

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: P149278

Luminaire Tested: **VXM-E06-LED-E1-SL2-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149278
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: VXM-E06-LED-E1-SL2-HSS-8030
Description: VISION SITE MEDIUM LED LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (126) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9285.1 lumens
Efficiency: N/A
Efficacy: 61.7 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

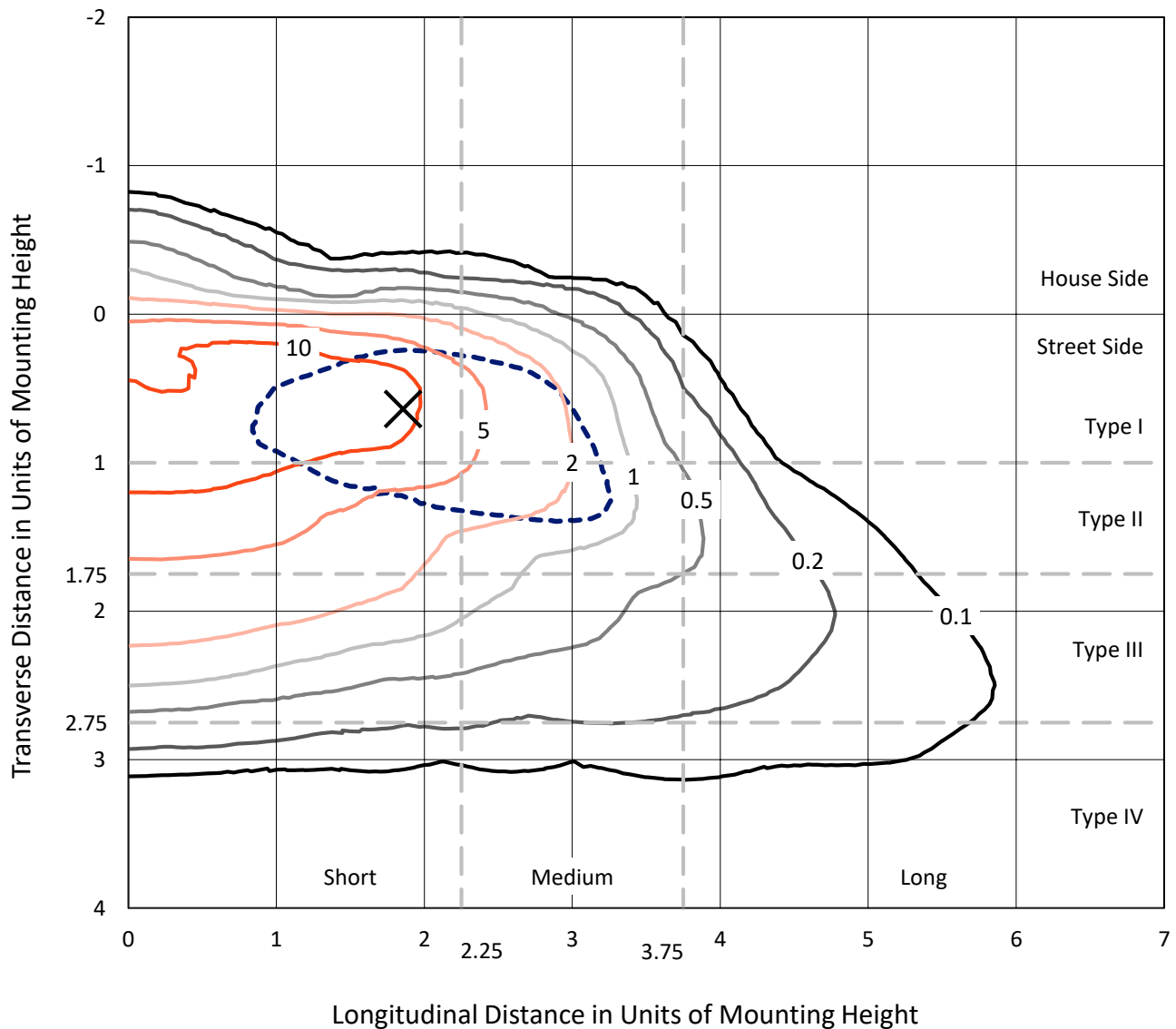


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

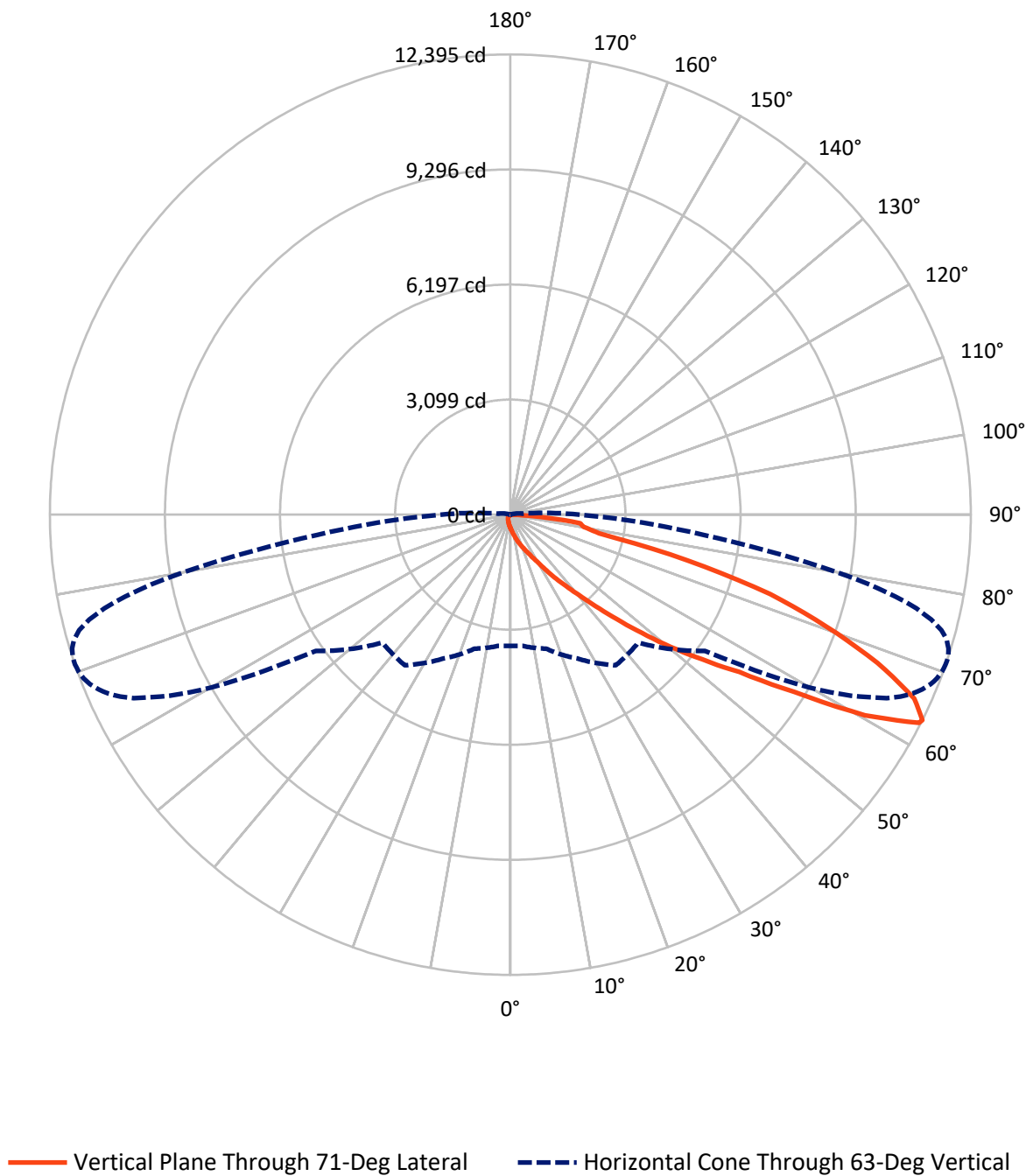


Based on 10 foot mounting height. Maximum calculated value = 19.5 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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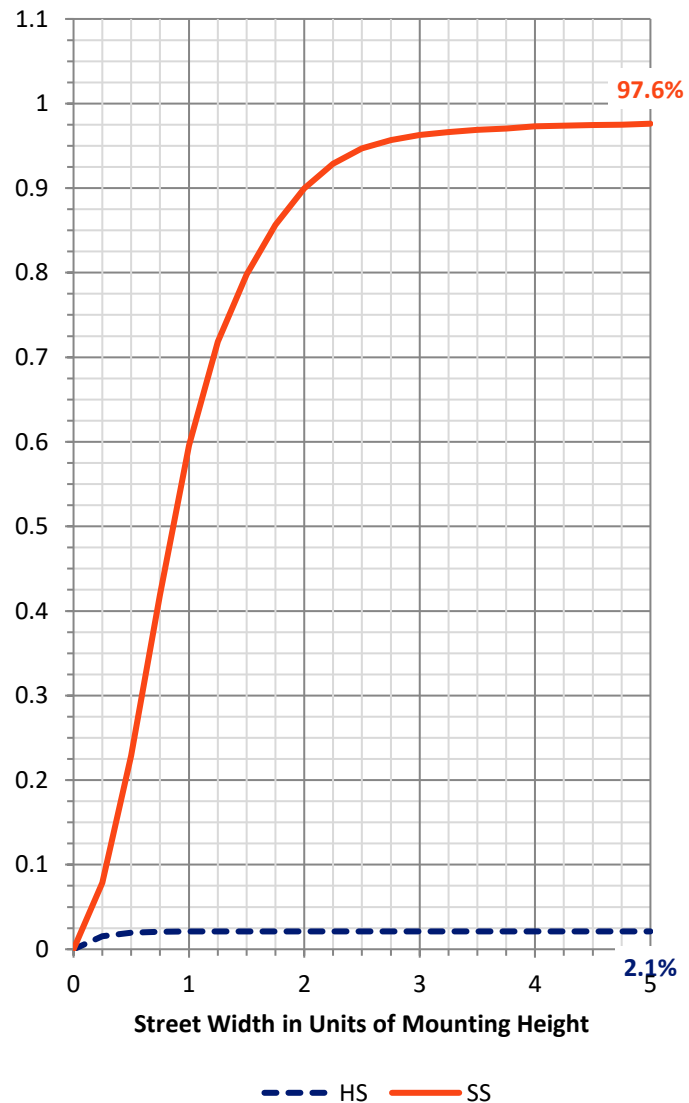
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	197.2	0.0	197.2
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	9088.0	0.0	9088.0
	% Fixture	97.9	0.0	97.9
Total	Lumens	9285.1	0.0	9285.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	0.4
10°-20°	152.7	1.6
20°-30°	310.1	3.3
30°-40°	757.6	8.2
40°-50°	1694.4	18.2
50°-60°	2382.5	25.7
60°-70°	2801.6	30.2
70°-80°	1011.6	10.9
80°-90°	135.3	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°	9285.1	100.0
0°-180°	9285.1	100.0

Coefficient of Utilization



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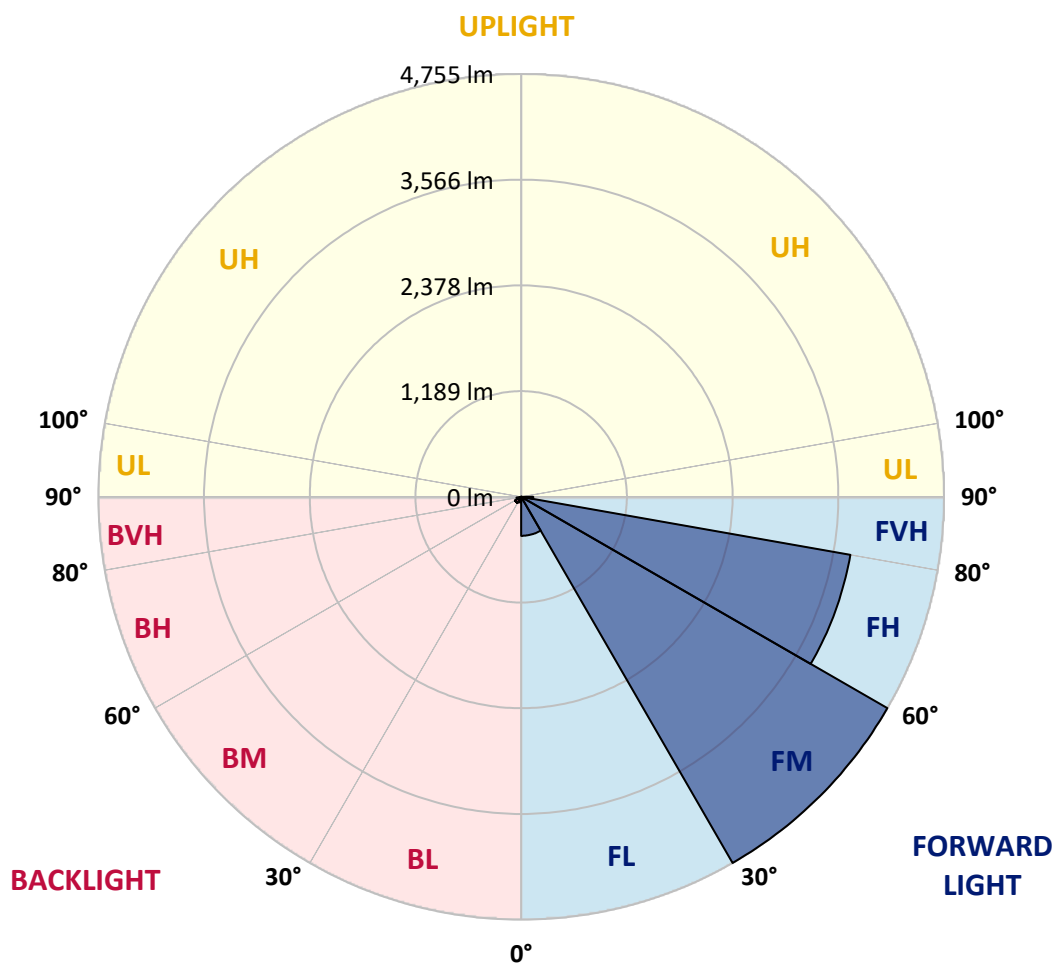
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	438.8	4.7			
FM	(30°-60°)	4755.1	51.2			
FH	(60°-80°)	3759.2	40.5			G2/5000
FVH	(80°-90°)	135.0	1.5			G2/225
BL	(0°-30°)	63.4	0.7	B0/110		
BM	(30°-60°)	79.4	0.9	B0/220		
BH	(60°-80°)	54.1	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°	356.2	356.2	356.2	356.2	356.2	356.2	356.2	356.2	356.2	356.2	356.2
