

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: P149339

Luminaire Tested: **VXS-E06-LED-E1-SL2-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149339
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-7030
Description: VISION SITE SMALL LED LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (126) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10048.2 lumens
Efficiency: N/A
Efficacy: 66.8 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

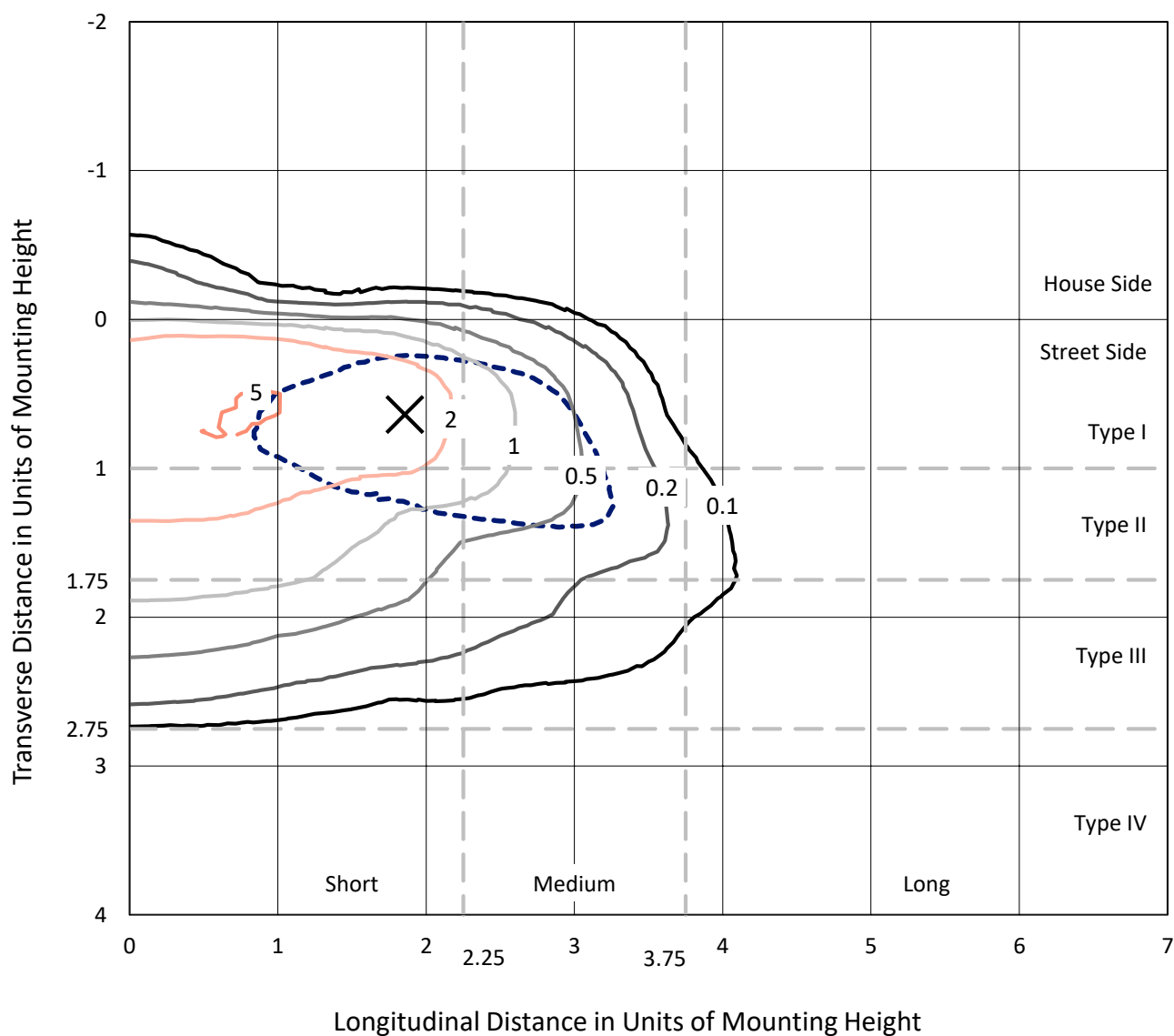


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

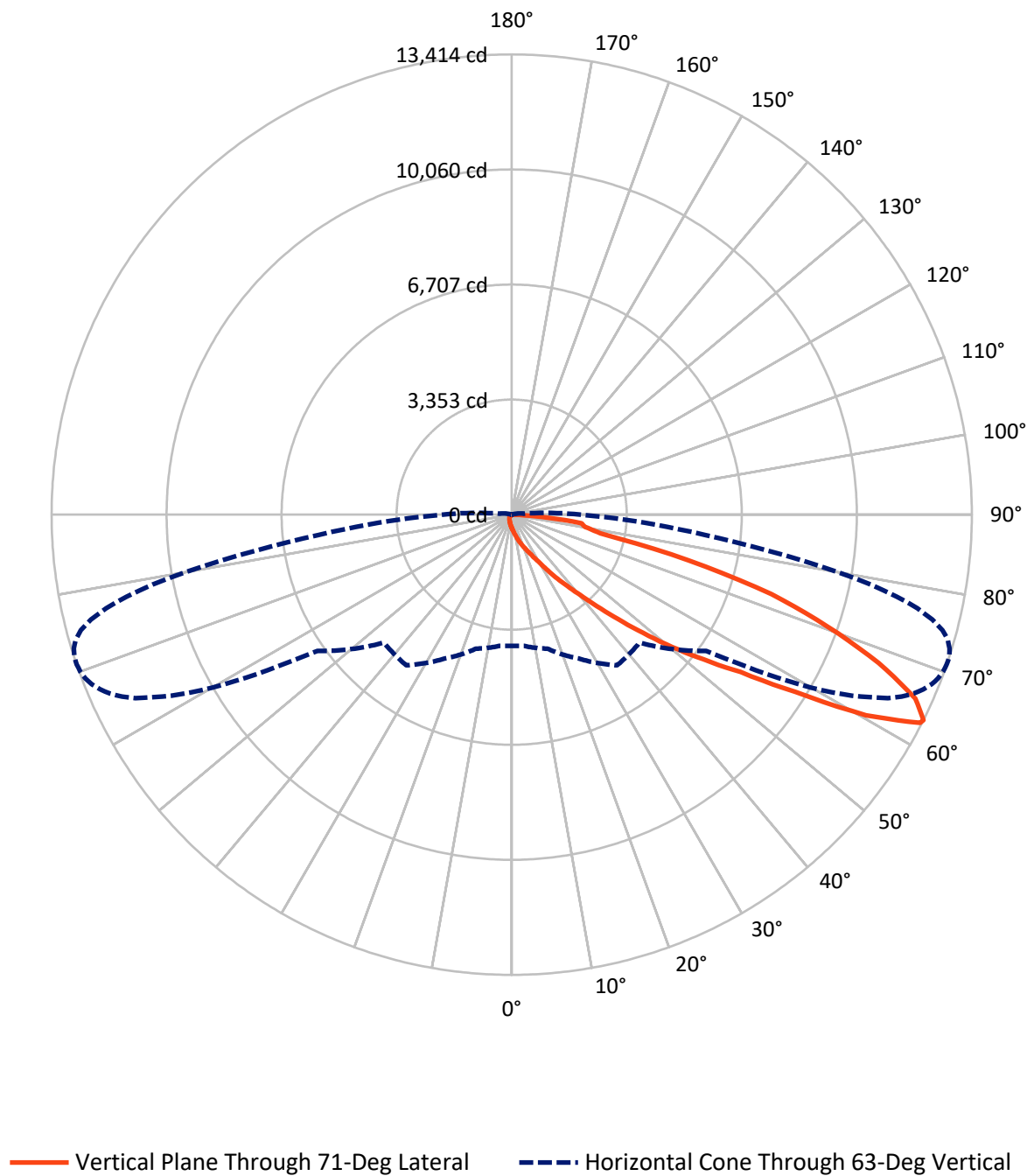


Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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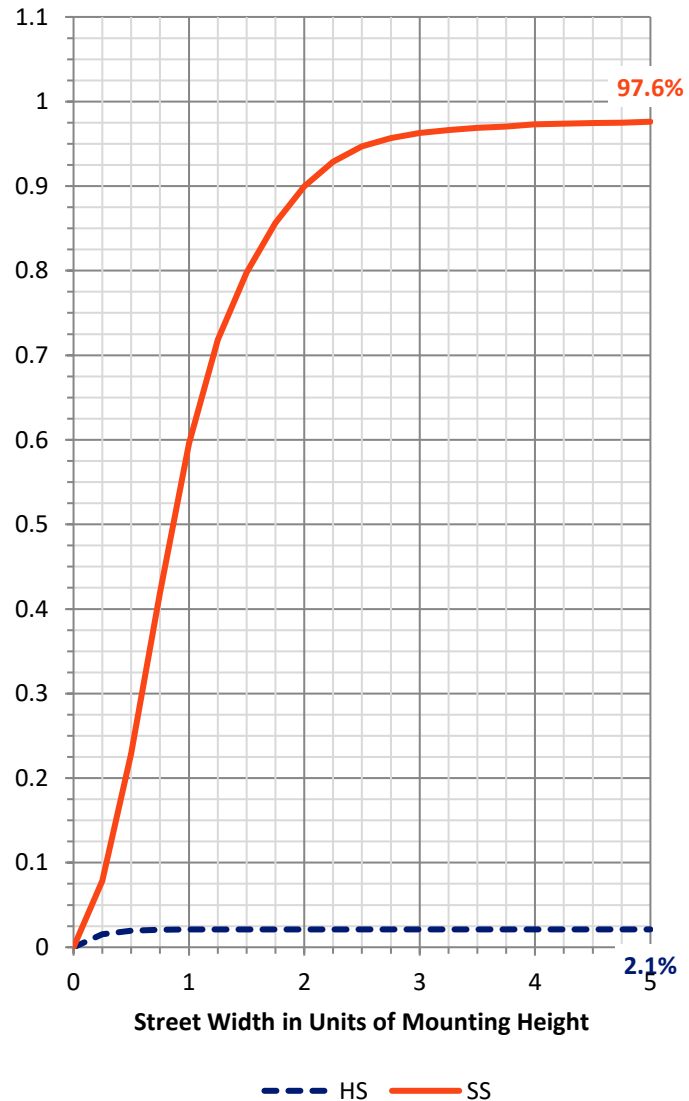
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	213.4	0.0	213.4
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	9834.8	0.0	9834.8
	% Fixture	97.9	0.0	97.9
Total	Lumens	10048.2	0.0	10048.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	0.4
10°-20°	165.2	1.6
20°-30°	335.6	3.3
30°-40°	819.9	8.2
40°-50°	1833.6	18.2
50°-60°	2578.3	25.7
60°-70°	3031.8	30.2
70°-80°	1094.8	10.9
80°-90°	146.4	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°	10048.2	100.0
0°-180°	10048.2	100.0

Coefficient of Utilization



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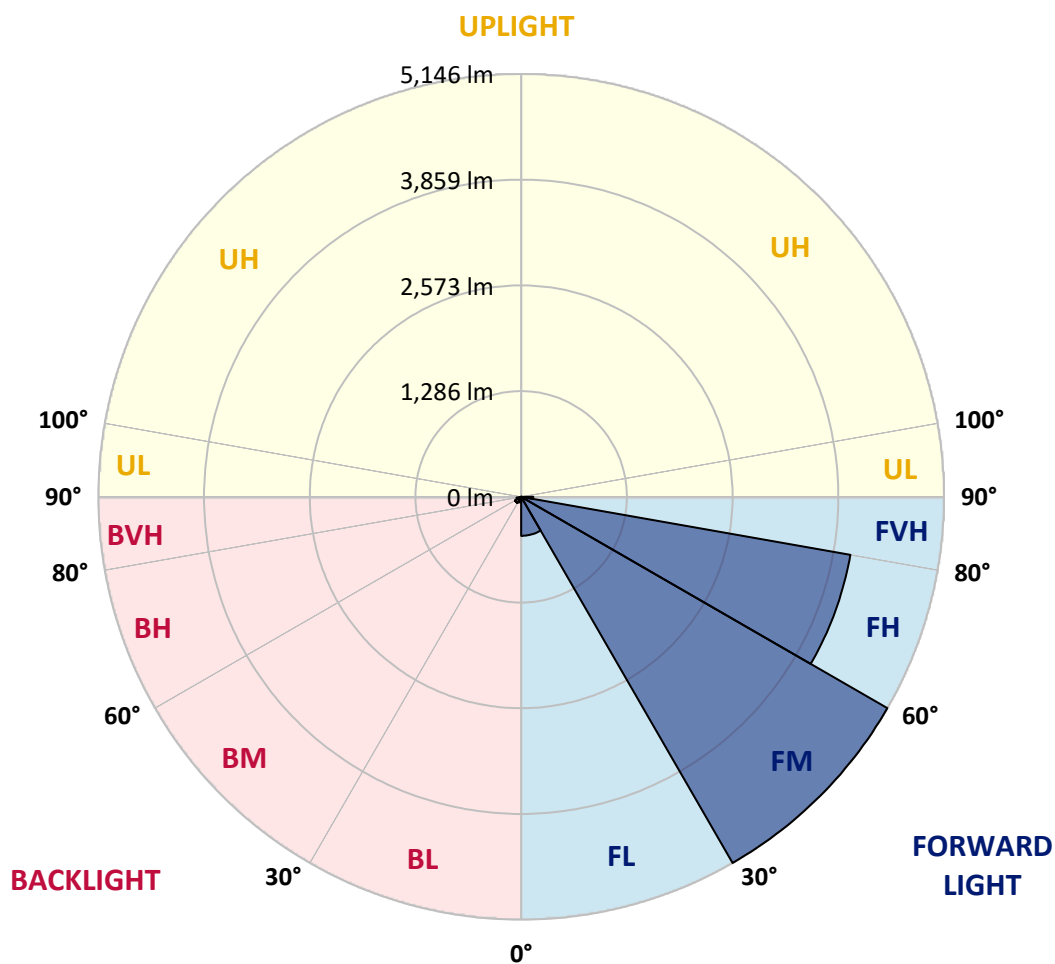
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	474.8	4.7			
FM	(30°-60°)	5145.8	51.2			
FH	(60°-80°)	4068.1	40.5			G2/5000
FVH	(80°-90°)	146.1	1.5			G2/225
BL	(0°-30°)	68.6	0.7	B0/110		
BM	(30°-60°)	86.0	0.9	B0/220		
BH	(60°-80°)	58.5	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°	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4
2.5°	504.1	509.6	506.0	496.9	485.9	471.3	458.5	458.5	456.7	451.2	453.1
