

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: P181288

Luminaire Tested: **ICS-E02-LED-E1-T2-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181288
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-E02-LED-E1-T2-7030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5037.3 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 52.1
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

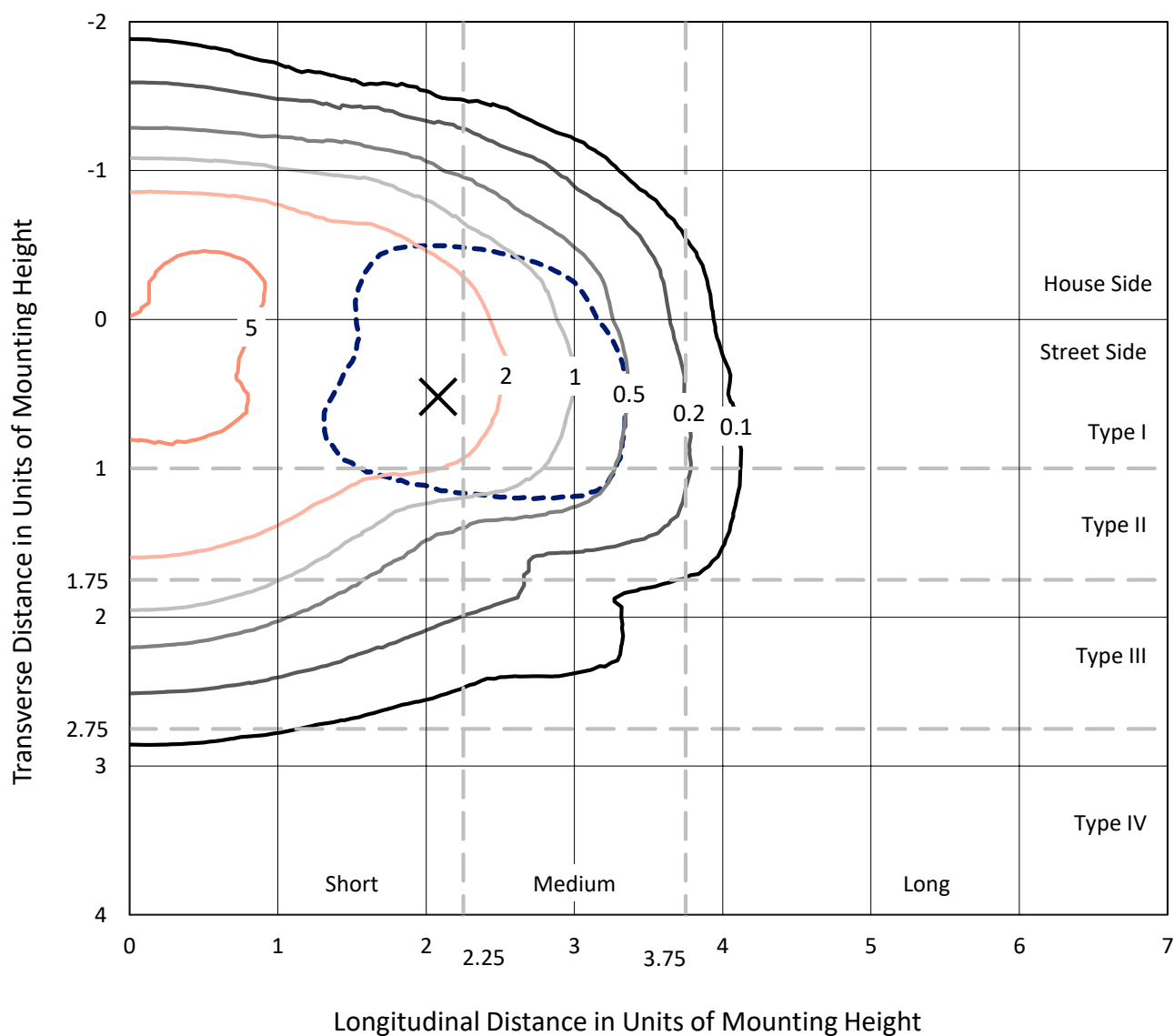


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

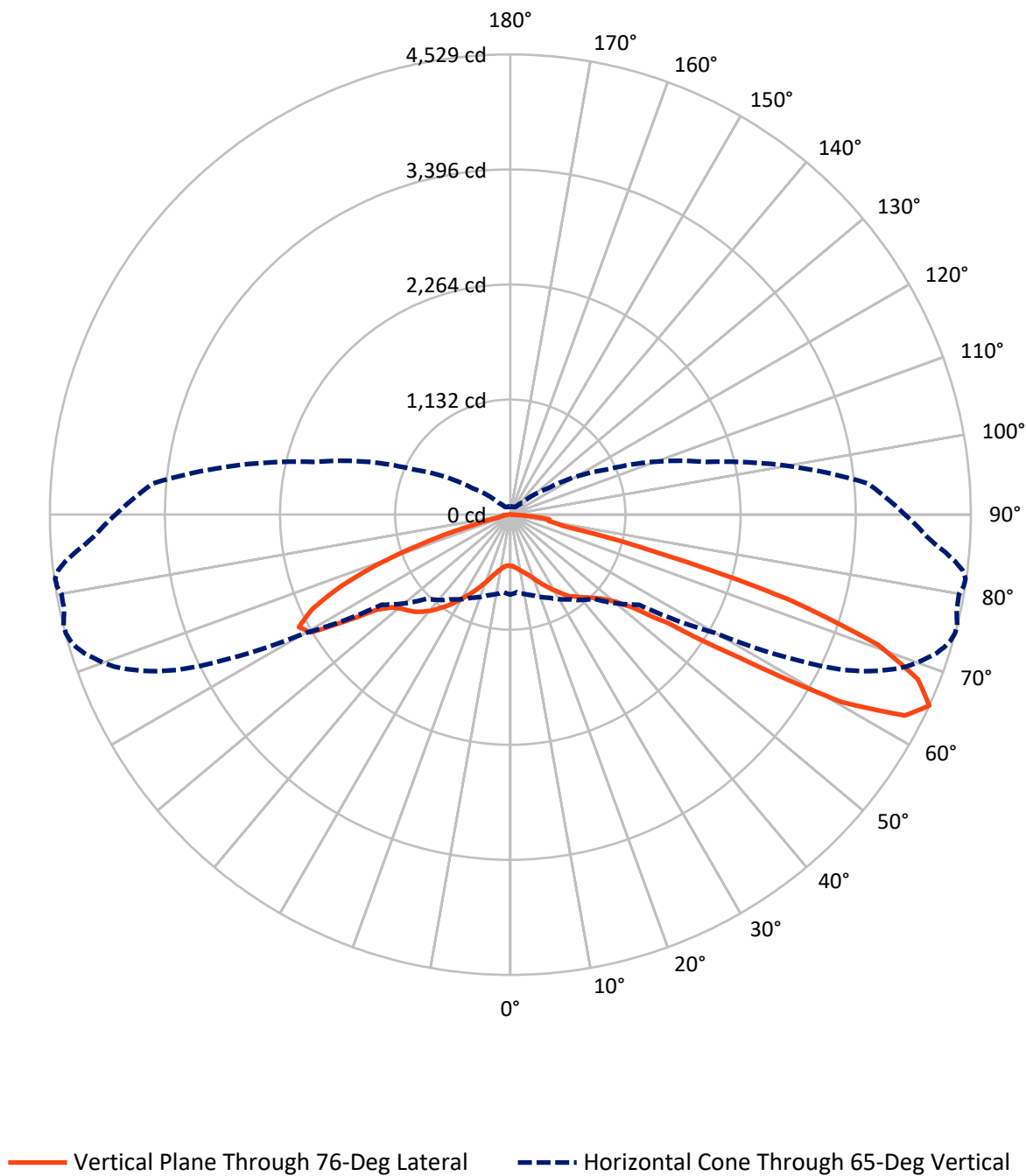


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1763.9	0.0	1763.9
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	3273.4	0.0	3273.4
	% Fixture	65.0	0.0	65.0
Total	Lumens	5037.3	0.0	5037.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	1.0
10°-20°	173.2	3.4
20°-30°	340.3	6.8
30°-40°	565.5	11.2
40°-50°	830.9	16.5
50°-60°	1150.4	22.8
60°-70°	1373.1	27.3
70°-80°	485.6	9.6
80°-90°	67.8	1.3
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°	5037.3	100.0
0°-180°	5037.3	100.0

Coefficient of Utilization



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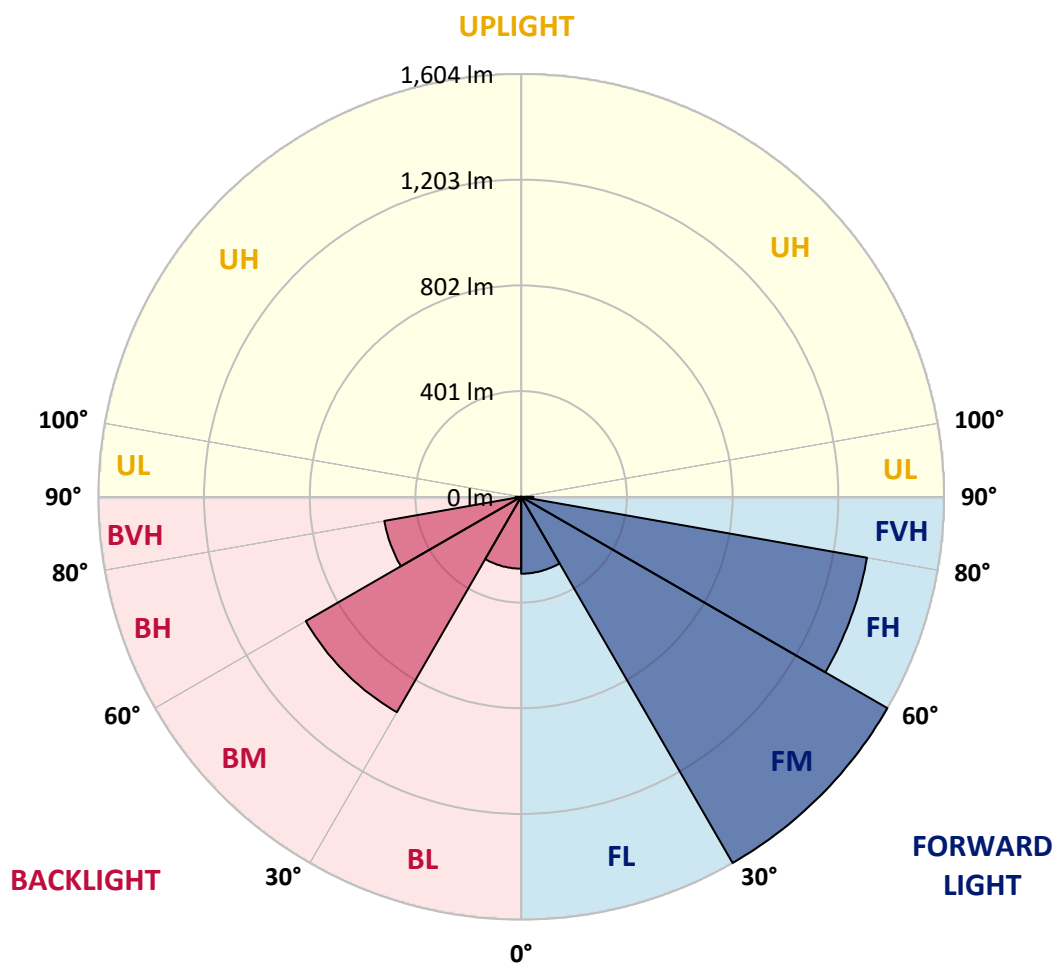
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	291.5	5.8			
FM	(30°-60°)	1603.7	31.8			
FH	(60°-80°)	1331.8	26.4			G1/1800
FVH	(80°-90°)	46.4	0.9			G1/100
BL	(0°-30°)	272.5	5.4	B1/500		
BM	(30°-60°)	943.1	18.7	B1/1000		
BH	(60°-80°)	526.9	10.5	B2/1000		G2/1000
BVH	(80°-90°)	21.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6
2.5°	525.6	526.1	525.0	524.5	522.8	520.1	517.9	515.7	515.7	515.7	514.1
5°	548.6	549.7	547.5	545.8	540.9	538.2	534.3	531.6	530.5	530.0	528.3
