

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: P151593

Luminaire Tested: **VXS-F03-LED-E1-SL4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P151593
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: VXS-F03-LED-E1-SL4-HSS-8030
Description: VISION SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4253.2 lumens
Efficiency: N/A
Efficacy: 54.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 78.3
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

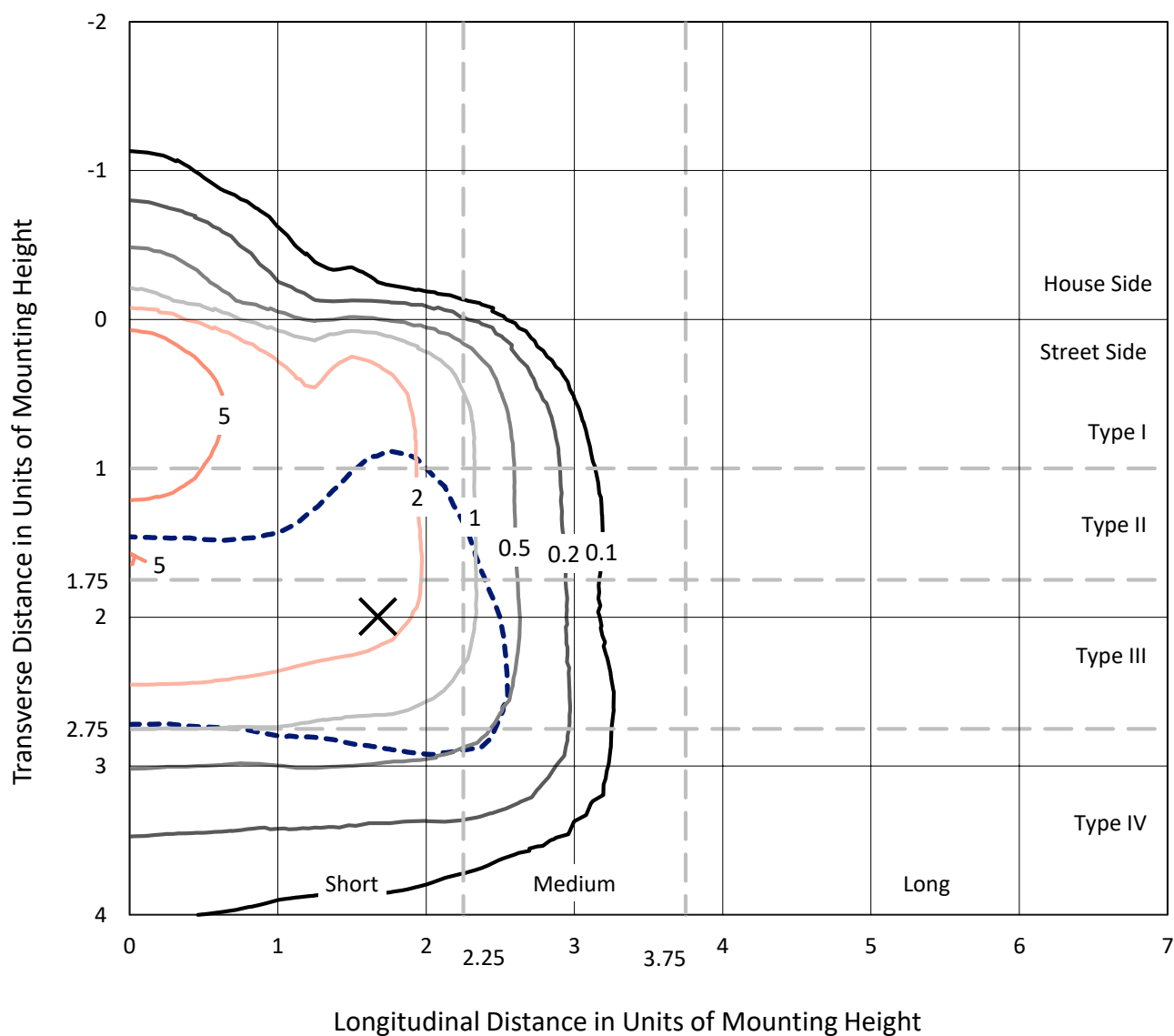


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

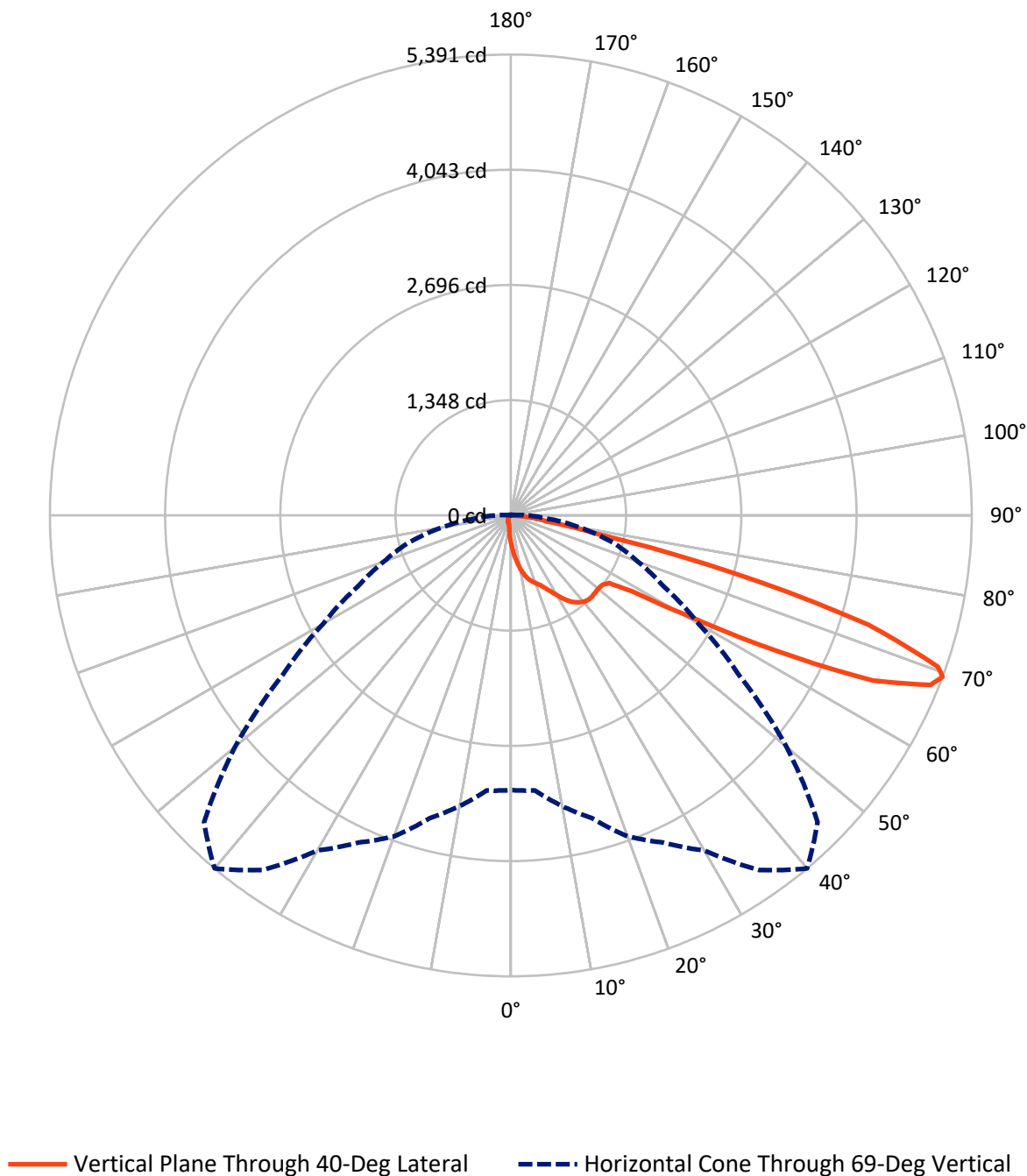


Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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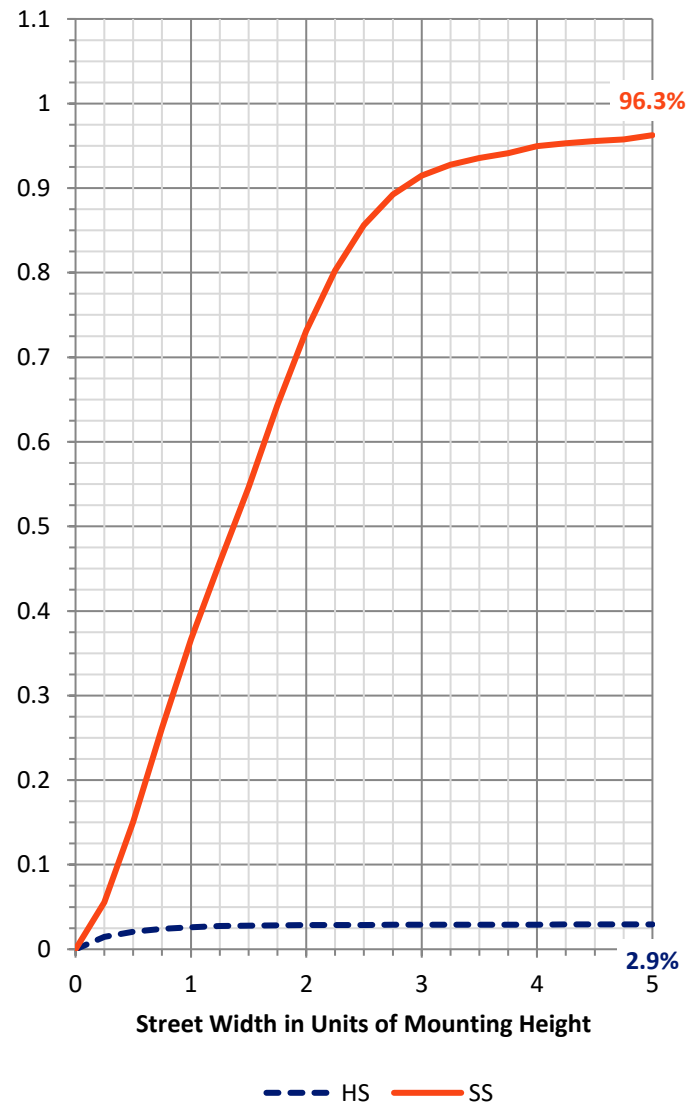
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	126.7	0.0	126.7
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	4126.5	0.0	4126.5
	% Fixture	97.0	0.0	97.0
Total	Lumens	4253.2	0.0	4253.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	0.8
10°-20°	113.8	2.7
20°-30°	217.9	5.1
30°-40°	362.3	8.5
40°-50°	490.2	11.5
50°-60°	766.7	18.0
60°-70°	1576.3	37.1
70°-80°	634.3	14.9
80°-90°	58.7	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°	4253.2	100.0
0°-180°	4253.2	100.0

Coefficient of Utilization



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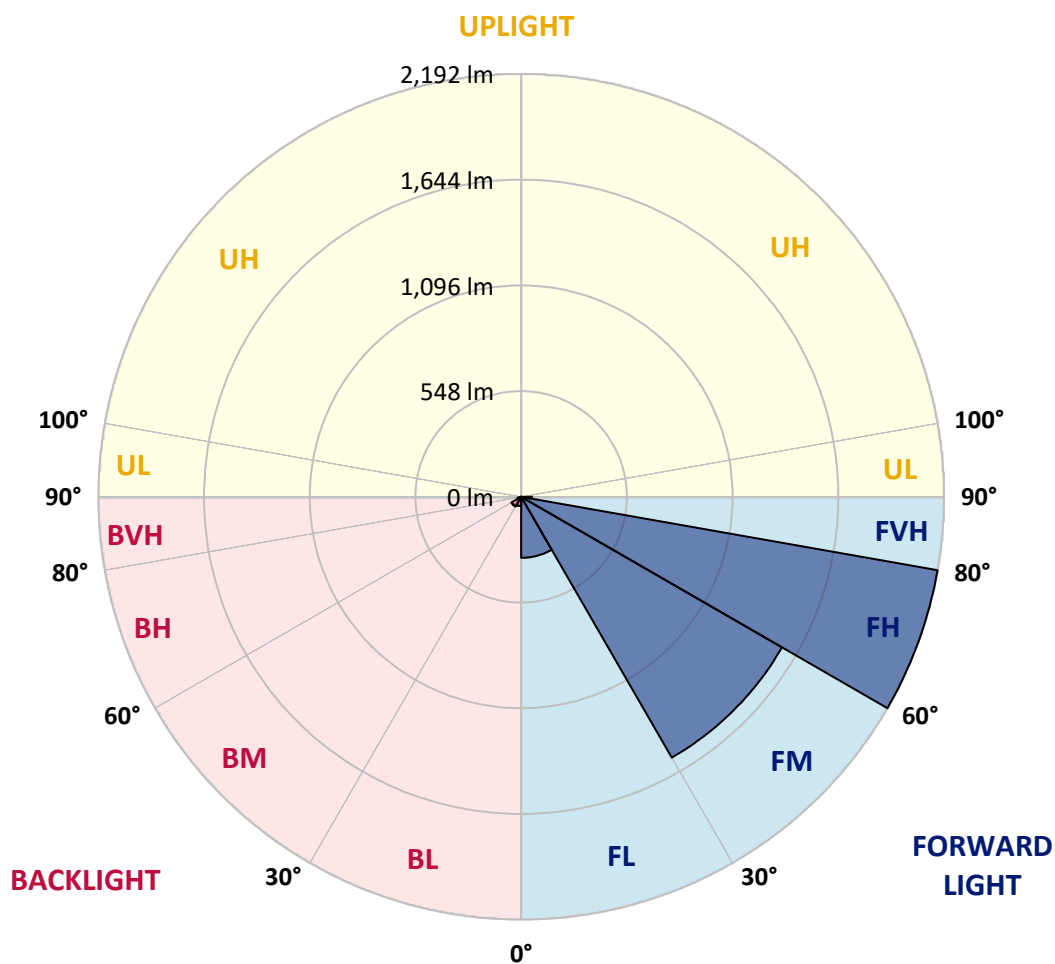
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	316.5	7.4			
FM	(30°-60°)	1561.4	36.7			
