

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: P149284

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149284
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-7030
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, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8295 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

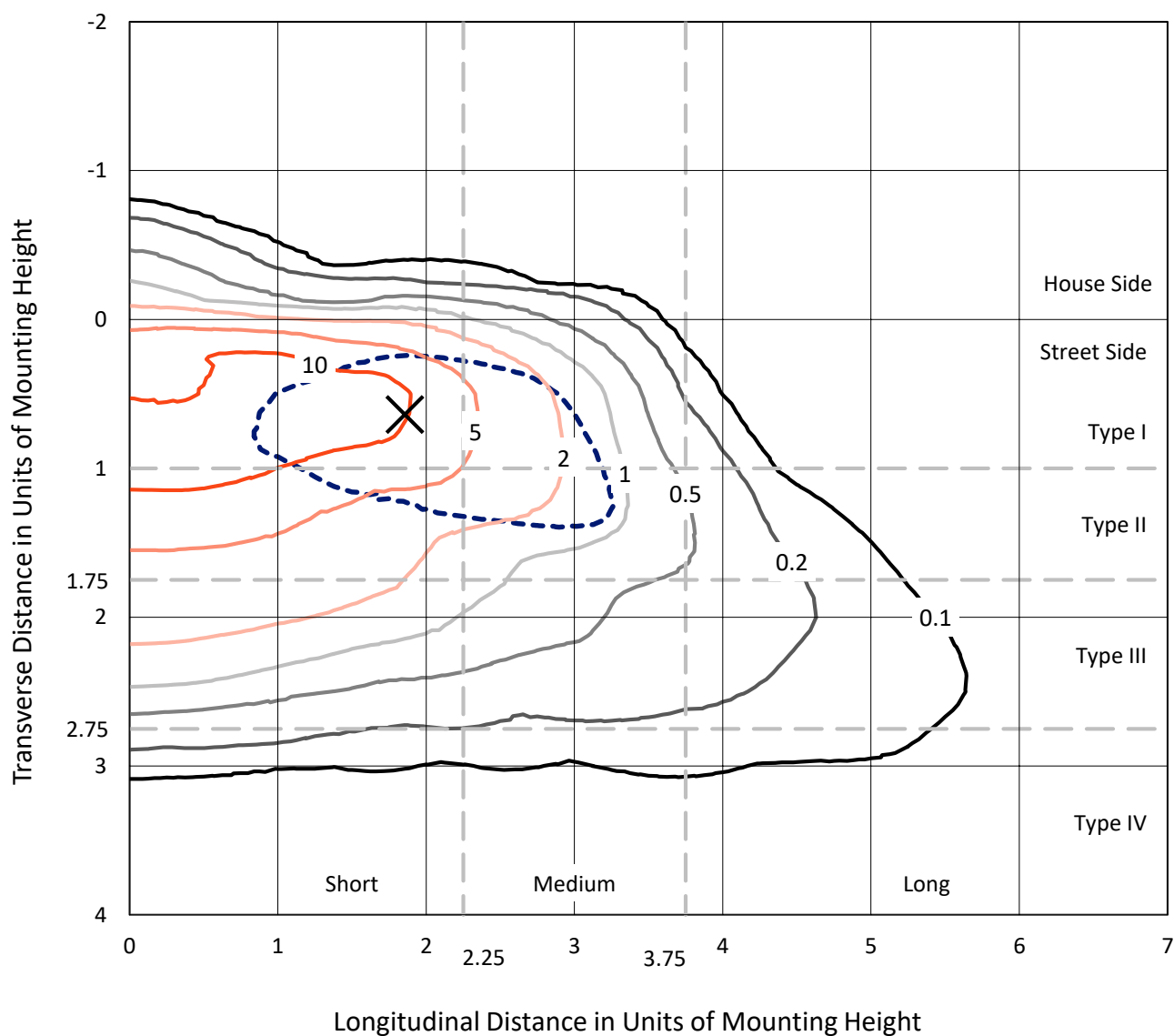


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

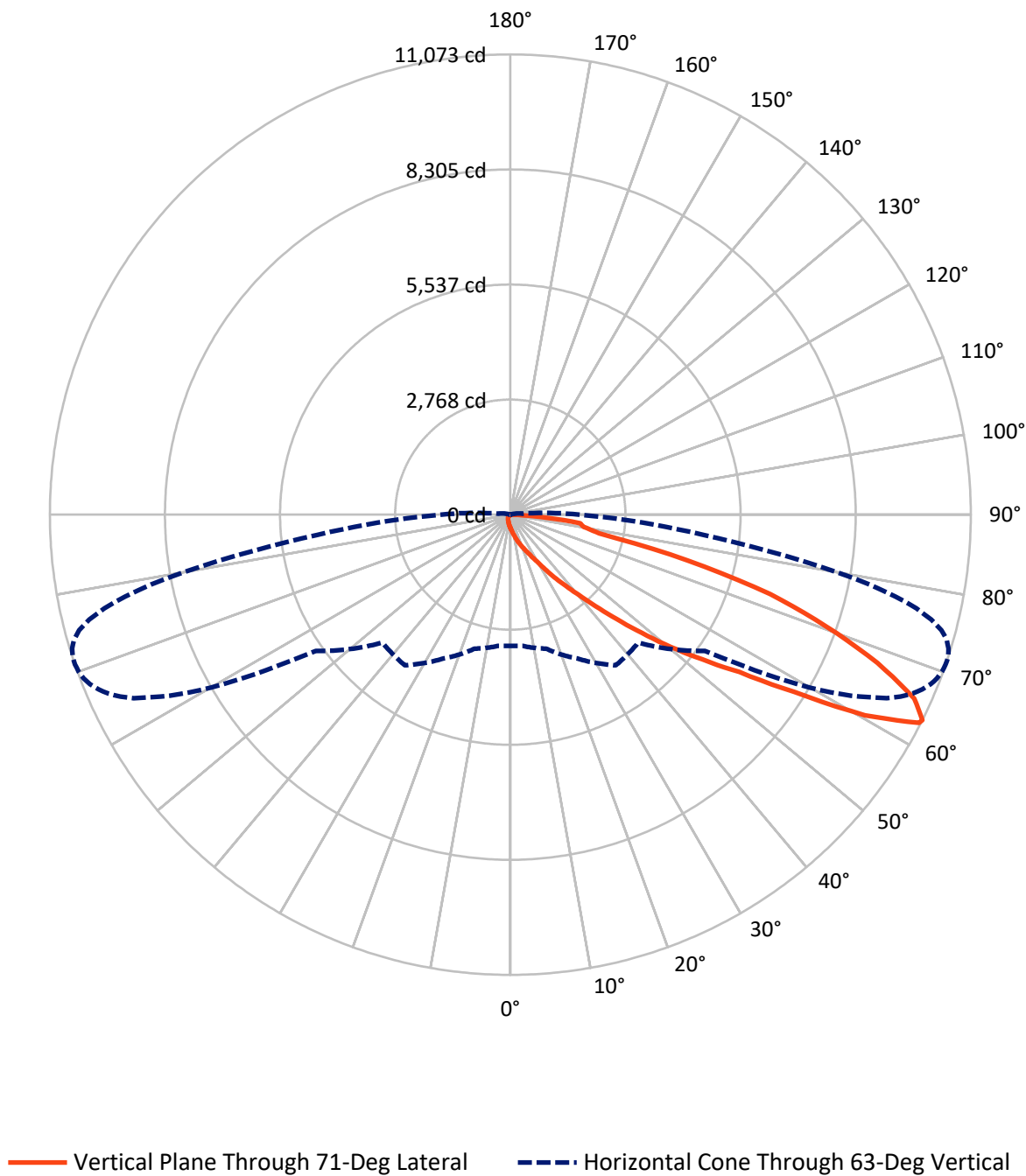


Based on 10 foot mounting height. Maximum calculated value = 17.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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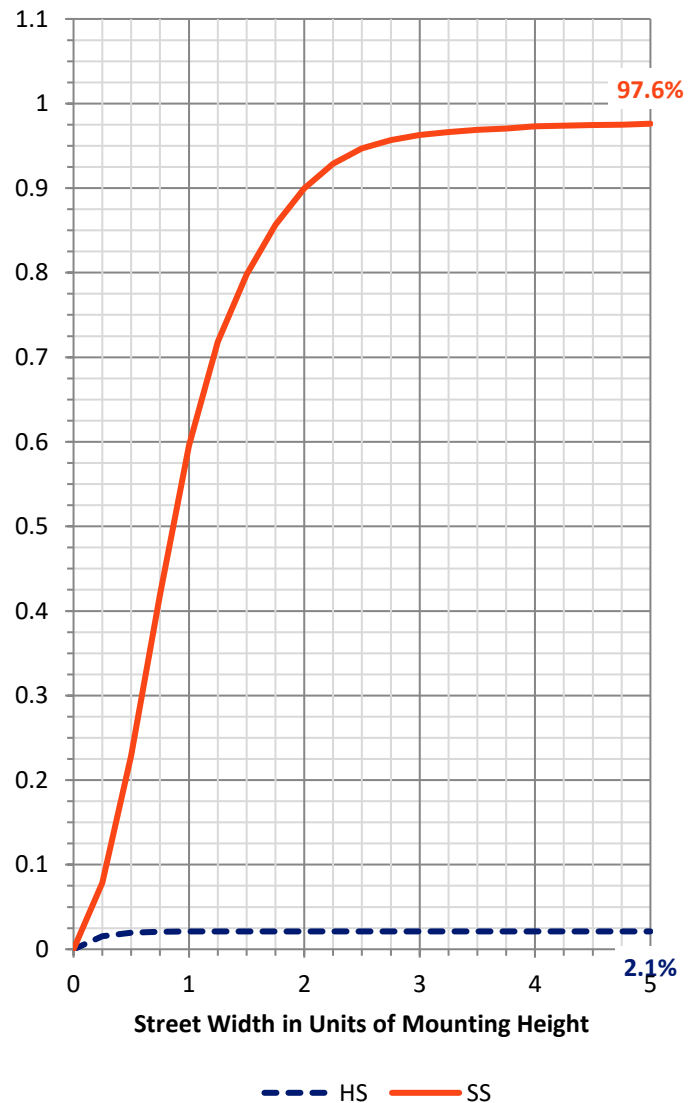
FLUX DISTRIBUTION:

		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	8295.0	0.0	8295.0
	% 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°	8295.0	100.0
0°-180°	8295.0	100.0

Coefficient of Utilization



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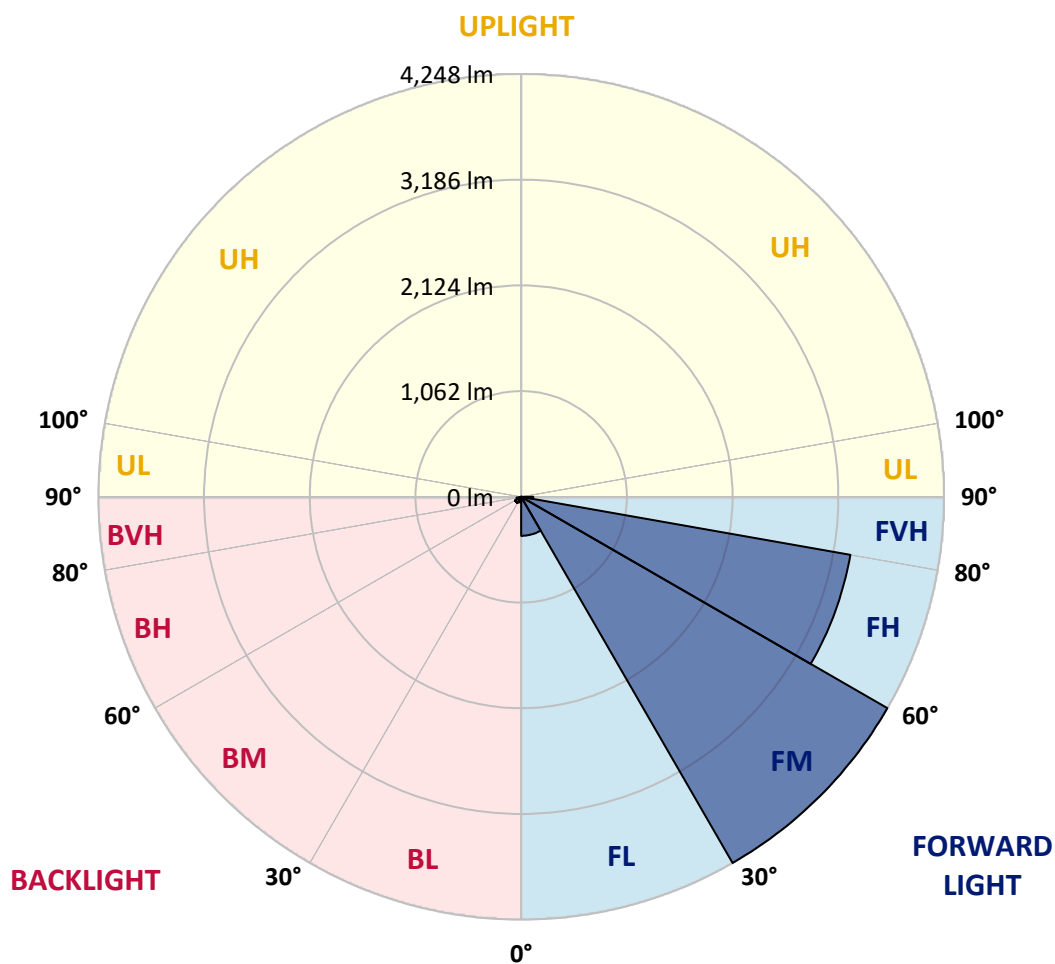
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

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°	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2
2.5°	416.2	420.7	417.7	410.2	401.1	389.1	378.5	378.5	377.0	372.5	374.0
5°	545.9	547.4	541.4	523.3	506.7	481.0	452.4	449.4	446.4	441.8	440.3
7.5°	672.6	678.6	672.6	653.0	619.8	580.6	535.3	530.8	521.8	521.8	515.7
10°	802.2	802.2	796.2	773.6	743.4	687.6	630.3	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°	930.4	930.4	931.9	942.5	944.0	921.4	849.0	843.0	829.4	817.3	812.8
17.5°	953.0	951.5	951.5	966.6	993.8	1008.8	962.1	956.1	941.0	935.0	919.9
