

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: P149344

Luminaire Tested: **VXS-F06-LED-E1-SL2-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149344
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-F06-LED-E1-SL2-HSS-7030
Description: VISION SITE SMALL LED LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8295.1 lumens
Efficiency: N/A
Efficacy: 53.0 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): 156.5
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

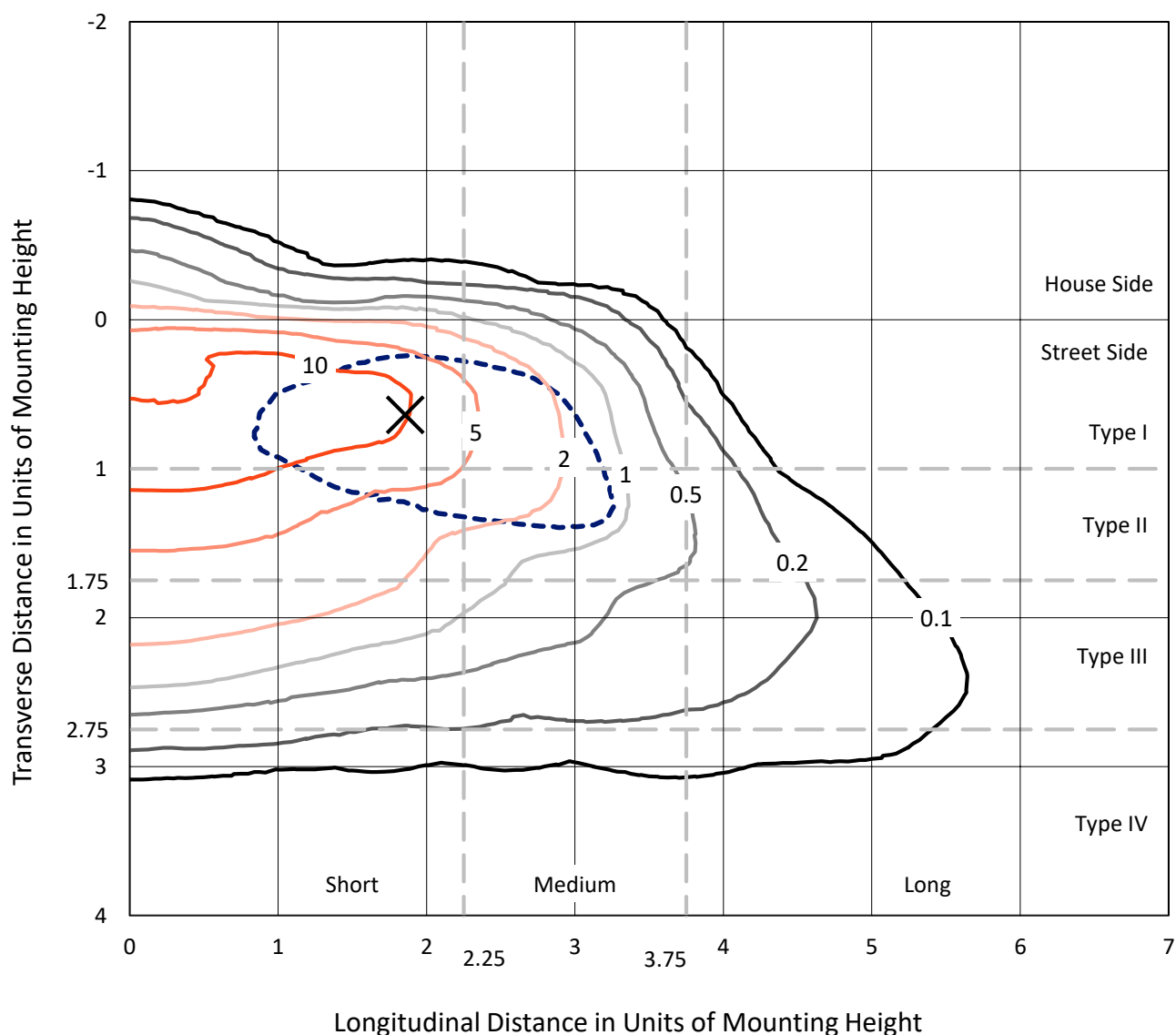


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

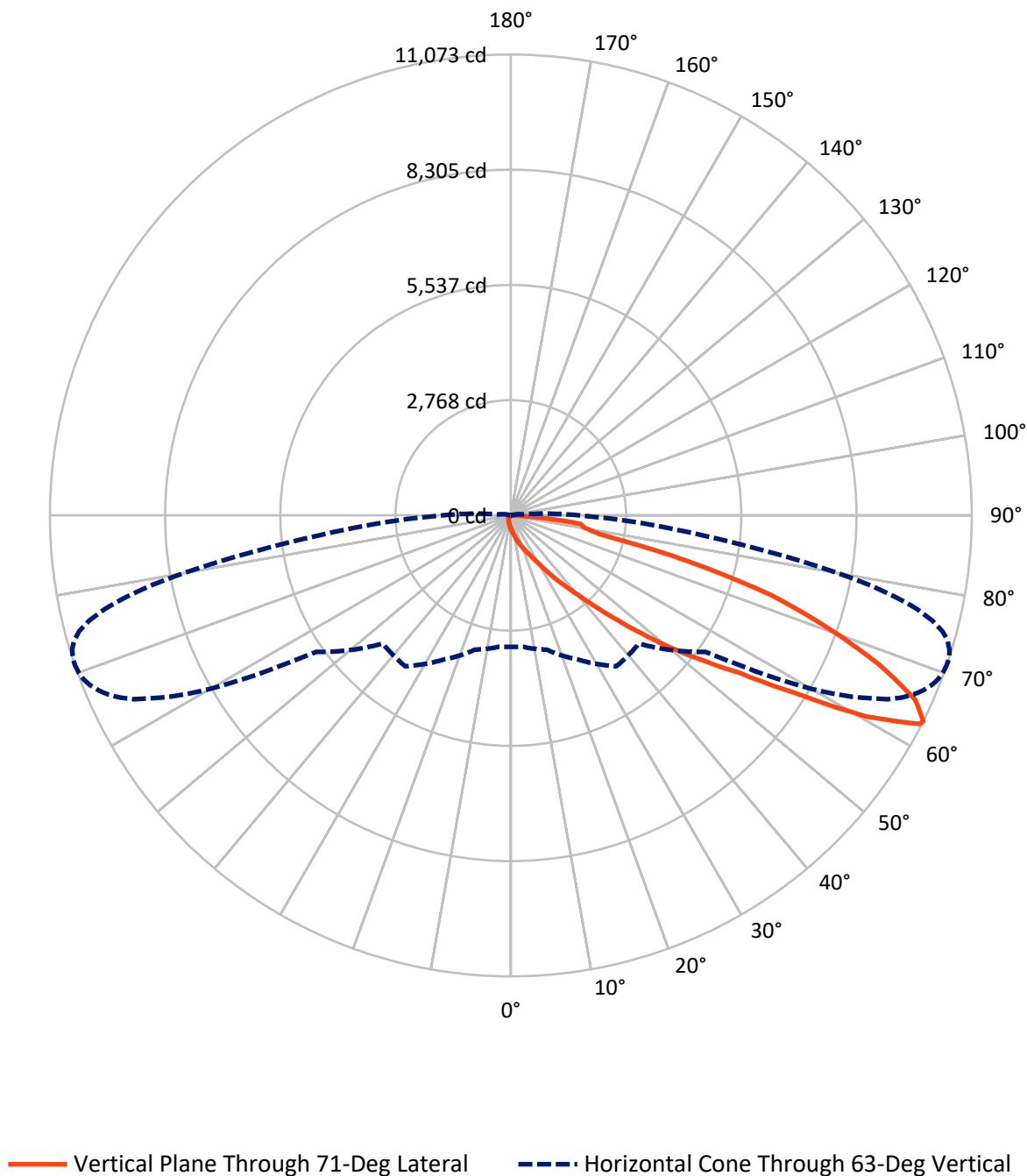


Based on 10 foot mounting height. Maximum calculated value = 17.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	176.1	0.0	176.1
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	8118.9	0.0	8118.9
	% Fixture	97.9	0.0	97.9
Total	Lumens	8295.1	0.0	8295.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.2	0.4
10°-20°	136.4	1.6
20°-30°	277.0	3.3
30°-40°	676.8	8.2
40°-50°	1513.7	18.2
50°-60°	2128.4	25.7
60°-70°	2502.9	30.2
70°-80°	903.8	10.9
80°-90°	120.9	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°	8295.1	100.0
0°-180°	8295.1	100.0

Coefficient of Utilization



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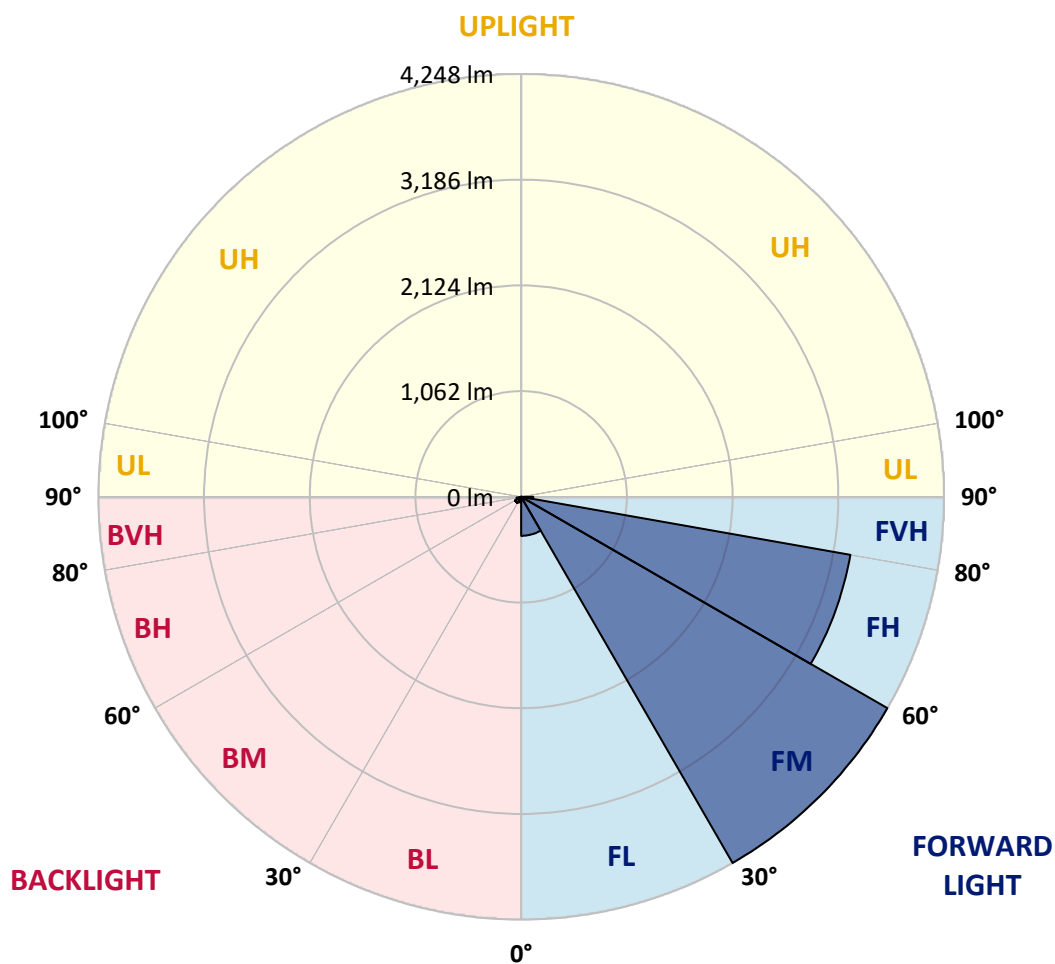
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	392.0	4.7			
FM	(30°-60°)	4248.0	51.2			
FH	(60°-80°)	3358.3	40.5			G2/5000
FVH	(80°-90°)	120.6	1.5			G2/225
BL	(0°-30°)	56.6	0.7	B0/110		
BM	(30°-60°)	71.0	0.9	B0/220		
BH	(60°-80°)	48.3	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°	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1
2.5°	416.2	420.7	417.7	410.2	401.1	389.0	378.5	378.5	377.0	372.4	374.0