FH	(60°-80°)	2192.1	51.5			G2/5000
FVH	(80°-90°)	56.5	1.3			G1/100
BL	(0°-30°)	48.2	1.1	B0/110		
BM	(30°-60°)	57.8	1.4	B0/220		
BH	(60°-80°)	18.5	0.4	B0/110		G0/110
BVH	(80°-90°)	2.2	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°	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2
2.5°	428.5	423.6	418.0	418.0	411.1	411.1	406.9	395.8	394.3	388.1	381.8
5°	546.9	542.8	535.8	529.5	523.9	514.2	507.3	494.0	479.4	465.4	452.8
7.5°	662.6	660.5	648.0	645.9	636.8	620.8	606.8	587.4	562.3	542.8	519.8
10°	769.8	765.0	762.3	750.4	737.1	719.7	698.1	674.4	645.2	614.5	581.8
12.5°	854.9	852.1	839.6	834.7	820.7	803.3	776.2	745.5	716.3	676.6	638.2
15°	918.3	913.5	905.1	897.4	880.7	865.4	840.3	806.8	771.3	728.1	682.1
17.5°	971.3	962.2	960.1	948.3	930.9	912.7	884.9	854.2	812.4	769.2	719.1
20°	1042.3	1029.7	1025.6	1008.2	988.0	962.9	930.9	892.5	848.6	801.2	749.6
22.5°	1125.9	1116.9	1107.8	1092.4	1066.7	1031.2	984.5	942.7	886.9	834.7	779.0
25°	1244.4	1236.7	1222.1	1201.1	1169.1	1126.6	1070.2	1008.9	943.4	876.5	811.0
27.5°	1359.4	1352.3	1341.9	1325.9	1289.6	1243.0	1173.3	1095.2	1012.3	931.5	859.1
30°	1467.4	1461.0	1450.6	1434.6	1402.5	1356.6	1277.8	1194.2	1091.1	997.0	909.9
32.5°	1583.7	1581.6	1569.7	1546.7	1518.9	1456.9	1371.2	1281.3	1176.8	1068.1	966.3
35°	1715.3	1699.4	1688.2	1665.2	1617.8	1551.6	1451.3	1353.1	1243.0	1131.5	1017.9
37.5°	1826.8	1811.5	1797.6	1768.3	1710.5	1626.2	1512.6	1404.7	1291.1	1177.5	1061.9
40°	1908.4	1900.7	1883.9	1845.7	1780.8	1680.5	1557.9	1440.1	1325.9	1211.6	1097.4