20°	1002.8	999.8	990.7	990.7	1016.4	1069.2	1069.2	1067.7	1051.1	1046.5	1039.0
22.5°	1076.7	1073.7	1046.5	1023.9	1036.0	1102.3	1164.2	1161.1	1155.1	1149.1	1144.6
25°	1197.3	1186.8	1140.0	1073.7	1063.1	1134.0	1236.5	1244.1	1248.6	1248.6	1251.6
27.5°	1379.8	1366.2	1283.3	1159.6	1112.9	1185.3	1316.5	1331.6	1345.1	1348.1	1361.7
30°	1633.1	1609.0	1489.9	1308.9	1201.9	1260.7	1434.1	1450.7	1470.3	1476.3	1497.4
32.5°	2049.4	2035.8	1921.2	1649.7	1420.5	1408.5	1598.5	1619.6	1645.2	1655.8	1681.4
35°	2682.7	2685.7	2592.2	2347.9	2031.3	1865.4	1892.5	1910.6	1919.7	1951.3	1964.9
37.5°	3112.5	3120.0	3141.1	3044.6	2818.4	2649.5	2436.9	2456.5	2409.8	2414.3	2415.8
40°	3347.7	3371.9	3495.5	3589.0	3570.9	3472.9	3302.5	3313.0	3225.6	3206.0	3111.0
42.5°	3504.6	3536.2	3733.8	4023.3	4171.1	4260.1	4220.9	4216.3	4148.5	4122.8	4042.9
45°	3602.6	3631.2	3880.1	4306.8	4647.6	4907.0	5014.1	5026.1	4968.8	4943.2	4876.8
47.5°	3598.1	3631.2	3898.1	4412.4	4914.5	5329.2	5630.8	5645.9	5680.6	5658.0	5662.5
50°	3399.0	3430.7	3699.1	4232.9	4836.1	5522.2	6074.2	6122.4	6178.2	6215.9	6234.0
52.5°	3157.7	3180.3	3418.6	3925.3	4501.3	5442.3	6336.6	6419.5	6502.4	6573.3	6623.1
55°	3068.8	3094.4	3281.4	3702.1	4232.9	5107.6	6458.7	6580.9	6698.5	6814.6	6909.6
57.5°	3115.5	3139.6	3273.8	3596.5	4073.1	4754.7	6493.4	6683.4	6876.4	7064.9	7251.9
60°	3287.4	3313.0	3427.7	3694.6	4030.8	4551.1	6357.7	6672.8	6994.0	7322.8	7631.9
62.5°	3219.6	3230.1	3399.0	3866.5	4332.4	4377.7	5864.6	6304.9	6795.0	7301.7	7800.8
63°	3154.7	3166.8	3338.7	3819.7	4424.4	4352.1	5712.3	6176.7	6694.0	7239.8	7782.7