5°	545.9	547.4	541.3	523.3	506.6	481.0	452.4	449.4	446.3	441.9	440.3
7.5°	672.5	678.5	672.5	653.0	619.8	580.6	535.3	530.8	521.8	521.8	515.8
10°	802.3	802.3	796.2	773.6	743.4	687.7	630.4	622.8	612.2	609.2	600.2
12.5°	894.2	894.2	891.2	879.2	855.0	805.3	735.9	728.4	714.8	710.3	699.7
15°	930.5	930.5	931.9	942.5	944.0	921.3	849.0	843.0	829.4	817.3	812.8
17.5°	953.1	951.5	951.5	966.6	993.8	1008.8	962.1	956.1	940.9	934.9	919.9
20°	1002.8	999.8	990.8	990.8	1016.4	1069.1	1069.1	1067.7	1051.1	1046.5	1039.0
22.5°	1076.7	1073.7	1046.5	1023.9	1036.0	1102.4	1164.1	1161.1	1155.1	1149.1	1144.6
25°	1197.3	1186.7	1140.0	1073.7	1063.1	1134.0	1236.6	1244.0	1248.6	1248.6	1251.6
27.5°	1379.8	1366.2	1283.3	1159.7	1112.8	1185.3	1316.5	1331.5	1345.1	1348.2	1361.8
30°	1633.2	1609.0	1489.8	1308.9	1201.9	1260.7	1434.1	1450.7	1470.3	1476.3	1497.4
32.5°	2049.3	2035.8	1921.1	1649.7	1420.5	1408.5	1598.4	1619.6	1645.2	1655.8	1681.5
35°	2682.7	2685.7	2592.2	2348.0	2031.3	1865.4	1892.5	1910.6	1919.7	1951.3	1964.9
37.5°	3112.4	3120.0	3141.1	3044.7	2818.4	2649.5	2436.9	2456.5	2409.7	2414.3	2415.8
40°	3347.8	3371.8	3495.5	3589.0	3570.9	3472.8	3302.5	3313.1	3225.6	3206.0	3111.0
42.5°	3504.6	3536.3	3733.8	4023.3	4171.1	4260.1	4220.8	4216.4	4148.5	4122.8	4042.9
45°	3602.6	3631.2	3880.0	4306.8	4647.6	4906.9	5014.1	5026.1	4968.8	4943.2	4876.8
47.5°	3598.0	3631.2	3898.1	4412.3	4914.5	5329.2	5630.8	5645.9	5680.6	5657.9	5662.5
50°	3399.0	3430.7	3699.1	4233.0	4836.2	5522.3	6074.2	6122.4	6178.2	6216.0	6234.0
52.5°	3157.7	3180.3	3418.7	3925.3	4501.3	5442.3	6336.6	6419.5	6502.5	6573.3	6623.1
55°	3068.7	3094.4	3281.3	3702.1	4233.0	5107.6	6458.8	6580.8	6698.4	6814.6	6909.6
57.5°	3115.5	3139.6	3273.9	3596.6	4073.1	4754.7	6493.4	6683.4	6876.4	7064.9	7251.9