7.5°	577.6	576.0	572.7	571.6	567.8	561.7	554.6	549.1	549.1	548.6	549.1
10°	606.7	602.3	600.7	599.0	593.0	585.3	577.1	571.1	570.5	570.0	568.3
12.5°	635.7	634.1	632.4	626.4	620.4	608.3	599.0	593.0	592.4	593.0	590.8
15°	674.1	670.3	668.6	658.2	645.0	631.9	620.4	614.9	613.3	613.8	612.2
17.5°	703.7	703.7	699.8	688.3	671.3	653.3	641.2	637.9	637.4	637.4	637.9
20°	727.2	726.7	722.9	713.5	693.3	675.2	669.2	668.1	667.5	667.5	669.2
22.5°	740.4	739.3	737.7	727.2	711.4	699.3	699.8	703.1	704.2	705.3	707.5
25°	747.0	745.3	744.8	737.7	726.2	724.5	734.4	743.1	745.3	747.5	750.3
27.5°	757.9	755.2	756.3	753.6	750.8	755.7	776.0	785.3	787.0	789.7	791.4
30°	788.1	787.0	791.4	792.5	794.7	801.8	820.4	829.2	833.0	833.0	840.7
32.5°	845.6	846.2	847.3	858.8	862.6	867.5	877.4	884.5	885.1	885.6	892.8
35°	922.9	926.2	935.5	945.4	954.7	954.1	948.1	951.9	949.2	952.5	953.0
37.5°	1020.5	1016.1	1029.8	1052.2	1066.5	1062.6	1035.8	1018.3	1023.2	1021.0	1019.4
40°	1095.5	1100.5	1126.8	1156.4	1167.3	1179.4	1144.3	1114.2	1109.8	1101.6	1096.6
42.5°	1199.1	1199.7	1221.0	1243.0	1274.7	1301.0	1278.6	1235.3	1222.1	1212.3	1190.9
45°	1295.0	1293.4	1310.9	1337.8	1375.6	1413.4	1421.6	1374.5	1369.6	1352.0	1324.1
47.5°	1359.1	1356.9	1369.0	1404.1	1465.5	1527.4	1561.4	1547.1	1537.8	1530.7	1486.8
50°	1402.4	1398.1	1411.8	1449.0	1517.5	1612.9	1701.7	1713.7	1709.9	1709.9	1681.9
52.5°	1434.8	1434.8	1444.6	1474.8	1544.4	1663.3	1822.2	1883.1	1888.0	1893.5	1891.8
55°	1416.7	1419.4	1444.1	1487.9	1561.4	1698.4	1922.0	2055.2	2082.6	2105.6	2131.9
57.5°	1354.8	1364.1	1397.0	1468.7	1565.8	1724.7	2032.7	2296.3	2373.6	2440.4	2544.5