5°	661.2	663.1	655.8	633.9	613.8	582.7	548.0	544.4	540.7	535.2	533.4
7.5°	814.7	822.0	814.7	791.0	750.8	703.3	648.5	643.0	632.0	632.0	624.8
10°	971.8	971.8	964.5	937.1	900.5	833.0	763.5	754.4	741.7	738.0	727.0
12.5°	1083.2	1083.2	1079.6	1065.0	1035.8	975.4	891.4	882.3	865.9	860.4	847.6
15°	1127.0	1127.0	1128.9	1141.7	1143.5	1116.2	1028.4	1021.1	1004.7	990.1	984.6
17.5°	1154.5	1152.6	1152.6	1170.9	1203.8	1222.1	1165.4	1158.1	1139.9	1132.5	1114.3
20°	1214.7	1211.1	1200.1	1200.1	1231.2	1295.1	1295.1	1293.3	1273.2	1267.8	1258.5
22.5°	1304.2	1300.6	1267.8	1240.3	1254.9	1335.3	1410.3	1406.5	1399.3	1391.9	1386.4
25°	1450.4	1437.6	1381.0	1300.6	1287.9	1373.7	1497.9	1507.0	1512.5	1512.5	1516.2
27.5°	1671.4	1655.0	1554.5	1404.8	1348.1	1435.8	1594.7	1613.0	1629.4	1633.1	1649.5
30°	1978.3	1949.1	1804.8	1585.6	1455.9	1527.2	1737.2	1757.3	1781.0	1788.3	1813.9
32.5°	2482.5	2466.0	2327.3	1998.4	1720.7	1706.1	1936.3	1961.9	1993.0	2005.7	2036.8
35°	3249.7	3253.4	3140.1	2844.1	2460.5	2259.6	2292.5	2314.4	2325.4	2363.7	2380.2
37.5°	3770.3	3779.5	3805.0	3688.1	3414.1	3209.5	2951.9	2975.6	2919.1	2924.6	2926.4
40°	4055.2	4084.5	4234.3	4347.6	4325.6	4206.9	4000.5	4013.3	3907.4	3883.5	3768.5
42.5°	4245.3	4283.6	4522.9	4873.7	5052.6	5160.4	5113.0	5107.5	5025.3	4994.2	4897.4
45°	4363.9	4398.7	4700.1	5217.1	5629.8	5944.0	6073.8	6088.4	6019.0	5987.9	5907.6
47.5°	4358.5	4398.7	4722.1	5345.0	5953.3	6455.5	6820.9	6839.2	6881.1	6853.8	6859.3
50°	4117.4	4155.8	4480.9	5127.6	5858.2	6689.3	7357.9	7416.4	7484.0	7529.6	7551.6
52.5°	3825.1	3852.5	4141.1	4754.9	5452.7	6592.5	7675.8	7776.3	7876.7	7962.6	8022.9
55°	3717.3	3748.4	3974.9	4484.6	5127.6	6187.0	7823.7	7971.7	8114.2	8254.8	8369.9
57.5°	3774.0	3803.2	3965.8	4356.7	4933.9	5759.6	7865.8	8096.0	8329.7	8558.1	8784.6
60°	3982.2	4013.3	4152.1	4475.4	4882.8	5513.0	7701.3	8083.1	8472.2	8870.5	9245.0