60°	3287.5	3313.1	3427.7	3694.6	4030.9	4551.1	6357.7	6672.8	6994.1	7322.8	7631.9
62.5°	3219.6	3230.2	3399.0	3866.5	4332.4	4377.7	5864.6	6304.9	6795.0	7301.7	7800.8
63°	3154.7	3166.7	3338.7	3819.7	4424.5	4352.0	5712.2	6176.7	6694.0	7239.9	7782.7
65°	2860.6	2862.2	2993.4	3373.4	4321.9	4397.3	5033.7	5477.0	6071.2	6725.6	7411.7
67.5°	2135.3	2124.8	2251.4	2540.9	3393.0	4398.8	4320.4	4569.2	4982.4	5563.0	6178.2
70°	757.0	740.4	945.5	1346.6	2114.2	3598.0	3712.6	3729.2	3843.8	4157.5	4543.5
72.5°	245.8	250.4	301.6	493.2	974.2	2421.9	3361.3	3310.1	3279.9	3278.3	3329.6
75°	98.0	99.5	120.6	218.7	437.3	1167.2	2943.6	2972.2	2982.8	2997.9	3014.5
77.5°	46.7	51.3	67.9	122.2	217.1	577.5	2106.6	2349.4	2488.2	2595.2	2660.1
80°	16.6	19.6	37.7	75.4	101.0	265.4	1109.8	1339.1	1542.7	1805.1	2031.3
82.5°	0.0	0.0	7.6	52.7	55.8	107.0	455.4	533.8	610.8	791.7	1016.4
85°	0.0	0.0	0.0	15.1	16.6	18.1	153.8	185.5	208.1	242.8	280.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.6	9.0	22.6	34.7
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°	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1
2.5°	371.0	369.4	369.4	366.4	365.0	361.9	360.4	355.9	354.4	354.4	354.4
5°	438.9	432.7	429.7	422.3	417.7	416.2	408.7	405.7	401.1	402.6	395.1
7.5°	514.2	503.6	499.2	488.6	485.6	475.0	472.0	464.5	459.9	450.9	447.9
10°	597.2	583.6	576.1	559.5	554.9	547.4	538.3	529.3	521.8	512.7	508.2
12.5°	692.1	680.1	674.1	651.4	640.9	630.4	618.2	606.2	594.2	586.6	576.1
15°	803.7	784.1	778.1	757.0	739.0	725.4	708.7	693.7	684.7	669.5	659.0
17.5°	913.9	894.2	889.7	858.0	838.4	829.4	811.3	791.7	775.1	760.0	743.4
20°	1023.9	1010.4	998.2	968.1	947.0	931.9	907.8	888.2	874.6	853.5	832.4
22.5°	1134.0	1120.4	1111.4	1079.7	1060.1	1039.0	1017.9	996.8	977.2	951.5	927.5
25°	1247.2	1238.0	1233.6	1204.9	1186.7	1167.2	1146.1	1122.0	1097.8	1069.1	1043.5