2.5°	465.9	470.9	467.6	459.1	449.0	435.5	423.7	423.7	422.0	416.9	418.6
5°	611.0	612.7	606.0	585.7	567.2	538.5	506.4	503.0	499.6	494.6	492.9
7.5°	752.8	759.6	752.8	730.9	693.8	649.9	599.2	594.2	584.0	584.0	577.3
10°	898.0	898.0	891.3	865.9	832.2	769.7	705.6	697.1	685.3	681.9	671.8
12.5°	1001.0	1001.0	997.6	984.1	957.1	901.4	823.7	815.3	800.1	795.0	783.2
15°	1041.5	1041.5	1043.2	1055.0	1056.7	1031.4	950.3	943.6	928.4	914.9	909.8
17.5°	1066.8	1065.1	1065.1	1082.0	1112.4	1129.3	1076.9	1070.2	1053.3	1046.5	1029.7
20°	1122.5	1119.1	1109.0	1109.0	1137.7	1196.8	1196.8	1195.1	1176.5	1171.5	1163.0
22.5°	1205.2	1201.8	1171.5	1146.1	1159.6	1233.9	1303.1	1299.7	1293.0	1286.2	1281.2
25°	1340.3	1328.4	1276.1	1201.8	1190.0	1269.4	1384.1	1392.6	1397.6	1397.6	1401.0
27.5°	1544.5	1529.3	1436.5	1298.1	1245.7	1326.8	1473.6	1490.5	1505.7	1509.1	1524.2
30°	1828.1	1801.1	1667.7	1465.2	1345.3	1411.2	1605.3	1623.8	1645.8	1652.5	1676.2
32.5°	2294.0	2278.8	2150.5	1846.7	1590.1	1576.6	1789.3	1812.9	1841.6	1853.4	1882.1
35°	3002.9	3006.3	2901.6	2628.2	2273.7	2088.0	2118.4	2138.7	2148.8	2184.2	2199.4
37.5°	3484.0	3492.4	3516.1	3408.0	3154.8	2965.8	2727.8	2749.7	2697.4	2702.5	2704.1
40°	3747.3	3774.3	3912.7	4017.4	3997.1	3887.4	3696.7	3708.5	3610.6	3588.6	3482.3
42.5°	3922.9	3958.3	4179.4	4503.5	4669.0	4768.5	4724.7	4719.6	4643.6	4614.9	4525.5
45°	4032.6	4064.7	4343.2	4820.9	5202.4	5492.7	5612.5	5626.0	5561.9	5533.2	5458.9
47.5°	4027.5	4064.7	4363.4	4939.0	5501.1	5965.3	6302.9	6319.8	6358.6	6333.3	6338.4
50°	3804.7	3840.2	4140.6	4738.2	5413.4	6181.4	6799.2	6853.2	6915.7	6957.9	6978.1
52.5°	3534.6	3560.0	3826.7	4393.8	5038.6	6091.9	7092.9	7185.7	7278.6	7357.9	7413.6
55°	3435.0	3463.7	3673.0	4144.0	4738.2	5717.2	7229.6	7366.4	7498.0	7628.0	7734.3
57.5°	3487.4	3514.4	3664.6	4025.8	4559.2	5322.2	7268.4	7481.1	7697.2	7908.2	8117.5