42.5°	1969.0	1957.1	1938.3	1898.7	1822.0	1707.7	1576.1	1454.8	1341.9	1232.5	1120.3
45°	1991.3	1981.6	1964.1	1920.9	1838.0	1715.3	1575.3	1450.6	1342.6	1238.8	1135.6
47.5°	1978.0	1968.3	1953.0	1912.5	1831.0	1706.3	1562.8	1438.8	1335.6	1240.9	1149.6
50°	1934.1	1928.6	1916.7	1882.6	1809.4	1688.9	1551.6	1432.5	1334.2	1251.3	1169.1
52.5°	1929.9	1926.4	1911.8	1877.7	1803.1	1683.3	1550.3	1436.0	1346.1	1264.6	1183.0
55°	2358.4	2309.0	2198.2	2104.1	1949.4	1765.5	1620.6	1492.4	1396.3	1316.8	1259.7
57.5°	3352.0	3278.1	3132.5	2953.5	2598.1	2249.0	1969.6	1767.7	1668.0	1631.7	1653.4
60°	3817.4	3804.1	3781.1	3696.2	3514.3	3214.0	2879.6	2518.0	2373.1	2360.5	2404.5
62.5°	4038.2	4029.9	4036.9	4026.4	3969.9	3882.2	3786.0	3629.9	3486.4	3393.8	3197.3
65°	4140.0	4145.6	4185.3	4216.7	4223.6	4246.6	4317.0	4511.4	4653.5	4414.5	3869.0
67.5°	3881.6	3914.3	4005.5	4119.8	4253.6	4383.2	4592.2	5001.9	5293.8	5013.1	4238.2
69°	3213.4	3229.3	3452.3	3667.6	3994.4	4222.9	4526.0	5063.2	5391.3	5074.3	4209.0
70°	2529.8	2544.5	2783.4	3076.1	3628.6	3922.6	4319.1	4959.4	5300.1	4992.8	4058.4
72.5°	1141.2	1120.3	1204.7	1361.5	1962.0	2428.8	3122.1	4018.0	4372.7	4000.0	3036.4
75°	797.1	788.0	797.1	797.7	891.1	1149.6	1450.6	2178.0	2693.6	2324.4	1450.6
77.5°	617.3	611.1	604.8	597.8	608.9	682.1	711.4	772.6	1003.3	948.9	553.2
80°	488.4	482.8	498.1	493.3	493.3	501.7	496.1	473.1	429.8	398.5	356.7
82.5°	227.2	228.5	228.5	248.1	298.9	349.0	365.1	342.1	303.7	258.4	208.3
