

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: P149340

Luminaire Tested: **VXS-E06-LED-E1-SL2-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149340
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: VXS-E06-LED-E1-SL2-HSS
Description: VISION SITE SMALL LED LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (126) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11001.4 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
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



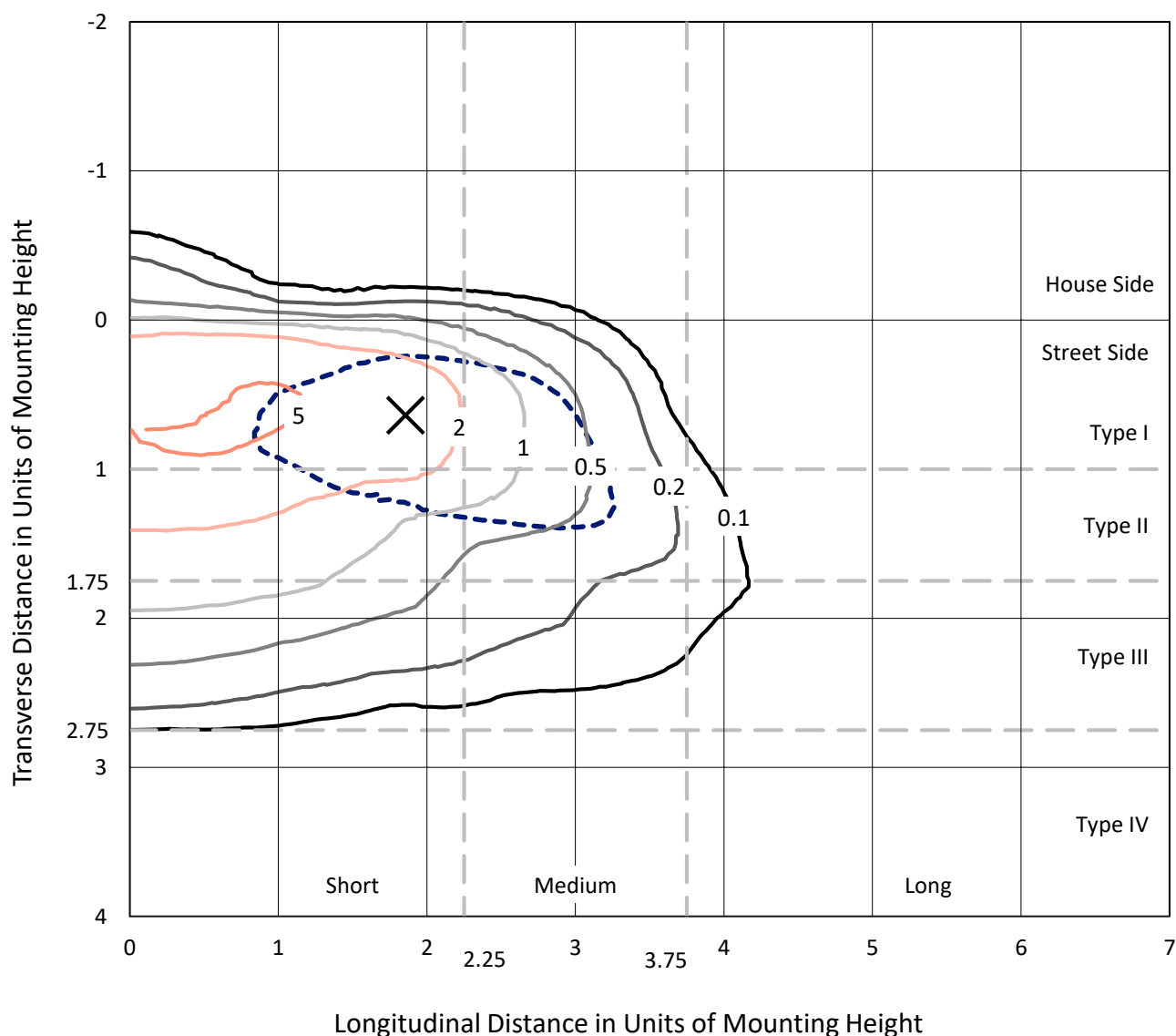
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

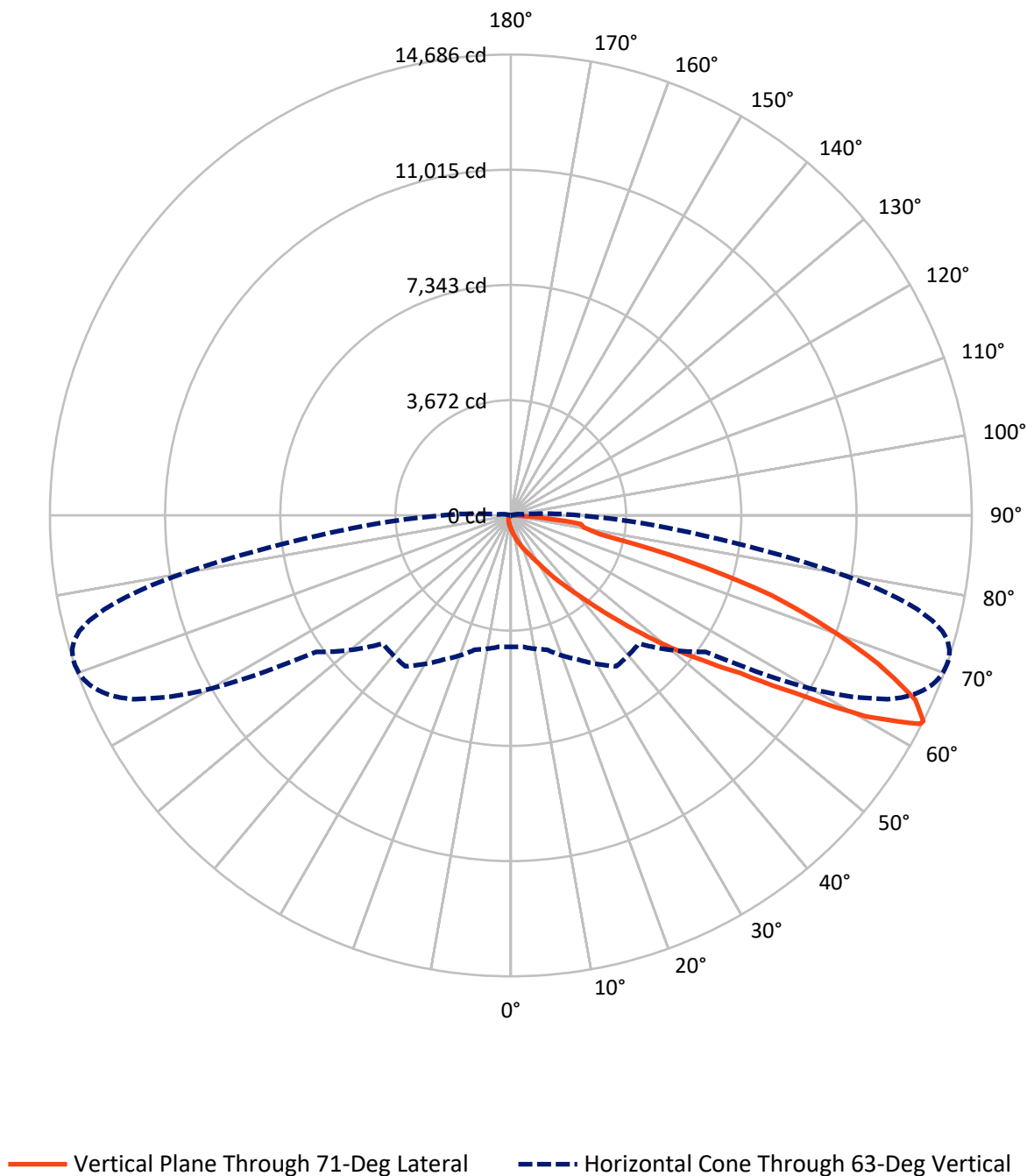


Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	233.6	0.0	233.6
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	10767.9	0.0	10767.9
	% Fixture	97.9	0.0	97.9
Total	Lumens	11001.4	0.0	11001.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	0.4
10°-20°	180.9	1.6
20°-30°	367.4	3.3
30°-40°	897.7	8.2
40°-50°	2007.6	18.2
50°-60°	2822.9	25.7
60°-70°	3319.5	30.2
70°-80°	1198.6	10.9
80°-90°	160.3	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°	11001.4	100.0
0°-180°	11001.4	100.0

Coefficient of Utilization



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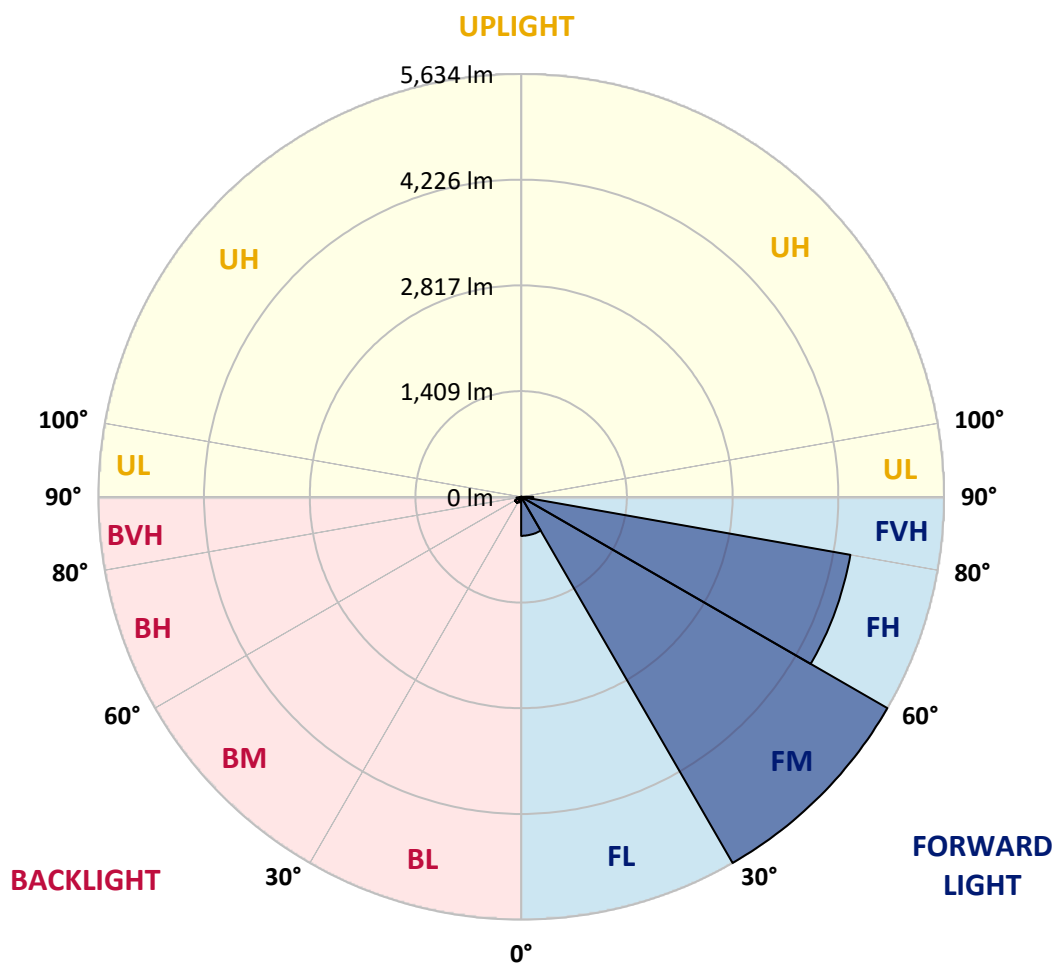
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	519.9	4.7			
FM	(30°-60°)	5634.0	51.2			
FH	(60°-80°)	4454.1	40.5			G2/5000
FVH	(80°-90°)	159.9	1.5			G2/225
BL	(0°-30°)	75.1	0.7	B0/110		
BM	(30°-60°)	94.1	0.9	B0/220		
BH	(60°-80°)	64.0	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°	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0
2.5°	552.0	558.0	554.0	544.0	532.0	516.0	502.0	502.0	500.0	494.0	496.0
5°	724.0	726.0	718.0	694.0	672.0	638.0	600.0	596.0	592.0	586.0	584.0
