

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: P180531

Luminaire Tested: **ICS-F02-LED-E1-SL2-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180531
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F02-LED-E1-SL2-8030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3831.7 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

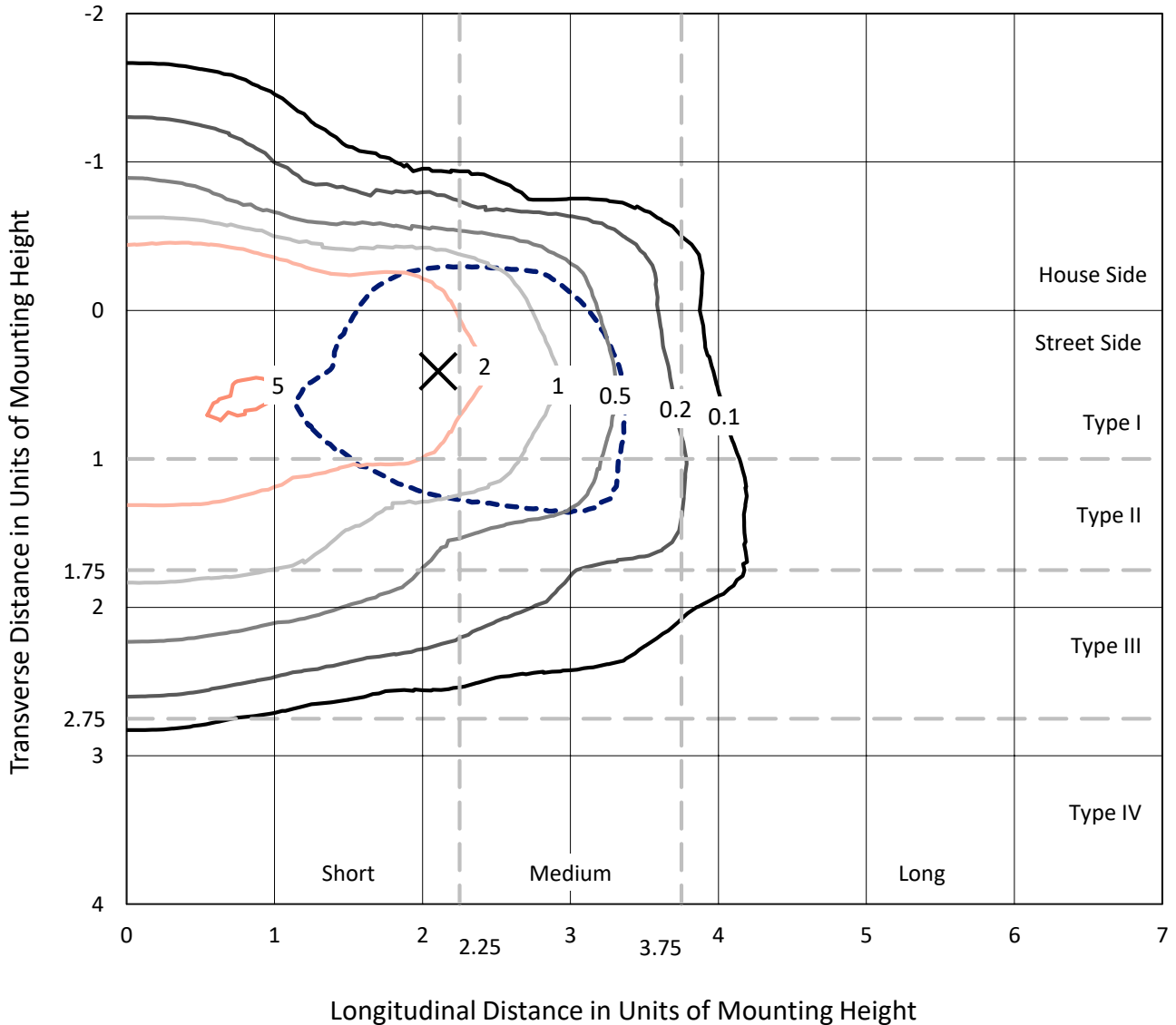
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

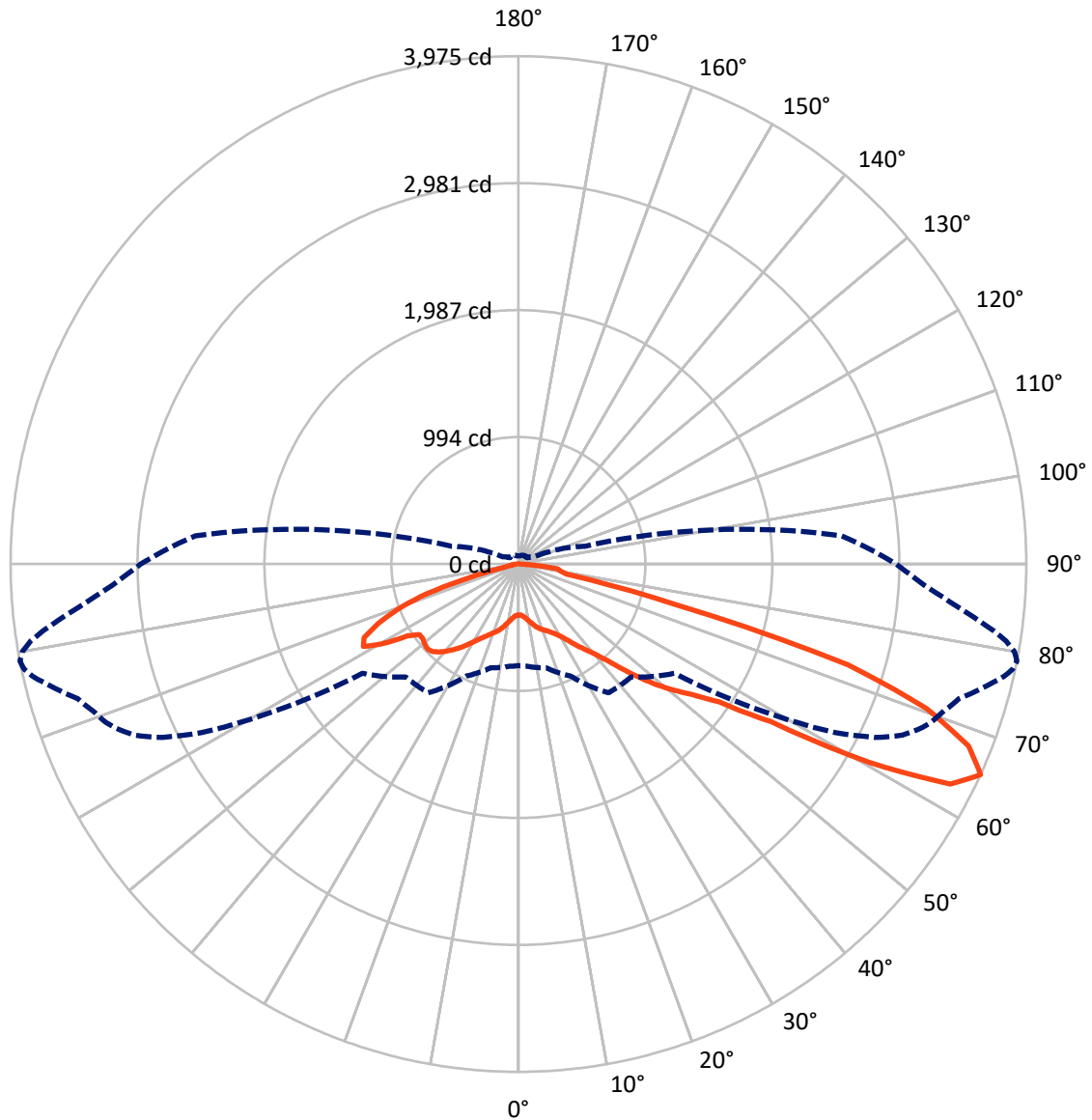
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	905.8	0.0	905.8
	% Fixture	23.6	0.0	23.6
Street Side	Lumens	2925.9	0.0	2925.9
	% Fixture	76.4	0.0	76.4
Total	Lumens	3831.7	0.0	3831.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.6	1.0
10°-20°	129.6	3.4
20°-30°	223.9	5.8
30°-40°	370.6	9.7
40°-50°	628.6	16.4
50°-60°	835.2	21.8
60°-70°	1078.9	28.2
70°-80°	452.5	11.8
80°-90°	72.7	1.9
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°	3831.7	100.0
0°-180°	3831.7	100.0



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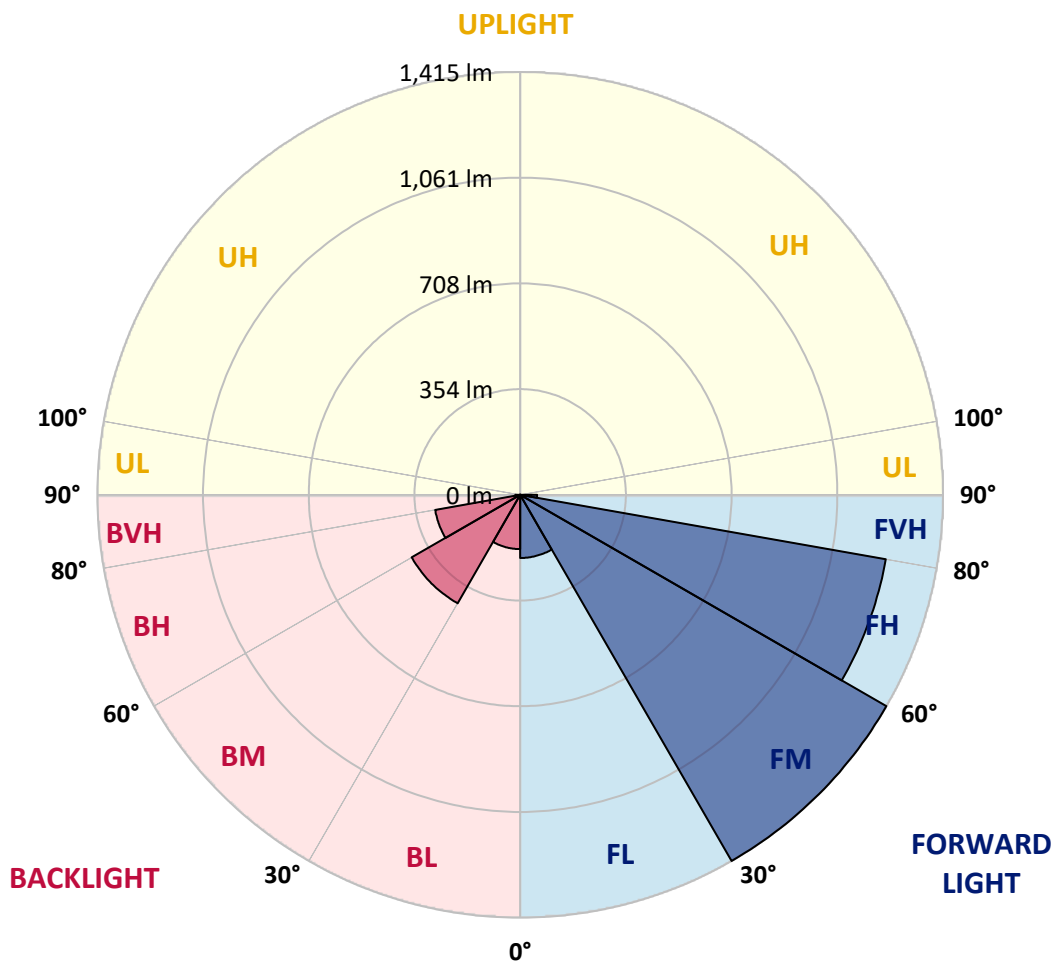
CATALOG NUMBER: ICS-F02-LED-E1-SL2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	211.4	5.5			
FM	(30°-60°)	1415.2	36.9			
FH	(60°-80°)	1242.5	32.4			G1/1800
FVH	(80°-90°)	56.8	1.5			G1/100
BL	(0°-30°)	181.8	4.7	B1/500		
BM	(30°-60°)	419.3	10.9	B1/1000		
BH	(60°-80°)	288.9	7.5	B1/500		G1/500
BVH	(80°-90°)	15.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	398.8	398.8	398.8	398.8	398.8	398.8	398.8	398.8	398.8	398.8	398.8
2.5°	397.6	398.8	398.0	398.8	399.7	400.1	400.9	400.5	400.5	400.9	400.1
5°	397.6	397.6	398.8	400.9	401.8	404.3	407.2	406.8	407.2	406.8	407.6