85°	21.6	24.4	41.1	63.4	126.1	142.2	142.8	118.4	118.4	93.4	75.2
87.5°	0.0	0.7	0.7	0.7	6.3	17.4	14.6	4.1	2.1	2.1	3.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2
2.5°	370.7	368.6	360.2	351.8	344.1	335.9	328.2	320.5	312.1	305.9	298.2
5°	433.4	418.0	400.6	383.9	367.2	349.7	331.6	315.6	298.9	283.5	268.9
7.5°	496.8	466.8	443.1	413.2	386.0	358.9	333.8	308.0	284.2	262.0	241.0
10°	550.5	514.2	477.3	439.0	399.9	363.7	328.8	298.2	266.8	239.7	213.9
12.5°	594.3	548.3	503.0	454.9	411.1	365.1	321.9	285.0	248.1	217.4	190.9
15°	634.0	581.0	526.7	471.0	415.2	363.0	314.9	268.9	231.3	196.5	166.5
17.5°	666.1	605.5	544.1	481.5	421.6	360.2	305.9	257.8	213.9	177.6	148.4
20°	694.0	630.6	564.4	494.0	425.7	359.5	298.2	243.8	198.5	160.2	131.7
22.5°	719.7	656.4	585.3	510.1	432.0	358.9	291.2	233.4	185.3	147.0	118.4
25°	749.0	682.1	607.6	526.7	443.1	361.6	287.0	225.1	173.5	134.5	108.0
27.5°	781.8	711.4	634.0	547.7	457.7	367.2	285.7	216.0	163.0	122.6	99.6
30°	827.8	746.2	660.5	568.5	471.0	373.5	284.2	210.4	152.5	113.6	91.3
32.5°	868.1	780.3	689.7	590.2	485.6	379.7	283.5	202.8	142.8	104.6	85.0
35°	910.7	811.7	714.8	611.1	498.1	386.7	282.9	197.2	133.8	95.4	78.8
37.5°	947.6	838.1	734.4	629.1	512.1	393.0	283.5	192.3	125.4	87.8	73.2
40°	979.0	865.4	756.0	645.9	526.7	402.7	284.2	187.5	117.1	80.8	68.3
42.5°	1006.7	891.1	779.0	664.7	543.4	413.9	288.5	183.2	110.1	74.5	63.4
45°	1028.4	914.8	804.0	691.2	570.7	432.0	296.1	180.4	103.1	69.0	59.2