7.5°	892.0	900.0	892.0	866.0	822.0	769.9	710.1	704.0	692.0	692.0	684.0
10°	1064.0	1064.0	1056.0	1026.0	986.0	912.0	836.0	826.0	812.0	808.0	796.0
12.5°	1186.0	1186.0	1182.0	1166.0	1134.0	1068.0	976.0	966.0	948.0	942.0	928.0
15°	1234.0	1234.0	1236.0	1249.9	1252.0	1222.0	1126.0	1118.0	1100.0	1084.0	1078.0
17.5°	1264.0	1262.0	1262.0	1282.0	1318.0	1338.0	1276.0	1268.0	1248.0	1240.0	1220.0
20°	1329.9	1326.0	1314.0	1314.0	1348.0	1418.0	1418.0	1416.0	1394.0	1388.0	1378.0
22.5°	1428.0	1424.0	1388.0	1358.0	1374.0	1462.0	1544.0	1540.0	1532.0	1524.0	1518.0
25°	1588.0	1574.0	1512.0	1424.0	1409.9	1504.0	1640.0	1649.9	1656.0	1656.0	1660.0
27.5°	1830.1	1812.0	1702.0	1538.0	1476.0	1572.0	1746.0	1766.0	1784.0	1788.0	1806.0
30°	2166.0	2134.0	1976.0	1736.0	1594.0	1672.0	1902.0	1924.0	1950.1	1958.0	1986.0
32.5°	2718.0	2700.0	2548.0	2188.0	1884.0	1868.0	2120.0	2148.0	2182.0	2196.0	2230.1
35°	3558.0	3562.0	3438.0	3114.0	2694.0	2474.0	2510.1	2534.0	2546.0	2588.0	2606.0
37.5°	4128.0	4138.0	4166.0	4038.0	3738.0	3514.0	3232.0	3258.0	3196.0	3202.0	3204.0
40°	4440.0	4472.0	4636.0	4760.0	4736.0	4606.0	4380.0	4394.0	4278.0	4252.0	4126.0
42.5°	4648.0	4689.9	4952.0	5336.0	5532.0	5649.9	5598.0	5592.0	5502.0	5468.0	5362.0
45°	4778.0	4816.0	5146.0	5712.0	6164.0	6508.0	6649.9	6666.0	6589.9	6556.0	6468.0
47.5°	4772.0	4816.0	5169.9	5852.0	6518.0	7068.0	7468.0	7488.0	7534.0	7504.0	7510.1
50°	4508.0	4550.1	4906.0	5614.0	6414.0	7324.0	8056.0	8120.0	8194.0	8244.0	8268.0
52.5°	4188.0	4218.0	4534.0	5206.0	5969.9	7218.0	8404.0	8514.0	8624.0	8718.0	8784.0
55°	4070.1	4104.0	4352.0	4910.1	5614.0	6774.0	8566.0	8728.0	8884.0	9038.0	9164.0
57.5°	4132.0	4164.0	4342.0	4769.9	5402.0	6306.0	8612.0	8864.0	9120.0	9369.9	9618.0
60°	4360.0	4394.0	4546.0	4900.0	5346.0	6036.0	8432.0	8849.9	9276.0	9712.0	10122.0
