

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: P149283

Luminaire Tested: **VXM-F06-LED-E1-SL2-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149283
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-F06-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: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7665.1 lumens
Efficiency: N/A
Efficacy: 49.0 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

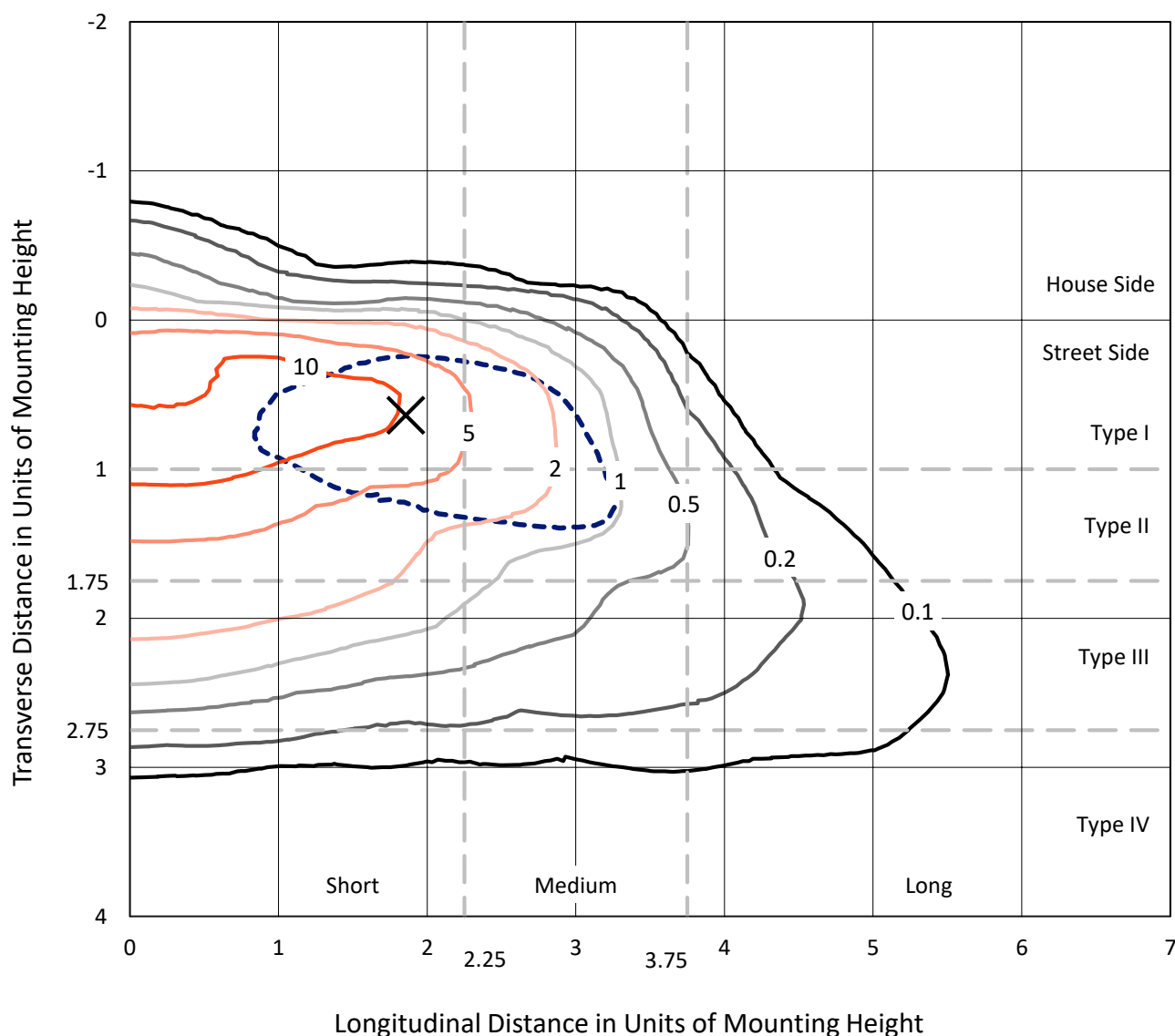


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

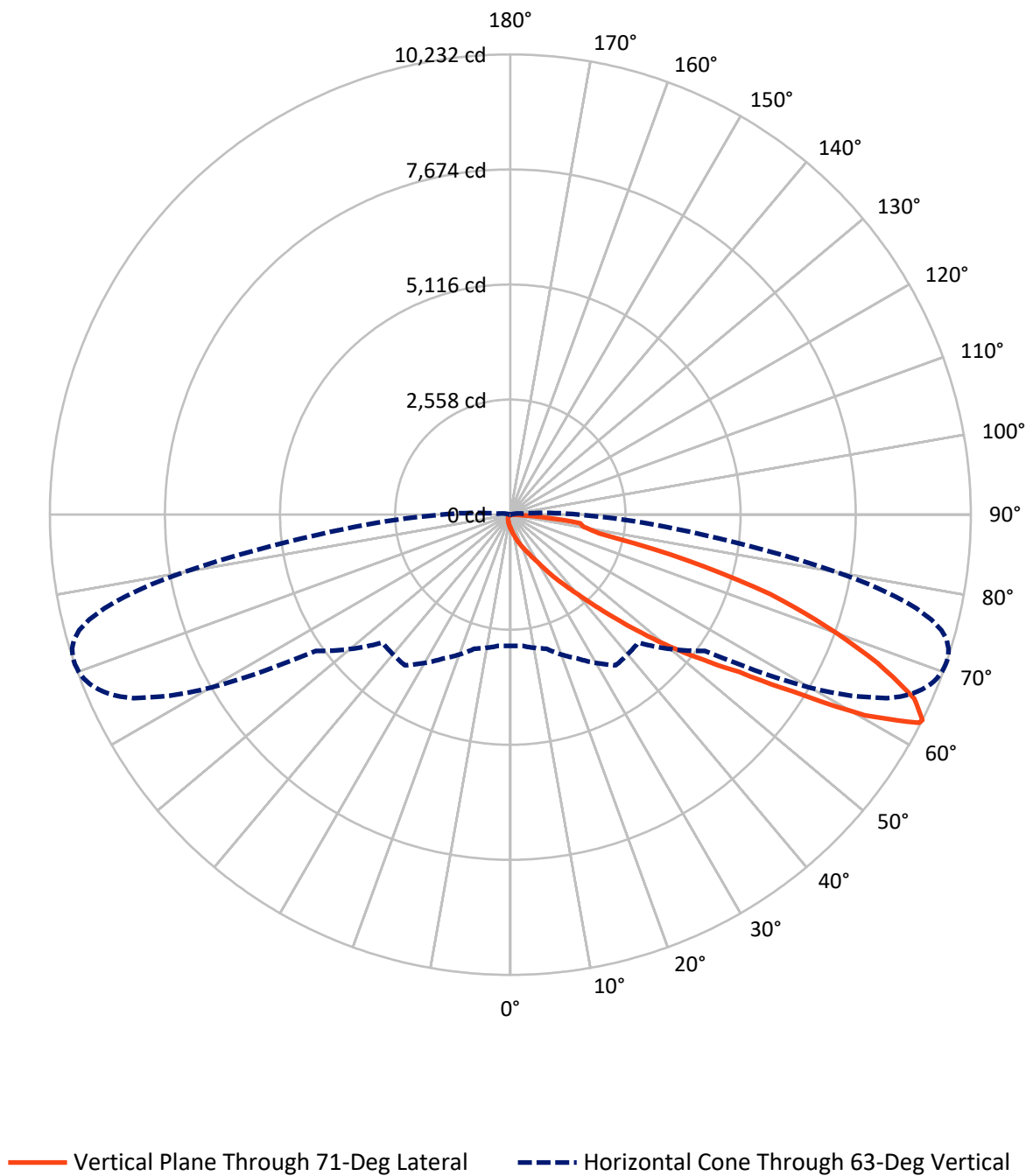


Based on 10 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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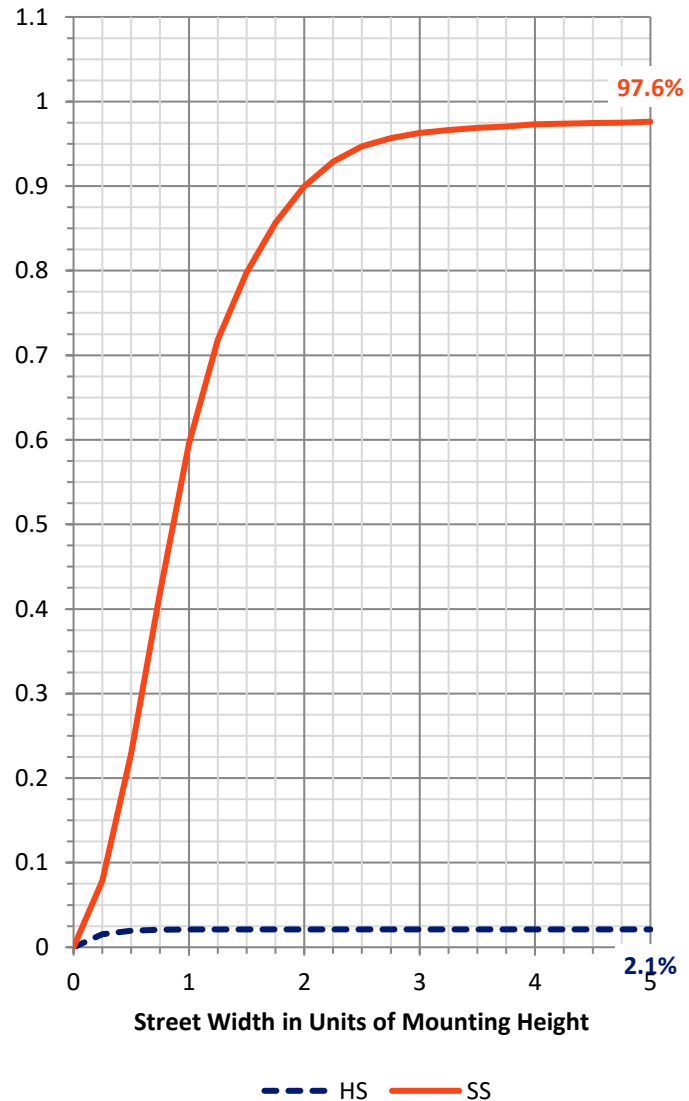
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	162.8	0.0	162.8
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	7502.4	0.0	7502.4
	% Fixture	97.9	0.0	97.9
Total	Lumens	7665.1	0.0	7665.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.5	0.4
10°-20°	126.0	1.6
20°-30°	256.0	3.3
30°-40°	625.4	8.2
40°-50°	1398.7	18.2
50°-60°	1966.8	25.7
60°-70°	2312.8	30.2
70°-80°	835.1	10.9
80°-90°	111.7	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°	7665.1	100.0
0°-180°	7665.1	100.0

Coefficient of Utilization



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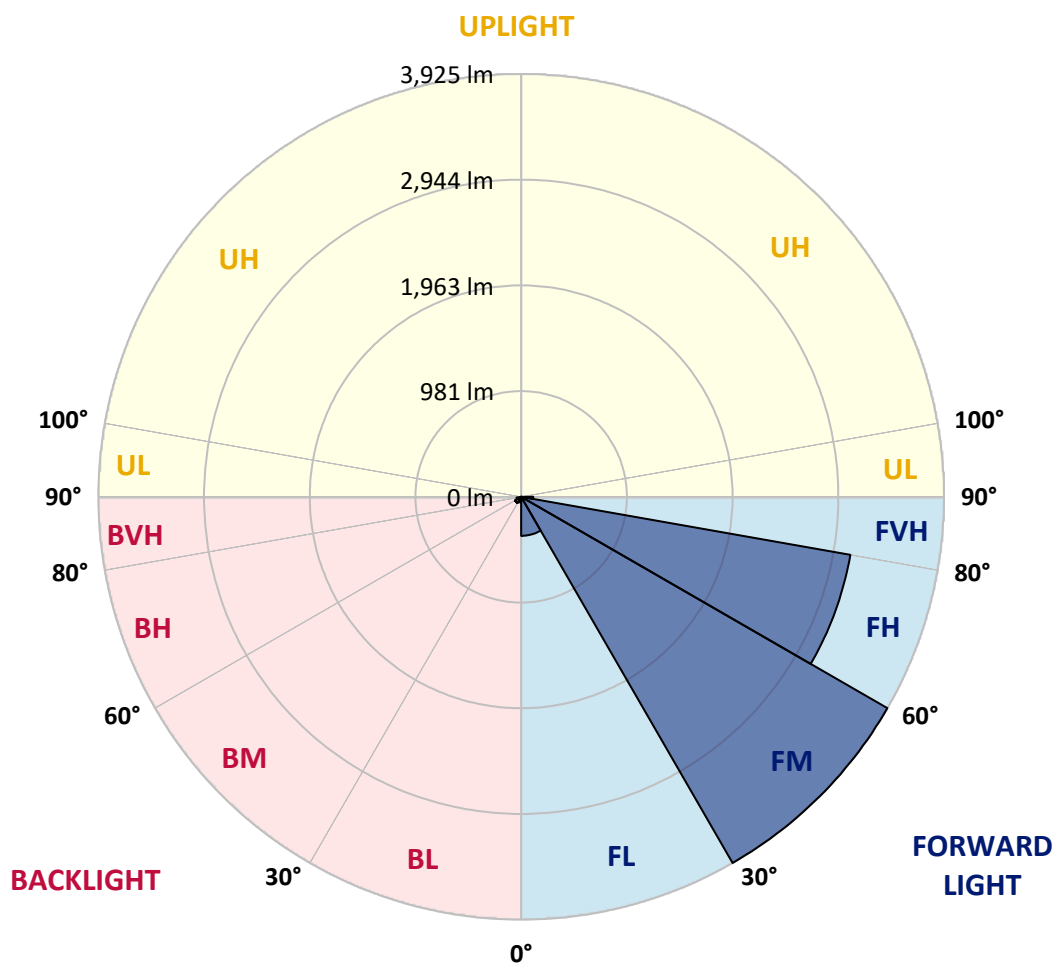
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	362.2	4.7			
FM	(30°-60°)	3925.4	51.2			
FH	(60°-80°)	3103.3	40.5			G2/5000
FVH	(80°-90°)	111.4	1.5			G2/225
BL	(0°-30°)	52.3	0.7	B0/110		
BM	(30°-60°)	65.6	0.9	B0/220		
BH	(60°-80°)	44.6	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°	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0
2.5°	384.6	388.8	386.0	379.0	370.7	359.5	349.8	349.8	348.4	344.2	345.6
