

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: P401095

Luminaire Tested: **ENT-SA1B-730-U-SLL-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1B-730-U-SLL-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2347 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

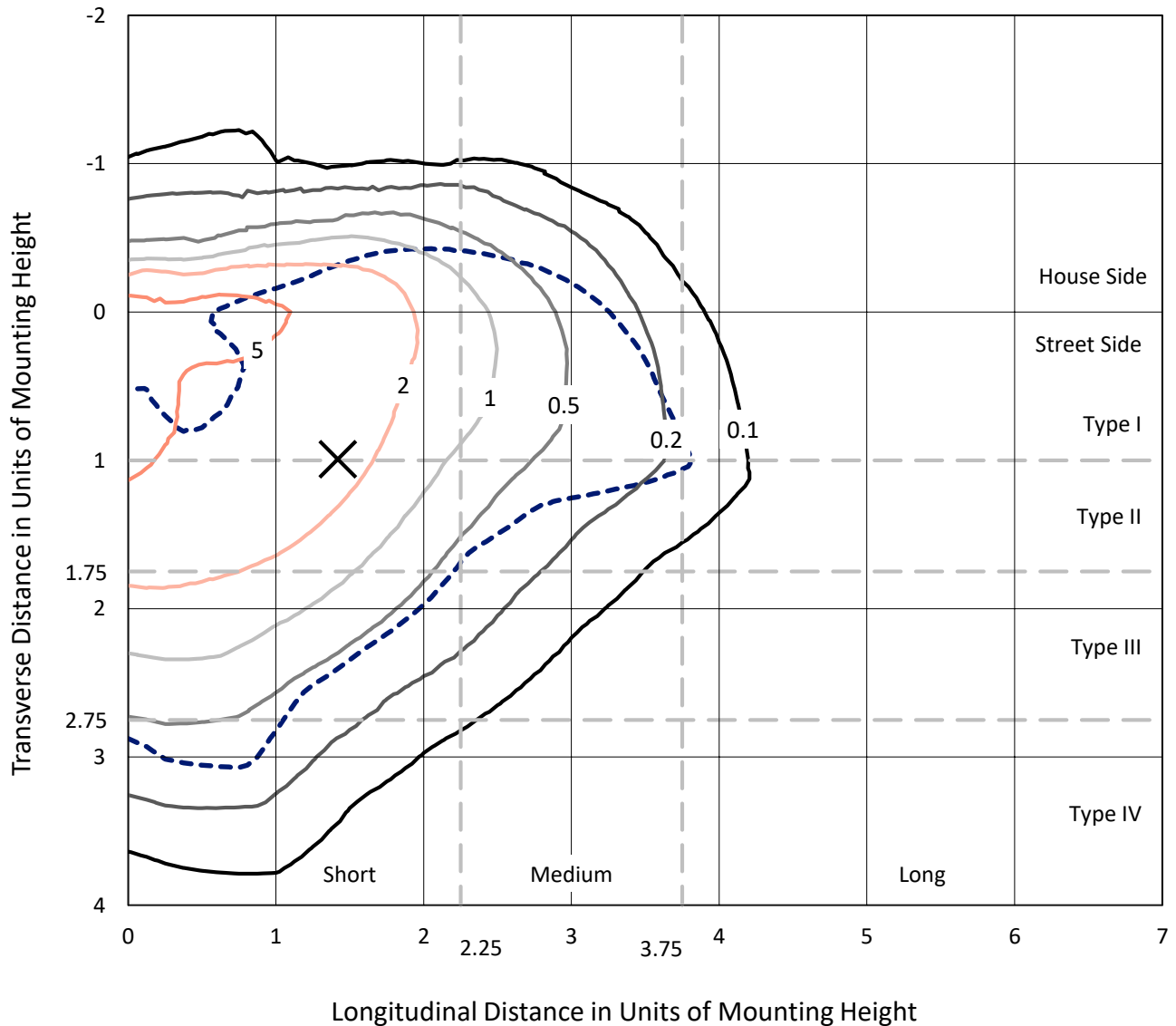
Input Watts (W): 25.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

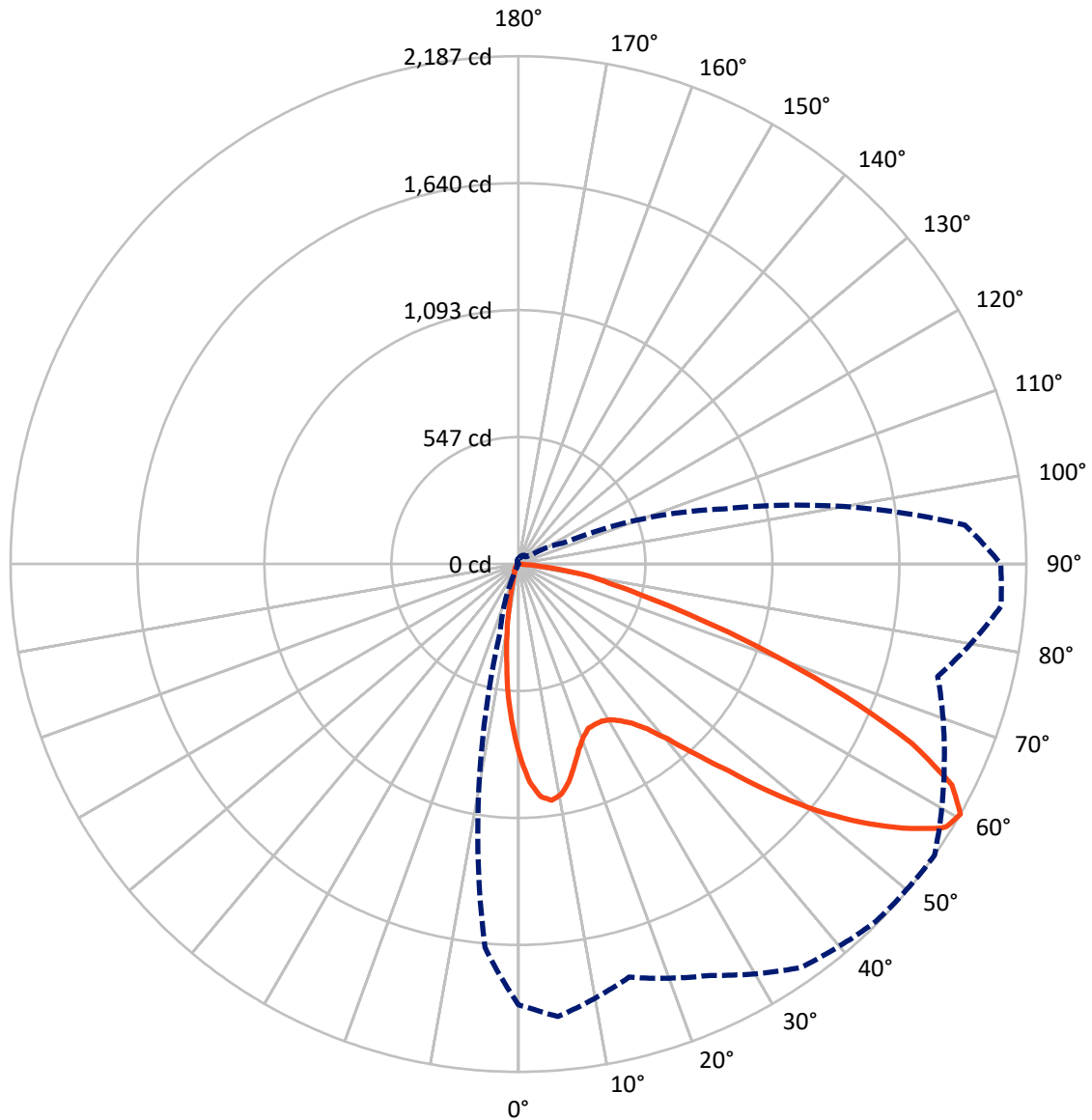
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	415.6	0.0	415.6
	% Fixture	17.7	0.0	17.7
Street Side	Lumens	1931.4	0.0	1931.4
	% Fixture	82.3	0.0	82.3
Total	Lumens	2347.0	0.0	2347.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	2.7
10°-20°	118.6	5.1
20°-30°	169.2	7.2
30°-40°	248.2	10.6
40°-50°	366.0	15.6
50°-60°	542.2	23.1
60°-70°	577.8	24.6
70°-80°	239.6	10.2
80°-90°	23.0	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°	2347.0	100.0
0°-180°	2347.0	100.0



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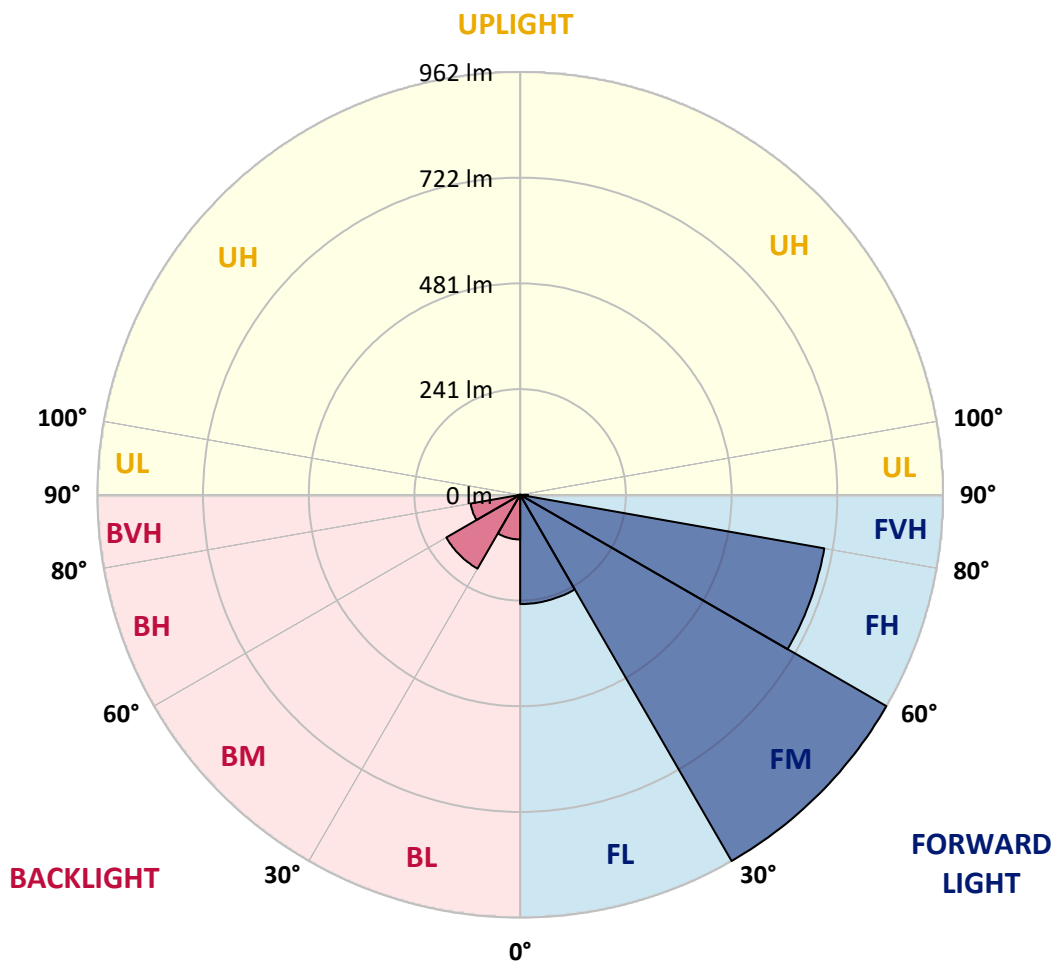
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	248.6	10.6			
FM (30°-60°)	962.3	41.0			
FH (60°-80°)	702.8	29.9			G1/1800
FVH (80°-90°)	17.6	0.8			G1/100
BL (0°-30°)	101.6	4.3	B0/110		
BM (30°-60°)	194.0	8.3	B0/220		
BH (60°-80°)	114.6	4.9	B1/500		G1/500
BVH (80°-90°)	5.4	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9
2.5°	865.7	864.4	876.8	902.5	918.5	928.2	930.0	940.2	930.0	924.7	905.6
5°	840.4	839.9	863.9	920.3	966.4	1001.0	1017.9	1006.3	988.6	953.5	910.9
7.5°	770.3	770.3	815.5	891.0	968.2	1028.1	1048.5	1027.2	985.0	914.5	838.2