62.5°	4270.1	4284.0	4508.0	5128.0	5746.0	5806.0	7778.0	8362.0	9012.0	9684.0	10346.0
63°	4184.0	4200.0	4428.0	5066.0	5868.0	5772.0	7576.0	8192.0	8878.0	9602.0	10322.0
65°	3794.0	3796.0	3969.9	4474.0	5732.0	5832.0	6676.0	7264.0	8052.0	8920.0	9829.9
67.5°	2832.0	2818.0	2986.0	3369.9	4500.0	5834.0	5729.9	6060.0	6608.0	7378.0	8194.0
70°	1004.0	982.0	1254.0	1786.0	2804.0	4772.0	4924.0	4946.0	5098.0	5514.0	6026.0
72.5°	326.0	332.0	400.0	654.0	1292.0	3212.0	4458.0	4389.9	4350.1	4348.0	4416.0
75°	129.9	132.0	160.0	289.9	580.0	1548.0	3904.0	3942.0	3956.0	3976.0	3998.0
77.5°	62.0	68.0	89.9	162.0	288.0	766.0	2794.0	3116.0	3300.0	3442.0	3528.0
80°	22.0	26.0	49.9	100.0	134.0	352.0	1472.0	1776.0	2046.0	2394.0	2694.0
82.5°	0.0	0.0	9.9	70.1	74.0	142.0	604.0	708.0	809.9	1049.9	1348.0
85°	0.0	0.0	0.0	20.0	22.0	24.0	204.0	246.0	276.0	322.0	372.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.0	12.0	30.1	46.0
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0
2.5°	492.0	489.9	489.9	486.0	484.0	480.0	478.0	472.0	470.1	470.1	470.1
5°	582.0	574.0	569.9	560.0	554.0	552.0	542.0	538.0	532.0	534.0	524.0
7.5°	682.0	668.0	662.0	648.0	644.0	629.9	626.0	616.0	609.9	598.0	594.0
10°	792.0	774.0	764.0	742.0	736.0	726.0	714.0	702.0	692.0	680.0	674.0
12.5°	918.0	902.0	894.0	864.0	849.9	836.0	820.0	804.0	788.0	778.0	764.0
15°	1066.0	1040.0	1032.0	1004.0	980.0	962.0	940.0	920.0	908.0	888.0	874.0
17.5°	1212.0	1186.0	1180.0	1138.0	1112.0	1100.0	1076.0	1049.9	1028.0	1008.0	986.0
20°	1358.0	1340.0	1324.0	1284.0	1256.0	1236.0	1204.0	1178.0	1160.0	1132.0	1104.0
22.5°	1504.0	1486.0	1474.0	1432.0	1406.0	1378.0	1350.1	1322.0	1296.0	1262.0	1230.1
25°	1654.0	1642.0	1636.0	1598.0	1574.0	1548.0	1520.0	1488.0	1456.0	1418.0	1384.0
27.5°	1809.9	1814.0	1802.0	1794.0	1768.0	1750.1	1706.0	1684.0	1660.0	1614.0	1572.0