47.5°	1050.7	949.6	846.5	733.0	610.4	460.5	309.3	179.8	97.5	64.8	55.8
50°	1081.3	984.5	884.1	775.4	646.5	489.8	325.4	180.4	90.6	60.6	52.2
52.5°	1103.6	1020.0	933.0	849.3	733.0	579.0	387.4	193.0	87.0	57.1	48.1
55°	1235.3	1220.7	1222.8	1236.7	1146.8	985.2	648.0	278.7	102.4	64.8	47.4
57.5°	1741.9	1793.4	1823.3	1822.7	1674.3	1388.6	870.3	358.1	114.3	75.2	56.5
60°	2407.9	2368.9	2313.9	2178.0	1980.8	1585.1	973.4	385.3	99.0	59.9	51.6
62.5°	2996.7	2768.1	2565.4	2345.2	2086.7	1653.4	994.2	383.2	86.4	45.3	36.3
65°	3363.8	2952.7	2625.3	2349.4	2044.9	1596.3	940.6	351.8	73.2	36.9	29.9
67.5°	3451.6	2853.2	2389.8	2037.9	1708.4	1242.3	690.5	264.8	57.1	30.7	26.4
69°	3260.0	2536.2	1980.1	1580.9	1243.0	824.2	427.2	167.3	43.9	27.9	24.4
70°	2998.8	2205.9	1613.0	1268.7	920.4	579.0	298.9	117.7	35.5	25.8	22.3
72.5°	1929.2	1158.7	792.8	551.8	379.7	230.6	117.1	53.0	27.2	21.6	18.1
75°	748.3	428.5	310.8	236.2	184.7	128.2	71.1	34.1	23.0	18.1	13.9
77.5°	368.6	282.2	230.6	158.1	92.0	57.1	38.3	26.4	18.9	13.3	9.0
80°	291.2	193.7	115.6	71.8	54.3	41.1	29.2	21.6	13.9	8.4	6.3
82.5°	149.1	81.6	59.9	48.8	40.4	32.0	23.7	15.3	9.0	5.6	4.9
85°	46.6	34.1	30.7	29.9	27.9	23.0	16.7	9.7	5.6	3.5	3.5
87.5°	3.5	4.9	6.3	4.9	5.6	4.9	6.3	4.1	2.8	2.8	2.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2
2.5°	292.6	284.2	276.6	271.7	262.7	259.2	255.8	254.3	248.1	249.4	243.8
5°	255.8	241.0	229.9	218.8	208.3	200.6	194.4	186.7	180.4	177.6	172.1
7.5°	222.3	203.4	188.8	177.0	164.5	154.7	146.3	140.7	135.1	129.6	126.8