27.5°	1364.8	1367.8	1358.7	1352.6	1333.1	1319.5	1286.3	1269.7	1251.6	1217.0	1185.3
30°	1514.0	1523.1	1520.0	1524.6	1512.5	1503.4	1477.8	1456.7	1435.6	1402.4	1366.2
32.5°	1702.5	1714.6	1720.6	1737.2	1731.2	1728.2	1720.6	1690.5	1675.3	1618.0	1603.0
35°	1993.6	1987.6	2013.2	2026.7	2020.7	2017.7	2008.6	1992.0	1974.0	1933.3	1895.5
37.5°	2372.0	2378.1	2387.2	2360.0	2341.9	2340.4	2313.3	2296.7	2271.0	2225.8	2180.5
40°	3065.7	3028.1	2985.8	2871.2	2821.5	2792.7	2712.8	2690.3	2646.5	2584.7	2537.9
42.5°	3967.6	3929.8	3803.1	3611.6	3509.1	3367.4	3302.5	3222.6	3160.7	3059.7	3005.4
45°	4863.2	4754.7	4739.6	4516.4	4389.7	4202.8	4086.6	3952.4	3812.2	3679.5	3583.0
47.5°	5618.8	5594.6	5520.7	5385.0	5267.4	5110.6	4961.2	4754.7	4609.9	4421.5	4248.0
50°	6223.4	6222.0	6194.8	6116.4	6018.3	5891.7	5760.5	5585.6	5421.2	5190.5	5005.0
52.5°	6675.9	6700.0	6709.0	6684.9	6647.3	6535.6	6469.2	6323.0	6184.2	5988.2	5787.7
55°	7007.6	7096.6	7141.9	7193.1	7182.6	7143.3	7140.3	7045.3	6982.0	6826.6	6684.9
57.5°	7417.8	7564.0	7704.4	7953.2	7962.2	8049.6	8094.9	8140.1	8152.2	8090.4	8043.6
60°	7939.6	8238.1	8503.5	9023.8	9159.5	9373.7	9512.3	9663.2	9791.4	9801.9	9798.9
62.5°	8307.5	8767.5	9195.8	9967.8	10231.7	10479.0	10664.5	10810.8	10899.7	10990.3	11032.4
63°	8318.0	8821.8	9277.1	10073.4	10350.8	10586.1	10762.5	10898.2	10991.7	11046.0	11073.2
65°	8063.2	8674.0	9216.8	10010.1	10270.9	10507.7	10599.7	10688.6	10733.9	10754.9	10675.0
67.5°	6834.2	7431.4	8064.7	8951.4	9174.6	9458.1	9533.5	9578.8	9599.9	9595.3	9527.5
70°	5110.6	5611.2	6315.4	7328.8	7624.4	7901.9	8073.8	8147.7	8171.8	8164.2	8063.2
72.5°	3567.9	3862.0	4442.5	5570.5	5973.2	6329.0	6541.7	6651.7	6674.3	6629.1	6535.6
75°	2996.4	3011.4	3142.7	3759.4	4136.4	4516.4	4756.2	4825.6	4780.3	4643.1	4404.9