30°	2008.0	2020.0	2016.0	2022.0	2006.0	1994.0	1960.0	1932.0	1904.0	1860.0	1812.0
32.5°	2258.0	2274.0	2282.0	2304.0	2296.0	2292.0	2282.0	2242.0	2222.0	2146.0	2126.0
35°	2644.0	2636.0	2669.9	2688.0	2680.0	2676.0	2664.0	2642.0	2618.0	2564.0	2514.0
37.5°	3146.0	3154.0	3166.0	3129.9	3106.0	3104.0	3068.0	3046.0	3012.0	2952.0	2892.0
40°	4066.0	4016.0	3960.0	3808.0	3742.0	3704.0	3598.0	3568.0	3510.1	3428.0	3366.0
42.5°	5262.0	5212.0	5044.0	4789.9	4654.0	4466.0	4380.0	4274.0	4192.0	4058.0	3986.0
45°	6449.9	6306.0	6286.0	5989.9	5822.0	5574.0	5420.0	5242.0	5056.0	4880.0	4752.0
47.5°	7452.0	7420.0	7322.0	7142.0	6986.0	6778.0	6580.0	6306.0	6114.0	5864.0	5634.0
50°	8254.0	8252.0	8216.0	8112.0	7982.0	7814.0	7640.0	7408.0	7190.1	6884.0	6638.0
52.5°	8854.0	8886.0	8898.0	8866.0	8816.0	8668.0	8580.0	8386.0	8202.0	7942.0	7676.0
55°	9294.0	9412.0	9472.0	9540.0	9526.0	9474.0	9470.1	9344.0	9260.0	9054.0	8866.0
57.5°	9838.0	10032.0	10218.0	10548.0	10560.0	10676.0	10736.0	10796.0	10812.0	10729.9	10668.0
60°	10529.9	10926.0	11278.0	11968.0	12148.0	12432.0	12616.0	12816.0	12986.0	13000.0	12996.0
62.5°	11018.0	11628.0	12196.0	13220.0	13569.9	13898.0	14144.0	14338.0	14456.0	14576.0	14632.0
63°	11032.0	11700.0	12304.0	13360.0	13728.0	14040.0	14274.0	14454.0	14578.0	14649.9	14686.0
65°	10694.0	11504.0	12224.0	13276.0	13622.0	13936.0	14058.0	14176.0	14236.0	14264.0	14158.0
67.5°	9064.0	9856.0	10696.0	11872.0	12168.0	12544.0	12644.0	12704.0	12732.0	12726.0	12636.0
70°	6778.0	7442.0	8376.0	9720.0	10112.0	10480.0	10708.0	10806.0	10838.0	10828.0	10694.0
72.5°	4732.0	5122.0	5892.0	7388.0	7922.0	8394.0	8676.0	8822.0	8852.0	8792.0	8668.0
75°	3974.0	3994.0	4168.0	4986.0	5486.0	5989.9	6308.0	6400.0	6340.0	6158.0	5842.0
77.5°	3548.0	3592.0	3592.0	3714.0	3812.0	3952.0	3982.0	3758.0	3498.0	3162.0	2889.9