10°	713.0	718.4	761.9	851.9	937.6	1003.2	1025.9	1009.4	954.4	863.0	773.4
12.5°	678.9	682.0	730.3	820.9	900.7	954.0	967.7	962.9	922.9	823.5	728.6
15°	682.0	686.4	741.9	816.0	867.9	889.2	894.1	900.3	883.9	807.6	713.9
17.5°	730.8	733.9	789.8	837.7	835.5	828.9	830.6	840.8	860.4	820.9	743.7
20°	808.9	816.9	873.2	874.1	818.6	787.6	779.6	796.5	849.3	855.9	807.1
22.5°	909.2	912.3	969.5	935.3	820.4	759.2	749.9	769.0	852.8	912.7	895.0
25°	1025.4	1036.5	1067.6	1014.8	846.2	755.2	749.0	765.0	865.7	973.1	985.5
27.5°	1104.0	1112.8	1142.6	1068.9	869.2	757.4	745.9	765.4	881.2	1029.9	1082.2
30°	1174.1	1180.3	1191.4	1097.3	895.4	768.5	749.9	777.8	889.6	1041.8	1144.8
32.5°	1240.2	1247.7	1241.1	1131.5	924.3	789.4	757.4	804.0	907.8	1065.8	1199.4
35°	1325.4	1325.8	1303.2	1165.6	957.1	814.2	779.6	841.3	943.3	1103.1	1257.9
37.5°	1426.5	1427.4	1370.2	1200.7	994.4	855.9	832.0	899.0	994.8	1146.1	1341.8
40°	1514.8	1518.4	1442.5	1241.1	1040.1	937.1	934.9	990.4	1060.9	1203.3	1431.9
42.5°	1591.6	1601.8	1509.1	1274.8	1104.8	1061.8	1067.1	1117.7	1141.2	1251.3	1487.8
45°	1669.2	1668.8	1563.6	1308.5	1213.1	1222.4	1273.0	1270.8	1232.2	1277.0	1531.7
47.5°	1717.6	1715.4	1596.9	1363.5	1359.1	1448.3	1502.0	1472.7	1332.9	1304.5	1586.7
50°	1736.2	1735.4	1623.1	1433.6	1507.7	1652.8	1729.6	1671.0	1456.3	1350.7	1652.4
52.5°	1789.0	1784.6	1683.4	1513.5	1642.2	1849.8	1913.3	1848.1	1579.2	1433.6	1728.7
55°	1871.6	1872.9	1787.3	1607.1	1750.0	1988.7	2066.4	2008.2	1704.7	1547.7	1833.4
57.5°	1927.0	1931.0	1902.2	1711.4	1865.4	2085.9	2161.3	2144.9	1872.0	1683.9	1956.3
