

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: P149334

Luminaire Tested: **VXS-F05-LED-E1-SL2-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149334
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-F05-LED-E1-SL2-HSS-7030
Description: VISION SITE SMALL LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (35) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6912.5 lumens
Efficiency: N/A
Efficacy: 51.9 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 133.3
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



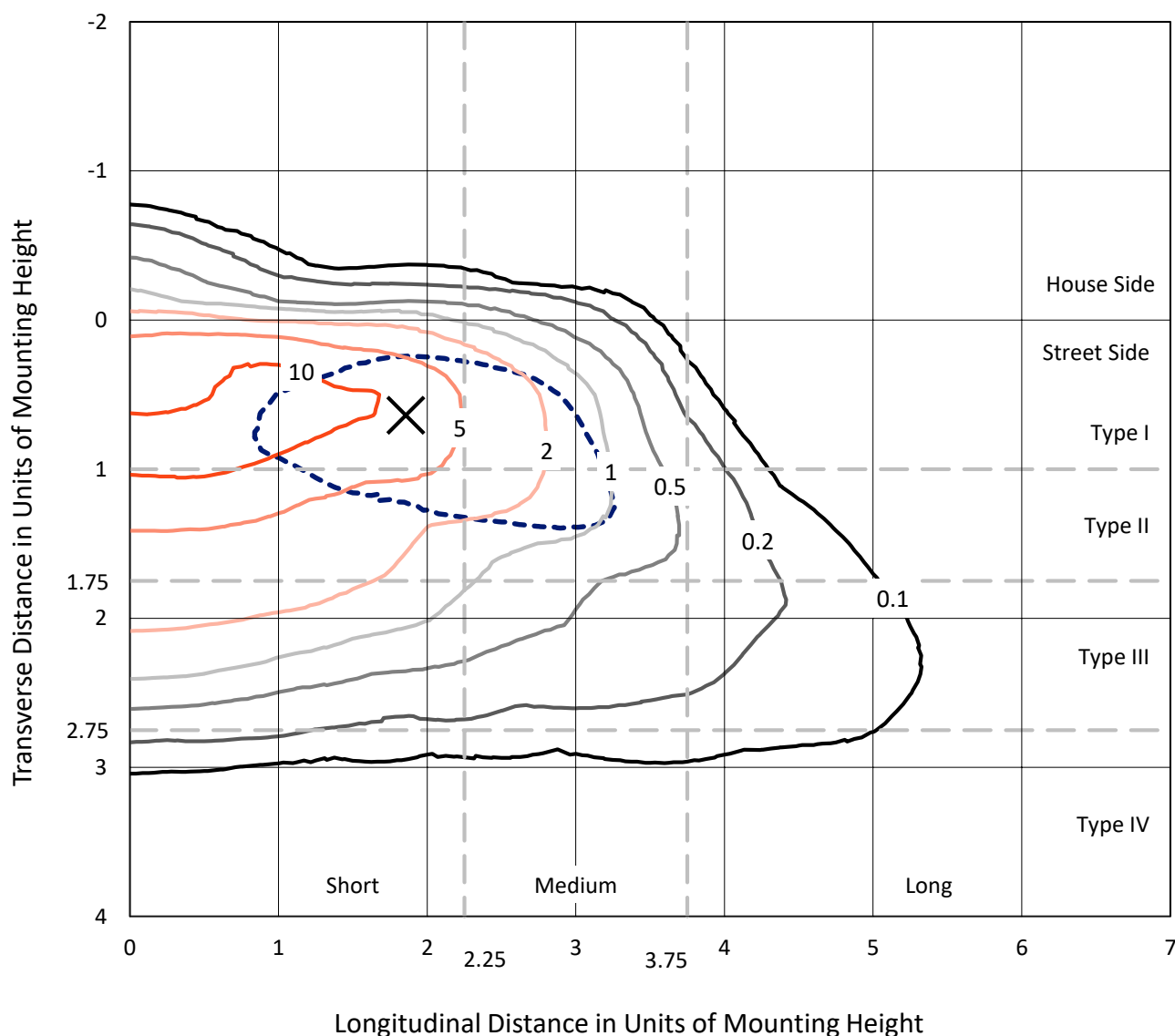
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

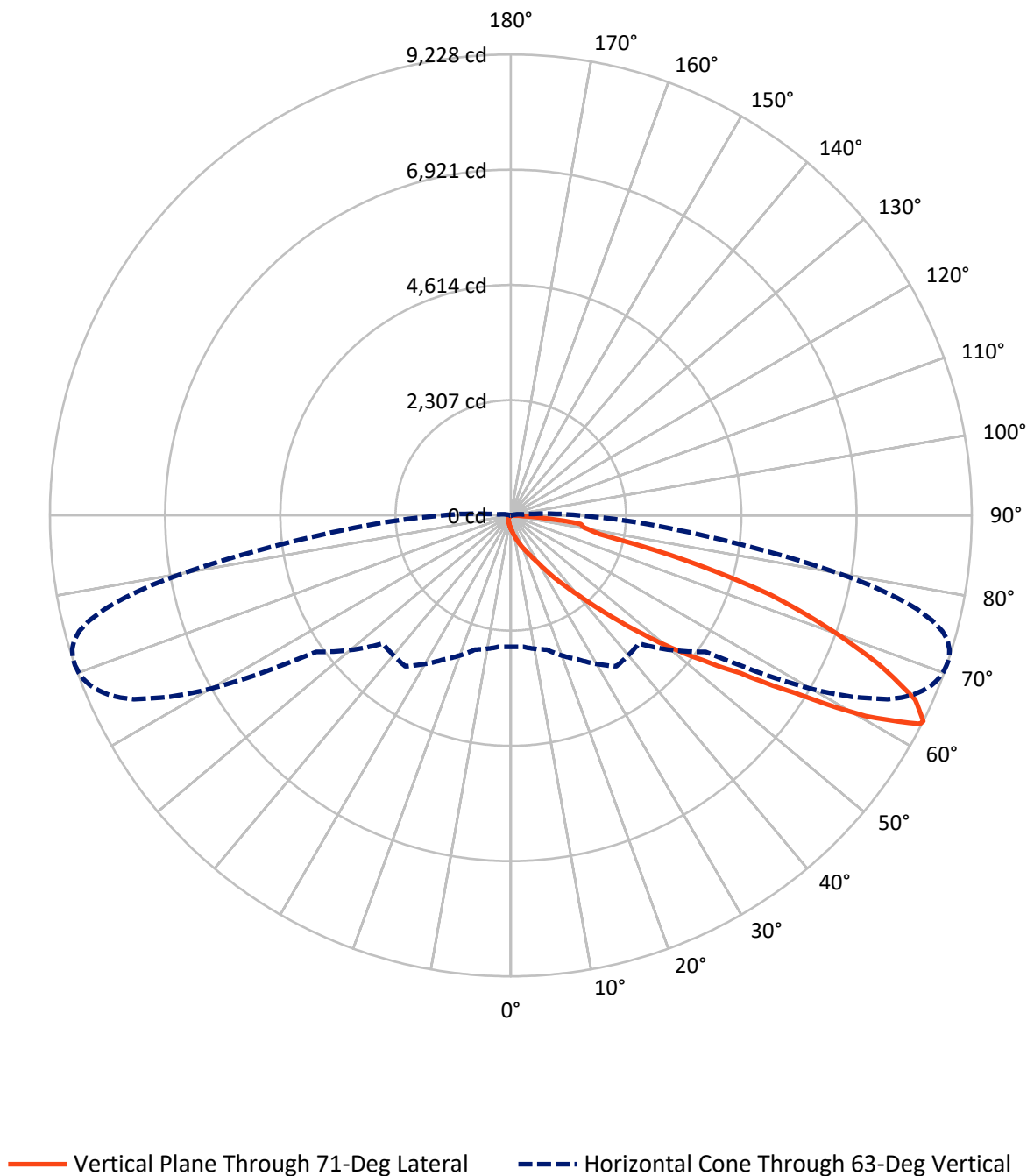


Based on 10 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	146.8	0.0	146.8
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	6765.8	0.0	6765.8
	% Fixture	97.9	0.0	97.9
Total	Lumens	6912.5	0.0	6912.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.3	0.4
10°-20°	113.7	1.6
20°-30°	230.9	3.3
30°-40°	564.0	8.2
40°-50°	1261.4	18.2
50°-60°	1773.7	25.7
60°-70°	2085.7	30.2
70°-80°	753.1	10.9
80°-90°	100.7	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°	6912.5	100.0
0°-180°	6912.5	100.0

Coefficient of Utilization



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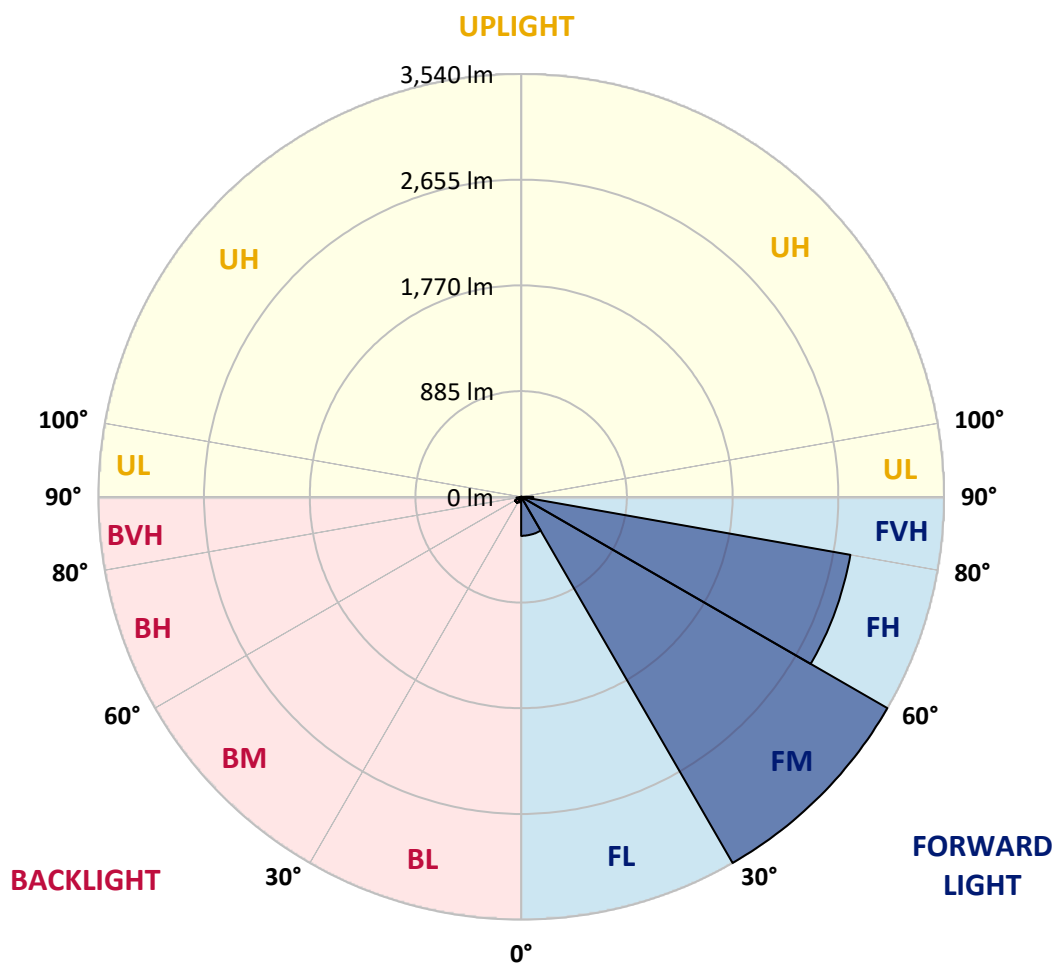
CATALOG NUMBER: VXS-F05-LED-E1-SL2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	326.6	4.7			
FM	(30°-60°)	3540.0	51.2			
FH	(60°-80°)	2798.6	40.5			G2/5000
FVH	(80°-90°)	100.5	1.5			G2/225
BL	(0°-30°)	47.2	0.7	B0/110		
BM	(30°-60°)	59.1	0.9	B0/220		
BH	(60°-80°)	40.2	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	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°	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2