62.5°	3900.0	3912.7	4117.4	4683.6	5248.1	5302.9	7104.0	7637.4	8231.1	8844.9	9449.5
63°	3821.5	3836.1	4044.4	4627.0	5359.6	5271.8	6919.6	7482.2	8108.7	8769.9	9427.6
65°	3465.3	3467.0	3626.0	4086.3	5235.3	5326.6	6097.5	6634.6	7354.3	8147.0	8978.2
67.5°	2586.6	2573.8	2727.3	3078.0	4110.1	5328.5	5233.5	5534.9	6035.4	6738.7	7484.0
70°	917.0	896.9	1145.4	1631.3	2561.0	4358.5	4497.3	4517.4	4656.3	5036.2	5503.8
72.5°	297.7	303.2	365.4	597.3	1180.0	2933.7	4071.7	4009.6	3973.1	3971.3	4033.4
75°	118.8	120.5	146.1	264.9	529.7	1413.9	3565.7	3600.4	3613.3	3631.5	3651.6
77.5°	56.6	62.1	82.2	148.0	263.0	699.6	2551.9	2846.0	3014.1	3143.7	3222.3
80°	20.1	23.7	45.7	91.3	122.4	321.5	1344.5	1622.1	1868.7	2186.5	2460.5
82.5°	0.0	0.0	9.1	63.9	67.6	129.7	551.7	646.6	739.8	959.1	1231.2
85°	0.0	0.0	0.0	18.2	20.1	22.0	186.3	224.7	252.1	294.1	339.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	5.5	11.0	27.4	42.0
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°	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4
2.5°	449.3	447.6	447.6	443.9	442.1	438.4	436.6	431.1	429.3	429.3	429.3
5°	531.6	524.2	520.6	511.5	506.0	504.1	495.0	491.4	485.9	487.8	478.5
7.5°	622.9	610.2	604.7	591.8	588.2	575.4	571.7	562.6	557.1	546.2	542.5
10°	723.4	706.9	697.8	677.7	672.2	663.1	652.1	641.1	632.0	621.0	615.6
12.5°	838.4	823.8	816.6	789.1	776.4	763.5	748.9	734.3	719.7	710.6	697.8
15°	973.7	949.8	942.6	917.0	895.1	878.7	858.5	840.3	829.3	811.1	798.2
17.5°	1106.9	1083.2	1077.7	1039.4	1015.6	1004.7	982.8	959.1	939.0	920.6	900.5
20°	1240.3	1223.9	1209.3	1172.7	1147.2	1128.9	1099.7	1076.0	1059.5	1033.9	1008.3
22.5°	1373.7	1357.2	1346.3	1307.9	1284.1	1258.5	1233.1	1207.5	1183.7	1152.6	1123.4
25°	1510.7	1499.7	1494.2	1459.6	1437.6	1413.9	1388.3	1359.1	1329.8	1295.1	1264.0