7.5°	405.9	405.5	406.8	409.3	410.1	413.9	418.9	419.7	420.6	420.6	421.8
10°	420.6	420.2	421.4	422.7	423.9	426.8	434.0	436.9	437.3	437.7	439.4
12.5°	439.0	438.5	436.9	436.9	436.5	441.9	451.5	456.9	457.8	459.5	460.7
15°	451.9	450.7	448.2	446.5	448.6	457.4	471.6	477.8	478.7	479.9	483.3
17.5°	464.5	463.2	457.8	453.6	456.5	470.7	490.0	496.7	498.3	499.6	503.3
20°	482.0	481.2	473.2	463.2	462.4	480.8	504.2	513.0	514.2	515.9	519.7
22.5°	508.8	505.0	495.8	477.0	467.8	486.6	514.2	526.3	528.0	529.7	534.7
25°	542.2	540.6	524.7	495.8	476.6	492.5	525.1	540.1	542.6	544.7	551.4
27.5°	576.9	574.4	557.3	519.7	492.1	504.2	542.2	559.4	562.7	566.1	572.3
30°	607.9	607.0	592.8	551.8	517.1	526.3	569.8	590.7	594.5	598.7	604.5
32.5°	680.6	681.0	666.4	624.6	577.8	566.5	609.5	640.9	642.6	647.6	658.0
35°	819.8	821.5	816.1	783.0	730.4	684.0	688.1	719.1	720.7	724.9	735.0
37.5°	913.1	916.4	933.1	943.6	916.8	895.5	842.4	830.3	831.5	829.0	826.9
40°	964.5	969.5	1013.4	1067.7	1097.0	1097.4	1074.4	1020.9	1000.4	994.6	969.5
42.5°	993.7	1002.1	1064.4	1157.2	1241.2	1298.9	1313.1	1253.8	1238.7	1212.0	1163.9
45°	1013.0	1023.0	1096.6	1223.7	1347.4	1445.7	1519.7	1493.3	1483.3	1467.0	1422.7
47.5°	1009.6	1017.6	1094.1	1246.2	1403.0	1542.7	1673.9	1701.1	1689.0	1684.8	1654.7
50°	948.6	955.7	1033.5	1190.2	1372.5	1579.4	1771.8	1848.7	1848.7	1856.6	1847.4
52.5°	883.4	889.2	959.9	1100.8	1273.8	1543.5	1826.1	1953.6	1970.3	1984.1	2005.9
55°	858.7	865.8	919.3	1039.7	1189.8	1440.6	1844.5	2032.2	2063.1	2086.6	2135.9
57.5°	870.4	877.5	915.6	1006.7	1140.5	1335.7	1845.3	2138.0	2197.8	2245.8	2345.8