77.5°	2675.1	2708.4	2708.4	2800.3	2874.2	2979.8	3002.4	2833.5	2637.5	2384.1	2179.1
80°	2243.8	2360.0	2441.5	2509.3	2516.8	2495.8	2439.9	2344.9	2194.1	2001.1	1786.9
82.5°	1363.2	1592.4	1685.9	2035.8	2207.7	2323.8	2314.7	2188.1	2073.5	1873.0	1690.5
85°	343.8	371.0	402.6	523.3	586.6	716.3	797.7	835.4	849.0	779.6	705.7
87.5°	33.2	22.6	37.7	28.6	40.7	30.2	40.7	37.7	46.7	49.7	54.3
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1
2.5°	351.4	349.8	348.4	346.8	345.3	343.8	340.8	340.8	337.8	336.3	334.8
5°	390.6	387.6	386.0	383.0	378.5	375.4	371.0	365.0	360.4	358.9	355.9
7.5°	440.3	432.7	429.7	425.3	419.2	410.2	404.1	399.6	392.1	387.6	378.5
10°	496.2	488.6	479.6	470.5	461.5	450.9	443.3	437.3	425.3	419.2	408.7
12.5°	567.0	553.5	542.9	530.8	518.8	506.6	497.6	479.6	469.0	455.4	446.3
15°	639.4	627.4	615.2	600.2	582.1	562.5	553.5	536.9	523.3	502.2	490.1
17.5°	726.8	704.2	686.1	668.1	651.4	633.4	615.2	589.6	570.1	551.9	527.8
20°	812.8	785.7	766.0	742.0	717.8	689.1	668.1	649.9	622.8	598.7	573.1
22.5°	904.8	877.6	846.0	821.9	788.7	766.0	737.4	707.3	680.1	648.4	616.8
25°	1016.4	987.8	951.5	919.9	882.2	850.5	815.9	781.1	748.0	711.8	671.1
27.5°	1153.6	1123.4	1084.2	1046.5	996.8	957.6	924.4	877.6	835.4	790.2	743.4
30°	1327.0	1293.9	1245.6	1191.3	1141.6	1097.8	1051.1	989.2	942.5	888.2	827.9
32.5°	1553.3	1514.0	1449.2	1397.9	1336.1	1278.8	1213.9	1152.1	1085.7	1014.9	945.5
35°	1838.2	1802.1	1726.6	1651.3	1583.4	1515.5	1434.1	1363.2	1269.7	1183.7	1094.8
37.5°	2133.8	2068.9	1999.6	1918.1	1833.7	1752.3	1652.7	1554.7	1447.7	1354.2	1242.6
40°	2471.6	2393.2	2335.9	2248.4	2129.3	2013.2	1921.1	1799.1	1664.8	1539.7	1408.5
42.5°	2934.5	2847.0	2744.6	2611.8	2525.9	2390.2	2271.0	2126.2	1949.8	1809.5	1651.3
45°	3469.8	3350.8	3251.2	3123.0	3019.0	2850.1	2711.4	2518.3	2341.9	2157.9	1964.9