2.5°	346.8	350.6	348.1	341.8	334.3	324.2	315.4	315.4	314.2	310.4	311.6
5°	454.9	456.2	451.1	436.1	422.3	400.8	377.0	374.5	372.0	368.2	366.9
7.5°	560.5	565.5	560.5	544.1	516.5	483.8	446.1	442.4	434.8	434.8	429.7
10°	668.5	668.5	663.5	644.7	619.5	573.1	525.3	519.0	510.2	507.7	500.1
12.5°	745.2	745.2	742.7	732.6	712.5	671.1	613.3	606.9	595.6	591.9	583.1
15°	775.3	775.3	776.6	785.4	786.6	767.8	707.5	702.5	691.2	681.1	677.3
17.5°	794.2	793.0	793.0	805.5	828.2	840.7	801.8	796.7	784.1	779.2	766.5
20°	835.6	833.2	825.6	825.6	846.9	891.0	891.0	889.7	875.9	872.1	865.8
22.5°	897.2	894.7	872.1	853.3	863.3	918.7	970.2	967.7	962.6	957.6	953.8
25°	997.8	989.0	950.1	894.7	885.9	945.0	1030.5	1036.8	1040.5	1040.5	1043.0
27.5°	1149.8	1138.5	1069.4	966.3	927.5	987.8	1097.1	1109.6	1120.9	1123.4	1134.7
30°	1360.9	1340.8	1241.6	1090.8	1001.6	1050.6	1195.1	1208.9	1225.3	1230.3	1247.9
32.5°	1707.8	1696.5	1600.9	1374.8	1183.7	1173.7	1332.0	1349.6	1371.0	1379.8	1401.1
35°	2235.5	2238.1	2160.2	1956.6	1692.7	1554.5	1577.1	1592.2	1599.7	1626.1	1637.4
37.5°	2593.8	2600.0	2617.6	2537.2	2348.7	2208.0	2030.8	2047.0	2008.2	2011.9	2013.2
40°	2789.7	2809.8	2913.0	2990.9	2975.8	2894.1	2752.1	2760.8	2688.0	2671.6	2592.4
42.5°	2920.5	2946.8	3111.5	3352.7	3476.0	3550.1	3517.4	3513.6	3457.1	3435.6	3369.1
45°	3002.2	3026.0	3233.4	3589.0	3873.1	4089.1	4178.3	4188.4	4140.7	4119.3	4064.0
47.5°	2998.3	3026.0	3248.5	3677.0	4095.4	4441.0	4692.3	4704.9	4733.8	4714.9	4718.8
50°	2832.5	2858.9	3082.6	3527.5	4030.1	4601.9	5061.8	5102.1	5148.5	5179.9	5195.0
52.5°	2631.4	2650.3	2848.8	3271.1	3751.1	4535.2	5280.5	5349.5	5418.7	5477.7	5519.3
55°	2557.3	2578.7	2734.5	3085.1	3527.5	4256.3	5382.3	5484.0	5582.1	5678.9	5758.0
