

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: P149286

Luminaire Tested: **VXM-F06-LED-E1-SL2-HSS-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149286
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-7050
Description: VISION SITE MEDIUM LED LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9319.1 lumens
Efficiency: N/A
Efficacy: 59.5 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



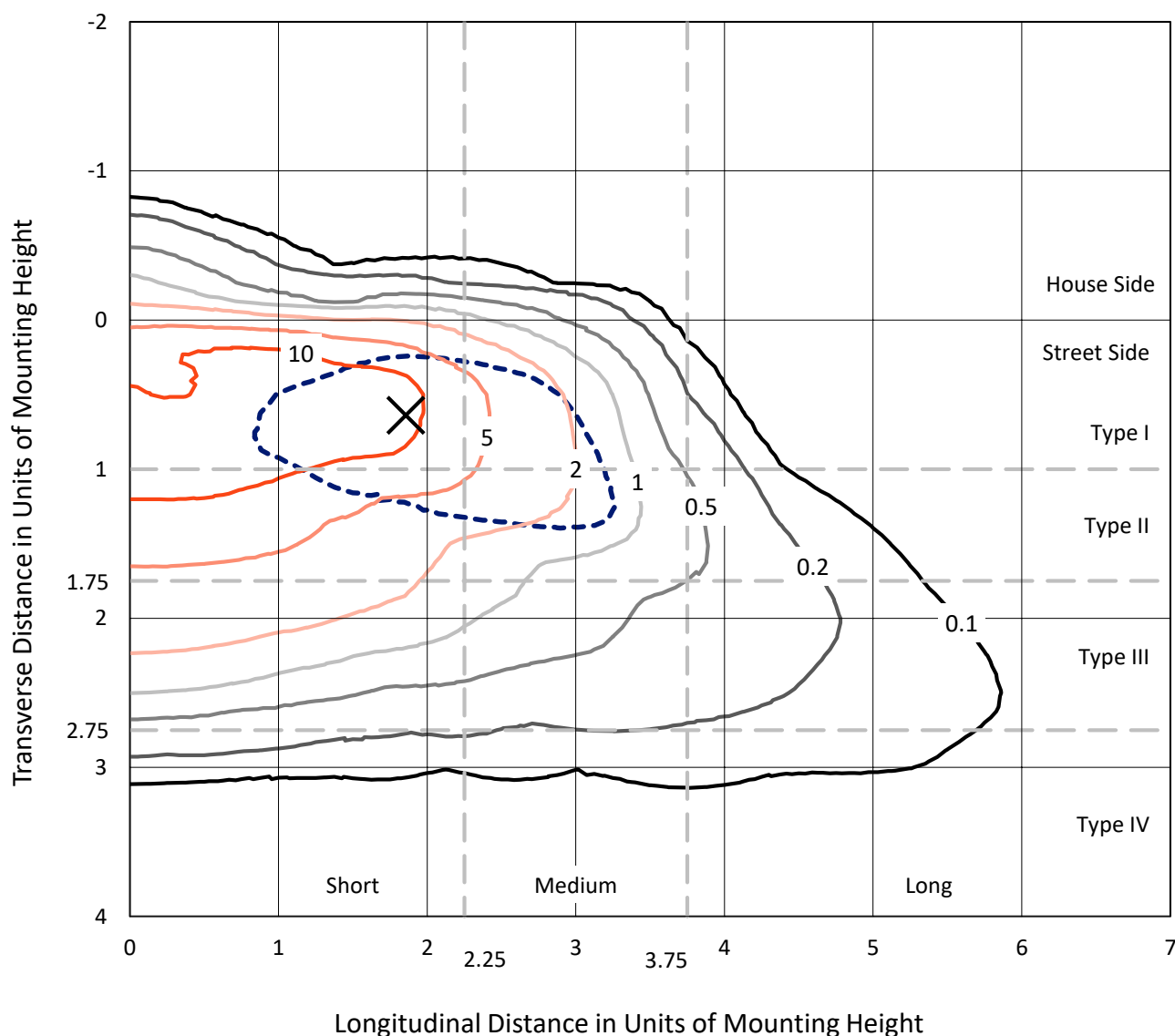
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

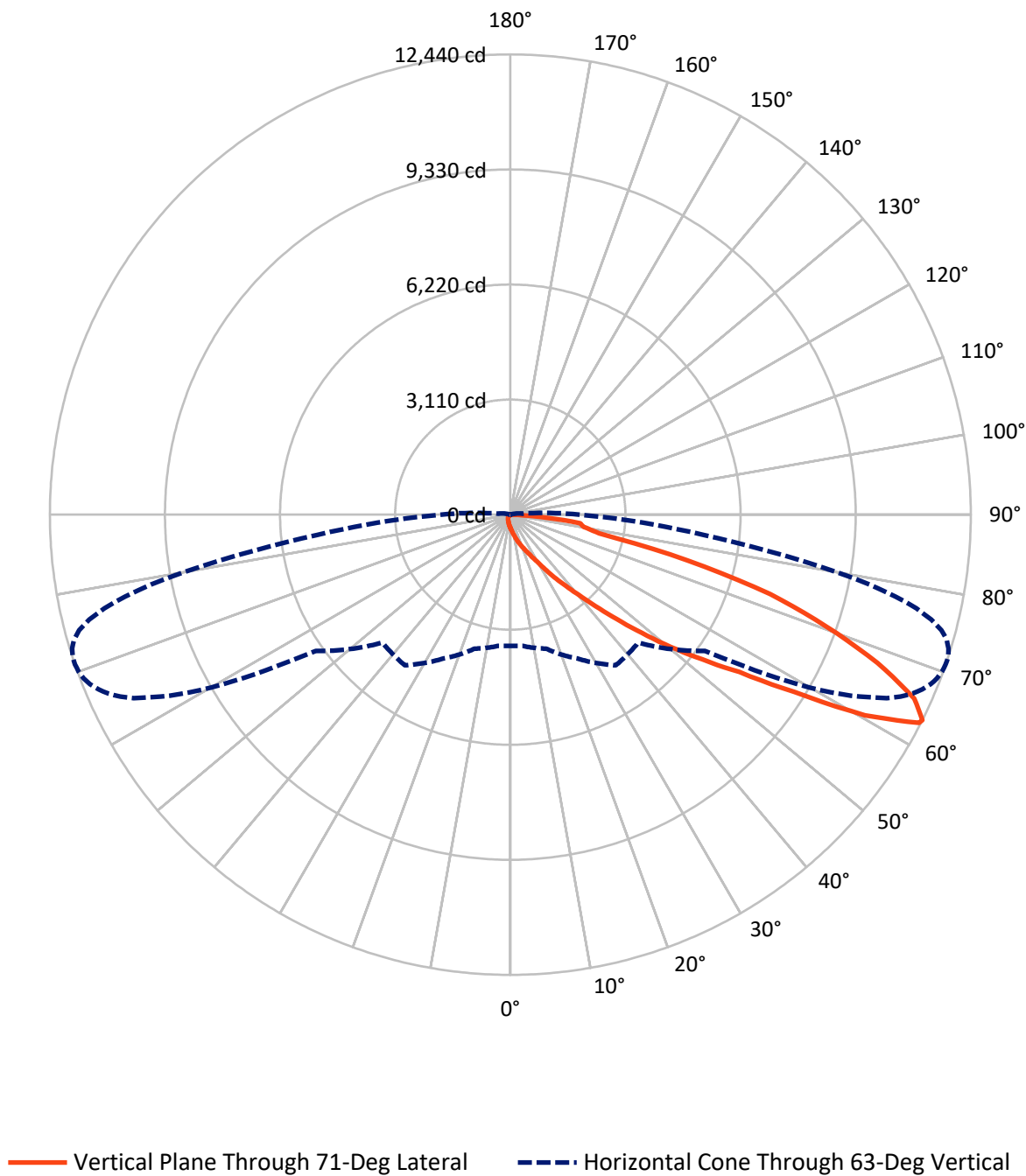


Based on 10 foot mounting height. Maximum calculated value = 19.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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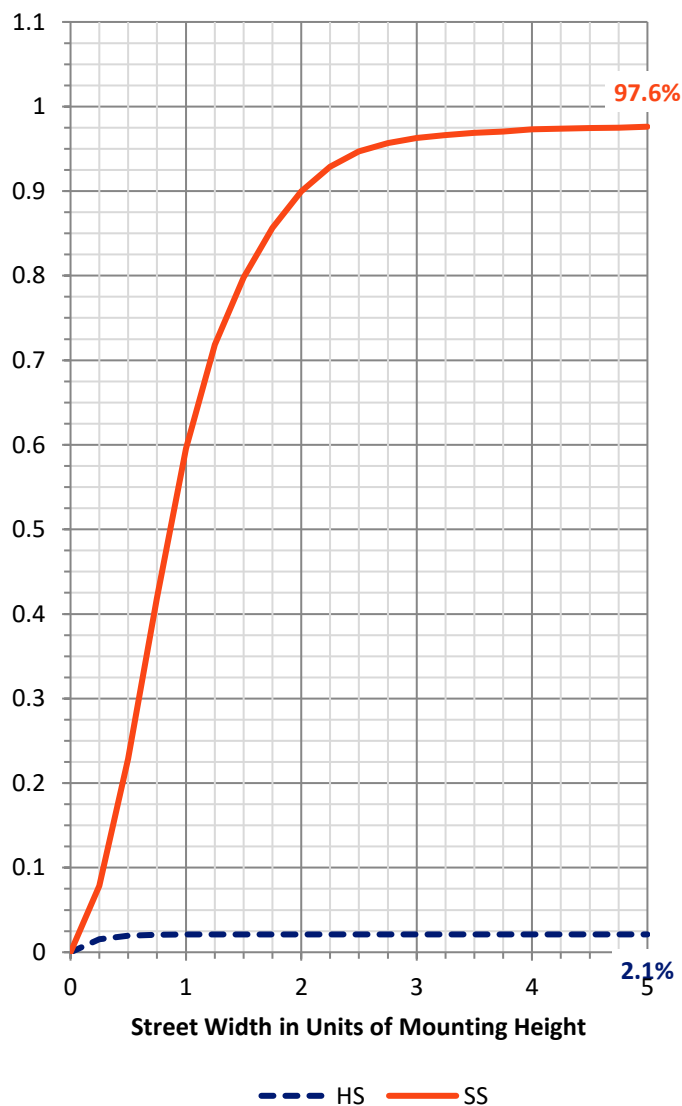
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	197.9	0.0	197.9
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	9121.2	0.0	9121.2
	% Fixture	97.9	0.0	97.9
Total	Lumens	9319.1	0.0	9319.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	0.4
10°-20°	153.2	1.6
20°-30°	311.2	3.3
30°-40°	760.4	8.2
40°-50°	1700.6	18.2
50°-60°	2391.2	25.7
60°-70°	2811.8	30.2
70°-80°	1015.3	10.9
80°-90°	135.8	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°	9319.1	100.0
0°-180°	9319.1	100.0

Coefficient of Utilization



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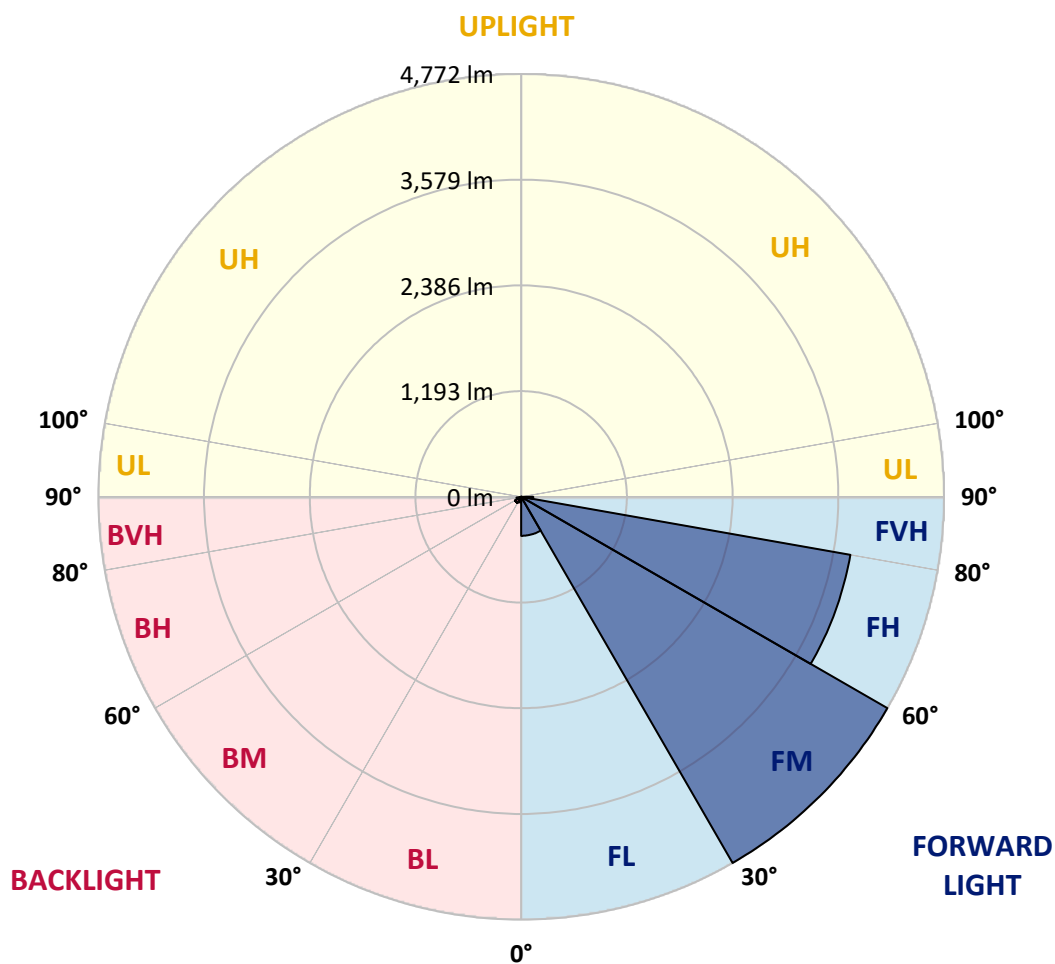
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	440.4	4.7			
FM	(30°-60°)	4772.4	51.2			
FH	(60°-80°)	3772.9	40.5			G2/5000
FVH	(80°-90°)	135.5	1.5			G2/225
BL	(0°-30°)	63.6	0.7	B0/110		
BM	(30°-60°)	79.7	0.9	B0/220		
BH	(60°-80°)	54.2	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°	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5