60°	921.0	927.7	959.5	1037.2	1127.5	1275.1	1809.8	2306.5	2401.8	2492.1	2658.5
62.5°	897.6	905.9	952.3	1087.8	1224.1	1229.1	1681.5	2436.9	2590.3	2723.7	2988.3
65°	795.2	803.9	840.3	967.0	1229.9	1249.2	1491.2	2439.4	2630.0	2810.2	3095.8
67.5°	603.7	607.0	635.9	737.5	983.7	1271.3	1295.6	2150.5	2332.0	2533.1	2827.8
70°	308.5	314.4	322.7	407.2	633.4	1050.6	1113.3	1584.9	1816.1	2023.8	2377.9
72.5°	107.0	109.1	117.5	155.5	308.5	689.4	974.5	1086.1	1225.8	1420.2	1830.3
75°	64.4	64.4	67.3	78.6	140.9	359.1	867.1	887.1	905.9	971.2	1239.6
77.5°	51.0	51.8	51.8	53.9	78.2	184.4	658.5	824.8	827.3	833.6	878.8
80°	36.4	38.0	41.4	43.1	50.6	101.2	369.6	724.1	773.4	797.2	830.3
82.5°	27.2	28.8	35.1	37.2	39.3	56.4	166.0	499.6	589.5	637.1	753.4
85°	12.1	14.2	23.8	26.3	27.6	30.1	77.8	142.1	163.5	183.5	242.1
87.5°	2.1	2.1	3.8	5.4	7.9	7.5	17.1	24.2	24.7	28.8	32.2
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	398.8	398.8	398.8	398.8	398.8	398.8	398.8	398.8	398.8	398.8	398.8
2.5°	400.1	400.1	400.1	399.7	400.1	400.1	400.1	400.1	400.5	400.5	400.5
5°	408.9	408.0	408.4	408.4	408.4	408.0	408.9	408.4	408.9	410.1	409.7
7.5°	421.8	422.7	423.1	423.5	423.5	423.5	423.9	424.8	424.8	426.0	425.6
10°	441.1	440.6	441.1	442.3	443.6	444.0	445.2	444.8	445.7	447.3	449.0
12.5°	461.5	462.4	463.6	464.9	467.0	467.4	468.6	469.1	471.6	471.6	473.2
15°	484.5	485.0	487.5	487.9	490.4	491.2	493.3	494.2	497.1	497.5	499.2
17.5°	505.4	506.3	507.5	508.8	511.7	513.0	514.6	516.3	518.8	519.7	522.6
20°	522.2	523.8	524.3	526.8	529.3	530.9	532.6	534.3	536.8	538.0	541.0
22.5°	537.2	538.9	540.1	542.2	543.9	546.4	547.2	550.2	552.7	554.8	557.3