57.5°	2596.3	2616.4	2728.2	2997.1	3394.2	3962.3	5411.2	5569.5	5730.4	5887.5	6043.2
60°	2739.5	2760.8	2856.4	3078.8	3359.1	3792.5	5298.0	5560.7	5828.4	6102.3	6359.9
62.5°	2683.0	2691.7	2832.5	3222.1	3610.4	3648.1	4887.2	5254.1	5662.5	6084.8	6500.7
63°	2628.9	2639.0	2782.3	3183.1	3687.0	3626.7	4760.2	5147.3	5578.3	6033.2	6485.6
65°	2383.8	2385.2	2494.5	2811.1	3601.6	3664.5	4194.7	4564.1	5059.3	5604.7	6176.5
67.5°	1779.4	1770.7	1876.2	2117.5	2827.5	3665.7	3600.3	3807.7	4152.0	4635.9	5148.5
70°	630.9	617.0	787.9	1122.2	1761.9	2998.3	3093.9	3107.7	3203.2	3464.6	3786.3
72.5°	204.9	208.6	251.3	410.9	811.8	2018.2	2801.0	2758.3	2733.3	2732.0	2774.7
75°	81.7	82.9	100.5	182.2	364.5	972.6	2453.0	2476.9	2485.7	2498.2	2512.0
77.5°	39.0	42.7	56.6	101.8	180.9	481.3	1755.5	1957.8	2073.5	2162.7	2216.8
80°	13.8	16.4	31.4	62.8	84.1	221.1	924.9	1116.0	1285.6	1504.2	1692.7
82.5°	0.0	0.0	6.3	43.9	46.5	89.2	379.5	444.9	508.9	659.8	846.9
85°	0.0	0.0	0.0	12.5	13.8	15.1	128.2	154.6	173.4	202.3	233.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.7	7.6	18.9	28.9
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2
2.5°	309.1	307.9	307.9	305.4	304.1	301.6	300.3	296.6	295.3	295.3	295.3
5°	365.7	360.6	358.1	351.8	348.1	346.8	340.5	338.0	334.3	335.5	329.2
7.5°	428.5	419.7	416.0	407.2	404.7	395.9	393.4	387.0	383.3	375.8	373.3
10°	497.6	486.3	480.0	466.2	462.5	456.2	448.6	441.0	434.8	427.3	423.5
12.5°	576.8	566.7	561.8	542.9	534.1	525.3	515.2	505.2	495.1	488.8	480.0
15°	669.8	653.5	648.4	630.9	615.8	604.5	590.7	578.0	570.6	557.9	549.1
17.5°	761.6	745.2	741.5	715.0	698.7	691.2	676.1	659.8	645.9	633.4	619.5
20°	853.3	842.0	831.9	806.7	789.2	776.6	756.5	740.2	728.9	711.3	693.7
22.5°	945.0	933.7	926.1	899.8	883.4	865.8	848.3	830.7	814.3	793.0	772.8