2.5°	467.6	472.7	469.3	460.8	450.6	437.1	425.2	425.2	423.5	418.5	420.1
5°	613.3	615.0	608.2	587.9	569.2	540.4	508.2	504.9	501.5	496.4	494.7
7.5°	755.6	762.4	755.6	733.6	696.3	652.2	601.4	596.3	586.2	586.2	579.4
10°	901.3	901.3	894.5	869.1	835.2	772.5	708.2	699.7	687.8	684.4	674.3
12.5°	1004.6	1004.6	1001.2	987.7	960.6	904.7	826.7	818.3	803.0	797.9	786.1
15°	1045.3	1045.3	1047.0	1058.8	1060.5	1035.1	953.8	947.0	931.8	918.2	913.1
17.5°	1070.7	1069.0	1069.0	1086.0	1116.4	1133.4	1080.9	1074.1	1057.2	1050.4	1033.4
20°	1126.6	1123.2	1113.1	1113.1	1141.9	1201.2	1201.2	1199.5	1180.8	1175.7	1167.3
22.5°	1209.6	1206.2	1175.7	1150.3	1163.9	1238.4	1307.9	1304.5	1297.7	1290.9	1285.9
25°	1345.2	1333.3	1280.8	1206.2	1194.4	1274.0	1389.2	1397.7	1402.8	1402.8	1406.1
27.5°	1550.1	1534.9	1441.7	1302.8	1250.3	1331.6	1479.0	1495.9	1511.2	1514.6	1529.8
30°	1834.8	1807.7	1673.8	1470.5	1350.2	1416.3	1611.1	1629.8	1651.8	1658.6	1682.3
32.5°	2302.4	2287.1	2158.3	1853.4	1595.9	1582.3	1795.8	1819.5	1848.3	1860.2	1889.0
35°	3013.9	3017.3	2912.2	2637.8	2282.0	2095.7	2126.2	2146.5	2156.7	2192.2	2207.5
37.5°	3496.7	3505.2	3528.9	3420.5	3166.4	2976.6	2737.7	2759.8	2707.3	2712.3	2714.0
40°	3761.0	3788.1	3927.0	4032.1	4011.8	3901.6	3710.2	3722.1	3623.8	3601.8	3495.0
42.5°	3937.2	3972.8	4194.7	4520.0	4686.0	4786.0	4741.9	4736.8	4660.6	4631.8	4542.0
45°	4047.3	4079.5	4359.1	4838.5	5221.4	5512.8	5633.1	5646.6	5582.2	5553.4	5478.9
47.5°	4042.2	4079.5	4379.4	4957.1	5521.2	5987.1	6326.0	6342.9	6381.9	6356.5	6361.5
50°	3818.6	3854.2	4155.8	4755.5	5433.1	6204.0	6824.0	6878.3	6940.9	6983.3	7003.6
52.5°	3547.6	3573.0	3840.6	4409.9	5057.0	6114.2	7118.8	7212.0	7305.2	7384.8	7440.7
55°	3447.6	3476.4	3686.5	4159.1	4755.5	5738.1	7256.0	7393.3	7525.4	7655.9	7762.6