58°	1932.4	1935.5	1920.4	1731.4	1882.7	2097.0	2174.2	2162.7	1908.8	1727.4	1985.6
60°	1898.2	1907.5	1955.9	1841.4	1954.1	2120.5	2176.4	2186.6	2022.9	1868.5	2085.9
62.5°	1805.5	1808.6	1896.4	1964.8	2002.9	2062.4	2067.7	2094.3	2069.9	2034.0	2175.5
65°	1691.9	1691.9	1786.8	1970.5	1876.5	1866.7	1835.6	1862.3	1932.8	2137.8	2169.3
67.5°	1494.4	1495.8	1616.9	1755.3	1555.7	1521.9	1502.0	1511.7	1662.1	2051.3	2048.6
70°	1207.8	1206.9	1331.6	1421.2	1154.5	1125.7	1149.7	1146.6	1350.2	1822.8	1788.6
72.5°	854.1	861.7	989.9	1097.7	784.0	675.8	781.4	822.2	1015.7	1536.6	1383.9
75°	481.0	491.2	595.9	762.7	494.7	457.0	511.2	569.3	734.3	1223.3	929.6
77.5°	241.4	245.4	305.3	366.9	299.9	348.3	345.2	400.7	503.6	825.3	531.6
80°	139.3	147.3	167.7	189.5	167.7	221.0	256.5	301.7	310.2	426.9	296.4
82.5°	55.9	62.6	78.5	89.2	69.7	65.7	44.8	141.1	186.8	206.3	113.6
85°	0.0	0.0	0.4	0.9	1.3	1.3	2.2	24.8	45.7	10.2	18.6
87.5°	0.0	0.0	0.4	0.4	0.9	1.3	1.8	3.1	4.0	4.9	16.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9
2.5°	898.5	893.6	877.2	852.4	836.8	812.9	803.1	780.5	769.0	749.9	749.9
5°	889.6	869.7	828.4	774.7	736.6	696.6	683.8	657.1	638.1	615.4	606.1
7.5°	808.9	780.9	716.6	654.0	593.2	552.9	512.9	485.9	460.1	441.5	444.2
10°	734.8	694.9	624.3	544.9	481.9	439.7	403.8	372.3	345.7	319.5	315.5
12.5°	686.4	640.7	556.4	471.2	424.2	393.1	359.9	325.2	292.4	263.6	252.0
15°	666.0	616.3	522.2	441.9	398.9	359.0	320.4	277.8	240.0	205.4	196.1
17.5°	688.2	628.7	519.1	422.4	362.5	312.4	258.7	212.1	167.7	142.9	135.3
20°	748.5	671.3	529.3	402.9	322.1	257.4	191.7	138.9	114.0	98.9	94.1