47.5°	4080.6	3932.8	3788.1	3661.3	3495.5	3329.6	3153.2	2948.1	2721.9	2519.9	2290.7
50°	4781.9	4572.2	4371.6	4208.8	3981.0	3789.5	3598.0	3367.4	3117.0	2884.8	2623.9
52.5°	5561.5	5318.7	5053.3	4802.9	4539.1	4293.3	4062.5	3797.1	3518.1	3234.6	2943.6
55°	6502.5	6320.0	6007.8	5689.6	5336.8	5008.0	4711.0	4382.2	4042.9	3670.5	3364.4
57.5°	7975.8	7886.7	7625.9	7307.7	6847.8	6448.2	5944.5	5541.9	5050.3	4537.5	4142.5
60°	9972.3	9862.3	9716.0	9458.1	9093.2	8550.3	7995.3	7369.5	6621.6	5911.3	5237.2
62.5°	11037.0	10997.7	10878.7	10700.7	10359.9	9931.6	9372.1	8684.5	7840.0	6977.4	6117.9
63°	11068.6	11018.9	10916.3	10735.3	10435.2	10020.6	9471.7	8803.6	7977.2	7098.1	6220.4
65°	10640.3	10620.7	10516.7	10319.2	10114.1	9797.4	9372.1	8797.6	8103.9	7273.1	6399.9
67.5°	9437.0	9378.1	9218.3	9158.0	9014.7	8794.6	8470.4	8075.2	7579.2	6926.2	6172.2
70°	7981.8	7894.3	7693.8	7586.6	7411.7	7273.1	7075.4	6793.5	6487.4	6031.9	5469.4
72.5°	6439.1	6258.1	6074.2	5795.2	5550.9	5303.6	5085.0	4885.9	4549.6	4365.6	3938.9
75°	4181.7	3853.0	3537.7	3115.5	2735.4	2399.2	2072.0	1906.1	1560.7	1420.5	1220.0
77.5°	1984.6	1800.5	1553.3	1361.8	1117.4	912.3	745.0	559.5	438.9	343.8	262.4
80°	1601.5	1446.1	1296.9	1123.4	939.5	749.4	574.5	429.7	304.7	211.1	149.3
82.5°	1428.1	1259.2	1075.2	956.1	830.9	680.1	557.9	455.4	336.3	245.8	167.4
85°	554.9	467.5	360.4	294.1	229.2	188.5	170.4	117.6	92.0	72.3	55.8
87.5°	48.3	39.2	31.7	21.1	22.6	12.0	13.6	9.0	7.6	7.6	6.0
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°	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1
2.5°	333.3	331.7	330.3	327.3	327.3	324.2	322.7	321.2	313.7	297.1	283.5
5°	349.8	346.8	343.8	339.3	336.3	331.7	328.7	324.2	307.7	276.0	248.8
7.5°	374.0	368.0	363.4	354.4	349.8	343.8	339.3	331.7	304.7	256.4	218.7