57.5°	3500.1	3527.2	3678.0	4040.6	4575.9	5341.7	7295.0	7508.5	7725.3	7937.1	8147.2
60°	3693.2	3722.1	3850.8	4150.7	4528.5	5112.9	7142.5	7496.6	7857.5	8226.8	8574.1
62.5°	3617.0	3628.9	3818.6	4343.8	4867.3	4918.1	6588.6	7083.2	7633.8	8203.1	8763.8
63°	3544.2	3557.7	3750.9	4291.3	4970.6	4889.3	6417.4	6939.2	7520.3	8133.6	8743.5
65°	3213.8	3215.5	3362.9	3789.8	4855.4	4940.1	5655.1	6153.2	6820.7	7555.9	8326.8
67.5°	2398.9	2387.1	2529.4	2854.6	3811.8	4941.8	4853.7	5133.3	5597.5	6249.7	6940.9
70°	850.5	831.8	1062.2	1512.9	2375.2	4042.2	4171.0	4189.6	4318.4	4670.8	5104.5
72.5°	276.1	281.2	338.8	554.0	1094.4	2720.8	3776.3	3718.7	3684.8	3683.1	3740.7
75°	110.1	111.8	135.5	245.7	491.3	1311.3	3307.0	3339.2	3351.0	3368.0	3386.6
77.5°	52.5	57.6	76.2	137.2	244.0	648.9	2366.7	2639.5	2795.3	2915.6	2988.5
80°	18.6	22.0	42.4	84.7	113.5	298.2	1246.9	1504.4	1733.1	2027.9	2282.0
82.5°	0.0	0.0	8.5	59.3	62.7	120.3	511.6	599.7	686.1	889.4	1141.9
85°	0.0	0.0	0.0	16.9	18.6	20.3	172.8	208.4	233.8	272.8	315.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.1	10.2	25.4	39.0
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°	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5
2.5°	416.8	415.1	415.1	411.7	410.0	406.6	404.9	399.8	398.1	398.1	398.1
5°	493.0	486.2	482.8	474.4	469.3	467.6	459.1	455.7	450.6	452.3	443.9
7.5°	577.7	565.8	560.8	548.9	545.5	533.7	530.3	521.8	516.7	506.6	503.2
10°	670.9	655.6	647.2	628.5	623.4	615.0	604.8	594.6	586.2	576.0	570.9
12.5°	777.6	764.1	757.3	731.9	720.0	708.2	694.6	681.0	667.5	659.0	647.2
15°	903.0	881.0	874.2	850.5	830.1	814.9	796.3	779.3	769.1	752.2	740.3
17.5°	1026.7	1004.6	999.5	964.0	941.9	931.8	911.5	889.4	870.8	853.9	835.2
20°	1150.3	1135.1	1121.5	1087.6	1063.9	1047.0	1019.9	997.9	982.6	958.9	935.2