80°	2976.0	3129.9	3238.0	3328.0	3338.0	3310.1	3236.0	3110.1	2910.1	2654.0	2369.9
82.5°	1808.0	2112.0	2236.0	2700.0	2928.0	3082.0	3069.9	2902.0	2750.1	2484.0	2242.0
85°	456.0	492.0	534.0	694.0	778.0	950.1	1058.0	1108.0	1126.0	1034.0	936.0
87.5°	44.0	30.1	49.9	38.0	54.0	40.0	54.0	49.9	62.0	66.0	72.0
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0
2.5°	466.0	464.0	462.0	460.0	458.0	456.0	452.0	452.0	448.0	446.0	444.0
5°	518.0	514.0	512.0	508.0	502.0	498.0	492.0	484.0	478.0	476.0	472.0
7.5°	584.0	574.0	569.9	564.0	556.0	544.0	536.0	529.9	520.0	514.0	502.0
10°	658.0	648.0	636.0	624.0	612.0	598.0	588.0	580.0	564.0	556.0	542.0
12.5°	752.0	734.0	720.0	704.0	688.0	672.0	660.0	636.0	622.0	604.0	592.0
15°	848.0	832.0	816.0	796.0	772.0	746.0	734.0	712.0	694.0	666.0	649.9
17.5°	964.0	934.0	910.1	886.0	864.0	840.0	816.0	782.0	756.0	732.0	700.0
20°	1078.0	1042.0	1016.0	984.0	952.0	914.0	886.0	862.0	826.0	794.0	760.0
22.5°	1200.0	1164.0	1122.0	1089.9	1046.0	1016.0	978.0	938.0	902.0	860.0	818.0
25°	1348.0	1309.9	1262.0	1220.0	1169.9	1128.0	1082.0	1036.0	992.0	944.0	889.9
27.5°	1529.9	1489.9	1438.0	1388.0	1322.0	1270.1	1226.0	1164.0	1108.0	1048.0	986.0
30°	1760.0	1716.0	1652.0	1580.0	1514.0	1456.0	1394.0	1312.0	1249.9	1178.0	1098.0
32.5°	2060.0	2008.0	1922.0	1854.0	1772.0	1696.0	1609.9	1528.0	1440.0	1346.0	1254.0
35°	2438.0	2390.1	2289.9	2190.1	2100.0	2009.9	1902.0	1808.0	1684.0	1569.9	1452.0
37.5°	2830.1	2744.0	2652.0	2544.0	2432.0	2324.0	2192.0	2062.0	1920.0	1796.0	1648.0
40°	3278.0	3174.0	3098.0	2982.0	2824.0	2669.9	2548.0	2386.0	2208.0	2042.0	1868.0
42.5°	3892.0	3776.0	3640.0	3464.0	3350.1	3169.9	3012.0	2820.0	2586.0	2400.0	2190.1
45°	4602.0	4444.0	4312.0	4142.0	4004.0	3780.0	3596.0	3340.0	3106.0	2862.0	2606.0