27.5°	1653.2	1656.8	1645.9	1638.5	1614.8	1598.3	1558.1	1538.0	1516.2	1474.2	1435.8
30°	1834.0	1845.0	1841.3	1846.8	1832.2	1821.2	1790.2	1764.6	1739.1	1698.9	1655.0
32.5°	2062.4	2077.0	2084.2	2104.4	2097.1	2093.4	2084.2	2047.8	2029.4	1960.0	1941.8
35°	2414.9	2407.6	2438.7	2455.1	2447.8	2444.1	2433.2	2413.1	2391.2	2341.9	2296.2
37.5°	2873.4	2880.7	2891.7	2858.8	2836.9	2835.0	2802.2	2782.1	2751.0	2696.2	2641.5
40°	3713.7	3668.0	3616.9	3478.0	3417.7	3383.0	3286.2	3258.9	3205.9	3131.0	3074.3
42.5°	4806.0	4760.4	4606.9	4374.9	4250.8	4079.1	4000.5	3903.6	3828.8	3706.4	3640.6
45°	5891.1	5759.6	5741.3	5471.0	5317.5	5091.0	4950.4	4787.8	4617.9	4457.1	4340.2
47.5°	6806.3	6777.1	6687.6	6523.1	6380.6	6190.7	6009.8	5759.6	5584.2	5355.9	5145.8
50°	7538.8	7537.0	7504.0	7409.1	7290.4	7136.9	6978.0	6766.1	6566.9	6287.5	6062.8
52.5°	8086.8	8116.1	8126.9	8097.7	8052.1	7916.9	7836.6	7659.4	7491.3	7253.8	7010.9
55°	8488.7	8596.5	8651.3	8713.4	8700.6	8653.1	8649.4	8534.3	8457.6	8269.4	8097.7
57.5°	8985.5	9162.7	9332.6	9634.0	9645.0	9750.9	9805.7	9860.5	9875.1	9800.2	9743.6
60°	9617.6	9979.3	10300.7	10931.0	11095.3	11354.8	11522.8	11705.5	11860.7	11873.6	11869.9
62.5°	10063.3	10620.4	11139.2	12074.5	12394.2	12693.8	12918.4	13095.6	13203.4	13313.0	13364.1
63°	10076.1	10686.2	11237.8	12202.4	12538.4	12823.4	13037.2	13201.6	13314.8	13380.6	13413.5
65°	9767.4	10507.2	11164.8	12125.6	12441.7	12728.5	12839.9	12947.7	13002.5	13028.0	12931.2
67.5°	8278.7	9002.0	9769.2	10843.3	11113.7	11457.1	11548.4	11603.2	11628.8	11623.3	11541.1
70°	6190.7	6797.2	7650.3	8877.7	9235.8	9571.9	9780.2	9869.6	9898.9	9889.7	9767.4
72.5°	4322.0	4678.1	5381.5	6747.9	7235.5	7666.6	7924.2	8057.6	8085.0	8030.2	7916.9
75°	3629.6	3647.9	3806.8	4554.0	5010.7	5471.0	5761.5	5845.5	5790.7	5624.5	5335.8
77.5°	3240.5	3280.7	3280.7	3392.2	3481.7	3609.5	3637.0	3432.3	3194.9	2888.0	2639.6