5°	504.4	505.8	500.3	483.5	468.2	444.5	418.0	415.3	412.5	408.3	406.9
7.5°	621.5	627.1	621.5	603.4	572.7	536.5	494.7	490.5	482.1	482.1	476.6
10°	741.3	741.3	735.8	714.9	687.0	635.4	582.5	575.5	565.7	563.0	554.6
12.5°	826.3	826.3	823.5	812.4	790.1	744.1	680.0	673.0	660.5	656.3	646.6
15°	859.8	859.8	861.2	870.9	872.3	851.4	784.5	779.0	766.4	755.3	751.1
17.5°	880.7	879.3	879.3	893.2	918.3	932.2	889.0	883.5	869.5	864.0	850.0
20°	926.7	923.9	915.5	915.5	939.2	988.0	988.0	986.6	971.2	967.1	960.1
22.5°	994.9	992.2	967.1	946.2	957.3	1018.6	1075.8	1073.0	1067.4	1061.8	1057.6
25°	1106.4	1096.7	1053.5	992.2	982.4	1047.9	1142.6	1149.6	1153.8	1153.8	1156.6
27.5°	1275.0	1262.5	1185.8	1071.6	1028.4	1095.3	1216.5	1230.4	1243.0	1245.8	1258.3
30°	1509.1	1486.8	1376.7	1209.5	1110.6	1164.9	1325.2	1340.5	1358.6	1364.2	1383.7
32.5°	1893.7	1881.2	1775.3	1524.5	1312.6	1301.5	1477.1	1496.6	1520.3	1530.0	1553.7
35°	2479.0	2481.8	2395.4	2169.6	1877.0	1723.7	1748.8	1765.5	1773.9	1803.2	1815.7
37.5°	2876.1	2883.1	2902.6	2813.4	2604.4	2448.3	2251.8	2270.0	2226.8	2230.9	2232.3
40°	3093.5	3115.8	3230.1	3316.5	3299.7	3209.2	3051.7	3061.5	2980.6	2962.5	2874.7
42.5°	3238.4	3267.7	3450.2	3717.8	3854.3	3936.6	3900.3	3896.1	3833.4	3809.7	3735.9
45°	3329.0	3355.5	3585.4	3979.8	4294.7	4534.4	4633.3	4644.4	4591.5	4567.8	4506.5
47.5°	3324.8	3355.5	3602.1	4077.3	4541.3	4924.5	5203.2	5217.2	5249.2	5228.3	5232.5
50°	3140.9	3170.1	3418.2	3911.5	4468.9	5102.9	5612.9	5657.5	5709.1	5743.9	5760.6
52.5°	2917.9	2938.8	3159.0	3627.2	4159.5	5029.0	5855.4	5932.0	6008.6	6074.1	6120.1
55°	2835.7	2859.4	3032.2	3421.0	3911.5	4719.7	5968.2	6081.1	6189.8	6297.1	6384.9
57.5°	2878.9	2901.2	3025.2	3323.4	3763.8	4393.6	6000.3	6175.9	6354.2	6528.4	6701.2
