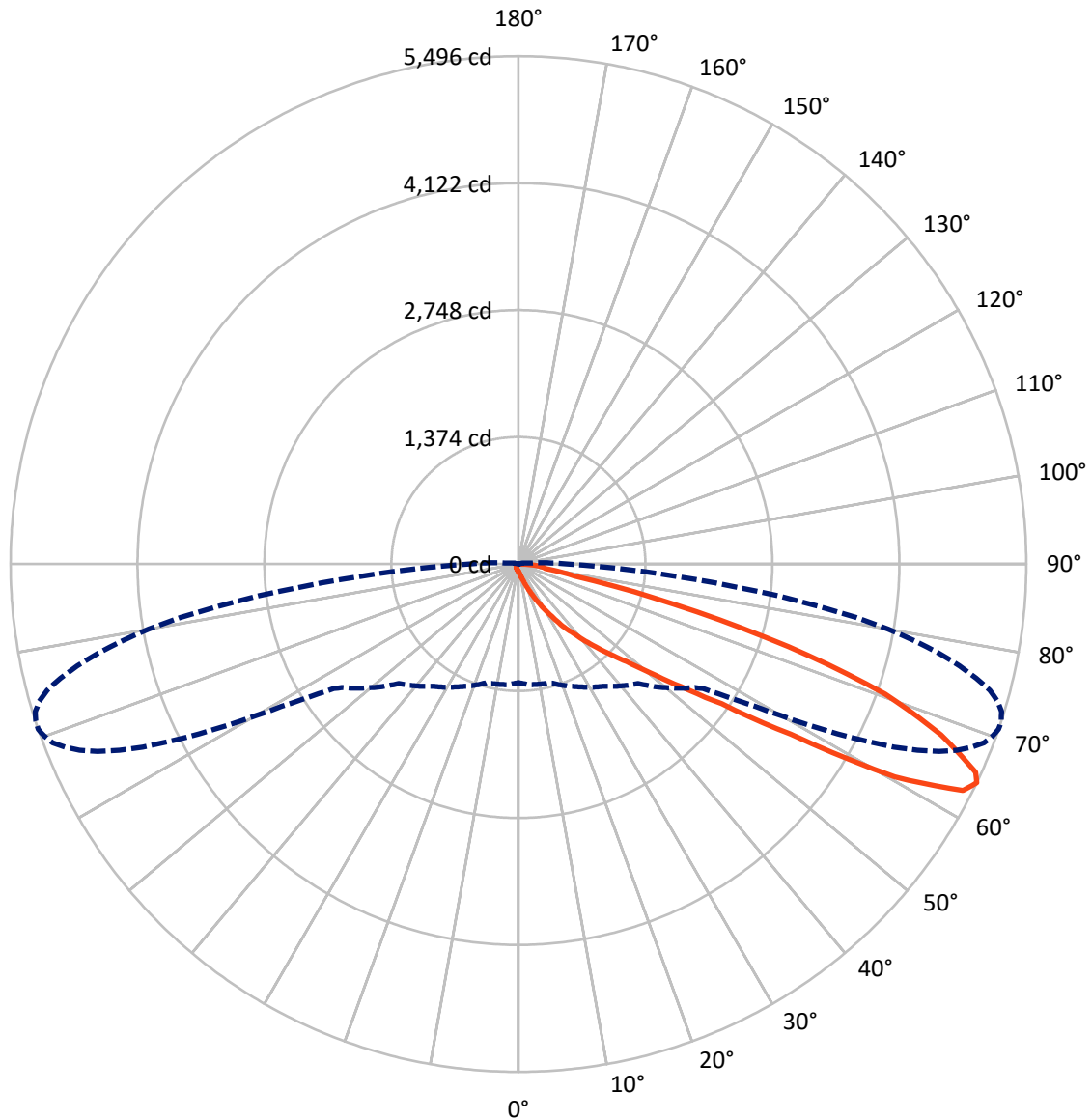
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 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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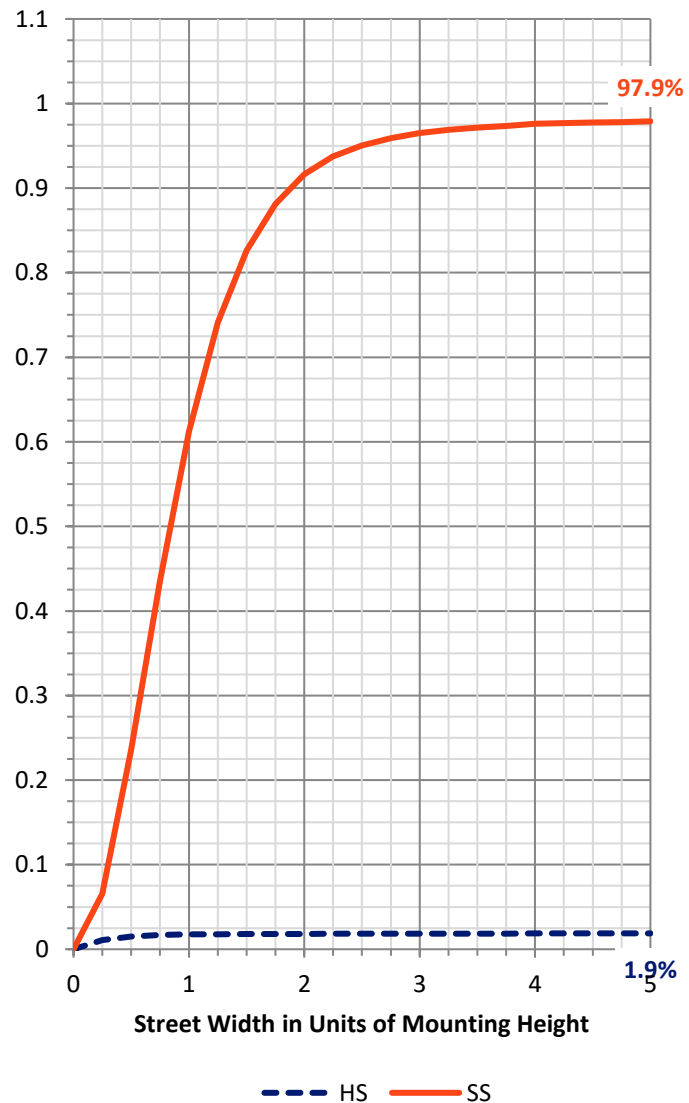
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	69.9	0.0	69.9
	% Fixture	1.9	0.0	1.9
Street Side	Lumens	3579.3	0.0	3579.3
	% Fixture	98.1	0.0	98.1
Total	Lumens	3649.2	0.0	3649.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.2	0.3
10°-20°	66.0	1.8
20°-30°	168.5	4.6
30°-40°	340.9	9.3
40°-50°	623.1	17.1
50°-60°	970.8	26.6
60°-70°	1079.0	29.6
70°-80°	351.9	9.6
80°-90°	37.9	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°	3649.2	100.0
0°-180°	3649.2	100.0

Coefficient of Utilization



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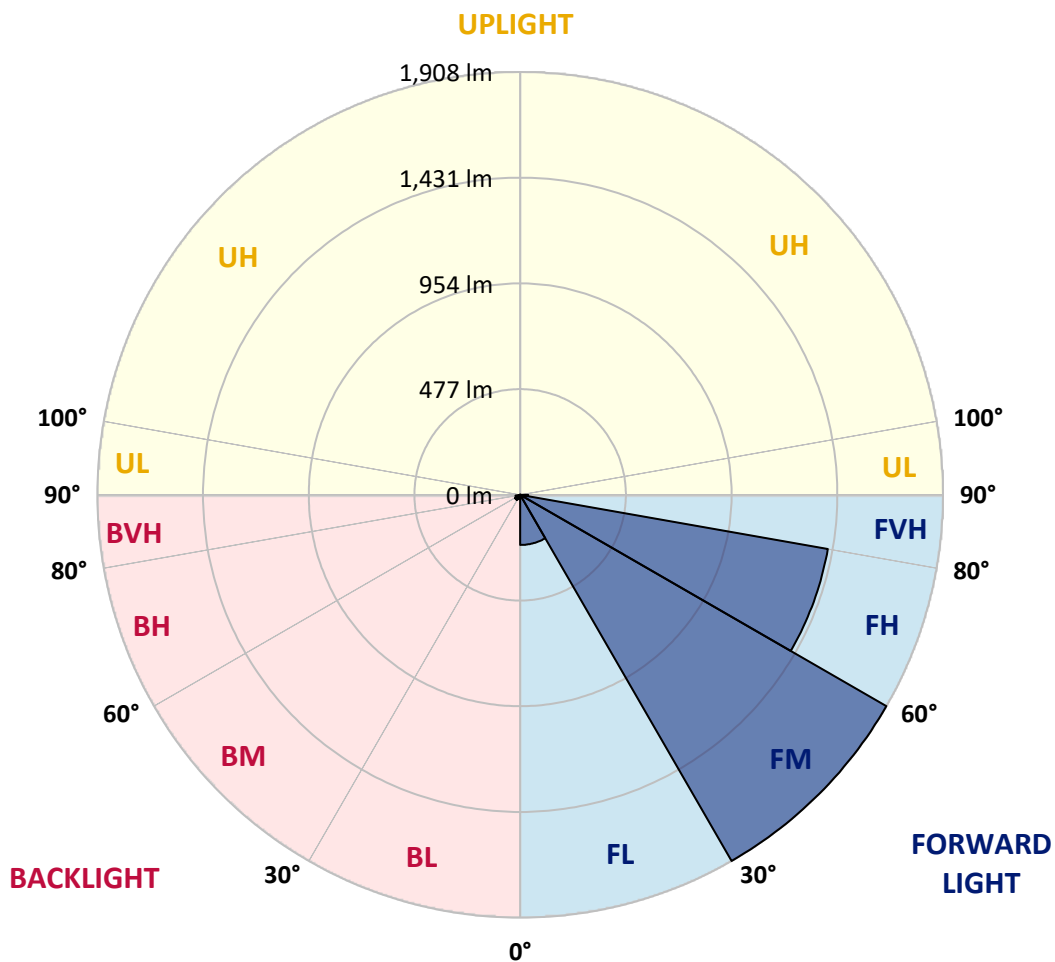
CATALOG NUMBER: ICS-E03-LED-E1-T2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	226.2	6.2			
FM (30°-60°)	1907.7	52.3			
FH (60°-80°)	1409.4	38.6			G1/1800
FVH (80°-90°)	36.0	1.0			G1/100
BL (0°-30°)	19.4	0.5	B0/110		
BM (30°-60°)	27.0	0.7	B0/220		
BH (60°-80°)	21.6	0.6	B0/110		G0/110
BVH (80°-90°)	1.8	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
2.5°	109.4	107.9	107.9	105.6	102.6	99.5	96.5	95.7	95.0	94.2	94.2
5°	171.7	165.6	163.3	155.0	144.3	131.4	120.0	117.0	117.0	114.7	113.2
7.5°	269.7	266.6	250.7	242.3	217.3	186.1	153.4	150.4	149.6	146.6	142.1
10°	395.0	388.9	377.5	353.2	307.7	253.7	207.4	199.8	194.5	188.4	182.3
12.5°	520.3	512.8	496.0	456.5	411.0	341.8	267.4	260.6	252.2	243.8	234.0
15°	645.7	640.4	614.5	575.0	515.8	433.0	338.8	326.6	319.8	303.1	295.5