25°	1039.3	1031.7	1028.0	1004.0	989.0	972.6	955.0	934.9	914.8	891.0	869.6
27.5°	1137.3	1139.8	1132.2	1127.3	1110.9	1099.6	1071.9	1058.1	1043.0	1014.1	987.8
30°	1261.7	1269.2	1266.7	1270.5	1260.4	1252.8	1231.5	1213.9	1196.4	1168.7	1138.5
32.5°	1418.8	1428.8	1433.9	1447.7	1442.6	1440.1	1433.9	1408.7	1396.2	1348.4	1335.9
35°	1661.3	1656.3	1677.6	1688.9	1683.9	1681.5	1673.9	1660.0	1645.0	1611.0	1579.6
37.5°	1976.7	1981.8	1989.3	1966.6	1951.6	1950.4	1927.7	1913.9	1892.5	1854.8	1817.1
40°	2554.8	2523.3	2488.2	2392.6	2351.2	2327.4	2260.7	2241.9	2205.4	2153.9	2114.9
42.5°	3306.2	3274.8	3169.3	3009.7	2924.2	2806.1	2752.1	2685.5	2634.0	2549.7	2504.6
45°	4052.7	3962.3	3949.6	3763.7	3658.1	3502.3	3405.5	3293.7	3176.8	3066.2	2985.8
47.5°	4682.3	4662.2	4600.6	4487.6	4389.5	4258.8	4134.4	3962.3	3841.6	3684.6	3540.0
50°	5186.2	5185.0	5162.4	5097.0	5015.3	4909.7	4800.4	4654.6	4517.7	4325.4	4170.9
52.5°	5563.2	5583.3	5590.9	5570.8	5539.4	5446.3	5391.1	5269.1	5153.6	4990.2	4823.0
55°	5839.7	5913.8	5951.5	5994.2	5985.5	5952.7	5950.3	5871.1	5818.3	5688.9	5570.8
57.5°	6181.5	6303.4	6420.2	6627.6	6635.1	6708.0	6745.7	6783.4	6793.5	6742.0	6703.0
60°	6616.3	6865.1	7086.3	7519.8	7633.0	7811.4	7926.9	8052.6	8159.5	8168.3	8165.7
62.5°	6922.9	7306.2	7663.1	8306.5	8526.4	8732.5	8887.0	9009.0	9083.1	9158.5	9193.7
63°	6931.7	7351.4	7731.0	8394.5	8625.7	8821.8	8968.7	9081.9	9159.8	9205.0	9227.7
65°	6719.4	7228.3	7680.7	8341.7	8559.1	8756.4	8833.1	8907.2	8944.9	8962.5	8895.9
67.5°	5695.1	6192.8	6720.6	7459.5	7645.5	7881.8	7944.6	7982.3	7999.9	7996.1	7939.6
70°	4258.8	4676.1	5262.9	6107.4	6353.7	6584.9	6728.2	6789.7	6809.8	6803.5	6719.4
72.5°	2973.3	3218.3	3702.1	4642.1	4977.6	5274.2	5451.4	5543.1	5562.0	5524.2	5446.3
75°	2497.0	2509.5	2618.9	3132.8	3447.0	3763.7	3963.5	4021.3	3983.6	3869.2	3670.7