60°	3679.8	3708.5	3836.8	4135.6	4512.0	5094.3	7116.5	7469.3	7828.9	8196.8	8542.9
62.5°	3603.8	3615.7	3804.7	4328.0	4849.6	4900.2	6564.6	7057.5	7606.0	8173.2	8731.9
63°	3531.3	3544.8	3737.2	4275.7	4952.5	4871.5	6394.1	6914.0	7493.0	8104.0	8711.7
65°	3202.1	3203.8	3350.6	3776.0	4837.8	4922.2	5634.5	6130.8	6795.8	7528.4	8296.4
67.5°	2390.2	2378.4	2520.2	2844.2	3798.0	4923.8	4836.1	5114.6	5577.1	6227.0	6915.7
70°	847.4	828.8	1058.4	1507.4	2366.6	4027.5	4155.8	4174.4	4302.7	4653.8	5085.9
72.5°	275.1	280.2	337.6	552.0	1090.4	2710.9	3762.5	3705.1	3671.4	3669.7	3727.1
75°	109.7	111.4	135.0	244.8	489.5	1306.5	3294.9	3327.0	3338.8	3355.7	3374.3
77.5°	52.3	57.4	76.0	136.7	243.1	646.5	2358.1	2629.9	2785.2	2905.0	2977.6
80°	18.6	21.9	42.2	84.4	113.1	297.1	1242.4	1498.9	1726.8	2020.5	2273.7
82.5°	0.0	0.0	8.4	59.1	62.5	119.8	509.8	597.5	683.6	886.2	1137.7
85°	0.0	0.0	0.0	16.9	18.6	20.3	172.2	207.6	232.9	271.8	314.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.1	10.1	25.3	38.8
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	356.2	356.2	356.2	356.2	356.2	356.2	356.2	356.2	356.2	356.2	356.2
2.5°	415.2	413.6	413.6	410.2	408.5	405.1	403.4	398.4	396.7	396.7	396.7
5°	491.2	484.5	481.1	472.6	467.6	465.9	457.4	454.1	449.0	450.7	442.3
7.5°	575.6	563.8	558.7	546.9	543.5	531.7	528.3	519.9	514.8	504.7	501.3
10°	668.4	653.2	644.8	626.2	621.2	612.7	602.6	592.5	584.0	573.9	568.8
12.5°	774.8	761.3	754.5	729.2	717.4	705.6	692.1	678.6	665.1	656.6	644.8
15°	899.7	877.8	871.0	847.4	827.1	811.9	793.4	776.5	766.3	749.5	737.6
17.5°	1022.9	1001.0	995.9	960.5	938.5	928.4	908.1	886.2	867.6	850.7	832.2
20°	1146.1	1130.9	1117.4	1083.7	1060.1	1043.2	1016.2	994.2	979.0	955.4	931.8
22.5°	1269.4	1254.2	1244.0	1208.6	1186.7	1163.0	1139.4	1115.8	1093.8	1065.1	1038.1