22.5°	1274.0	1258.8	1248.6	1213.0	1191.0	1167.3	1143.6	1119.8	1097.8	1069.0	1041.9
25°	1401.1	1390.9	1385.8	1353.6	1333.3	1311.3	1287.6	1260.4	1233.3	1201.2	1172.4
27.5°	1533.2	1536.6	1526.4	1519.7	1497.6	1482.4	1445.1	1426.5	1406.1	1367.2	1331.6
30°	1700.9	1711.1	1707.7	1712.8	1699.2	1689.1	1660.3	1636.6	1612.8	1575.6	1534.9
32.5°	1912.7	1926.2	1933.0	1951.7	1944.9	1941.5	1933.0	1899.1	1882.2	1817.8	1800.9
35°	2239.7	2232.9	2261.7	2276.9	2270.2	2266.8	2256.6	2238.0	2217.6	2171.9	2129.5
37.5°	2664.9	2671.7	2681.8	2651.3	2631.0	2629.3	2598.8	2580.2	2551.4	2500.6	2449.7
40°	3444.2	3401.9	3354.4	3225.7	3169.8	3137.6	3047.8	3022.4	2973.2	2903.8	2851.3
42.5°	4457.3	4415.0	4272.6	4057.5	3942.3	3783.0	3710.2	3620.4	3550.9	3437.4	3376.4
45°	5463.6	5341.7	5324.7	5074.0	4931.7	4721.6	4591.1	4440.4	4282.8	4133.7	4025.3
47.5°	6312.4	6285.3	6202.3	6049.8	5917.7	5741.5	5573.8	5341.7	5179.0	4967.3	4772.4
50°	6991.8	6990.1	6959.6	6871.5	6761.4	6619.0	6471.7	6275.1	6090.5	5831.3	5622.9
52.5°	7500.0	7527.1	7537.3	7510.2	7467.8	7342.5	7267.9	7103.6	6947.7	6727.5	6502.2
55°	7872.7	7972.7	8023.5	8081.1	8069.2	8025.2	8021.8	7915.1	7843.9	7669.4	7510.2
57.5°	8333.5	8497.9	8655.4	8935.0	8945.1	9043.4	9094.2	9145.0	9158.6	9089.1	9036.6
60°	8919.7	9255.1	9553.3	10137.8	10290.3	10530.8	10686.7	10856.1	11000.1	11012.0	11008.6
62.5°	9333.1	9849.8	10330.9	11198.3	11494.8	11772.7	11981.0	12145.4	12245.3	12347.0	12394.4
63°	9344.9	9910.8	10422.4	11316.9	11628.7	11892.9	12091.2	12243.6	12348.7	12409.7	12440.2
65°	9058.6	9744.8	10354.7	11245.8	11538.9	11804.8	11908.2	12008.1	12059.0	12082.7	11992.9
67.5°	7677.9	8348.8	9060.3	10056.5	10307.2	10625.7	10710.4	10761.2	10785.0	10779.9	10703.6
70°	5741.5	6303.9	7095.1	8233.6	8565.6	8877.4	9070.5	9153.5	9180.6	9172.1	9058.6