47.5°	5412.0	5216.0	5024.0	4856.0	4636.0	4416.0	4182.0	3910.1	3609.9	3342.0	3038.0
50°	6342.0	6064.0	5798.0	5582.0	5280.0	5026.0	4772.0	4466.0	4134.0	3826.0	3480.0
52.5°	7376.0	7054.0	6702.0	6369.9	6020.0	5694.0	5388.0	5036.0	4666.0	4289.9	3904.0
55°	8624.0	8382.0	7968.0	7546.0	7078.0	6642.0	6248.0	5812.0	5362.0	4868.0	4462.0
57.5°	10578.0	10460.0	10114.0	9692.0	9082.0	8552.0	7884.0	7350.1	6698.0	6018.0	5494.0
60°	13226.0	13080.0	12886.0	12544.0	12060.0	11340.0	10604.0	9774.0	8782.0	7840.0	6946.0
62.5°	14638.0	14586.0	14428.0	14192.0	13740.0	13172.0	12429.9	11518.0	10398.0	9254.0	8114.0
63°	14680.0	14614.0	14478.0	14238.0	13840.0	13289.9	12562.0	11676.0	10580.0	9414.0	8249.9
65°	14112.0	14086.0	13948.0	13686.0	13414.0	12994.0	12429.9	11668.0	10748.0	9646.0	8488.0
67.5°	12516.0	12438.0	12226.0	12146.0	11956.0	11664.0	11234.0	10710.1	10052.0	9186.0	8186.0
70°	10586.0	10470.1	10204.0	10062.0	9829.9	9646.0	9384.0	9009.9	8604.0	8000.0	7254.0
72.5°	8540.0	8300.0	8056.0	7686.0	7362.0	7034.0	6744.0	6480.0	6034.0	5789.9	5224.0
75°	5546.0	5110.1	4692.0	4132.0	3628.0	3182.0	2748.0	2528.0	2070.1	1884.0	1618.0
77.5°	2632.0	2388.0	2060.0	1806.0	1482.0	1209.9	988.0	742.0	582.0	456.0	348.0
80°	2124.0	1918.0	1720.0	1489.9	1246.0	994.0	762.0	569.9	404.0	280.0	198.0
82.5°	1894.0	1670.1	1426.0	1268.0	1102.0	902.0	740.0	604.0	446.0	326.0	222.0
85°	736.0	620.0	478.0	389.9	304.0	249.9	226.0	156.0	122.0	96.0	74.0
87.5°	64.0	52.0	42.0	28.0	30.1	16.0	18.0	12.0	9.9	9.9	8.0
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0
2.5°	442.0	440.0	438.0	434.0	434.0	430.1	428.0	426.0	416.0	394.0	376.0
5°	464.0	460.0	456.0	449.9	446.0	440.0	436.0	430.1	408.0	366.0	329.9
7.5°	496.0	488.0	482.0	470.1	464.0	456.0	449.9	440.0	404.0	340.0	289.9
10°	534.0	520.0	510.1	496.0	484.0	474.0	464.0	449.9	400.0	312.0	254.0