60°	1264.3	1276.4	1324.1	1415.6	1533.4	1681.9	2071.6	2500.2	2622.9	2768.7	3040.5
62.5°	1109.2	1121.3	1167.9	1259.4	1360.2	1518.1	1910.5	2530.3	2726.5	2933.1	3344.1
65°	785.9	766.7	820.4	902.6	1018.3	1171.2	1543.8	2328.1	2610.3	2890.4	3397.8
67.5°	437.9	436.2	469.1	530.5	641.2	805.6	1063.7	1785.5	2045.3	2362.6	2985.7
70°	302.0	305.3	326.1	392.4	483.9	625.9	757.9	1121.3	1308.2	1523.6	2136.3
72.5°	212.1	219.2	230.7	270.2	363.9	527.2	774.4	670.3	763.4	910.3	1284.6
75°	124.4	129.3	137.6	156.7	207.2	352.4	801.8	589.1	589.1	623.7	777.1
77.5°	76.7	76.7	81.7	89.3	110.2	172.6	571.1	662.0	643.4	623.7	625.3
80°	39.5	42.2	49.3	53.2	61.4	78.9	256.5	617.6	677.4	717.4	689.4
82.5°	18.1	20.3	30.1	32.3	35.6	41.7	88.2	351.3	470.8	619.8	774.4
85°	9.3	9.3	15.9	19.7	21.4	19.2	32.3	141.9	214.8	327.7	513.0
87.5°	1.6	1.6	2.7	3.3	4.9	4.4	5.5	8.2	13.7	14.8	15.3
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6
2.5°	513.5	514.1	513.5	513.0	511.9	511.9	511.9	511.3	511.3	511.3	510.8
5°	528.3	526.1	526.7	525.6	525.0	524.5	525.0	523.9	522.8	523.4	522.8
7.5°	546.9	545.8	543.7	543.7	543.1	542.0	542.0	540.4	539.8	538.7	538.2
10°	567.8	565.0	566.1	565.0	565.6	563.4	562.3	561.2	560.1	560.1	560.6
12.5°	589.1	588.6	587.0	585.9	585.9	584.2	584.8	584.2	582.6	582.0	580.4
15°	611.1	611.1	609.4	610.0	609.4	608.3	607.2	607.2	606.1	605.0	605.6
17.5°	636.8	636.8	636.8	636.8	637.4	635.7	636.3	635.2	634.1	636.3	636.3
20°	670.3	672.4	672.4	671.9	674.6	673.0	672.4	675.2	672.4	676.3	675.7
22.5°	708.6	710.8	710.8	713.0	713.5	715.2	716.3	715.2	717.4	719.6	719.6
25°	751.4	753.6	755.2	758.5	760.1	759.0	759.6	762.3	763.4	765.6	767.8