17.5°	754.3	747.5	727.0	682.2	620.6	529.5	417.8	402.6	391.2	381.3	363.1
20°	848.5	841.7	821.9	784.7	715.6	625.9	502.9	495.3	474.8	459.6	448.9
22.5°	906.2	904.0	891.0	855.3	793.8	714.1	600.1	588.0	574.3	553.8	541.6
25°	941.9	939.7	932.1	907.0	865.2	806.7	707.2	692.0	679.9	661.6	646.4
27.5°	979.2	977.6	971.6	949.5	927.5	891.0	815.8	807.5	780.9	770.3	755.8
30°	1040.7	1033.9	1039.2	1028.5	1000.4	977.6	925.2	913.1	901.7	883.5	870.5
32.5°	1138.7	1127.3	1138.7	1127.3	1115.1	1087.8	1037.7	1033.9	1022.5	1011.1	992.8
35°	1258.7	1254.2	1263.3	1273.1	1263.3	1226.8	1166.0	1154.6	1150.1	1131.9	1125.0
37.5°	1379.5	1387.8	1404.6	1426.6	1420.5	1393.9	1308.1	1297.5	1289.1	1273.1	1261.0
40°	1509.4	1510.2	1545.9	1577.8	1593.7	1577.8	1464.6	1456.2	1444.8	1422.0	1419.0
42.5°	1650.7	1644.6	1671.2	1706.9	1739.6	1761.6	1671.2	1655.2	1639.3	1613.5	1596.0
45°	1776.0	1776.0	1797.3	1830.7	1880.9	1936.3	1889.2	1872.5	1857.3	1836.0	1816.3
47.5°	1868.7	1869.5	1882.4	1931.0	2009.2	2092.0	2093.5	2096.6	2085.2	2060.1	2060.9
50°	1934.0	1925.7	1943.1	1990.2	2080.6	2210.5	2304.0	2309.3	2318.4	2297.9	2304.0
52.5°	1981.9	1978.1	1989.5	2029.0	2119.4	2278.1	2476.4	2499.2	2512.9	2515.9	2541.0
55°	1956.8	1959.1	1986.4	2043.4	2140.6	2323.0	2623.0	2660.2	2692.1	2719.5	2750.6
57.5°	1874.0	1880.9	1928.7	2017.6	2145.2	2359.4	2778.7	2835.7	2895.7	2968.6	3030.2
60°	1741.8	1757.8	1822.4	1946.9	2101.1	2311.6	2825.1	2912.4	3004.3	3115.3	3239.1
62.5°	1548.1	1551.2	1593.7	1714.5	1884.6	2057.1	2612.4	2724.0	2845.6	3005.9	3179.1
64°	1283.0	1310.4	1330.1	1463.1	1615.0	1830.0	2331.3	2408.8	2578.2	2774.9	2993.0
65°	1058.9	1091.6	1107.5	1240.5	1414.4	1619.5	2086.7	2169.5	2348.0	2547.8	2819.8