25°	1396.0	1385.8	1380.8	1348.7	1328.4	1306.5	1282.9	1255.9	1228.9	1196.8	1168.1
27.5°	1527.6	1531.0	1520.9	1514.1	1492.2	1477.0	1439.8	1421.3	1401.0	1362.2	1326.8
30°	1694.7	1704.9	1701.5	1706.5	1693.0	1682.9	1654.2	1630.6	1607.0	1569.8	1529.3
32.5°	1905.7	1919.2	1926.0	1944.6	1937.8	1934.4	1926.0	1892.2	1875.3	1811.2	1794.3
35°	2231.5	2224.8	2253.5	2268.6	2261.9	2258.5	2248.4	2229.8	2209.6	2164.0	2121.8
37.5°	2655.2	2661.9	2672.1	2641.7	2621.4	2619.7	2589.4	2570.8	2542.1	2491.5	2440.8
40°	3431.7	3389.5	3342.2	3213.9	3158.2	3126.1	3036.7	3011.4	2962.4	2893.2	2840.9
42.5°	4441.1	4398.9	4257.1	4042.7	3927.9	3769.3	3696.7	3607.2	3538.0	3424.9	3364.1
45°	5443.7	5322.2	5305.3	5055.5	4913.7	4704.4	4574.4	4424.2	4267.2	4118.7	4010.6
47.5°	6289.4	6262.4	6179.7	6027.8	5896.1	5720.6	5553.5	5322.2	5160.2	4949.2	4755.0
50°	6966.3	6964.6	6934.2	6846.5	6736.7	6594.9	6448.1	6252.3	6068.3	5810.0	5602.4
52.5°	7472.7	7499.7	7509.8	7482.8	7440.6	7315.7	7241.4	7077.7	6922.4	6703.0	6478.5
55°	7844.1	7943.6	7994.3	8051.7	8039.9	7996.0	7992.6	7886.3	7815.4	7641.5	7482.8
57.5°	8303.2	8466.9	8623.9	8902.4	8912.5	9010.4	9061.1	9111.7	9125.2	9056.0	9003.7
60°	8887.2	9221.4	9518.5	10100.9	10252.8	10492.5	10647.8	10816.6	10960.1	10971.9	10968.5
62.5°	9299.1	9813.9	10293.3	11157.6	11453.0	11729.8	11937.4	12101.1	12200.7	12302.0	12349.3
63°	9310.9	9874.7	10384.5	11275.7	11586.3	11849.6	12047.1	12199.0	12303.7	12364.5	12394.9
65°	9025.6	9709.3	10316.9	11204.8	11496.8	11761.9	11864.8	11964.4	12015.1	12038.7	11949.2
67.5°	7649.9	8318.4	9027.3	10019.9	10269.7	10587.0	10671.4	10722.1	10745.7	10740.6	10664.7
70°	5720.6	6281.0	7069.3	8203.6	8534.4	8845.0	9037.5	9120.2	9147.2	9138.7	9025.6
72.5°	3993.8	4322.9	4972.8	6235.4	6686.1	7084.5	7322.5	7445.7	7471.0	7420.4	7315.7
75°	3354.0	3370.9	3517.8	4208.1	4630.1	5055.5	5323.9	5401.5	5350.9	5197.3	4930.6