60°	3037.8	3061.5	3167.4	3414.0	3724.7	4205.5	5874.9	6166.1	6462.9	6766.7	7052.4
62.5°	2975.1	2984.8	3140.9	3572.9	4003.4	4045.2	5419.2	5826.1	6279.0	6747.2	7208.4
63°	2915.1	2926.3	3085.1	3529.7	4088.4	4021.6	5278.5	5707.7	6185.6	6690.1	7191.7
65°	2643.4	2644.8	2766.0	3117.2	3993.7	4063.4	4651.4	5061.1	5610.1	6214.9	6848.9
67.5°	1973.2	1963.4	2080.5	2348.0	3135.3	4064.8	3992.3	4222.2	4604.0	5140.5	5709.1
70°	699.5	684.2	873.7	1244.4	1953.6	3324.8	3430.7	3446.1	3552.0	3841.8	4198.5
72.5°	227.1	231.3	278.7	455.7	900.2	2237.9	3106.0	3058.7	3030.8	3029.4	3076.8
75°	90.6	92.0	111.5	202.1	404.1	1078.5	2720.1	2746.5	2756.3	2770.2	2785.5
77.5°	43.2	47.4	62.7	112.9	200.7	533.7	1946.7	2171.0	2299.2	2398.2	2458.1
80°	15.3	18.1	34.8	69.7	93.4	245.3	1025.6	1237.4	1425.5	1668.0	1877.0
82.5°	0.0	0.0	7.0	48.8	51.6	98.9	420.8	493.3	564.4	731.6	939.2
85°	0.0	0.0	0.0	13.9	15.3	16.7	142.1	171.4	192.3	224.3	259.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.2	8.4	20.9	32.0
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°	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0
2.5°	342.8	341.4	341.4	338.6	337.2	334.4	333.0	328.9	327.5	327.5	327.5
5°	405.5	399.9	397.1	390.2	386.0	384.6	377.6	374.8	370.7	372.1	365.1
7.5°	475.2	465.4	461.2	451.5	448.7	438.9	436.2	429.2	425.0	416.6	413.9
10°	551.8	539.3	532.3	517.0	512.8	505.8	497.5	489.1	482.1	473.8	469.6
12.5°	639.6	628.5	622.9	602.0	592.2	582.5	571.3	560.2	549.0	542.1	532.3
15°	742.7	724.6	719.0	699.5	682.8	670.3	654.9	641.0	632.6	618.7	608.9
17.5°	844.4	826.3	822.1	792.9	774.8	766.4	749.7	731.6	716.2	702.3	687.0
20°	946.2	933.6	922.5	894.6	875.1	861.2	838.9	820.8	808.2	788.7	769.2
22.5°	1047.9	1035.3	1027.0	997.7	979.6	960.1	940.6	921.1	903.0	879.3	857.0