12.5°	580.0	564.0	544.0	528.0	512.0	498.0	484.0	466.0	394.0	288.0	226.0
15°	626.0	602.0	588.0	566.0	544.0	524.0	504.0	488.0	396.0	262.0	202.0
17.5°	678.0	654.0	624.0	600.0	576.0	550.1	526.0	494.0	386.0	242.0	184.0
20°	728.0	694.0	666.0	636.0	602.0	569.9	540.0	512.0	378.0	222.0	168.0
22.5°	782.0	742.0	706.0	668.0	626.0	590.1	554.0	518.0	364.0	204.0	154.0
25°	848.0	802.0	750.1	704.0	660.0	616.0	569.9	526.0	350.1	188.0	144.0
27.5°	928.0	868.0	816.0	758.0	696.0	640.0	590.1	542.0	336.0	176.0	134.0
30°	1030.1	960.0	886.0	812.0	746.0	682.0	612.0	552.0	322.0	164.0	124.0
32.5°	1166.0	1078.0	988.0	902.0	814.0	732.0	658.0	580.0	314.0	154.0	114.0
35°	1346.0	1232.0	1122.0	1014.0	908.0	808.0	712.0	624.0	314.0	142.0	102.0
37.5°	1516.0	1384.0	1244.0	1109.9	984.0	868.0	754.0	648.0	298.0	132.0	92.0
40°	1700.0	1542.0	1378.0	1220.0	1068.0	924.0	794.0	672.0	284.0	120.0	82.0
42.5°	1982.0	1782.0	1568.0	1384.0	1202.0	1024.0	862.0	718.0	266.0	108.0	72.0
45°	2352.0	2098.0	1846.0	1622.0	1390.1	1172.0	980.0	802.0	262.0	98.0	62.0
47.5°	2748.0	2448.0	2152.0	1866.0	1594.0	1340.0	1109.9	896.0	262.0	88.0	54.0
50°	3142.0	2766.0	2449.9	2118.0	1812.0	1512.0	1238.0	994.0	264.0	80.0	44.0
52.5°	3498.0	3096.0	2742.0	2358.0	2020.0	1672.0	1374.0	1089.9	260.0	70.1	36.0
55°	3992.0	3520.0	3110.1	2686.0	2289.9	1898.0	1560.0	1234.0	262.0	62.0	30.1
57.5°	4902.0	4348.0	3854.0	3298.0	2842.0	2336.0	1926.0	1529.9	286.0	52.0	22.0
60°	6208.0	5488.0	4794.0	4116.0	3536.0	2934.0	2402.0	1936.0	336.0	42.0	16.0
62.5°	7086.0	6144.0	5316.0	4568.0	3894.0	3264.0	2684.0	2154.0	369.9	34.0	9.9
63°	7176.0	6202.0	5369.9	4598.0	3910.1	3280.0	2696.0	2169.9	372.0	32.0	9.9
65°	7346.0	6302.0	5400.0	4604.0	3894.0	3258.0	2688.0	2168.0	376.0	26.0	8.0
67.5°	7152.0	6148.0	5226.0	4432.0	3754.0	3128.0	2588.0	2088.0	374.0	18.0	6.0