80°	2718.1	2858.8	2957.4	3039.6	3048.8	3023.2	2955.6	2840.5	2657.8	2424.0	2164.7
82.5°	1651.3	1929.0	2042.3	2466.0	2674.3	2814.9	2803.9	2650.6	2511.7	2268.8	2047.8
85°	416.5	449.3	487.8	633.9	710.6	867.7	966.3	1012.0	1028.4	944.5	854.9
87.5°	40.2	27.4	45.7	34.7	49.3	36.6	49.3	45.7	56.6	60.3	65.8
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°	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4
2.5°	425.6	423.8	422.0	420.1	418.3	416.5	412.8	412.8	409.2	407.4	405.5
5°	473.2	469.4	467.7	463.9	458.5	454.8	449.3	442.1	436.6	434.7	431.1
7.5°	533.4	524.2	520.6	515.1	507.8	496.9	489.5	484.0	474.9	469.4	458.5
10°	601.0	591.8	580.9	569.9	559.0	546.2	537.1	529.7	515.1	507.8	495.0
12.5°	686.8	670.4	657.6	643.0	628.4	613.8	602.8	580.9	568.1	551.7	540.7
15°	774.5	759.9	745.3	727.0	705.1	681.3	670.4	650.3	633.9	608.3	593.7
17.5°	880.5	853.1	831.2	809.2	789.1	767.3	745.3	714.2	690.5	668.6	639.4
20°	984.6	951.7	928.0	898.8	869.5	834.8	809.2	787.4	754.4	725.2	694.2
22.5°	1096.1	1063.1	1024.8	995.5	955.3	928.0	893.3	856.7	823.8	785.5	747.2
25°	1231.2	1196.5	1152.6	1114.3	1068.6	1030.3	988.3	946.2	906.0	862.2	812.8
27.5°	1397.4	1360.9	1313.4	1267.8	1207.5	1160.0	1119.8	1063.1	1012.0	957.2	900.5
30°	1607.5	1567.4	1508.8	1443.1	1382.8	1329.8	1273.2	1198.3	1141.7	1076.0	1002.9
32.5°	1881.5	1834.0	1755.4	1693.4	1618.4	1549.0	1470.5	1395.6	1315.2	1229.3	1145.4
35°	2226.7	2182.9	2091.6	2000.2	1918.0	1835.9	1737.2	1651.3	1538.0	1434.0	1326.2
37.5°	2584.8	2506.2	2422.2	2323.5	2221.2	2122.6	2002.1	1883.3	1753.7	1640.4	1505.2
40°	2994.0	2899.0	2829.5	2723.6	2579.3	2438.7	2327.3	2179.3	2016.7	1865.1	1706.1
42.5°	3554.7	3448.8	3324.6	3163.8	3059.7	2895.3	2751.0	2575.6	2362.0	2192.0	2000.2
45°	4203.2	4059.0	3938.3	3783.1	3657.1	3452.4	3284.5	3050.6	2836.9	2614.0	2380.2