25°	1152.4	1144.0	1139.9	1113.4	1096.7	1078.5	1059.0	1036.7	1014.4	988.0	964.3
27.5°	1261.1	1263.9	1255.5	1249.9	1231.8	1219.3	1188.6	1173.3	1156.6	1124.5	1095.3
30°	1399.0	1407.4	1404.6	1408.8	1397.7	1389.3	1365.6	1346.1	1326.6	1295.9	1262.5
32.5°	1573.2	1584.4	1590.0	1605.3	1599.7	1596.9	1590.0	1562.1	1548.1	1495.2	1481.3
35°	1842.2	1836.6	1860.3	1872.8	1867.3	1864.5	1856.1	1840.8	1824.1	1786.4	1751.6
37.5°	2191.9	2197.5	2205.9	2180.8	2164.1	2162.7	2137.6	2122.3	2098.6	2056.8	2015.0
40°	2832.9	2798.1	2759.1	2653.2	2607.2	2580.7	2506.9	2486.0	2445.5	2388.4	2345.2
42.5°	3666.2	3631.4	3514.3	3337.4	3242.6	3111.6	3051.7	2977.8	2920.7	2827.4	2777.2
45°	4493.9	4393.6	4379.7	4173.4	4056.4	3883.6	3776.3	3652.3	3522.7	3400.1	3310.9
47.5°	5192.1	5169.8	5101.5	4976.1	4867.4	4722.5	4584.5	4393.6	4259.8	4085.7	3925.4
50°	5750.9	5749.5	5724.4	5651.9	5561.3	5444.3	5323.1	5161.4	5009.5	4796.3	4624.9
52.5°	6168.9	6191.2	6199.6	6177.3	6142.4	6039.3	5978.0	5842.8	5714.6	5533.5	5348.1
55°	6475.5	6557.7	6599.5	6646.9	6637.1	6600.9	6598.1	6510.3	6451.8	6308.2	6177.3
57.5°	6854.5	6989.7	7119.2	7349.2	7357.5	7438.3	7480.2	7522.0	7533.1	7476.0	7432.8
60°	7336.6	7612.5	7857.8	8338.5	8463.9	8661.8	8790.0	8929.4	9047.8	9057.6	9054.8
62.5°	7676.6	8101.6	8497.4	9210.8	9454.7	9683.2	9854.6	9989.8	10072.0	10155.6	10194.6
63°	7686.4	8151.8	8572.6	9308.4	9564.8	9782.2	9945.2	10070.6	10157.0	10207.2	10232.3
65°	7450.9	8015.2	8516.9	9249.9	9490.9	9709.7	9794.7	9876.9	9918.7	9938.2	9864.4
67.5°	6315.2	6867.0	7452.3	8271.6	8477.9	8739.9	8809.5	8851.3	8870.8	8866.7	8804.0
70°	4722.5	5185.1	5835.9	6772.3	7045.4	7301.8	7460.6	7528.9	7551.2	7544.3	7450.9
72.5°	3297.0	3568.7	4105.2	5147.5	5519.5	5848.4	6044.9	6146.6	6167.5	6125.7	6039.3
75°	2768.8	2782.8	2904.0	3473.9	3822.3	4173.4	4395.0	4459.1	4417.3	4290.5	4070.3