77.5°	2229.3	2257.0	2257.0	2333.6	2395.2	2483.1	2502.0	2361.2	2197.9	1986.7	1815.9
80°	1869.9	1966.6	2034.5	2091.1	2097.4	2079.8	2033.3	1954.1	1828.4	1667.6	1489.1
82.5°	1136.1	1327.0	1405.0	1696.5	1839.8	1936.5	1929.0	1823.4	1727.9	1560.7	1408.7
85°	286.5	309.1	335.5	436.1	488.8	596.9	664.8	696.2	707.5	649.7	588.1
87.5°	27.7	18.9	31.4	23.8	33.9	25.2	33.9	31.4	39.0	41.5	45.3
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°	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2
2.5°	292.8	291.5	290.3	289.0	287.8	286.5	284.0	284.0	281.5	280.2	279.0
5°	325.5	323.0	321.7	319.2	315.4	313.0	309.1	304.1	300.3	299.1	296.6
7.5°	366.9	360.6	358.1	354.4	349.3	341.8	336.8	333.1	326.7	323.0	315.4
10°	413.5	407.2	399.6	392.1	384.6	375.8	369.4	364.5	354.4	349.3	340.5
12.5°	472.5	461.2	452.4	442.4	432.3	422.3	414.7	399.6	390.8	379.5	372.0
15°	532.8	522.8	512.7	500.1	485.1	468.7	461.2	447.4	436.1	418.4	408.4
17.5°	605.7	586.8	571.8	556.7	542.9	527.8	512.7	491.4	475.0	459.9	439.8
20°	677.3	654.7	638.3	618.2	598.1	574.3	556.7	541.7	519.0	498.9	477.5
22.5°	754.0	731.4	705.0	684.9	657.2	638.3	614.5	589.3	566.7	540.3	514.0
25°	846.9	823.1	793.0	766.5	735.1	708.7	679.9	651.0	623.3	593.2	559.2
27.5°	961.3	936.2	903.5	872.1	830.7	797.9	770.4	731.4	696.2	658.4	619.5
30°	1105.9	1078.2	1038.0	992.7	951.3	914.8	875.9	824.4	785.4	740.2	689.9
32.5°	1294.4	1261.7	1207.7	1164.9	1113.4	1065.6	1011.6	960.1	904.8	845.7	787.9
35°	1531.8	1501.7	1438.9	1376.1	1319.5	1262.9	1195.1	1136.1	1058.1	986.4	912.3
37.5°	1778.1	1724.1	1666.3	1598.4	1528.1	1460.2	1377.3	1295.6	1206.4	1128.5	1035.4
40°	2059.7	1994.3	1946.5	1873.7	1774.4	1677.6	1600.9	1499.2	1387.4	1283.0	1173.7
42.5°	2445.5	2372.5	2287.2	2176.5	2104.9	1991.8	1892.5	1771.9	1624.9	1508.0	1376.1