65°	2860.7	2862.2	2993.4	3373.4	4321.9	4397.3	5033.7	5477.0	6071.2	6725.6	7411.8
67.5°	2135.3	2124.8	2251.4	2541.0	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	3598.1	3712.7	3729.3	3843.9	4157.5	4543.6
72.5°	245.8	250.3	301.6	493.1	974.2	2421.8	3361.3	3310.0	3279.9	3278.4	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	122.1	217.2	577.6	2106.7	2349.4	2488.2	2595.2	2660.1
80°	16.6	19.6	37.7	75.4	101.0	265.4	1109.9	1339.1	1542.7	1805.1	2031.3
82.5°	0.0	0.0	7.5	52.8	55.8	107.1	455.4	533.8	610.7	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	1.5	4.5	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°	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2
2.5°	371.0	369.5	369.5	366.4	364.9	361.9	360.4	355.9	354.4	354.4	354.4
5°	438.8	432.8	429.8	422.2	417.7	416.2	408.7	405.6	401.1	402.6	395.1
7.5°	514.2	503.7	499.1	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	538.4	529.3	521.8	512.7	508.2
12.5°	692.2	680.1	674.1	651.5	640.9	630.3	618.3	606.2	594.1	586.6	576.1
15°	803.8	784.2	778.1	757.0	738.9	725.3	708.8	693.7	684.6	669.5	659.0
17.5°	913.8	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	998.3	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	927.4
25°	1247.1	1238.1	1233.5	1204.9	1186.8	1167.2	1146.1	1121.9	1097.8	1069.2	1043.5
27.5°	1364.7	1367.7	1358.7	1352.7	1333.1	1319.5	1286.3	1269.7	1251.6	1216.9	1185.3
30°	1514.0	1523.1	1520.1	1524.6	1512.5	1503.5	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	1675.4	1618.1	1603.0
35°	1993.6	1987.5	2013.2	2026.7	2020.7	2017.7	2008.6	1992.1	1974.0	1933.2	1895.5