27.5°	796.3	796.9	799.0	802.9	805.6	806.7	807.3	811.6	812.2	813.3	815.5
30°	840.1	845.6	844.5	849.5	851.1	852.8	856.0	857.7	861.5	863.7	863.7
32.5°	891.7	890.6	894.9	898.8	901.5	904.3	907.0	909.2	911.4	912.5	918.0
35°	955.8	958.0	958.0	958.5	965.1	965.6	967.8	972.8	974.4	977.7	979.9
37.5°	1019.4	1015.5	1015.0	1015.0	1012.8	1014.4	1015.0	1015.5	1017.7	1018.3	1020.5
40°	1090.6	1085.7	1081.3	1078.5	1074.2	1068.1	1067.0	1064.3	1065.9	1065.4	1065.9
42.5°	1188.2	1174.4	1164.0	1156.4	1147.6	1141.0	1136.1	1129.0	1124.0	1118.0	1116.9
45°	1312.6	1286.8	1269.3	1256.7	1244.1	1226.0	1215.6	1204.6	1194.7	1184.9	1176.6
47.5°	1475.9	1448.5	1420.5	1397.5	1377.8	1348.7	1319.1	1302.7	1283.5	1266.5	1254.5
50°	1668.2	1635.4	1622.2	1589.9	1565.2	1521.4	1484.6	1457.8	1419.4	1393.7	1371.2
52.5°	1865.0	1856.8	1849.6	1822.2	1793.2	1768.0	1735.6	1688.5	1649.6	1620.0	1574.0
55°	2133.0	2136.8	2134.1	2119.3	2108.9	2084.7	2071.6	2030.5	2013.0	1970.2	1922.0
57.5°	2584.0	2614.7	2653.6	2669.0	2689.8	2670.1	2693.1	2721.0	2651.4	2675.5	2632.2
60°	3160.0	3300.8	3384.7	3487.7	3555.1	3649.4	3666.4	3691.0	3683.9	3697.6	3725.6
62.5°	3511.8	3679.0	3839.6	3956.3	4081.3	4150.3	4233.6	4291.7	4352.0	4392.5	4381.0
65°	3615.4	3787.5	3933.3	4061.0	4172.8	4257.2	4334.4	4407.3	4462.7	4501.6	4524.6
67.5°	3235.1	3459.8	3613.2	3762.8	3907.0	3995.8	4060.4	4131.1	4212.2	4279.6	4292.8
70°	2434.4	2771.4	2989.0	3168.2	3337.6	3457.0	3547.5	3613.2	3676.3	3724.5	3777.1
72.5°	1522.5	1817.3	2066.1	2298.5	2478.2	2642.6	2718.8	2864.6	2845.4	2882.1	2921.6
75°	912.5	1056.1	1193.1	1356.9	1451.2	1588.2	1612.9	1637.0	1624.4	1583.3	1614.0