25°	553.5	556.0	557.3	561.0	562.3	564.8	566.9	569.8	573.2	575.7	579.0
27.5°	576.5	580.3	581.9	586.1	589.1	590.3	593.7	597.8	600.8	603.7	607.0
30°	608.3	615.4	616.6	619.6	625.0	625.8	630.0	633.4	638.0	640.9	643.8
32.5°	657.6	666.4	667.2	670.6	675.2	676.8	680.2	684.0	691.1	692.3	696.9
35°	733.3	737.0	740.4	741.6	745.4	747.5	750.0	754.2	761.3	760.5	765.5
37.5°	824.0	825.3	825.7	821.5	822.3	818.6	823.2	824.0	826.5	828.6	833.6
40°	953.6	940.6	939.0	928.9	918.9	913.5	911.4	903.0	905.1	905.9	910.1
42.5°	1143.0	1117.9	1097.0	1082.8	1058.1	1046.0	1029.7	1016.7	1006.7	1010.5	1012.1
45°	1383.0	1347.0	1313.6	1270.1	1237.9	1214.9	1186.0	1160.1	1148.4	1143.0	1149.7
47.5°	1622.5	1590.7	1551.4	1506.7	1455.7	1417.7	1369.6	1327.4	1298.1	1287.2	1293.1
50°	1829.4	1800.2	1770.5	1744.2	1684.8	1643.4	1577.8	1523.0	1477.0	1453.6	1447.3
52.5°	2001.3	1985.8	1969.9	1947.8	1900.1	1858.7	1806.5	1752.5	1691.5	1643.8	1627.5
55°	2154.7	2163.9	2156.0	2156.4	2137.6	2111.2	2066.9	2026.8	1984.1	1930.2	1907.6
57.5°	2378.4	2432.7	2443.6	2470.8	2484.1	2498.4	2510.9	2487.1	2476.2	2436.1	2436.5
60°	2730.8	2810.2	2879.2	2941.9	2993.3	3043.5	3096.2	3119.6	3145.5	3157.6	3199.0
62.5°	3105.8	3181.5	3284.3	3368.3	3415.6	3480.8	3538.1	3575.3	3620.9	3669.3	3732.5
65°	3198.6	3289.7	3354.5	3410.6	3457.4	3492.1	3523.4	3567.8	3605.8	3682.7	3757.1
67.5°	2960.7	3033.5	3092.8	3148.0	3184.4	3213.7	3241.7	3270.9	3336.2	3406.0	3480.8
70°	2541.4	2629.2	2727.4	2798.9	2816.9	2842.0	2868.8	2906.8	2939.4	3012.6	3069.4
72.5°	2041.8	2168.1	2251.3	2350.4	2371.7	2409.7	2424.8	2454.5	2460.3	2500.0	2515.1
75°	1423.1	1567.7	1651.4	1724.1	1738.3	1717.4	1725.8	1620.8	1594.1	1572.3	1554.8