72.5°	4008.4	4338.7	4991.0	6258.2	6710.5	7110.4	7349.2	7472.9	7498.3	7447.5	7342.5
75°	3366.3	3383.2	3530.6	4223.5	4647.1	5074.0	5343.4	5421.3	5370.5	5216.3	4948.6
77.5°	3005.4	3042.7	3042.7	3146.0	3229.1	3347.6	3373.1	3183.3	2963.1	2678.5	2448.0
80°	2520.9	2651.3	2742.8	2819.1	2827.5	2803.8	2741.1	2634.4	2465.0	2248.1	2007.6
82.5°	1531.5	1789.0	1894.1	2287.1	2480.2	2610.7	2600.5	2458.2	2329.5	2104.1	1899.1
85°	386.3	416.8	452.3	587.9	659.0	804.7	896.2	938.6	953.8	875.9	792.9
87.5°	37.3	25.4	42.4	32.2	45.7	33.9	45.7	42.4	52.5	55.9	61.0
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5
2.5°	394.7	393.0	391.3	389.7	388.0	386.3	382.9	382.9	379.5	377.8	376.1
5°	438.8	435.4	433.7	430.3	425.2	421.8	416.8	410.0	404.9	403.2	399.8
7.5°	494.7	486.2	482.8	477.8	471.0	460.8	454.0	449.0	440.5	435.4	425.2
10°	557.4	548.9	538.7	528.6	518.4	506.6	498.1	491.3	477.8	471.0	459.1
12.5°	637.0	621.8	609.9	596.3	582.8	569.2	559.1	538.7	526.9	511.6	501.5
15°	718.3	704.8	691.2	674.3	653.9	631.9	621.8	603.1	587.9	564.2	550.6
17.5°	816.6	791.2	770.8	750.5	731.9	711.5	691.2	662.4	640.4	620.1	593.0
20°	913.1	882.7	860.6	833.5	806.4	774.2	750.5	730.2	699.7	672.6	643.8
22.5°	1016.5	986.0	950.4	923.3	886.0	860.6	828.4	794.6	764.1	728.5	692.9
25°	1141.9	1109.7	1069.0	1033.4	991.1	955.5	916.5	877.6	840.3	799.6	753.9
27.5°	1296.0	1262.1	1218.1	1175.7	1119.8	1075.8	1038.5	986.0	938.6	887.7	835.2
30°	1490.9	1453.6	1399.4	1338.4	1282.5	1233.3	1180.8	1111.4	1058.8	997.9	930.1
32.5°	1745.0	1700.9	1628.1	1570.5	1501.0	1436.6	1363.8	1294.3	1219.8	1140.2	1062.2
35°	2065.2	2024.5	1939.8	1855.1	1778.9	1702.6	1611.1	1531.5	1426.5	1329.9	1230.0
37.5°	2397.2	2324.4	2246.4	2155.0	2060.1	1968.6	1856.8	1746.7	1626.4	1521.3	1396.0
40°	2776.7	2688.6	2624.2	2526.0	2392.1	2261.7	2158.3	2021.1	1870.3	1729.7	1582.3