77.5°	634.1	657.6	656.6	647.2	637.4	613.3	582.0	565.0	553.5	537.1	543.7
80°	637.9	587.0	509.1	428.0	353.5	304.2	284.4	284.4	304.7	333.8	362.8
82.5°	762.3	708.1	631.3	528.3	418.7	340.9	288.8	268.0	271.8	301.4	338.7
85°	514.1	526.1	461.4	422.0	334.3	260.3	218.1	177.0	156.7	161.7	183.0
87.5°	18.6	22.5	8.2	11.0	7.7	6.6	6.6	7.1	4.9	6.0	5.5
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6
2.5°	510.2	509.7	509.7	508.6	508.6	508.0	508.0	507.5	506.9	506.9	506.4
5°	522.3	521.7	520.6	520.1	519.0	519.0	518.4	517.3	517.3	516.3	515.7
7.5°	539.3	538.2	537.1	536.5	536.0	534.3	534.3	533.2	533.2	532.1	531.6
10°	559.5	558.5	557.4	557.9	556.3	555.7	554.6	554.6	553.0	552.4	552.4
12.5°	581.5	580.9	580.9	579.3	578.7	578.2	576.0	576.0	576.0	574.9	575.4
15°	605.0	605.6	603.9	605.6	605.0	603.4	603.4	603.4	601.2	603.9	601.7
17.5°	636.8	638.5	637.4	637.9	636.8	636.8	637.4	636.8	637.9	637.9	641.2
20°	676.3	676.8	679.6	678.5	678.5	677.9	679.0	679.6	681.8	680.7	682.9
22.5°	719.6	722.3	722.9	725.1	725.1	724.5	725.6	727.8	728.9	730.5	730.0
25°	768.9	770.5	772.7	770.0	774.4	774.4	775.5	778.2	778.8	778.8	782.6
27.5°	814.9	819.3	819.9	822.6	821.0	822.1	825.9	827.5	829.7	829.7	830.8
30°	867.0	868.6	869.7	873.0	872.5	873.0	873.6	876.3	876.3	879.1	881.8
32.5°	920.7	921.8	922.9	926.2	927.3	929.5	928.4	930.6	933.3	933.9	935.5
35°	984.8	985.9	987.0	992.0	992.5	996.3	997.4	996.3	1000.7	998.0	1000.7
37.5°	1022.1	1027.0	1028.1	1031.4	1030.3	1033.1	1034.7	1036.9	1038.0	1040.2	1044.6
40°	1067.6	1069.2	1072.5	1074.2	1076.4	1076.9	1079.1	1080.7	1082.4	1087.3	1092.2
42.5°	1114.2	1116.4	1118.0	1120.2	1122.9	1125.1	1126.8	1131.7	1132.8	1136.1	1145.4