77.5°	2994.5	3031.6	3031.6	3134.6	3217.3	3335.5	3360.8	3171.7	2952.3	2668.7	2439.1
80°	2511.7	2641.7	2732.8	2808.8	2817.2	2793.6	2731.2	2624.8	2456.0	2240.0	2000.3
82.5°	1525.9	1782.5	1887.2	2278.8	2471.2	2601.2	2591.1	2449.3	2321.0	2096.5	1892.2
85°	384.9	415.2	450.7	585.7	656.6	801.8	892.9	935.1	950.3	872.7	790.0
87.5°	37.1	25.3	42.2	32.1	45.6	33.8	45.6	42.2	52.3	55.7	60.8
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°	356.2	356.2	356.2	356.2	356.2	356.2	356.2	356.2	356.2	356.2	356.2
2.5°	393.3	391.6	389.9	388.2	386.5	384.9	381.5	381.5	378.1	376.4	374.7
5°	437.2	433.8	432.1	428.7	423.7	420.3	415.2	408.5	403.4	401.7	398.4
7.5°	492.9	484.5	481.1	476.0	469.3	459.1	452.4	447.3	438.9	433.8	423.7
10°	555.3	546.9	536.8	526.7	516.5	504.7	496.3	489.5	476.0	469.3	457.4
12.5°	634.7	619.5	607.7	594.2	580.7	567.2	557.0	536.8	525.0	509.8	499.6
15°	715.7	702.2	688.7	671.8	651.6	629.6	619.5	600.9	585.7	562.1	548.6
17.5°	813.6	788.3	768.0	747.8	729.2	709.0	688.7	660.0	638.1	617.8	590.8
20°	909.8	879.4	857.5	830.5	803.5	771.4	747.8	727.5	697.1	670.1	641.4
22.5°	1012.8	982.4	947.0	920.0	882.8	857.5	825.4	791.7	761.3	725.8	690.4
25°	1137.7	1105.6	1065.1	1029.7	987.5	952.0	913.2	874.4	837.2	796.7	751.2
27.5°	1291.3	1257.5	1213.7	1171.5	1115.8	1071.9	1034.7	982.4	935.1	884.5	832.2
30°	1485.4	1448.3	1394.3	1333.5	1277.8	1228.9	1176.5	1107.3	1055.0	994.2	926.7
32.5°	1738.6	1694.7	1622.2	1564.8	1495.6	1431.4	1358.8	1289.6	1215.3	1136.0	1058.4
35°	2057.6	2017.1	1932.7	1848.3	1772.4	1696.4	1605.3	1525.9	1421.3	1325.1	1225.5
37.5°	2388.5	2315.9	2238.3	2147.1	2052.6	1961.4	1850.0	1740.3	1620.5	1515.8	1390.9
40°	2766.6	2678.8	2614.7	2516.8	2383.4	2253.5	2150.5	2013.8	1863.5	1723.4	1576.6
42.5°	3284.8	3186.9	3072.1	2923.6	2827.4	2675.5	2542.1	2380.1	2182.6	2025.6	1848.3