37.5°	2372.1	2378.1	2387.1	2360.0	2341.9	2340.4	2313.3	2296.7	2271.0	2225.8	2180.5
40°	3065.7	3028.0	2985.8	2871.2	2821.4	2792.8	2712.9	2690.2	2646.5	2584.7	2537.9
42.5°	3967.5	3929.8	3803.1	3611.6	3509.1	3367.3	3302.5	3222.6	3160.7	3059.7	3005.4
45°	4863.3	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	4961.3	4754.7	4609.9	4421.4	4248.0
50°	6223.5	6222.0	6194.8	6116.4	6018.4	5891.7	5760.5	5585.6	5421.2	5190.5	5005.0
52.5°	6675.9	6700.0	6709.0	6684.9	6647.2	6535.6	6469.3	6323.0	6184.3	5988.2	5787.7
55°	7007.6	7096.6	7141.8	7193.1	7182.5	7143.3	7140.3	7045.3	6982.0	6826.7	6684.9
57.5°	7417.8	7564.1	7704.3	7953.1	7962.2	8049.6	8094.9	8140.1	8152.2	8090.3	8043.6
60°	7939.6	8238.1	8503.5	9023.8	9159.5	9373.6	9512.4	9663.2	9791.4	9801.9	9798.9
62.5°	8307.5	8767.4	9195.7	9967.8	10231.7	10479.0	10664.5	10810.8	10899.7	10990.2	11032.4
63°	8318.1	8821.7	9277.1	10073.4	10350.8	10586.1	10762.5	10898.2	10991.7	11046.0	11073.1
65°	8063.2	8673.9	9216.8	10010.0	10270.9	10507.7	10599.6	10688.6	10733.9	10755.0	10675.0
67.5°	6834.2	7431.4	8064.7	8951.4	9174.6	9458.1	9533.5	9578.7	9599.8	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	5973.1	6329.0	6541.6	6651.7	6674.4	6629.1	6535.6
75°	2996.4	3011.4	3142.6	3759.4	4136.4	4516.4	4756.2	4825.6	4780.3	4643.1	4404.8
77.5°	2675.2	2708.3	2708.3	2800.3	2874.2	2979.8	3002.4	2833.5	2637.5	2384.1	2179.0
80°	2243.9	2360.0	2441.4	2509.3	2516.8	2495.7	2439.9	2344.9	2194.1	2001.1	1787.0
82.5°	1363.2	1592.4	1685.9	2035.8	2207.7	2323.8	2314.8	2188.1	2073.5	1872.9	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	28.7	40.7	30.2	40.7	37.7	46.7	49.8	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°	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2