45°	1170.6	1169.5	1170.1	1170.6	1171.7	1174.4	1179.4	1184.3	1187.6	1195.3	1202.9
47.5°	1240.8	1233.6	1230.9	1226.5	1227.6	1233.6	1234.7	1243.0	1249.5	1256.7	1266.0
50°	1347.1	1327.9	1316.4	1304.9	1303.8	1307.1	1311.5	1320.2	1327.9	1337.2	1350.4
52.5°	1525.7	1489.0	1466.0	1434.2	1425.5	1423.8	1420.5	1425.5	1427.6	1440.2	1464.9
55°	1887.4	1819.5	1775.6	1726.3	1680.3	1666.6	1640.3	1645.8	1640.3	1648.0	1684.7
57.5°	2642.6	2588.4	2545.6	2482.6	2403.7	2319.9	2299.0	2213.0	2230.0	2279.3	2247.5
60°	3739.3	3719.5	3688.9	3658.7	3550.8	3489.9	3390.7	3379.8	3310.2	3310.7	3265.2
62.5°	4353.1	4378.3	4359.7	4350.9	4344.9	4325.7	4276.4	4217.2	4128.4	4064.3	3970.0
65°	4528.5	4507.1	4486.8	4484.1	4482.4	4513.7	4520.8	4479.1	4398.6	4298.8	4190.3
67.5°	4324.0	4312.0	4313.1	4290.1	4304.3	4358.6	4396.4	4384.9	4310.9	4190.3	4052.2
70°	3837.4	3813.8	3837.9	3868.1	3889.4	3920.7	3958.5	3967.8	3900.4	3776.5	3635.7
72.5°	2873.4	2877.2	2900.2	2908.4	2994.5	2985.7	3019.7	2909.0	2860.2	2742.4	2670.1
75°	1512.0	1487.4	1551.5	1415.6	1359.7	1398.6	1289.5	1184.9	1206.8	1224.9	1094.4
77.5°	534.3	499.8	441.2	417.6	347.5	294.3	240.6	217.0	204.4	197.8	189.6
80°	383.6	394.6	382.5	354.0	300.9	241.1	190.2	150.2	128.8	117.3	109.6
82.5°	388.0	431.3	450.5	442.3	394.0	298.1	196.7	125.5	93.2	77.8	72.3
85°	208.3	228.0	219.2	184.7	166.1	99.2	68.0	45.5	38.4	35.1	32.3
87.5°	8.2	6.6	5.5	5.5	6.0	6.6	5.5	6.0	5.5	5.5	5.5
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6
2.5°	505.3	505.3	505.3	504.7	503.6	500.9	498.2	496.0	494.3	492.7	490.5
5°	515.2	514.1	514.1	514.1	509.7	505.3	501.5	497.6	494.3	491.6	489.4
7.5°	531.6	531.1	528.9	528.3	525.0	517.9	513.5	506.9	503.1	499.3	498.2