22.5°	836.0	741.9	546.7	383.8	281.3	191.7	132.2	100.3	85.6	77.6	75.4
25°	930.9	832.8	578.6	367.8	240.5	142.4	98.1	82.1	73.2	67.4	65.2
27.5°	1037.8	922.9	617.6	355.9	202.8	114.0	84.3	72.3	65.2	61.2	59.5
30°	1104.8	987.7	647.4	334.6	177.0	103.8	80.3	68.3	60.8	57.7	56.4
32.5°	1166.5	1038.7	675.8	310.2	157.5	91.8	78.1	71.9	63.0	56.8	54.1
35°	1234.4	1091.1	689.5	295.5	144.7	79.9	64.3	55.9	51.0	50.1	48.8
37.5°	1335.6	1153.2	698.4	287.5	136.7	72.8	59.9	50.6	44.8	39.5	37.3
40°	1431.4	1217.5	702.8	280.0	132.7	68.3	57.2	47.9	41.7	36.8	34.6
42.5°	1506.4	1276.1	705.5	274.7	125.6	65.7	55.0	46.1	39.5	34.6	32.4
45°	1567.6	1344.0	703.3	272.9	119.8	67.4	54.1	44.8	37.7	32.8	30.6
47.5°	1627.5	1417.7	711.7	270.7	114.0	64.8	54.6	44.4	36.4	31.5	29.3
50°	1706.1	1506.8	742.3	264.5	110.0	60.8	59.0	44.8	35.9	30.6	28.8
52.5°	1807.7	1630.2	797.8	257.8	105.2	57.2	61.7	44.8	35.1	29.7	27.5
55°	1931.0	1768.6	859.0	248.0	96.7	52.8	59.0	44.8	34.2	29.3	26.6
57.5°	2031.8	1892.0	907.4	236.5	81.2	47.5	54.1	43.0	31.9	27.5	25.3
58°	2040.6	1906.2	914.0	233.4	79.4	46.6	52.8	42.6	31.1	27.1	24.8
60°	2076.6	1929.3	916.7	216.5	66.1	44.4	45.7	41.3	29.3	25.3	23.5
62.5°	2064.1	1852.9	860.4	186.8	59.0	40.4	38.2	42.2	27.1	23.1	21.3
65°	2002.5	1703.0	753.9	167.3	59.5	35.9	32.8	36.8	24.8	20.9	19.1
67.5°	1855.6	1475.3	612.3	156.6	62.1	31.9	28.4	27.5	22.2	18.6	17.3
70°	1582.7	1209.1	464.1	147.3	65.7	28.4	26.2	24.4	20.4	17.3	15.5
72.5°	1165.6	895.4	337.7	138.0	63.9	25.3	24.4	22.2	18.6	15.5	14.6
75°	727.2	520.0	231.2	112.7	57.2	22.2	22.6	20.9	16.9	14.6	13.3
77.5°	424.6	365.2	114.0	83.9	39.5	19.5	20.0	19.1	17.3	13.8	12.9