47.5°	4943.0	4764.0	4588.7	4435.2	4234.3	4033.4	3819.6	3571.2	3297.2	3052.4	2774.7
50°	5792.4	5538.5	5295.6	5098.3	4822.5	4590.5	4358.5	4079.1	3775.8	3494.5	3178.4
52.5°	6736.9	6442.8	6121.2	5818.0	5498.3	5200.6	4921.1	4599.6	4261.7	3918.2	3565.7
55°	7876.7	7655.8	7277.6	6892.1	6464.7	6066.4	5706.6	5308.4	4897.4	4446.2	4075.3
57.5°	9661.5	9553.7	9237.6	8852.2	8295.0	7811.0	7200.8	6713.2	6117.6	5496.6	5017.9
60°	12080.0	11946.6	11769.4	11457.1	11015.0	10357.4	9685.2	8927.0	8021.0	7160.6	6344.1
62.5°	13369.6	13322.2	13177.8	12962.3	12549.4	12030.7	11353.0	10520.0	9497.0	8452.1	7410.9
63°	13408.0	13347.7	13223.5	13004.2	12640.7	12138.4	11473.5	10664.2	9663.2	8598.2	7535.1
65°	12889.2	12865.5	12739.4	12500.1	12251.7	11868.1	11353.0	10657.0	9816.7	8810.2	7752.5
67.5°	11431.5	11360.2	11166.6	11093.6	10920.0	10653.4	10260.6	9782.0	9181.0	8390.1	7476.7
70°	9668.7	9562.8	9319.8	9190.2	8978.2	8810.2	8570.9	8229.3	7858.4	7306.8	6625.5
72.5°	7800.0	7580.8	7357.9	7020.0	6724.0	6424.5	6159.6	5918.5	5511.2	5288.3	4771.3
75°	5065.5	4667.3	4285.4	3774.0	3313.7	2906.3	2509.8	2308.9	1890.7	1720.7	1477.8
77.5°	2403.9	2181.0	1881.5	1649.5	1353.6	1105.2	902.4	677.7	531.6	416.5	317.8
80°	1940.0	1751.8	1571.0	1360.9	1138.0	907.9	696.0	520.6	369.0	255.8	180.8
82.5°	1729.8	1525.3	1302.5	1158.1	1006.5	823.8	675.9	551.7	407.4	297.7	202.8
85°	672.2	566.3	436.6	356.2	277.6	228.3	206.4	142.5	111.4	87.7	67.6
87.5°	58.4	47.5	38.3	25.6	27.4	14.6	16.5	11.0	9.1	9.1	7.4
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°	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4	385.4
2.5°	403.7	401.9	400.0	396.4	396.4	392.7	390.9	389.1	380.0	359.9	343.4
5°	423.8	420.1	416.5	411.0	407.4	401.9	398.2	392.7	372.6	334.3	301.5
7.5°	453.1	445.7	440.2	429.3	423.8	416.5	411.0	401.9	369.0	310.6	264.9