10°	551.3	550.8	550.2	549.7	545.3	538.2	532.7	526.7	521.2	515.7	510.2
12.5°	574.3	573.8	573.2	571.6	570.0	566.1	560.1	553.5	546.9	535.4	529.4
15°	602.8	603.9	602.8	602.3	601.2	601.7	597.9	588.6	578.2	563.4	550.8
17.5°	640.7	639.6	639.0	641.2	640.7	643.4	642.3	630.2	614.4	590.8	568.9
20°	682.3	682.3	684.5	686.1	691.1	698.2	694.9	680.1	651.1	618.2	589.7
22.5°	732.2	733.3	735.5	734.4	742.0	753.6	754.7	733.8	696.0	650.5	610.5
25°	784.2	785.3	783.1	786.4	799.0	815.5	818.8	789.2	739.3	680.1	628.1
27.5°	833.6	834.7	834.7	839.0	851.1	879.1	882.3	849.5	783.1	705.9	640.7
30°	881.8	886.2	887.3	888.4	906.5	945.4	952.5	904.8	821.5	725.1	649.4
32.5°	942.6	944.3	946.5	949.2	970.0	1017.7	1017.7	952.5	846.2	737.1	651.1
35°	1007.8	1008.4	1013.3	1013.9	1043.5	1091.1	1081.8	992.0	863.7	734.4	639.0
37.5°	1047.3	1049.5	1054.4	1061.0	1092.2	1159.7	1138.3	1025.9	867.0	716.3	611.6
40°	1096.1	1100.5	1105.4	1112.0	1158.6	1229.3	1186.0	1047.3	853.3	680.7	570.5
42.5°	1148.7	1154.7	1162.4	1174.4	1229.8	1290.6	1222.1	1050.6	822.1	640.7	521.7
45°	1207.9	1218.8	1227.6	1241.9	1304.3	1343.8	1244.1	1031.4	782.6	588.0	469.7
47.5°	1276.4	1285.2	1300.5	1315.8	1378.3	1380.0	1246.2	994.1	728.9	535.4	414.3
50°	1360.8	1366.3	1389.3	1398.6	1457.2	1417.8	1230.3	943.7	672.4	476.2	352.9
52.5°	1473.1	1480.8	1510.4	1524.6	1566.3	1469.3	1207.9	888.9	607.8	409.9	289.9
55°	1695.1	1728.5	1749.3	1774.0	1800.9	1586.0	1198.0	830.3	534.9	333.2	229.6
57.5°	2318.2	2307.2	2353.3	2409.2	2408.6	1852.9	1257.2	779.9	448.8	254.8	176.5
60°	3246.6	3257.0	3233.4	3266.9	3160.5	2183.9	1338.3	726.7	351.8	189.6	134.8