77.5°	939.4	978.3	991.6	979.9	923.9	880.0	833.2	787.2	792.2	755.0	689.8
80°	835.3	844.1	831.9	820.2	788.1	742.1	699.8	656.8	635.5	612.9	579.4
82.5°	812.7	846.6	850.3	836.1	810.6	760.5	709.5	645.5	591.1	541.0	490.0
85°	271.7	330.7	357.0	381.7	389.2	398.0	367.9	326.9	277.6	244.6	191.5
87.5°	34.7	43.1	49.7	42.6	49.7	58.5	42.2	47.2	47.7	29.7	22.2
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	398.8	398.8	398.8	398.8	398.8	398.8	398.8	398.8	398.8	398.8	398.8
2.5°	400.9	400.5	400.5	400.5	400.1	400.5	400.5	400.5	400.5	400.5	400.1
5°	410.1	410.1	411.4	411.8	411.0	410.5	411.0	411.4	411.4	411.0	411.4
7.5°	427.3	427.7	428.5	429.8	428.9	429.4	429.8	429.4	430.6	431.0	430.6
10°	449.0	449.8	451.9	452.3	451.9	453.6	454.0	453.2	454.0	454.0	455.7
12.5°	474.1	474.9	477.4	478.3	479.1	479.5	480.8	481.2	482.4	483.3	484.5
15°	501.3	502.1	503.8	506.7	507.5	508.4	509.2	511.7	512.1	513.8	515.1
17.5°	524.3	525.5	528.0	530.1	531.4	533.4	534.3	537.2	538.0	540.6	542.6
20°	542.6	544.7	546.8	549.3	551.4	553.9	554.8	557.7	559.4	560.6	563.1
22.5°	559.4	561.9	564.8	567.7	569.4	572.7	574.0	575.3	579.0	580.7	583.2
25°	581.1	583.6	587.0	590.7	592.4	596.6	597.8	599.9	604.1	605.8	609.5
27.5°	610.8	614.1	616.6	620.4	622.5	625.4	628.4	630.9	634.6	637.1	641.3
30°	648.0	650.5	654.7	657.6	661.0	665.1	668.5	671.0	673.1	676.8	681.4
32.5°	702.8	703.2	704.4	711.5	714.9	718.2	722.8	724.9	728.3	732.0	737.0
35°	770.9	774.7	777.6	780.9	784.7	788.5	790.1	796.4	799.3	804.4	809.4
37.5°	838.6	839.1	845.7	847.8	851.2	854.9	860.8	867.1	874.6	879.6	887.6
40°	911.4	914.7	923.1	927.3	931.4	940.6	945.2	955.3	967.8	974.9	988.3