2.5°	351.4	349.9	348.3	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	375.5	371.0	364.9	360.4	358.9	355.9
7.5°	440.3	432.8	429.8	425.3	419.2	410.2	404.1	399.6	392.1	387.6	378.5
10°	496.1	488.6	479.5	470.5	461.4	450.9	443.3	437.3	425.3	419.2	408.7
12.5°	567.0	553.4	542.9	530.8	518.7	506.7	497.6	479.5	469.0	455.4	446.4
15°	639.4	627.3	615.3	600.2	582.1	562.5	553.4	536.8	523.3	502.2	490.1
17.5°	726.8	704.2	686.1	668.0	651.5	633.4	615.3	589.6	570.0	551.9	527.8
20°	812.8	785.7	766.1	741.9	717.8	689.2	668.0	649.9	622.8	598.7	573.0
22.5°	904.8	877.6	846.0	821.9	788.7	766.1	737.4	707.2	680.1	648.4	616.8
25°	1016.4	987.7	951.5	919.9	882.2	850.5	815.8	781.1	748.0	711.8	671.1
27.5°	1153.6	1123.5	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	1141.5	1097.8	1051.1	989.2	942.5	888.2	827.9
32.5°	1553.2	1514.0	1449.2	1397.9	1336.1	1278.8	1213.9	1152.1	1085.8	1014.9	945.5
35°	1838.2	1802.0	1726.6	1651.2	1583.4	1515.5	1434.1	1363.2	1269.7	1183.8	1094.8
37.5°	2133.8	2069.0	1999.6	1918.2	1833.7	1752.3	1652.8	1554.7	1447.7	1354.2	1242.6
40°	2471.6	2393.2	2335.9	2248.4	2129.3	2013.2	1921.2	1799.0	1664.8	1539.7	1408.5
42.5°	2934.5	2847.1	2744.5	2611.8	2525.9	2390.2	2271.0	2126.3	1949.8	1809.6	1651.2
45°	3469.9	3350.7	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	3661.4	3495.5	3329.6	3153.2	2948.1	2721.9	2519.8	2290.6
50°	4781.8	4572.2	4371.7	4208.8	3981.1	3789.6	3598.1	3367.3	3117.0	2884.8	2623.9
52.5°	5561.5	5318.7	5053.3	4802.9	4539.0	4293.2	4062.5	3797.1	3518.1	3234.6	2943.6