42.5°	3296.8	3198.6	3083.4	2934.3	2837.7	2685.2	2551.4	2388.8	2190.5	2033.0	1855.1
45°	3898.2	3764.4	3652.6	3508.6	3391.7	3201.9	3046.1	2829.2	2631.0	2424.3	2207.5
47.5°	4584.4	4418.3	4255.7	4113.4	3927.0	3740.7	3542.5	3312.1	3057.9	2830.9	2573.4
50°	5372.2	5136.7	4911.3	4728.4	4472.6	4257.4	4042.2	3783.0	3501.8	3240.9	2947.8
52.5°	6248.0	5975.3	5677.1	5395.9	5099.4	4823.2	4564.0	4265.9	3952.5	3634.0	3307.0
55°	7305.2	7100.2	6749.5	6392.0	5995.6	5626.3	5292.5	4923.2	4542.0	4123.6	3779.7
57.5°	8960.4	8860.4	8567.3	8209.9	7693.1	7244.2	6678.3	6226.0	5673.7	5097.7	4653.8
60°	11203.4	11079.7	10915.4	10625.7	10215.7	9605.8	8982.4	8279.3	7439.0	6641.1	5883.8
62.5°	12399.5	12355.4	12221.6	12021.7	11638.8	11157.7	10529.1	9756.6	8807.9	7838.8	6873.2
63°	12435.1	12379.2	12264.0	12060.7	11723.5	11257.6	10641.0	9890.5	8962.1	7974.4	6988.4
65°	11953.9	11931.9	11815.0	11593.1	11362.7	11006.9	10529.1	9883.7	9104.4	8170.9	7190.0
67.5°	10602.0	10535.9	10356.3	10288.6	10127.6	9880.3	9516.0	9072.2	8514.8	7781.2	6934.2
70°	8967.1	8868.9	8643.6	8523.3	8326.8	8170.9	7949.0	7632.2	7288.2	6776.6	6144.7
72.5°	7234.0	7030.7	6824.0	6510.6	6236.2	5958.3	5712.7	5489.1	5111.3	4904.6	4425.1
75°	4697.9	4328.6	3974.5	3500.1	3073.2	2695.4	2327.8	2141.4	1753.4	1595.9	1370.6
77.5°	2229.5	2022.8	1745.0	1529.8	1255.4	1025.0	836.9	628.5	493.0	386.3	294.8
80°	1799.2	1624.7	1457.0	1262.1	1055.5	842.0	645.5	482.8	342.2	237.2	167.7
82.5°	1604.4	1414.6	1207.9	1074.1	933.5	764.1	626.8	511.6	377.8	276.1	188.1
85°	623.4	525.2	404.9	330.4	257.5	211.8	191.4	132.1	103.3	81.3	62.7
87.5°	54.2	44.0	35.6	23.7	25.4	13.6	15.2	10.2	8.5	8.5	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°	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5	357.5