10°	487.8	474.9	465.8	453.1	442.1	433.0	423.8	411.0	365.4	285.0	232.0
12.5°	529.7	515.1	496.9	482.3	467.7	454.8	442.1	425.6	359.9	263.0	206.4
15°	571.7	549.8	537.1	517.0	496.9	478.5	460.3	445.7	361.7	239.3	184.5
17.5°	619.3	597.3	569.9	548.0	526.1	502.4	480.4	451.2	352.5	221.0	168.1
20°	664.9	633.9	608.3	580.9	549.8	520.6	493.2	467.7	345.3	202.8	153.5
22.5°	714.2	677.7	644.9	610.2	571.7	538.9	506.0	473.2	332.4	186.3	140.6
25°	774.5	732.5	685.0	643.0	602.8	562.6	520.6	480.4	319.7	171.7	131.5
27.5°	847.6	792.7	745.3	692.3	635.6	584.6	538.9	495.0	306.8	160.7	122.4
30°	940.7	876.8	809.2	741.7	681.3	622.9	559.0	504.1	294.1	149.7	113.3
32.5°	1065.0	984.6	902.4	823.8	743.4	668.6	601.0	529.7	286.8	140.6	104.1
35°	1229.3	1125.3	1024.8	926.1	829.3	738.0	650.3	569.9	286.8	129.7	93.2
37.5°	1384.7	1264.0	1136.2	1013.8	898.8	792.7	688.7	591.8	272.2	120.5	84.0
40°	1552.7	1408.4	1258.5	1114.3	975.4	843.9	725.2	613.8	259.4	109.6	74.9
42.5°	1810.3	1627.6	1432.1	1264.0	1097.8	935.2	787.4	655.8	242.9	98.7	65.8
45°	2148.2	1916.2	1686.0	1481.5	1269.5	1070.5	895.1	732.5	239.3	89.5	56.6
47.5°	2509.8	2235.9	1965.5	1704.4	1455.9	1223.9	1013.8	818.3	239.3	80.4	49.3
50°	2869.7	2526.3	2237.7	1934.5	1655.0	1381.0	1130.8	907.9	241.1	73.1	40.2
52.5°	3194.9	2827.8	2504.5	2153.7	1845.0	1527.2	1254.9	995.5	237.5	63.9	32.8
55°	3646.1	3215.0	2840.5	2453.3	2091.6	1733.6	1424.9	1127.0	239.3	56.6	27.4
57.5°	4477.2	3971.3	3520.1	3012.2	2595.8	2133.6	1759.1	1397.4	261.2	47.5	20.1
60°	5670.1	5012.4	4378.7	3759.4	3229.6	2679.8	2193.9	1768.3	306.8	38.3	14.6
62.5°	6472.0	5611.6	4855.3	4172.2	3556.6	2981.1	2451.4	1967.4	337.9	31.1	9.1
63°	6554.2	5664.6	4904.7	4199.6	3571.2	2995.8	2462.4	1982.0	339.8	29.2	9.1
65°	6709.4	5756.0	4932.1	4205.1	3556.6	2975.6	2455.1	1980.1	343.4	23.7	7.4
67.5°	6532.3	5615.2	4773.2	4048.0	3428.7	2857.0	2363.7	1907.0	341.6	16.5	5.5