80°	254.2	227.2	48.8	35.9	21.7	17.3	16.9	17.7	16.4	12.9	12.0
82.5°	110.0	98.5	23.5	20.0	17.7	15.1	14.6	15.1	14.2	10.6	10.2
85°	6.2	16.4	11.1	14.6	13.3	11.1	11.1	11.5	10.2	8.4	8.4
87.5°	5.8	12.4	7.1	8.9	9.8	8.4	8.9	8.9	8.4	7.5	7.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9
2.5°	739.7	734.8	720.1	714.8	691.7	697.5	699.3	697.1	698.0	699.7	706.4
5°	612.8	604.8	585.7	573.3	566.6	562.2	541.3	541.8	544.9	532.9	548.4
7.5°	435.3	444.2	445.9	434.4	427.3	412.2	393.1	382.5	364.3	374.5	376.7
10°	311.5	307.0	315.5	311.5	300.4	294.6	274.2	272.4	270.7	269.3	282.2
12.5°	237.4	224.1	214.3	216.5	208.1	193.9	190.4	190.8	192.6	192.6	196.1
15°	188.1	167.7	152.2	142.9	144.2	130.0	126.0	112.7	110.9	106.9	107.8
17.5°	131.8	123.4	114.0	103.4	98.9	86.1	70.6	63.5	58.1	59.0	61.7
20°	91.0	87.4	84.7	79.4	75.0	59.9	50.1	47.0	46.6	47.5	48.4
22.5°	73.2	69.7	67.0	65.2	59.5	48.4	43.0	40.8	40.8	40.8	41.3
25°	63.0	59.5	55.9	55.9	50.6	42.2	38.2	36.4	35.9	35.5	36.4
27.5°	58.6	53.7	50.1	47.9	43.9	37.3	33.7	31.9	31.5	31.5	31.9
30°	54.1	49.3	45.7	42.6	38.2	33.3	29.7	28.4	27.5	27.5	28.0
32.5°	51.5	46.6	42.2	38.2	33.3	29.3	26.2	24.4	23.5	24.0	24.4
35°	45.7	41.7	37.7	33.7	29.3	25.7	22.6	20.9	20.4	20.4	20.9
37.5°	35.9	32.8	31.9	29.7	25.7	22.2	19.1	17.3	16.9	16.9	17.3
40°	32.4	28.4	26.6	25.7	23.5	19.1	15.5	13.8	13.8	13.3	14.2
42.5°	29.7	25.7	22.6	21.7	20.4	16.4	12.4	11.1	10.6	10.6	11.1
45°	28.0	23.5	19.5	17.3	17.3	13.3	10.2	8.4	8.0	8.0	8.4
47.5°	27.1	22.2	17.3	14.2	13.8	11.1	8.0	6.2	5.8	5.8	5.8
50°	26.2	20.4	15.5	12.0	10.6	9.3	6.2	4.9	4.4	4.4	4.4