45°	3884.0	3750.7	3639.3	3495.8	3379.3	3190.3	3035.0	2818.9	2621.4	2415.5	2199.4
47.5°	4567.7	4402.3	4240.2	4098.4	3912.7	3727.1	3529.6	3300.0	3046.8	2820.6	2564.0
50°	5352.6	5118.0	4893.5	4711.2	4456.3	4241.9	4027.5	3769.3	3489.1	3229.1	2937.1
52.5°	6225.3	5953.5	5656.4	5376.2	5080.8	4805.7	4547.4	4250.3	3938.1	3620.7	3294.9
55°	7278.6	7074.3	6724.9	6368.8	5973.8	5605.8	5273.3	4905.3	4525.5	4108.5	3765.9
57.5°	8927.7	8828.1	8536.1	8180.0	7665.1	7217.8	6654.0	6203.3	5653.1	5079.1	4636.9
60°	11162.6	11039.4	10875.7	10587.0	10178.5	9570.9	8949.7	8249.2	7411.9	6616.9	5862.4
62.5°	12354.3	12310.5	12177.1	11977.9	11596.4	11117.0	10490.8	9721.1	8775.8	7810.3	6848.1
63°	12389.8	12334.1	12219.3	12016.7	11680.8	11216.6	10602.2	9854.4	8929.4	7945.3	6962.9
65°	11910.4	11888.5	11772.0	11550.9	11321.3	10966.8	10490.8	9847.7	9071.2	8141.1	7163.8
67.5°	10563.4	10497.6	10318.6	10251.1	10090.8	9844.3	9481.4	9039.1	8483.8	7752.9	6908.9
70°	8934.5	8836.6	8612.1	8492.2	8296.4	8141.1	7920.0	7604.4	7261.7	6751.9	6122.3
72.5°	7207.7	7005.1	6799.2	6486.9	6213.5	5936.6	5691.9	5469.1	5092.6	4886.7	4409.0
75°	4680.8	4312.8	3960.0	3487.4	3062.0	2685.6	2319.3	2133.6	1747.1	1590.1	1365.6
77.5°	2221.4	2015.5	1738.6	1524.2	1250.8	1021.2	833.9	626.2	491.2	384.9	293.7
80°	1792.6	1618.8	1451.7	1257.5	1051.6	838.9	643.1	481.1	341.0	236.3	167.1
82.5°	1598.5	1409.5	1203.5	1070.2	930.1	761.3	624.6	509.8	376.4	275.1	187.4
85°	621.2	523.3	403.4	329.2	256.6	211.0	190.7	131.7	103.0	81.0	62.5
87.5°	54.0	43.9	35.4	23.6	25.3	13.5	15.2	10.1	8.4	8.4	6.8
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	356.2	356.2	356.2	356.2	356.2	356.2	356.2	356.2	356.2	356.2	356.2
2.5°	373.0	371.4	369.7	366.3	366.3	362.9	361.2	359.5	351.1	332.5	317.3
5°	391.6	388.2	384.9	379.8	376.4	371.4	368.0	362.9	344.3	308.9	278.5