10°	402.6	392.1	384.6	374.0	365.0	357.4	349.8	339.3	301.6	235.2	191.5
12.5°	437.3	425.3	410.2	398.1	386.0	375.4	365.0	351.4	297.1	217.1	170.4
15°	472.0	453.9	443.3	426.7	410.2	395.1	380.0	368.0	298.5	197.5	152.3
17.5°	511.2	493.2	470.5	452.4	434.3	414.7	396.6	372.4	291.1	182.5	138.8
20°	548.9	523.3	502.2	479.6	453.9	429.7	407.2	386.0	285.0	167.4	126.6
22.5°	589.6	559.5	532.3	503.6	472.0	444.9	417.7	390.6	274.4	153.8	116.2
25°	639.4	604.7	565.5	530.8	497.6	464.5	429.7	396.6	263.9	141.8	108.6
27.5°	699.7	654.5	615.2	571.5	524.8	482.6	444.9	408.7	253.4	132.7	101.0
30°	776.6	723.8	668.1	612.2	562.5	514.2	461.5	416.2	242.8	123.6	93.5
32.5°	879.2	812.8	745.0	680.1	613.8	551.9	496.2	437.3	236.8	116.2	85.9
35°	1014.9	928.9	846.0	764.6	684.7	609.2	536.9	470.5	236.8	107.0	76.9
37.5°	1143.0	1043.5	937.9	836.9	742.0	654.5	568.5	488.6	224.7	99.5	69.3
40°	1281.8	1162.7	1039.0	919.9	805.3	696.7	598.7	506.6	214.1	90.5	61.9
42.5°	1494.4	1343.6	1182.3	1043.5	906.3	772.1	649.9	541.3	200.5	81.5	54.3
45°	1773.4	1581.9	1391.9	1223.0	1048.1	883.7	739.0	604.7	197.5	73.9	46.7
47.5°	2072.0	1845.8	1622.6	1406.9	1201.9	1010.4	836.9	675.5	197.5	66.3	40.7
50°	2369.0	2085.6	1847.3	1597.0	1366.2	1140.0	933.5	749.4	199.1	60.3	33.2
52.5°	2637.5	2334.4	2067.5	1777.9	1523.1	1260.7	1036.0	821.9	196.1	52.7	27.2
55°	3009.9	2654.1	2344.9	2025.2	1726.6	1431.1	1176.3	930.5	197.5	46.7	22.6
57.5°	3696.1	3278.3	2905.9	2486.6	2142.8	1761.3	1452.2	1153.6	215.6	39.2	16.6
60°	4680.8	4137.9	3614.6	3103.4	2666.1	2212.2	1811.1	1459.7	253.4	31.7	12.0
62.5°	5342.8	4632.5	4008.2	3444.2	2936.1	2461.0	2023.7	1624.1	279.0	25.6	7.6
63°	5410.7	4676.3	4048.9	3466.8	2948.1	2473.1	2032.7	1636.2	280.5	24.1	7.6
65°	5538.9	4751.7	4071.6	3471.4	2936.1	2456.5	2026.7	1634.6	283.5	19.6	6.0