42.5°	1016.7	1021.7	1036.8	1043.5	1053.5	1068.6	1078.2	1092.0	1097.0	1114.1	1120.4
45°	1154.7	1170.2	1191.9	1206.1	1224.1	1240.4	1248.8	1255.0	1262.6	1275.9	1274.3
47.5°	1303.9	1324.0	1348.3	1377.5	1389.2	1408.5	1419.3	1431.5	1424.8	1421.4	1418.1
50°	1457.0	1480.4	1512.6	1538.9	1556.9	1568.6	1577.8	1576.1	1561.9	1554.4	1533.5
52.5°	1627.1	1640.9	1671.4	1694.0	1704.9	1707.4	1705.3	1692.7	1679.4	1655.5	1630.9
55°	1888.0	1881.7	1893.8	1904.3	1900.9	1912.6	1882.5	1870.8	1837.8	1806.9	1773.8
57.5°	2418.1	2426.4	2358.7	2328.2	2322.8	2333.6	2280.5	2273.9	2194.0	2184.0	2128.4
60°	3193.2	3234.1	3181.0	3151.4	3071.1	3044.8	2985.4	2960.7	2884.2	2822.4	2744.2
62.5°	3776.0	3813.2	3835.3	3793.1	3746.3	3677.3	3587.4	3487.9	3406.8	3311.9	3229.1
65°	3828.6	3903.9	3954.9	3974.5	3941.5	3865.8	3755.1	3629.6	3505.5	3386.3	3281.8
67.5°	3582.4	3649.7	3728.7	3799.4	3803.5	3754.2	3659.7	3532.2	3388.8	3241.7	3119.2
70°	3159.3	3243.8	3312.7	3387.2	3439.0	3410.6	3363.3	3246.3	3097.4	2982.9	2842.0
72.5°	2569.4	2605.0	2621.7	2694.8	2695.7	2643.8	2610.4	2545.6	2425.6	2344.5	2237.1
75°	1500.4	1422.3	1339.1	1266.7	1207.8	1183.1	1073.6	1055.2	981.6	936.0	869.2
77.5°	618.7	548.9	459.0	384.2	310.2	276.8	228.3	206.9	179.3	167.2	159.3
80°	530.5	464.5	396.7	331.9	274.3	216.6	168.5	130.9	102.8	87.4	81.1
82.5°	433.1	393.4	346.2	311.0	265.9	222.8	188.1	145.9	109.1	80.3	61.5
85°	156.4	128.3	103.3	94.9	75.7	62.3	52.3	44.7	36.8	29.3	25.9
87.5°	17.6	16.7	9.6	9.2	10.5	7.5	8.8	7.9	6.7	5.9	6.3
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	398.8	398.8	398.8	398.8	398.8	398.8	398.8	398.8	398.8	398.8	398.8