7.5°	418.6	411.9	406.8	396.7	391.6	384.9	379.8	371.4	341.0	287.0	244.8
10°	450.7	438.9	430.4	418.6	408.5	400.1	391.6	379.8	337.6	263.3	214.4
12.5°	489.5	476.0	459.1	445.6	432.1	420.3	408.5	393.3	332.5	243.1	190.7
15°	528.3	508.1	496.3	477.7	459.1	442.3	425.4	411.9	334.2	221.1	170.5
17.5°	572.2	552.0	526.7	506.4	486.1	464.2	443.9	416.9	325.8	204.2	155.3
20°	614.4	585.7	562.1	536.8	508.1	481.1	455.8	432.1	319.0	187.4	141.8
22.5°	660.0	626.2	595.9	563.8	528.3	498.0	467.6	437.2	307.2	172.2	130.0
25°	715.7	676.9	633.0	594.2	557.0	519.9	481.1	443.9	295.4	158.7	121.5
27.5°	783.2	732.6	688.7	639.7	587.4	540.2	498.0	457.4	283.6	148.5	113.1
30°	869.3	810.2	747.8	685.3	629.6	575.6	516.5	465.9	271.8	138.4	104.7
32.5°	984.1	909.8	833.9	761.3	687.0	617.8	555.3	489.5	265.0	130.0	96.2
35°	1136.0	1039.8	947.0	855.8	766.3	681.9	600.9	526.7	265.0	119.8	86.1
37.5°	1279.5	1168.1	1049.9	936.8	830.5	732.6	636.4	546.9	251.5	111.4	77.6
40°	1434.8	1301.4	1163.0	1029.7	901.4	779.8	670.1	567.2	239.7	101.3	69.2
42.5°	1672.8	1504.0	1323.4	1168.1	1014.5	864.2	727.5	606.0	224.5	91.2	60.8
45°	1985.1	1770.7	1558.0	1369.0	1173.1	989.2	827.1	676.9	221.1	82.7	52.3
47.5°	2319.3	2066.1	1816.3	1574.9	1345.3	1130.9	936.8	756.2	221.1	74.3	45.6
50°	2651.8	2334.5	2067.8	1787.6	1529.3	1276.1	1044.9	838.9	222.8	67.5	37.1
52.5°	2952.3	2613.0	2314.2	1990.1	1704.9	1411.2	1159.6	920.0	219.4	59.1	30.4
55°	3369.2	2970.8	2624.8	2267.0	1932.7	1601.9	1316.6	1041.5	221.1	52.3	25.3
57.5°	4137.2	3669.7	3252.7	2783.5	2398.6	1971.6	1625.5	1291.3	241.4	43.9	18.6
60°	5239.5	4631.8	4046.1	3473.9	2984.4	2476.3	2027.3	1634.0	283.6	35.4	13.5
62.5°	5980.5	5185.5	4486.7	3855.4	3286.5	2754.8	2265.3	1818.0	312.3	28.7	8.4
63°	6056.5	5234.4	4532.2	3880.7	3300.0	2768.3	2275.4	1831.5	314.0	27.0	8.4
65°	6200.0	5318.8	4557.6	3885.7	3286.5	2749.7	2268.6	1829.8	317.3	21.9	6.8