52.5°	24.8	19.5	14.2	10.6	8.4	7.1	4.9	3.5	3.1	2.7	3.1
55°	24.0	18.2	13.8	9.8	7.1	5.3	3.5	2.7	2.2	2.2	2.2
57.5°	22.6	16.9	12.4	9.3	6.7	4.0	2.7	1.8	1.3	1.3	1.8
58°	22.2	16.9	12.0	8.9	6.2	4.0	2.7	1.8	1.3	1.3	1.8
60°	20.9	15.5	11.5	8.0	5.8	3.5	2.2	1.3	0.9	0.9	1.3
62.5°	19.5	14.2	10.2	7.1	4.9	3.1	1.8	0.9	0.4	0.4	0.4
65°	17.3	12.9	8.9	6.7	4.0	2.2	1.3	0.4	0.0	0.0	0.0
67.5°	15.5	12.0	8.0	5.8	3.5	1.8	0.9	0.0	0.0	0.0	0.0
70°	14.2	11.1	7.1	4.9	3.1	1.3	0.4	0.0	0.0	0.0	0.0
72.5°	13.3	10.2	6.7	4.4	2.2	1.3	0.4	0.0	0.0	0.0	0.0
75°	12.9	9.8	6.7	4.0	2.2	1.3	0.9	0.4	0.0	0.0	0.4
77.5°	12.4	9.8	6.7	4.0	2.7	1.3	1.3	0.9	0.9	0.4	1.3
80°	11.5	8.9	5.8	3.5	2.2	1.8	1.3	0.9	0.0	0.0	0.0
82.5°	9.8	7.1	4.9	3.5	2.2	1.3	0.4	0.0	0.0	0.0	0.0
85°	8.0	5.8	4.0	2.2	1.3	0.4	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	4.4	3.1	1.8	0.9	0.4	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	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9	828.9
2.5°	712.2	732.6	741.0	769.4	781.8	807.6	829.7	848.8	858.1	865.7
5°	552.4	571.9	592.8	635.0	671.3	710.4	759.2	809.8	824.4	840.4
7.5°	385.6	414.4	449.5	487.2	539.1	598.1	668.2	730.8	762.3	770.3
10°	299.5	333.7	370.9	408.2	451.3	514.3	584.8	665.6	699.3	713.0
12.5°	225.0	270.7	315.0	359.0	396.2	450.8	527.6	623.9	661.1	678.9
15°	135.3	186.8	241.4	300.4	352.3	416.2	502.7	615.0	662.0	682.0
17.5°	67.4	92.3	142.4	231.2	307.9	387.4	502.3	646.9	705.1	730.8
20°	50.1	56.8	75.9	144.2	256.0	363.4	507.6	701.5	787.1	808.9
22.5°	43.0	47.9	54.6	84.3	191.7	341.2	526.2	773.8	880.3	909.2
25°	37.7	41.7	47.0	58.1	131.3	315.0	561.3	875.9	985.9	1025.4