70°	6396.0	5564.0	4754.0	4014.0	3398.0	2832.0	2356.0	1904.0	344.0	12.0	4.0
72.5°	4696.0	4129.9	3502.0	2968.0	2560.0	2126.0	1814.0	1430.1	266.0	8.0	2.0
75°	1392.0	1268.0	1066.0	940.0	829.9	686.0	609.9	476.0	136.0	4.0	0.0
77.5°	278.0	252.0	226.0	206.0	194.0	166.0	158.0	129.9	56.0	2.0	0.0
80°	146.0	120.0	102.0	89.9	78.0	64.0	54.0	44.0	9.9	0.0	0.0
82.5°	140.0	94.0	68.0	56.0	48.0	38.0	30.1	22.0	6.0	0.0	0.0
85°	52.0	40.0	30.1	24.0	20.0	18.0	14.0	12.0	0.0	0.0	0.0
87.5°	8.0	6.0	6.0	4.0	4.0	2.0	2.0	2.0	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):

	125°	135°	145°	155°	165°	175°	180°
0°	422.0	422.0	422.0	422.0	422.0	422.0	422.0
2.5°	358.0	342.0	334.0	324.0	324.0	322.0	326.0
5°	298.0	276.0	260.0	248.0	249.9	244.0	246.0
7.5°	252.0	230.1	216.0	208.0	206.0	204.0	204.0
10°	218.0	198.0	186.0	180.0	178.0	178.0	178.0
12.5°	194.0	174.0	164.0	160.0	160.0	158.0	158.0
15°	174.0	158.0	148.0	144.0	144.0	142.0	144.0
17.5°	158.0	142.0	134.0	129.9	129.9	128.0	128.0
20°	144.0	129.9	122.0	116.0	116.0	114.0	116.0
22.5°	132.0	118.0	108.0	104.0	102.0	100.0	102.0
25°	120.0	106.0	96.0	89.9	88.0	88.0	86.0
27.5°	110.1	96.0	84.0	78.0	76.0	76.0	74.0
30°	100.0	84.0	72.0	66.0	64.0	64.0	64.0
32.5°	89.9	72.0	62.0	56.0	54.0	54.0	54.0
35°	80.0	62.0	52.0	46.0	44.0	44.0	44.0
37.5°	68.0	52.0	40.0	36.0	34.0	32.0	32.0
40°	58.0	40.0	30.1	26.0	22.0	22.0	22.0
42.5°	48.0	32.0	22.0	16.0	14.0	12.0	14.0
45°	40.0	24.0	14.0	8.0	6.0	6.0	6.0
47.5°	32.0	16.0	6.0	2.0	2.0	2.0	2.0
50°	24.0	9.9	2.0	0.0	0.0	2.0	2.0
52.5°	18.0	6.0	0.0	0.0	0.0	0.0	0.0
55°	9.9	2.0	0.0	0.0	0.0	0.0	0.0
57.5°	6.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2.0	0.0	0.0	0.0	0.0	0.0	0.0
63°	2.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	2.0	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)