55°	6502.4	6320.0	6007.8	5689.6	5336.8	5008.0	4711.0	4382.2	4042.9	3670.4	3364.3
57.5°	7975.7	7886.8	7625.9	7307.7	6847.8	6448.2	5944.5	5541.9	5050.2	4537.5	4142.4
60°	9972.3	9862.2	9716.0	9458.1	9093.2	8550.3	7995.3	7369.5	6621.6	5911.3	5237.2
62.5°	11037.0	10997.7	10878.6	10700.7	10359.9	9931.6	9372.1	8684.5	7840.0	6977.5	6117.9
63°	11068.6	11018.9	10916.3	10735.4	10435.3	10020.6	9471.7	8803.6	7977.3	7098.1	6220.4
65°	10640.4	10620.8	10516.7	10319.2	10114.1	9797.4	9372.1	8797.6	8103.9	7273.0	6399.9
67.5°	9437.0	9378.2	9218.3	9158.0	9014.7	8794.6	8470.4	8075.3	7579.1	6926.2	6172.2
70°	7981.8	7894.3	7693.7	7586.7	7411.8	7273.0	7075.5	6793.5	6487.4	6031.9	5469.5
72.5°	6439.1	6258.1	6074.2	5795.2	5550.9	5303.6	5084.9	4885.9	4549.6	4365.6	3938.9
75°	4181.6	3852.9	3537.7	3115.5	2735.5	2399.2	2072.0	1906.1	1560.8	1420.5	1220.0
77.5°	1984.5	1800.5	1553.2	1361.7	1117.4	912.3	744.9	559.5	438.8	343.8	262.4
80°	1601.5	1446.2	1296.9	1123.5	939.5	749.5	574.5	429.8	304.6	211.1	149.3
82.5°	1428.1	1259.2	1075.2	956.1	830.9	680.1	558.0	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	72.4	55.8
87.5°	48.3	39.2	31.7	21.1	22.6	12.1	13.6	9.0	7.5	7.5	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°	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2
2.5°	333.3	331.8	330.2	327.2	327.2	324.2	322.7	321.2	313.7	297.1	283.5
5°	349.9	346.8	343.8	339.3	336.3	331.8	328.7	324.2	307.6	276.0	248.8
7.5°	374.0	367.9	363.4	354.4	349.9	343.8	339.3	331.8	304.6	256.4	218.7
10°	402.6	392.1	384.5	374.0	364.9	357.4	349.9	339.3	301.6	235.2	191.5
12.5°	437.3	425.3	410.2	398.1	386.0	375.5	364.9	351.4	297.1	217.2	170.4