67.5°	624.4	602.4	648.7	727.0	872.8	1115.9	1407.6	1470.6	1603.6	1841.4	2058.6
70°	402.6	402.6	445.1	524.9	660.1	846.2	967.0	940.4	968.5	1060.4	1213.9
72.5°	258.3	271.9	297.8	365.4	490.7	709.5	988.3	862.9	797.6	767.2	765.7
75°	117.7	125.3	153.4	193.7	262.1	462.6	996.6	941.9	881.9	824.2	779.4
77.5°	25.1	28.9	48.6	100.3	127.6	213.5	707.2	789.3	854.6	873.6	873.6
80°	12.9	13.7	20.5	47.1	54.7	72.2	272.7	358.5	442.1	552.3	667.7
82.5°	5.3	6.1	12.2	21.3	22.8	22.0	72.2	91.2	125.3	182.3	271.9
85°	1.5	1.5	5.3	8.4	12.2	9.9	16.0	18.2	23.5	34.2	65.3
87.5°	0.0	0.0	0.8	1.5	2.3	3.8	4.6	4.6	4.6	4.6	4.6
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
2.5°	93.4	93.4	92.7	91.9	91.9	90.4	90.4	89.6	89.6	88.9	88.9
5°	112.4	110.9	109.4	107.1	106.3	104.8	103.3	101.8	100.3	99.5	98.0
7.5°	139.8	138.3	133.7	130.7	126.9	124.6	121.5	119.3	117.0	115.5	112.4
10°	176.2	170.9	168.6	158.0	155.7	150.4	145.8	142.8	136.7	132.9	129.1
12.5°	227.9	218.0	214.2	196.0	190.7	183.1	177.8	170.2	163.3	158.8	151.9
15°	286.4	278.8	264.4	246.1	236.2	227.9	215.0	208.9	199.8	189.9	180.0
17.5°	356.3	342.6	326.6	303.1	290.9	278.0	265.9	253.0	237.8	228.6	218.0
20°	437.5	423.1	403.4	373.7	359.3	346.4	325.1	316.0	297.8	279.5	265.9
22.5°	526.4	512.0	493.0	459.6	440.6	419.3	401.8	385.9	364.6	346.4	330.4
25°	626.7	610.0	595.6	556.8	533.3	511.2	492.2	464.1	445.9	424.6	402.6
27.5°	740.6	720.9	701.9	659.4	637.3	613.0	590.2	560.6	543.1	508.2	487.7
30°	857.6	833.3	813.6	770.3	750.5	725.4	694.3	667.7	638.1	614.5	581.1
32.5°	980.7	960.9	945.0	899.4	874.3	843.2	815.1	787.0	761.2	723.2	692.8
35°	1112.1	1094.6	1077.2	1037.7	1015.6	992.1	960.2	926.0	890.3	850.8	823.4
37.5°	1250.4	1236.7	1223.0	1175.2	1149.3	1124.3	1087.8	1053.6	1021.7	979.9	933.6