45°	2891.6	2792.3	2709.3	2602.5	2515.9	2375.1	2259.5	2098.7	1951.6	1798.2	1637.4
47.5°	3400.5	3277.4	3156.7	3051.2	2913.0	2774.7	2627.7	2456.8	2268.3	2099.9	1908.9
50°	3984.9	3810.2	3643.0	3507.4	3317.6	3157.9	2998.3	2806.1	2597.5	2403.9	2186.6
52.5°	4634.5	4432.2	4211.1	4002.5	3782.5	3577.7	3385.4	3164.2	2931.8	2695.5	2453.0
55°	5418.7	5266.6	5006.5	4741.3	4447.3	4173.4	3925.8	3651.8	3369.1	3058.7	2803.6
57.5°	6646.4	6572.3	6354.9	6089.7	5706.4	5373.5	4953.8	4618.2	4208.5	3781.2	3452.0
60°	8310.3	8218.5	8096.7	7881.8	7577.6	7125.3	6662.8	6141.2	5517.9	4926.1	4364.4
62.5°	9197.5	9164.8	9065.5	8917.2	8633.3	8276.4	7810.2	7237.1	6533.4	5814.5	5098.2
63°	9223.8	9182.4	9096.9	8946.1	8696.1	8350.5	7893.1	7336.4	6647.7	5915.1	5183.7
65°	8866.9	8850.7	8763.9	8599.3	8428.4	8164.5	7810.2	7331.3	6753.3	6060.8	5333.3
67.5°	7864.1	7815.1	7682.0	7631.7	7512.3	7328.8	7058.7	6729.4	6316.0	5771.8	5143.5
70°	6651.5	6578.5	6411.5	6322.3	6176.5	6060.8	5896.3	5661.2	5406.1	5026.6	4557.9
72.5°	5365.9	5215.1	5061.8	4829.3	4625.7	4419.7	4237.4	4071.6	3791.3	3638.0	3282.4
75°	3484.7	3210.8	2948.1	2596.3	2279.6	1999.4	1726.6	1588.4	1300.6	1183.7	1016.7
77.5°	1653.8	1500.4	1294.4	1134.7	931.2	760.3	620.8	466.2	365.7	286.5	218.7
80°	1334.6	1205.2	1080.7	936.2	782.9	624.6	478.8	358.1	253.9	176.0	124.5
82.5°	1190.1	1049.3	896.0	796.7	692.4	566.7	465.0	379.5	280.2	204.9	139.5
85°	462.5	389.5	300.3	245.1	191.0	157.1	142.0	98.0	76.7	60.3	46.5
87.5°	40.2	32.6	26.4	17.6	18.9	10.1	11.3	7.6	6.3	6.3	5.1
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2
2.5°	277.7	276.5	275.2	272.7	272.7	270.2	268.9	267.7	261.3	247.6	236.3
5°	291.5	289.0	286.5	282.8	280.2	276.5	274.0	270.2	256.4	229.9	207.4