27.5°	33.3	36.8	41.3	48.8	87.9	265.8	581.3	961.5	1071.1	1104.0
30°	29.3	31.9	36.4	41.7	64.8	205.4	599.9	1037.0	1148.3	1174.1
32.5°	25.7	28.0	31.5	35.5	49.3	155.7	600.8	1101.7	1215.8	1240.2
35°	21.7	24.4	27.1	30.6	39.0	121.6	582.6	1166.1	1295.6	1325.4
37.5°	18.2	20.4	23.5	26.6	35.5	94.1	544.9	1241.5	1392.8	1426.5
40°	15.5	17.7	20.4	24.0	31.5	68.3	484.5	1309.8	1483.8	1514.8
42.5°	12.4	14.6	17.7	23.5	26.2	49.3	423.7	1375.5	1562.8	1591.6
45°	9.8	12.4	16.4	22.6	21.7	34.6	371.4	1433.6	1630.6	1669.2
47.5°	7.1	10.2	16.4	20.4	17.7	24.8	344.8	1489.5	1691.4	1717.6
50°	5.3	8.4	17.7	17.3	15.1	21.3	348.8	1551.7	1719.4	1736.2
52.5°	4.0	7.1	13.8	12.4	12.9	18.6	364.3	1633.7	1777.1	1789.0
55°	3.5	5.3	8.4	9.3	11.5	17.7	360.3	1711.4	1850.7	1871.6
57.5°	3.1	4.4	6.7	7.5	10.2	16.9	337.7	1745.6	1898.2	1927.0
58°	2.7	4.4	6.2	7.5	10.2	16.4	331.9	1736.2	1896.0	1932.4
60°	2.2	4.0	5.8	6.7	8.9	14.6	303.9	1657.3	1847.2	1898.2
62.5°	1.8	2.7	4.4	4.9	7.1	12.0	250.3	1529.5	1742.5	1805.5
65°	0.9	1.8	2.7	3.5	4.9	8.9	177.9	1378.2	1630.2	1691.9
67.5°	0.0	0.9	1.8	2.2	3.1	6.7	102.5	1169.6	1445.6	1494.4
70°	0.0	0.4	0.9	1.3	1.8	4.4	54.1	858.6	1119.9	1207.8
72.5°	0.4	0.4	0.4	0.0	0.9	3.5	24.0	509.4	763.6	854.1
75°	0.4	0.4	0.0	0.0	0.0	1.8	10.2	268.4	437.9	481.0
77.5°	1.8	0.9	0.0	0.0	0.0	0.4	4.9	144.7	227.2	241.4
80°	0.4	0.0	0.0	0.0	0.0	0.0	1.8	48.4	136.2	139.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	58.6	55.9
85°	0.0	0.0	0.0	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	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

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