40°	1395.4	1382.5	1360.5	1321.0	1293.7	1270.9	1237.4	1205.5	1162.2	1115.9	1074.9
42.5°	1577.8	1549.7	1530.7	1487.4	1458.5	1433.4	1403.8	1355.9	1319.5	1264.0	1224.5
45°	1791.2	1764.6	1733.5	1689.4	1653.7	1612.7	1570.9	1538.3	1492.7	1442.5	1391.6
47.5°	2031.3	2010.0	1973.5	1930.2	1894.5	1853.5	1804.1	1762.3	1706.9	1648.4	1579.3
50°	2295.6	2273.6	2249.3	2200.7	2165.0	2126.2	2087.5	2038.1	1988.0	1918.1	1846.7
52.5°	2541.0	2545.5	2531.1	2508.3	2490.8	2450.6	2414.9	2367.8	2323.7	2259.9	2204.5
55°	2783.3	2822.8	2838.0	2860.0	2867.6	2835.0	2834.2	2765.1	2738.5	2701.3	2669.4
57.5°	3103.1	3190.5	3259.6	3393.3	3449.5	3506.5	3517.1	3468.5	3518.6	3454.1	3476.1
60°	3375.1	3535.3	3707.0	4052.6	4225.8	4356.5	4461.3	4538.8	4588.9	4674.0	4678.6
62.5°	3399.4	3651.6	3912.9	4417.3	4654.3	4852.5	5041.7	5173.9	5278.7	5375.2	5398.7
64°	3283.1	3595.3	3912.9	4522.9	4765.2	4985.5	5157.9	5289.3	5396.4	5456.4	5495.9
65°	3072.0	3421.4	3786.8	4453.0	4702.9	4936.9	5101.7	5233.9	5334.9	5394.9	5435.9
67.5°	2275.9	2613.9	2980.8	3756.4	4149.9	4364.1	4575.3	4760.6	4841.9	4917.9	4932.3
70°	1387.1	1632.5	1885.4	2604.8	2970.2	3355.3	3593.1	3864.3	4054.2	4171.1	4209.9
72.5°	837.1	922.2	1073.4	1460.0	1810.2	2080.6	2409.6	2668.6	2881.3	2999.0	3058.3
75°	745.2	734.6	754.3	915.4	1039.9	1202.5	1321.8	1484.3	1615.7	1656.8	1733.5
77.5°	861.4	831.0	799.9	769.5	763.4	748.2	723.9	730.0	672.3	616.8	618.3
80°	767.2	840.2	883.5	851.5	779.4	706.5	616.8	505.2	395.0	326.6	297.8
82.5°	385.1	547.7	704.2	859.1	848.5	783.9	685.2	562.9	436.0	335.0	267.4
85°	118.5	210.4	296.3	411.7	477.8	468.7	411.7	400.3	285.6	222.6	171.7
87.5°	5.3	5.3	5.3	4.6	5.3	5.3	5.3	6.1	6.1	6.8	6.8