7.5°	311.6	306.6	302.9	295.3	291.5	286.5	282.8	276.5	253.9	213.7	182.2
10°	335.5	326.7	320.4	311.6	304.1	297.8	291.5	282.8	251.3	196.1	159.6
12.5°	364.5	354.4	341.8	331.7	321.7	313.0	304.1	292.8	247.6	180.9	142.0
15°	393.4	378.2	369.4	355.6	341.8	329.2	316.7	306.6	248.8	164.7	126.9
17.5°	426.0	410.9	392.1	377.0	361.9	345.6	330.5	310.4	242.5	152.0	115.6
20°	457.4	436.1	418.4	399.6	378.2	358.1	339.3	321.7	237.5	139.5	105.6
22.5°	491.4	466.2	443.6	419.7	393.4	370.7	348.1	325.5	228.7	128.2	96.8
25°	532.8	503.9	471.3	442.4	414.7	387.0	358.1	330.5	219.9	118.1	90.5
27.5°	583.1	545.4	512.7	476.3	437.3	402.2	370.7	340.5	211.1	110.6	84.1
30°	647.2	603.2	556.7	510.2	468.7	428.5	384.6	346.8	202.3	103.0	77.9
32.5°	732.6	677.3	620.8	566.7	511.5	459.9	413.5	364.5	197.3	96.8	71.6
35°	845.7	774.1	705.0	637.1	570.6	507.7	447.4	392.1	197.3	89.2	64.0
37.5°	952.5	869.6	781.7	697.4	618.2	545.4	473.8	407.2	187.3	82.9	57.8
40°	1068.2	968.9	865.8	766.5	671.1	580.6	498.9	422.3	178.4	75.4	51.5
42.5°	1245.4	1119.7	985.2	869.6	755.2	643.4	541.7	451.1	167.2	67.9	45.3
45°	1477.8	1318.2	1159.9	1019.2	873.4	736.4	615.8	503.9	164.7	61.6	39.0
47.5°	1726.6	1538.1	1352.1	1172.4	1001.6	842.0	697.4	563.0	164.7	55.3	33.9
50°	1974.2	1737.9	1539.4	1330.8	1138.5	950.1	777.8	624.6	165.9	50.3	27.7
52.5°	2197.9	1945.3	1722.9	1481.6	1269.2	1050.6	863.3	684.9	163.3	43.9	22.6
55°	2508.3	2211.7	1954.1	1687.7	1438.9	1192.5	980.2	775.3	164.7	39.0	18.9
57.5°	3080.1	2732.0	2421.6	2072.2	1785.7	1467.8	1210.2	961.3	179.7	32.6	13.8
60°	3900.6	3448.3	3012.2	2586.2	2221.8	1843.5	1509.2	1216.5	211.1	26.4	10.1
62.5°	4452.3	3860.4	3340.2	2870.2	2446.7	2050.9	1686.4	1353.4	232.4	21.3	6.3
63°	4508.9	3896.9	3374.1	2889.0	2456.8	2060.9	1694.0	1363.5	233.8	20.1	6.3
65°	4615.6	3959.7	3393.0	2892.8	2446.7	2047.0	1688.9	1362.2	236.3	16.4	5.1