2.5°	374.4	372.7	371.0	367.6	367.6	364.2	362.5	360.9	352.4	333.7	318.5
5°	393.0	389.7	386.3	381.2	377.8	372.7	369.3	364.2	345.6	310.0	279.5
7.5°	420.1	413.4	408.3	398.1	393.0	386.3	381.2	372.7	342.2	288.0	245.7
10°	452.3	440.5	432.0	420.1	410.0	401.5	393.0	381.2	338.8	264.3	215.2
12.5°	491.3	477.8	460.8	447.3	433.7	421.8	410.0	394.7	333.7	244.0	191.4
15°	530.3	509.9	498.1	479.4	460.8	443.9	426.9	413.4	335.4	221.9	171.1
17.5°	574.3	554.0	528.6	508.2	487.9	465.9	445.6	418.5	327.0	205.0	155.9
20°	616.7	587.9	564.2	538.7	509.9	482.8	457.4	433.7	320.2	188.1	142.3
22.5°	662.4	628.5	598.0	565.8	530.3	499.8	469.3	438.8	308.3	172.8	130.4
25°	718.3	679.4	635.3	596.3	559.1	521.8	482.8	445.6	296.5	159.3	122.0
27.5°	786.1	735.3	691.2	642.1	589.6	542.1	499.8	459.1	284.6	149.1	113.5
30°	872.5	813.2	750.5	687.8	631.9	577.7	518.4	467.6	272.8	138.9	105.0
32.5°	987.7	913.1	836.9	764.1	689.5	620.1	557.4	491.3	266.0	130.4	96.6
35°	1140.2	1043.6	950.4	858.9	769.1	684.4	603.1	528.6	266.0	120.3	86.4
37.5°	1284.2	1172.4	1053.8	940.3	833.5	735.3	638.7	548.9	252.4	111.8	77.9
40°	1440.0	1306.2	1167.3	1033.4	904.7	782.7	672.6	569.2	240.6	101.6	69.5
42.5°	1678.9	1509.5	1328.2	1172.4	1018.2	867.4	730.2	608.2	225.3	91.5	61.0
45°	1992.3	1777.2	1563.7	1374.0	1177.4	992.8	830.1	679.4	221.9	83.0	52.5
47.5°	2327.8	2073.6	1822.9	1580.6	1350.2	1135.1	940.3	759.0	221.9	74.5	45.7
50°	2661.5	2343.0	2075.3	1794.1	1534.9	1280.8	1048.7	842.0	223.6	67.8	37.3
52.5°	2963.1	2622.5	2322.7	1997.4	1711.1	1416.3	1163.9	923.3	220.2	59.3	30.5
55°	3381.5	2981.7	2634.4	2275.2	1939.8	1607.7	1321.4	1045.3	221.9	52.5	25.4
57.5°	4152.4	3683.1	3264.6	2793.7	2407.4	1978.8	1631.5	1296.0	242.3	44.0	18.6
60°	5258.6	4648.8	4060.9	3486.6	2995.3	2485.3	2034.7	1639.9	284.6	35.6	13.6