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
2.5°	88.9	88.1	87.4	86.6	86.6	86.6	85.8	85.8	85.1	85.1	84.3
5°	98.0	96.5	95.7	94.2	94.2	92.7	91.9	91.2	89.6	88.9	88.1
7.5°	110.1	108.6	106.3	104.1	103.3	101.0	98.8	97.2	95.7	94.2	92.7
10°	126.1	123.1	118.5	115.5	113.2	110.1	107.1	104.8	101.8	98.8	97.2
12.5°	146.6	140.5	136.0	130.7	126.1	121.5	116.2	113.2	110.1	105.6	102.6
15°	170.2	164.1	158.8	149.6	142.1	136.0	131.4	124.6	119.3	113.2	108.6
17.5°	210.4	194.5	183.8	174.7	167.1	155.7	146.6	139.0	132.2	124.6	119.3
20°	249.9	236.2	221.8	211.2	194.5	184.6	172.4	161.8	149.6	140.5	131.4
22.5°	307.7	290.2	271.9	256.0	233.2	219.5	203.6	189.9	174.7	159.5	149.6
25°	380.6	354.7	330.4	307.7	286.4	265.9	245.4	223.3	207.4	189.1	172.4
27.5°	457.3	428.4	404.9	375.3	347.9	322.8	297.0	273.5	246.1	222.6	202.8
30°	553.8	514.3	486.9	451.2	423.9	388.9	357.0	325.9	292.5	265.1	237.0
32.5°	651.8	625.2	578.8	548.5	507.4	465.7	432.2	396.5	355.5	319.8	285.6
35°	780.9	735.3	696.6	654.0	609.2	565.9	522.6	471.7	430.0	385.9	344.1
37.5°	894.8	848.5	803.7	748.2	697.3	651.8	599.4	546.2	496.8	444.4	394.2
40°	1027.0	969.3	916.1	864.5	801.4	747.5	692.8	626.7	569.7	512.0	452.7
42.5°	1171.4	1112.9	1049.8	990.6	921.4	855.3	787.7	721.7	657.8	588.0	518.8
45°	1329.4	1267.8	1197.2	1129.6	1054.4	981.4	900.9	825.0	749.8	671.5	591.8
47.5°	1525.3	1446.3	1381.0	1296.7	1203.3	1126.5	1027.8	941.2	855.3	764.2	674.6
50°	1779.1	1689.4	1595.2	1501.8	1398.5	1301.3	1191.9	1089.3	974.6	872.8	770.3
52.5°	2115.6	2048.7	1939.3	1832.2	1706.1	1582.3	1431.9	1299.0	1151.6	1021.7	896.4
55°	2593.4	2549.3	2454.4	2337.4	2227.2	2046.5	1873.3	1666.6	1475.2	1288.3	1112.1