77.5°	2472.0	2502.7	2502.7	2587.7	2656.0	2753.5	2774.4	2618.3	2437.2	2203.1	2013.6
80°	2073.5	2180.8	2256.0	2318.7	2325.7	2306.2	2254.6	2166.8	2027.5	1849.1	1651.3
82.5°	1259.7	1471.5	1557.9	1881.2	2040.0	2147.3	2139.0	2021.9	1916.0	1730.7	1562.1
85°	317.7	342.8	372.1	483.5	542.1	661.9	737.1	772.0	784.5	720.4	652.1
87.5°	30.7	20.9	34.8	26.5	37.6	27.9	37.6	34.8	43.2	46.0	50.2
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°	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0
2.5°	324.7	323.3	321.9	320.5	319.1	317.7	314.9	314.9	312.1	310.7	309.4
5°	360.9	358.1	356.7	353.9	349.8	347.0	342.8	337.2	333.0	331.6	328.9
7.5°	406.9	399.9	397.1	393.0	387.4	379.0	373.5	369.3	362.3	358.1	349.8
10°	458.5	451.5	443.1	434.8	426.4	416.6	409.7	404.1	393.0	387.4	377.6
12.5°	523.9	511.4	501.6	490.5	479.4	468.2	459.8	443.1	433.4	420.8	412.5
15°	590.8	579.7	568.5	554.6	537.9	519.8	511.4	496.1	483.5	464.0	452.9
17.5°	671.7	650.8	634.0	617.3	602.0	585.3	568.5	544.8	526.7	510.0	487.7
20°	751.1	726.0	707.9	685.6	663.3	636.8	617.3	600.6	575.5	553.2	529.5
22.5°	836.1	811.0	781.7	759.4	728.8	707.9	681.4	653.5	628.5	599.2	569.9
25°	939.2	912.7	879.3	850.0	815.2	785.9	753.9	721.8	691.2	657.7	620.1
27.5°	1066.0	1038.1	1001.9	967.1	921.1	884.9	854.2	811.0	772.0	730.2	687.0
30°	1226.3	1195.6	1151.0	1100.8	1054.9	1014.4	971.2	914.1	870.9	820.8	765.0
32.5°	1435.3	1399.0	1339.1	1291.7	1234.6	1181.7	1121.7	1064.6	1003.3	937.8	873.7
35°	1698.6	1665.2	1595.5	1525.9	1463.1	1400.4	1325.2	1259.7	1173.3	1093.9	1011.7
37.5°	1971.8	1911.8	1847.7	1772.5	1694.5	1619.2	1527.2	1436.7	1337.7	1251.3	1148.2
40°	2283.9	2211.4	2158.5	2077.7	1967.6	1860.3	1775.3	1662.4	1538.4	1422.7	1301.5
42.5°	2711.7	2630.9	2536.1	2413.5	2334.1	2208.7	2098.6	1964.8	1801.8	1672.2	1525.9