67.5°	5392.5	4635.5	3940.4	3341.7	2830.5	2358.4	1951.3	1574.3	282.0	13.6	4.6
70°	4822.6	4195.2	3584.5	3026.5	2562.1	2135.3	1776.4	1435.6	259.4	9.0	3.0
72.5°	3540.7	3114.0	2640.5	2237.8	1930.3	1603.0	1367.8	1078.2	200.5	6.0	1.6
75°	1049.5	956.1	803.7	708.7	625.8	517.2	459.9	358.9	102.6	3.0	0.0
77.5°	209.6	190.1	170.4	155.3	146.3	125.2	119.2	98.0	42.2	1.6	0.0
80°	110.1	90.5	76.9	67.9	58.9	48.3	40.7	33.2	7.6	0.0	0.0
82.5°	105.6	70.9	51.3	42.2	36.2	28.6	22.6	16.6	4.6	0.0	0.0
85°	39.2	30.2	22.6	18.1	15.1	13.6	10.6	9.0	0.0	0.0	0.0
87.5°	6.0	4.6	4.6	3.0	3.0	1.6	1.6	1.6	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°	318.1	318.1	318.1	318.1	318.1	318.1	318.1
2.5°	269.9	257.8	251.8	244.2	244.2	242.8	245.8
5°	224.7	208.1	196.1	186.9	188.5	183.9	185.5
7.5°	190.1	173.4	162.9	156.8	155.3	153.8	153.8
10°	164.4	149.3	140.2	135.8	134.2	134.2	134.2
12.5°	146.3	131.2	123.6	120.6	120.6	119.2	119.2
15°	131.2	119.2	111.6	108.6	108.6	107.0	108.6
17.5°	119.2	107.0	101.0	98.0	98.0	96.5	96.5
20°	108.6	98.0	92.0	87.5	87.5	85.9	87.5
22.5°	99.5	89.0	81.5	78.4	76.9	75.4	76.9
25°	90.5	79.9	72.3	67.9	66.3	66.3	64.9
27.5°	82.9	72.3	63.3	58.9	57.3	57.3	55.8
30°	75.4	63.3	54.3	49.7	48.3	48.3	48.3
32.5°	67.9	54.3	46.7	42.2	40.7	40.7	40.7
35°	60.3	46.7	39.2	34.7	33.2	33.2	33.2
37.5°	51.3	39.2	30.2	27.2	25.6	24.1	24.1
40°	43.7	30.2	22.6	19.6	16.6	16.6	16.6
42.5°	36.2	24.1	16.6	12.0	10.6	9.0	10.6
45°	30.2	18.1	10.6	6.0	4.6	4.6	4.6
47.5°	24.1	12.0	4.6	1.6	1.6	1.6	1.6
50°	18.1	7.6	1.6	0.0	0.0	1.6	1.6
52.5°	13.6	4.6	0.0	0.0	0.0	0.0	0.0
55°	7.6	1.6	0.0	0.0	0.0	0.0	0.0
57.5°	4.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	3.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.6	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)