67.5°	6036.2	5188.9	4410.7	3740.6	3168.3	2640.0	2184.2	1762.3	315.7	15.2	5.1
70°	5398.2	4696.0	4012.3	3387.8	2867.9	2390.2	1988.4	1607.0	290.3	10.1	3.4
72.5°	3963.4	3485.7	2955.7	2505.0	2160.6	1794.3	1531.0	1206.9	224.5	6.8	1.7
75°	1174.8	1070.2	899.7	793.4	700.5	579.0	514.8	401.7	114.8	3.4	0.0
77.5°	234.6	212.7	190.7	173.9	163.7	140.1	133.4	109.7	47.3	1.7	0.0
80°	123.2	101.3	86.1	76.0	65.8	54.0	45.6	37.1	8.4	0.0	0.0
82.5°	118.2	79.3	57.4	47.3	40.5	32.1	25.3	18.6	5.1	0.0	0.0
85°	43.9	33.8	25.3	20.3	16.9	15.2	11.8	10.1	0.0	0.0	0.0
87.5°	6.8	5.1	5.1	3.4	3.4	1.7	1.7	1.7	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°	356.2	356.2	356.2	356.2	356.2	356.2	356.2
2.5°	302.1	288.6	281.9	273.5	273.5	271.8	275.1
5°	251.5	232.9	219.4	209.3	211.0	205.9	207.6
7.5°	212.7	194.1	182.3	175.6	173.9	172.2	172.2
10°	184.0	167.1	157.0	151.9	150.2	150.2	150.2
12.5°	163.7	146.9	138.4	135.0	135.0	133.4	133.4
15°	146.9	133.4	124.9	121.5	121.5	119.8	121.5
17.5°	133.4	119.8	113.1	109.7	109.7	108.0	108.0
20°	121.5	109.7	103.0	97.9	97.9	96.2	97.9
22.5°	111.4	99.6	91.2	87.8	86.1	84.4	86.1
25°	101.3	89.5	81.0	76.0	74.3	74.3	72.6
27.5°	92.8	81.0	70.9	65.8	64.1	64.1	62.5
30°	84.4	70.9	60.8	55.7	54.0	54.0	54.0
32.5°	76.0	60.8	52.3	47.3	45.6	45.6	45.6
35°	67.5	52.3	43.9	38.8	37.1	37.1	37.1
37.5°	57.4	43.9	33.8	30.4	28.7	27.0	27.0
40°	49.0	33.8	25.3	21.9	18.6	18.6	18.6
42.5°	40.5	27.0	18.6	13.5	11.8	10.1	11.8
45°	33.8	20.3	11.8	6.8	5.1	5.1	5.1
47.5°	27.0	13.5	5.1	1.7	1.7	1.7	1.7
50°	20.3	8.4	1.7	0.0	0.0	1.7	1.7
52.5°	15.2	5.1	0.0	0.0	0.0	0.0	0.0
55°	8.4	1.7	0.0	0.0	0.0	0.0	0.0
57.5°	5.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	3.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.7	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.7	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)