45°	3206.4	3096.3	3004.3	2885.9	2789.7	2633.7	2505.5	2327.1	2164.1	1994.1	1815.7
47.5°	3770.7	3634.2	3500.4	3383.3	3230.1	3076.8	2913.7	2724.2	2515.2	2328.5	2116.7
50°	4418.7	4225.0	4039.7	3889.2	3678.8	3501.8	3324.8	3111.6	2880.3	2665.7	2424.6
52.5°	5139.1	4914.8	4669.5	4438.2	4194.3	3967.2	3754.0	3508.8	3251.0	2989.0	2720.1
55°	6008.6	5840.0	5551.6	5257.6	4931.5	4627.7	4353.2	4049.4	3735.9	3391.7	3108.8
57.5°	7370.1	7287.9	7046.8	6752.8	6327.8	5958.5	5493.1	5121.0	4666.7	4193.0	3827.9
60°	9215.0	9113.3	8978.1	8739.9	8402.6	7901.0	7388.2	6809.9	6118.7	5462.4	4839.5
62.5°	10198.8	10162.6	10052.5	9888.1	9573.1	9177.4	8660.4	8025.0	7244.7	6447.6	5653.3
63°	10228.1	10182.1	10087.3	9920.1	9642.8	9259.6	8752.4	8135.1	7371.5	6559.1	5748.1
65°	9832.3	9814.2	9718.1	9535.5	9346.0	9053.4	8660.4	8129.5	7488.5	6720.7	5913.9
67.5°	8720.3	8666.0	8518.3	8462.5	8330.2	8126.7	7827.1	7462.0	7003.6	6400.2	5703.5
70°	7375.6	7294.8	7109.5	7010.6	6848.9	6720.7	6538.2	6277.6	5994.7	5573.9	5054.1
72.5°	5950.1	5782.9	5612.9	5355.1	5129.4	4900.8	4698.8	4514.8	4204.1	4034.1	3639.7
75°	3864.1	3560.3	3269.1	2878.9	2527.8	2217.0	1914.6	1761.3	1442.2	1312.6	1127.3
77.5°	1833.8	1663.8	1435.3	1258.3	1032.6	843.1	688.4	517.0	405.5	317.7	242.5
80°	1479.9	1336.3	1198.4	1038.1	868.1	692.6	530.9	397.1	281.5	195.1	138.0
82.5°	1319.6	1163.5	993.5	883.5	767.8	628.5	515.6	420.8	310.7	227.1	154.7
85°	512.8	432.0	333.0	271.7	211.8	174.2	157.5	108.7	85.0	66.9	51.6
87.5°	44.6	36.2	29.3	19.5	20.9	11.1	12.5	8.4	7.0	7.0	5.6
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°	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0
2.5°	308.0	306.6	305.2	302.4	302.4	299.6	298.2	296.8	289.8	274.5	262.0
5°	323.3	320.5	317.7	313.5	310.7	306.6	303.8	299.6	284.3	255.0	229.9