67.5°	4493.8	3863.0	3283.6	2784.8	2358.8	1965.4	1626.1	1311.9	235.0	11.3	3.7
70°	4018.8	3496.1	2987.0	2522.1	2135.0	1779.4	1480.3	1196.4	216.2	7.6	2.5
72.5°	2950.7	2595.0	2200.4	1864.9	1608.5	1335.9	1139.8	898.5	167.2	5.1	1.2
75°	874.6	796.7	669.8	590.7	521.6	431.0	383.3	299.1	85.5	2.5	0.0
77.5°	174.7	158.3	142.0	129.4	121.9	104.4	99.3	81.7	35.2	1.2	0.0
80°	91.7	75.4	64.0	56.6	49.0	40.2	33.9	27.7	6.3	0.0	0.0
82.5°	88.0	59.1	42.7	35.2	30.2	23.8	18.9	13.8	3.7	0.0	0.0
85°	32.6	25.2	18.9	15.1	12.5	11.3	8.8	7.6	0.0	0.0	0.0
87.5°	5.1	3.7	3.7	2.5	2.5	1.2	1.2	1.2	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°	265.2	265.2	265.2	265.2	265.2	265.2	265.2
2.5°	225.0	214.9	209.8	203.6	203.6	202.3	204.9
5°	187.3	173.4	163.3	155.9	157.1	153.3	154.6
7.5°	158.3	144.6	135.8	130.7	129.4	128.2	128.2
10°	137.0	124.5	116.9	113.1	111.8	111.8	111.8
12.5°	121.9	109.3	103.0	100.5	100.5	99.3	99.3
15°	109.3	99.3	93.0	90.5	90.5	89.2	90.5
17.5°	99.3	89.2	84.1	81.7	81.7	80.4	80.4
20°	90.5	81.7	76.7	72.8	72.8	71.6	72.8
22.5°	82.9	74.1	67.9	65.4	64.0	62.8	64.0
25°	75.4	66.6	60.3	56.6	55.3	55.3	54.0
27.5°	69.1	60.3	52.7	49.0	47.8	47.8	46.5
30°	62.8	52.7	45.3	41.5	40.2	40.2	40.2
32.5°	56.6	45.3	39.0	35.2	33.9	33.9	33.9
35°	50.3	39.0	32.6	28.9	27.7	27.7	27.7
37.5°	42.7	32.6	25.2	22.6	21.3	20.1	20.1
40°	36.5	25.2	18.9	16.4	13.8	13.8	13.8
42.5°	30.2	20.1	13.8	10.1	8.8	7.6	8.8
45°	25.2	15.1	8.8	5.1	3.7	3.7	3.7
47.5°	20.1	10.1	3.7	1.2	1.2	1.2	1.2
50°	15.1	6.3	1.2	0.0	0.0	1.2	1.2
52.5°	11.3	3.7	0.0	0.0	0.0	0.0	0.0
55°	6.3	1.2	0.0	0.0	0.0	0.0	0.0
57.5°	3.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.2	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.2	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)