70°	5841.8	5081.9	4342.1	3666.2	3103.5	2586.6	2151.8	1739.1	314.2	11.0	3.6
72.5°	4289.1	3772.1	3198.5	2710.8	2338.1	1941.8	1656.8	1306.1	242.9	7.4	1.9
75°	1271.4	1158.1	973.7	858.5	758.0	626.5	557.1	434.7	124.2	3.6	0.0
77.5°	253.9	230.2	206.4	188.2	177.2	151.6	144.4	118.8	51.2	1.9	0.0
80°	133.4	109.6	93.2	82.2	71.2	58.4	49.3	40.2	9.1	0.0	0.0
82.5°	127.9	85.9	62.1	51.2	43.8	34.7	27.4	20.1	5.5	0.0	0.0
85°	47.5	36.6	27.4	22.0	18.2	16.5	12.7	11.0	0.0	0.0	0.0
87.5°	7.4	5.5	5.5	3.6	3.6	1.9	1.9	1.9	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°	385.4	385.4	385.4	385.4	385.4	385.4	385.4
2.5°	326.9	312.3	305.1	296.0	296.0	294.1	297.7
5°	272.2	252.1	237.5	226.5	228.3	222.9	224.7
7.5°	230.2	210.1	197.3	189.9	188.2	186.3	186.3
10°	199.1	180.8	169.8	164.4	162.6	162.6	162.6
12.5°	177.2	159.0	149.7	146.1	146.1	144.4	144.4
15°	159.0	144.4	135.1	131.5	131.5	129.7	131.5
17.5°	144.4	129.7	122.4	118.8	118.8	116.9	116.9
20°	131.5	118.8	111.4	105.9	105.9	104.1	105.9
22.5°	120.5	107.8	98.7	95.0	93.2	91.3	93.2
25°	109.6	96.8	87.7	82.2	80.4	80.4	78.5
27.5°	100.5	87.7	76.7	71.2	69.4	69.4	67.6
30°	91.3	76.7	65.8	60.3	58.4	58.4	58.4
32.5°	82.2	65.8	56.6	51.2	49.3	49.3	49.3
35°	73.1	56.6	47.5	42.0	40.2	40.2	40.2
37.5°	62.1	47.5	36.6	32.8	31.1	29.2	29.2
40°	53.0	36.6	27.4	23.7	20.1	20.1	20.1
42.5°	43.8	29.2	20.1	14.6	12.7	11.0	12.7
45°	36.6	22.0	12.7	7.4	5.5	5.5	5.5
47.5°	29.2	14.6	5.5	1.9	1.9	1.9	1.9
50°	22.0	9.1	1.9	0.0	0.0	1.9	1.9
52.5°	16.5	5.5	0.0	0.0	0.0	0.0	0.0
55°	9.1	1.9	0.0	0.0	0.0	0.0	0.0
57.5°	5.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	3.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.9	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.9	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.9	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)