10°	193.0	172.7	156.1	144.2	132.3	124.0	117.7	113.6	110.1	108.0	107.3
12.5°	165.8	146.3	131.0	120.5	111.5	107.3	104.6	102.4	101.8	101.0	101.0
15°	144.9	125.4	113.6	105.9	101.8	99.6	99.0	97.5	96.2	95.4	95.4
17.5°	125.4	110.8	102.4	98.2	96.2	94.7	93.4	92.0	90.6	89.8	89.8
20°	112.1	100.3	96.2	93.4	91.3	89.8	87.8	86.4	85.7	85.0	84.4
22.5°	101.8	94.1	91.3	89.2	86.4	84.4	82.9	81.6	80.1	79.4	78.8
25°	94.1	89.2	87.0	84.4	81.6	79.4	77.3	75.2	73.9	73.2	71.8
27.5°	88.5	85.0	82.2	78.8	76.0	73.9	71.8	69.6	68.3	66.8	66.2
30°	83.6	80.1	76.7	73.9	70.4	68.3	65.5	63.4	62.7	61.3	59.9
32.5°	78.8	75.2	71.8	68.3	64.8	62.0	60.6	57.8	56.5	55.8	54.3
35°	73.2	69.6	65.5	62.7	59.2	56.5	54.3	52.2	50.9	49.4	48.8
37.5°	68.3	64.1	59.9	56.5	53.7	50.9	48.8	46.6	45.3	43.9	43.2
40°	62.7	58.5	54.3	50.9	48.1	46.0	43.9	41.8	40.4	39.7	39.7
42.5°	57.8	53.0	48.8	46.0	43.9	41.1	39.1	36.9	36.3	35.5	36.3
45°	53.0	48.1	44.6	41.8	39.7	36.9	34.8	33.5	32.7	33.5	34.1
47.5°	48.8	43.9	40.4	38.3	36.3	34.1	32.0	30.7	30.7	32.0	33.5
50°	44.6	39.7	36.9	35.5	33.5	31.4	28.6	27.9	28.6	29.9	31.4
52.5°	40.4	34.8	32.7	32.0	29.9	27.9	25.8	25.1	25.8	27.2	26.4
55°	36.3	30.7	29.9	29.2	27.2	24.4	22.3	22.3	22.3	21.6	20.2
57.5°	34.8	27.2	26.4	25.8	23.7	20.9	19.5	18.1	17.4	15.3	14.6
60°	36.3	24.4	24.4	23.0	20.9	18.1	16.1	13.9	12.5	11.2	11.2
62.5°	29.2	22.3	21.6	20.2	17.4	14.6	12.5	10.5	9.7	9.0	9.0
65°	23.7	20.2	18.9	16.7	14.6	11.8	9.7	8.4	7.7	7.7	8.4
67.5°	21.6	18.1	16.1	13.9	11.8	9.0	7.7	6.9	6.9	7.7	7.7
69°	20.2	16.7	14.6	12.5	10.5	8.4	6.9	6.9	6.9	6.9	7.7