15°	472.0	453.9	443.3	426.8	410.2	395.1	380.0	367.9	298.6	197.5	152.3
17.5°	511.2	493.1	470.5	452.4	434.3	414.7	396.6	372.5	291.0	182.5	138.7
20°	548.9	523.3	502.2	479.5	453.9	429.8	407.2	386.0	285.0	167.4	126.7
22.5°	589.6	559.5	532.3	503.7	472.0	444.9	417.7	390.6	274.5	153.8	116.1
25°	639.4	604.7	565.5	530.8	497.6	464.5	429.8	396.6	263.9	141.8	108.6
27.5°	699.7	654.5	615.3	571.5	524.8	482.6	444.9	408.7	253.3	132.7	101.0
30°	776.6	723.8	668.0	612.2	562.5	514.2	461.4	416.2	242.8	123.7	93.5
32.5°	879.2	812.8	744.9	680.1	613.8	551.9	496.1	437.3	236.8	116.1	86.0
35°	1014.9	928.9	846.0	764.5	684.6	609.2	536.8	470.5	236.8	107.1	76.9
37.5°	1143.1	1043.5	938.0	836.9	741.9	654.5	568.5	488.6	224.7	99.5	69.4
40°	1281.8	1162.7	1039.0	919.9	805.3	696.7	598.7	506.7	214.1	90.5	61.8
42.5°	1494.4	1343.6	1182.3	1043.5	906.3	772.1	649.9	541.4	200.6	81.4	54.3
45°	1773.4	1581.9	1391.9	1223.0	1048.1	883.7	738.9	604.7	197.5	73.9	46.7
47.5°	2072.0	1845.8	1622.6	1407.0	1201.9	1010.4	836.9	675.6	197.5	66.4	40.7
50°	2369.0	2085.5	1847.3	1597.0	1366.2	1140.0	933.4	749.5	199.1	60.3	33.2
52.5°	2637.5	2334.4	2067.5	1777.9	1523.1	1260.7	1036.0	821.9	196.0	52.8	27.1
55°	3009.9	2654.1	2344.9	2025.2	1726.6	1431.1	1176.2	930.4	197.5	46.7	22.6
57.5°	3696.1	3278.4	2905.9	2486.7	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	253.3	31.7	12.1
62.5°	5342.8	4632.5	4008.2	3444.2	2936.1	2461.0	2023.7	1624.1	279.0	25.6	7.5
63°	5410.7	4676.3	4048.9	3466.9	2948.1	2473.1	2032.8	1636.2	280.5	24.1	7.5
65°	5538.8	4751.7	4071.6	3471.4	2936.1	2456.5	2026.7	1634.7	283.5	19.6	6.0
67.5°	5392.6	4635.6	3940.4	3341.7	2830.5	2358.5	1951.3	1574.3	282.0	13.6	4.5