62.5°	3936.6	3876.3	3842.9	3803.4	3569.4	2220.1	1279.1	617.6	255.9	133.2	103.6
65°	4099.9	4029.2	3957.4	3882.3	3529.4	2001.4	1049.5	453.2	165.5	91.5	82.2
67.5°	3938.8	3825.3	3733.8	3656.5	3234.0	1658.9	767.3	278.4	94.8	74.0	70.1
70°	3521.2	3395.7	3247.7	3161.1	2723.2	1222.7	491.6	150.2	72.9	65.8	64.1
72.5°	2577.4	2474.4	2312.7	2213.5	1955.4	743.1	274.6	84.4	68.0	63.0	60.8
75°	1004.0	950.3	882.9	888.4	793.0	328.8	124.4	72.9	66.3	61.9	59.7
77.5°	172.6	168.2	155.6	155.6	177.0	120.0	82.8	73.4	65.8	60.8	57.0
80°	103.6	101.4	96.5	95.4	92.1	84.4	79.5	74.5	64.7	57.5	52.6
82.5°	68.0	65.2	63.6	63.0	68.5	74.0	74.5	74.0	61.4	49.9	42.7
85°	29.0	29.0	29.0	29.6	39.5	59.7	61.4	65.8	50.4	38.9	30.7
87.5°	4.9	6.0	6.0	6.6	7.1	13.2	16.4	21.4	17.0	16.4	14.8
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):

	165°	175°	180°
0°	503.6	503.6	503.6
2.5°	489.9	488.9	488.9
5°	488.3	487.2	487.8
7.5°	494.9	492.7	493.2
10°	506.9	504.7	503.6
12.5°	522.3	519.5	519.5
15°	538.2	531.6	531.1
17.5°	551.3	543.1	542.0
20°	566.1	555.2	553.5
22.5°	579.8	565.0	562.8
25°	589.7	571.6	568.9
27.5°	594.1	572.7	570.5
30°	597.4	573.2	570.0
32.5°	594.1	568.3	565.6
35°	576.0	548.0	546.4
37.5°	544.8	513.5	511.3
40°	503.6	470.8	465.3
42.5°	451.0	420.3	414.3
45°	400.1	365.0	362.3
47.5°	345.3	311.8	313.5
50°	287.7	257.6	257.0
52.5°	232.9	206.6	205.0
55°	183.6	165.0	163.3
57.5°	145.2	135.4	133.7
60°	118.4	113.4	111.8
62.5°	95.4	93.7	93.2
65°	79.5	79.5	79.5
67.5°	69.1	69.6	69.6
70°	63.6	64.1	63.6
72.5°	61.4	63.0	63.0
75°	59.7	60.8	58.6
77.5°	58.6	59.2	55.4
80°	58.1	57.5	50.4
82.5°	50.4	48.8	42.7
85°	46.0	35.1	29.6
87.5°	23.6	16.4	12.6
90°	0.0	0.0	0.0

(END OF REPORT)