57.5°	3458.6	3410.8	3305.2	3277.1	3107.7	2974.7	2771.9	2504.5	2180.1	1894.5	1609.7
60°	4704.4	4611.0	4507.7	4488.7	4289.6	4149.9	3948.6	3663.7	3358.3	2902.6	2514.4
62.5°	5400.2	5372.1	5288.6	5186.0	5013.6	4806.2	4579.8	4304.1	3994.2	3594.6	3132.7
64°	5493.7	5467.8	5395.7	5280.2	5107.0	4901.2	4650.5	4375.5	4064.8	3700.2	3278.6
65°	5435.2	5398.7	5337.2	5230.8	5069.8	4872.3	4620.1	4341.3	4026.1	3675.1	3283.1
67.5°	4963.4	4946.7	4890.5	4791.8	4690.7	4513.0	4291.2	4042.0	3784.5	3436.6	3115.3
70°	4214.4	4202.3	4130.9	4091.4	3924.3	3811.8	3632.6	3436.6	3208.7	2966.4	2692.9
72.5°	3124.4	3083.4	3025.6	2965.6	2852.4	2698.2	2558.4	2349.5	2231.8	2027.5	1873.3
75°	1656.8	1630.9	1541.3	1416.0	1276.2	1204.0	1058.9	929.0	825.7	779.4	667.7
77.5°	572.8	521.9	471.7	415.5	329.7	259.8	207.4	165.6	130.7	115.5	96.5
80°	285.6	271.2	255.2	223.3	187.6	151.2	118.5	93.4	76.7	65.3	58.5
82.5°	231.7	205.1	183.1	160.3	128.4	105.6	83.6	68.4	56.2	49.4	43.3
85°	136.7	104.8	79.8	72.2	56.2	48.6	41.8	35.7	30.4	28.9	26.6
87.5°	5.3	6.8	6.8	5.3	6.8	6.1	6.1	5.3	5.3	5.3	5.3
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°	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
2.5°	84.3	83.6	83.6	82.8	82.0	82.0	82.0	81.3	79.8	76.7	74.4
5°	87.4	86.6	85.8	84.3	83.6	82.8	82.0	82.0	78.2	72.9	69.1
7.5°	91.2	89.6	88.1	86.6	85.8	84.3	82.8	82.0	76.7	69.9	66.1
10°	95.0	92.7	90.4	89.6	87.4	85.8	83.6	82.0	76.0	67.6	62.3
12.5°	99.5	96.5	93.4	91.2	88.1	86.6	84.3	82.0	74.4	65.3	59.3
15°	104.8	100.3	96.5	94.2	91.2	87.4	84.3	82.0	72.9	63.0	56.2
17.5°	111.7	106.3	101.8	97.2	92.7	88.9	85.8	82.8	70.6	60.0	52.4
20°	122.3	115.5	107.9	102.6	96.5	91.9	86.6	82.8	69.1	57.0	49.4