7.5°	345.6	340.0	335.8	327.5	323.3	317.7	313.5	306.6	281.5	236.9	202.1
10°	372.1	362.3	355.3	345.6	337.2	330.3	323.3	313.5	278.7	217.4	177.0
12.5°	404.1	393.0	379.0	367.9	356.7	347.0	337.2	324.7	274.5	200.7	157.5
15°	436.2	419.4	409.7	394.4	379.0	365.1	351.2	340.0	275.9	182.5	140.7
17.5°	472.4	455.7	434.8	418.0	401.3	383.2	366.5	344.2	268.9	168.6	128.2
20°	507.2	483.5	464.0	443.1	419.4	397.1	376.2	356.7	263.4	154.7	117.1
22.5°	544.8	517.0	491.9	465.4	436.2	411.1	386.0	360.9	253.6	142.1	107.3
25°	590.8	558.8	522.6	490.5	459.8	429.2	397.1	366.5	243.9	131.0	100.3
27.5°	646.6	604.8	568.5	528.1	484.9	445.9	411.1	377.6	234.1	122.6	93.4
30°	717.6	668.9	617.3	565.7	519.8	475.2	426.4	384.6	224.3	114.3	86.4
32.5°	812.4	751.1	688.4	628.5	567.1	510.0	458.5	404.1	218.8	107.3	79.4
35°	937.8	858.4	781.7	706.5	632.6	563.0	496.1	434.8	218.8	98.9	71.1
37.5°	1056.3	964.3	866.7	773.4	685.6	604.8	525.3	451.5	207.6	92.0	64.1
40°	1184.5	1074.4	960.1	850.0	744.1	643.8	553.2	468.2	197.9	83.6	57.1
42.5°	1380.9	1241.6	1092.5	964.3	837.5	713.5	600.6	500.3	185.3	75.2	50.2
45°	1638.7	1461.8	1286.2	1130.1	968.5	816.6	682.8	558.8	182.5	68.3	43.2
47.5°	1914.6	1705.6	1499.4	1300.1	1110.6	933.6	773.4	624.3	182.5	61.3	37.6
50°	2189.1	1927.2	1707.0	1475.7	1262.5	1053.5	862.6	692.6	183.9	55.7	30.7
52.5°	2437.2	2157.1	1910.4	1642.9	1407.4	1164.9	957.3	759.4	181.2	48.8	25.1
55°	2781.4	2452.5	2166.8	1871.4	1595.5	1322.4	1086.9	859.8	182.5	43.2	20.9
57.5°	3415.4	3029.4	2685.2	2297.8	1980.1	1627.6	1341.9	1066.0	199.3	36.2	15.3
60°	4325.3	3823.7	3340.2	2867.8	2463.7	2044.2	1673.6	1348.9	234.1	29.3	11.1
62.5°	4937.1	4280.7	3703.8	3182.7	2713.1	2274.1	1870.0	1500.8	257.8	23.7	7.0
63°	4999.8	4321.2	3741.5	3203.6	2724.2	2285.3	1878.4	1511.9	259.2	22.3	7.0