70°	4822.5	4195.2	3584.5	3026.5	2562.1	2135.3	1776.4	1435.6	259.4	9.0	3.0
72.5°	3540.8	3114.0	2640.5	2237.9	1930.2	1603.0	1367.7	1078.2	200.6	6.0	1.5
75°	1049.6	956.1	803.8	708.8	625.8	517.2	459.9	358.9	102.5	3.0	0.0
77.5°	209.6	190.0	170.4	155.3	146.3	125.2	119.1	98.0	42.2	1.5	0.0
80°	110.1	90.5	76.9	67.9	58.8	48.3	40.7	33.2	7.5	0.0	0.0
82.5°	105.6	70.9	51.3	42.2	36.2	28.7	22.6	16.6	4.5	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	4.5	4.5	3.0	3.0	1.5	1.5	1.5	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°	318.2	318.2	318.2	318.2	318.2	318.2	318.2
2.5°	269.9	257.9	251.8	244.3	244.3	242.8	245.8
5°	224.7	208.1	196.0	187.0	188.5	184.0	185.5
7.5°	190.0	173.4	162.9	156.8	155.3	153.8	153.8
10°	164.4	149.3	140.2	135.7	134.2	134.2	134.2
12.5°	146.3	131.2	123.7	120.6	120.6	119.1	119.1
15°	131.2	119.1	111.6	108.6	108.6	107.1	108.6
17.5°	119.1	107.1	101.0	98.0	98.0	96.5	96.5
20°	108.6	98.0	92.0	87.5	87.5	86.0	87.5
22.5°	99.5	89.0	81.4	78.4	76.9	75.4	76.9
25°	90.5	79.9	72.4	67.9	66.4	66.4	64.8
27.5°	82.9	72.4	63.3	58.8	57.3	57.3	55.8
30°	75.4	63.3	54.3	49.8	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	27.1	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	12.1	10.6	9.0	10.6
45°	30.2	18.1	10.6	6.0	4.5	4.5	4.5
47.5°	24.1	12.1	4.5	1.5	1.5	1.5	1.5
50°	18.1	7.5	1.5	0.0	0.0	1.5	1.5
52.5°	13.6	4.5	0.0	0.0	0.0	0.0	0.0
55°	7.5	1.5	0.0	0.0	0.0	0.0	0.0
57.5°	4.5	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°	1.5	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.5	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)