22.5°	136.7	126.1	117.7	108.6	101.0	95.0	88.9	84.3	66.8	53.9	45.6
25°	157.2	143.6	129.9	118.5	108.6	100.3	92.7	86.6	65.3	51.7	43.3
27.5°	180.0	164.1	145.8	132.2	118.5	106.3	98.0	90.4	65.3	50.1	41.0
30°	211.9	189.1	167.1	149.6	131.4	117.7	105.6	95.7	65.3	49.4	38.7
32.5°	250.7	224.9	196.7	171.7	150.4	130.7	115.5	102.6	66.8	47.9	37.2
35°	304.6	266.6	233.2	202.1	174.0	151.2	131.4	113.9	69.1	47.1	34.9
37.5°	347.2	301.6	259.0	223.3	190.7	162.6	137.5	118.5	66.8	44.1	32.7
40°	398.0	346.4	294.7	249.9	212.7	176.2	147.4	124.6	65.3	40.3	29.6
42.5°	459.6	395.0	335.0	284.1	237.8	194.5	160.3	132.2	65.3	38.0	27.3
45°	517.3	446.7	379.8	316.0	262.1	214.2	172.4	140.5	64.6	35.7	24.3
47.5°	588.7	505.2	426.9	353.2	290.9	232.4	185.4	148.1	63.8	33.4	22.0
50°	673.0	571.2	483.1	395.0	319.0	254.5	200.5	156.5	62.3	31.1	19.8
52.5°	766.5	657.1	544.7	442.9	354.0	278.0	215.0	164.1	60.0	28.9	17.5
55°	932.1	781.7	648.7	522.6	407.2	313.0	236.2	175.5	57.7	26.6	15.2
57.5°	1329.4	1080.2	891.8	701.9	536.3	401.8	294.0	208.1	54.7	23.5	12.2
60°	2087.5	1676.5	1356.7	1064.2	811.3	616.8	433.0	307.7	58.5	19.8	10.6
62.5°	2677.7	2205.2	1798.1	1431.1	1111.3	844.7	630.5	459.6	84.3	17.5	8.4
64°	2831.9	2353.3	1918.8	1534.5	1201.7	926.8	703.4	519.6	108.6	17.5	7.6
65°	2854.7	2398.9	1962.1	1572.4	1232.9	948.8	724.7	539.3	118.5	18.2	6.8
67.5°	2760.5	2372.3	1975.0	1588.4	1256.4	979.2	753.6	570.5	133.7	17.5	5.3
70°	2411.1	2125.5	1798.8	1485.8	1185.0	930.6	724.7	553.0	139.8	16.7	4.6
72.5°	1640.8	1444.1	1251.1	1029.3	825.0	679.9	528.7	389.7	98.0	13.7	3.8
75°	546.9	533.3	477.0	361.6	303.9	246.9	197.5	151.9	37.2	8.4	3.8
77.5°	91.2	78.2	68.4	65.3	54.7	53.2	46.3	37.2	16.0	5.3	3.8