70°	18.9	16.1	13.9	11.8	9.0	6.9	6.3	6.3	6.9	6.9	7.7
72.5°	14.6	12.5	11.8	9.7	6.9	6.3	5.6	6.3	6.3	6.9	6.9
75°	11.2	9.0	9.0	7.7	5.6	4.9	4.9	5.6	5.6	6.3	6.3
77.5°	7.7	6.3	6.3	5.6	4.9	4.1	4.1	4.9	5.6	5.6	6.3
80°	5.6	4.9	4.1	4.9	4.1	3.5	4.1	4.9	4.9	5.6	5.6
82.5°	4.1	4.1	4.1	4.1	3.5	3.5	4.1	4.1	4.9	5.6	5.6
85°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.1	4.1	4.9	4.9
87.5°	2.1	2.1	2.1	2.8	2.8	3.5	3.5	3.5	3.5	4.1	4.1
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):

	165°	170°	175°	180°
0°	321.2	321.2	321.2	321.2
2.5°	242.5	241.8	239.0	239.7
5°	170.1	165.8	168.6	167.9
7.5°	124.8	124.0	123.3	124.8
10°	106.6	106.6	105.9	106.6
12.5°	100.3	100.3	100.3	100.3
15°	95.4	95.4	94.7	94.7
17.5°	89.8	89.8	89.8	89.2
20°	84.4	83.6	83.6	83.6
22.5°	78.0	77.3	77.3	77.3
25°	71.8	71.1	71.1	71.1
27.5°	65.5	64.8	64.1	64.1
30°	59.2	58.5	57.8	57.8
32.5°	53.0	52.2	51.6	51.6
35°	47.4	47.4	46.6	46.0
37.5°	42.5	42.5	42.5	42.5
40°	39.1	39.7	39.7	39.7
42.5°	36.9	37.6	38.3	39.1
45°	35.5	36.9	37.6	37.6
47.5°	34.8	35.5	36.3	36.3
50°	32.0	31.4	31.4	31.4
52.5°	25.8	24.4	23.7	23.0
55°	18.9	18.1	16.7	16.7
57.5°	13.3	13.3	12.5	12.5
60°	10.5	10.5	9.7	10.5
62.5°	9.0	9.0	9.0	9.0
65°	8.4	8.4	8.4	8.4
67.5°	8.4	8.4	8.4	8.4
69°	7.7	7.7	7.7	7.7
70°	7.7	7.7	7.7	7.7
72.5°	6.9	6.9	6.9	6.9
75°	6.3	6.9	6.9	6.9
77.5°	6.3	6.3	6.3	6.3
80°	5.6	5.6	6.3	6.3
82.5°	5.6	5.6	5.6	5.6
85°	4.9	4.9	5.6	5.6
87.5°	4.1	4.1	4.9	4.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)