62.5°	6002.4	5204.4	4503.1	3869.4	3298.5	2764.9	2273.6	1824.6	313.4	28.8	8.5
63°	6078.6	5253.6	4548.8	3894.9	3312.1	2778.4	2283.7	1838.2	315.1	27.1	8.5
65°	6222.6	5338.3	4574.2	3899.9	3298.5	2759.8	2276.9	1836.5	318.5	22.0	6.8
67.5°	6058.3	5207.8	4426.8	3754.2	3179.9	2649.7	2192.2	1768.7	316.8	15.2	5.1
70°	5417.9	4713.1	4027.0	3400.2	2878.4	2398.9	1995.7	1612.8	291.4	10.2	3.4
72.5°	3977.9	3498.4	2966.5	2514.1	2168.5	1800.9	1536.6	1211.3	225.3	6.8	1.7
75°	1179.1	1074.1	903.0	796.3	703.1	581.1	516.7	403.2	115.2	3.4	0.0
77.5°	235.5	213.5	191.4	174.5	164.3	140.6	133.8	110.1	47.4	1.7	0.0
80°	123.7	101.6	86.4	76.2	66.1	54.2	45.7	37.3	8.5	0.0	0.0
82.5°	118.6	79.6	57.6	47.4	40.7	32.2	25.4	18.6	5.1	0.0	0.0
85°	44.0	33.9	25.4	20.3	16.9	15.2	11.9	10.2	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°	357.5	357.5	357.5	357.5	357.5	357.5	357.5
2.5°	303.3	289.7	282.9	274.5	274.5	272.8	276.1
5°	252.4	233.8	220.2	210.1	211.8	206.7	208.4
7.5°	213.5	194.8	183.0	176.2	174.5	172.8	172.8
10°	184.7	167.7	157.6	152.5	150.8	150.8	150.8
12.5°	164.3	147.4	138.9	135.5	135.5	133.8	133.8
15°	147.4	133.8	125.4	122.0	122.0	120.3	122.0
17.5°	133.8	120.3	113.5	110.1	110.1	108.4	108.4
20°	122.0	110.1	103.3	98.3	98.3	96.6	98.3
22.5°	111.8	100.0	91.5	88.1	86.4	84.7	86.4
25°	101.6	89.8	81.3	76.2	74.5	74.5	72.8
27.5°	93.2	81.3	71.2	66.1	64.4	64.4	62.7
30°	84.7	71.2	61.0	55.9	54.2	54.2	54.2
32.5°	76.2	61.0	52.5	47.4	45.7	45.7	45.7
35°	67.8	52.5	44.0	39.0	37.3	37.3	37.3
37.5°	57.6	44.0	33.9	30.5	28.8	27.1	27.1
40°	49.1	33.9	25.4	22.0	18.6	18.6	18.6
42.5°	40.7	27.1	18.6	13.6	11.9	10.2	11.9
45°	33.9	20.3	11.9	6.8	5.1	5.1	5.1
47.5°	27.1	13.6	5.1	1.7	1.7	1.7	1.7
50°	20.3	8.5	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°	8.5	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)