80°	53.2	48.6	42.5	38.0	33.4	29.6	25.1	21.3	9.9	3.8	4.6
82.5°	39.5	34.9	31.1	27.3	23.5	20.5	17.5	14.4	5.3	3.8	4.6
85°	22.8	19.8	17.5	15.2	12.2	10.6	9.1	7.6	3.8	3.8	3.8
87.5°	4.6	4.6	3.8	3.8	3.8	3.8	3.8	3.0	3.8	3.8	3.0
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°	81.3	81.3	81.3	81.3	81.3	81.3	81.3
2.5°	72.9	70.6	69.9	69.9	69.9	69.9	69.9
5°	66.8	64.6	63.0	62.3	62.3	62.3	62.3
7.5°	62.3	59.3	57.7	56.2	56.2	55.5	55.5
10°	57.7	54.7	52.4	50.9	50.1	50.1	50.1
12.5°	53.9	50.9	47.9	46.3	46.3	45.6	45.6
15°	50.9	46.3	44.1	42.5	42.5	41.8	41.8
17.5°	47.1	43.3	41.0	39.5	38.7	38.7	38.7
20°	43.3	39.5	37.2	36.5	35.7	35.7	34.9
22.5°	40.3	36.5	34.2	33.4	32.7	32.7	31.9
25°	37.2	33.4	31.1	30.4	29.6	28.9	28.9
27.5°	34.9	31.1	28.9	27.3	26.6	25.8	25.8
30°	32.7	28.1	25.8	24.3	23.5	22.8	22.8
32.5°	30.4	25.8	22.8	21.3	20.5	19.8	19.8
35°	27.3	22.8	19.8	19.0	18.2	17.5	16.7
37.5°	25.1	19.8	17.5	16.0	15.2	14.4	14.4
40°	22.0	17.5	15.2	13.7	12.2	11.4	11.4
42.5°	19.8	15.2	12.9	10.6	9.9	9.1	9.1
45°	17.5	13.7	10.6	8.4	7.6	6.8	6.8
47.5°	15.2	11.4	8.4	6.8	6.1	5.3	5.3
50°	12.9	9.1	6.1	4.6	5.3	4.6	4.6
52.5°	11.4	6.8	4.6	4.6	4.6	4.6	4.6
55°	9.1	5.3	3.8	3.8	4.6	4.6	4.6
57.5°	7.6	3.8	3.0	3.8	3.8	3.8	3.8
60°	5.3	3.0	3.0	3.8	3.8	3.8	3.8
62.5°	4.6	3.0	3.0	3.0	3.8	3.8	3.8
64°	3.8	3.0	3.0	3.0	3.8	3.8	3.8
65°	3.8	3.0	3.0	3.0	3.8	3.8	3.8
67.5°	3.8	3.0	3.0	3.0	3.8	3.8	3.8
70°	3.0	3.0	3.0	3.0	3.8	3.8	3.8
72.5°	3.0	3.0	3.0	3.0	3.8	3.8	3.8
75°	3.0	3.0	3.0	3.0	3.8	3.8	3.8
77.5°	3.0	3.0	3.0	3.8	3.8	3.8	3.8
80°	3.0	3.0	3.0	3.8	3.8	3.8	3.8
82.5°	3.0	3.0	3.0	3.8	3.8	3.8	3.8
85°	3.0	3.0	3.0	3.8	3.8	3.8	3.8
87.5°	3.0	3.0	3.0	3.8	3.8	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)