65°	5118.2	4390.8	3762.4	3207.8	2713.1	2270.0	1872.8	1510.5	262.0	18.1	5.6
67.5°	4983.1	4283.5	3641.1	3087.9	2615.5	2179.4	1803.2	1454.8	260.6	12.5	4.2
70°	4456.3	3876.6	3312.3	2796.7	2367.5	1973.2	1641.5	1326.6	239.7	8.4	2.8
72.5°	3271.9	2877.5	2440.0	2067.9	1783.6	1481.3	1263.9	996.3	185.3	5.6	1.4
75°	969.9	883.5	742.7	654.9	578.3	478.0	425.0	331.6	94.8	2.8	0.0
77.5°	193.7	175.6	157.5	143.5	135.2	115.7	110.1	90.6	39.0	1.4	0.0
80°	101.7	83.6	71.1	62.7	54.3	44.6	37.6	30.7	7.0	0.0	0.0
82.5°	97.5	65.5	47.4	39.0	33.4	26.5	20.9	15.3	4.2	0.0	0.0
85°	36.2	27.9	20.9	16.7	13.9	12.5	9.8	8.4	0.0	0.0	0.0
87.5°	5.6	4.2	4.2	2.8	2.8	1.4	1.4	1.4	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°	294.0	294.0	294.0	294.0	294.0	294.0	294.0
2.5°	249.4	238.3	232.7	225.7	225.7	224.3	227.1
5°	207.6	192.3	181.2	172.8	174.2	170.0	171.4
7.5°	175.6	160.2	150.5	144.9	143.5	142.1	142.1
10°	151.9	138.0	129.6	125.4	124.0	124.0	124.0
12.5°	135.2	121.2	114.3	111.5	111.5	110.1	110.1
15°	121.2	110.1	103.1	100.3	100.3	98.9	100.3
17.5°	110.1	98.9	93.4	90.6	90.6	89.2	89.2
20°	100.3	90.6	85.0	80.8	80.8	79.4	80.8
22.5°	92.0	82.2	75.2	72.5	71.1	69.7	71.1
25°	83.6	73.9	66.9	62.7	61.3	61.3	59.9
27.5°	76.6	66.9	58.5	54.3	53.0	53.0	51.6
30°	69.7	58.5	50.2	46.0	44.6	44.6	44.6
32.5°	62.7	50.2	43.2	39.0	37.6	37.6	37.6
35°	55.7	43.2	36.2	32.0	30.7	30.7	30.7
37.5°	47.4	36.2	27.9	25.1	23.7	22.3	22.3
40°	40.4	27.9	20.9	18.1	15.3	15.3	15.3
42.5°	33.4	22.3	15.3	11.1	9.8	8.4	9.8
45°	27.9	16.7	9.8	5.6	4.2	4.2	4.2
47.5°	22.3	11.1	4.2	1.4	1.4	1.4	1.4
50°	16.7	7.0	1.4	0.0	0.0	1.4	1.4
52.5°	12.5	4.2	0.0	0.0	0.0	0.0	0.0
55°	7.0	1.4	0.0	0.0	0.0	0.0	0.0
57.5°	4.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.4	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)