2.5°	400.1	400.1	400.5	400.5	400.9	401.3	402.2	401.8	401.8	402.2	402.2
5°	411.4	412.6	412.2	412.2	412.2	412.6	413.0	411.4	409.7	408.0	407.2
7.5°	431.0	431.9	432.7	431.9	432.7	432.3	431.4	426.8	421.4	414.7	410.1
10°	456.5	456.5	457.4	456.9	458.6	457.4	454.9	444.4	432.7	418.5	408.0
12.5°	484.1	487.0	485.8	486.2	489.6	486.2	480.4	464.9	444.0	421.0	402.6
15°	516.7	518.0	518.8	517.6	519.7	516.7	506.3	481.6	451.1	418.9	391.7
17.5°	543.5	543.9	544.3	545.2	548.1	544.7	526.8	493.3	452.8	409.3	373.3
20°	564.4	566.5	568.1	568.1	572.3	567.3	543.5	499.2	447.3	393.4	349.9
22.5°	586.1	587.8	589.9	590.3	595.7	590.7	557.3	497.9	433.1	370.8	322.7
25°	612.9	614.6	616.2	618.3	625.8	618.7	571.1	492.9	413.5	344.1	293.5
27.5°	643.8	647.6	648.8	652.2	661.0	650.1	582.8	485.4	391.7	313.1	262.5
30°	685.2	689.8	691.5	696.1	708.2	684.4	589.5	472.4	364.1	281.8	229.5
32.5°	740.8	747.1	752.1	757.1	770.9	718.7	590.3	453.6	331.9	246.7	197.7
35°	813.6	823.2	826.9	830.3	843.2	755.9	586.5	425.6	292.6	210.7	172.7
37.5°	895.1	904.7	907.2	908.9	911.4	787.6	577.3	382.9	248.3	179.3	152.6
40°	995.4	1003.8	1007.1	1004.6	991.2	812.3	556.9	333.2	205.3	158.0	140.1
42.5°	1117.9	1130.4	1131.7	1120.4	1076.1	826.1	515.9	274.7	171.4	142.6	130.4
45°	1269.7	1268.8	1261.7	1253.8	1168.5	820.7	458.6	223.7	150.1	130.4	121.7
47.5°	1405.9	1391.7	1380.9	1357.5	1250.0	788.9	384.6	185.2	137.1	121.2	114.1
50°	1517.6	1491.7	1468.7	1443.2	1310.6	732.4	311.0	157.2	125.0	113.3	107.0
52.5°	1605.8	1574.4	1547.7	1522.6	1369.2	669.7	255.0	136.7	113.3	105.4	99.1
55°	1743.7	1712.4	1669.7	1642.2	1458.6	612.0	218.6	120.4	102.0	97.0	90.7
57.5°	2092.8	2065.2	2014.2	1942.7	1688.6	590.3	198.2	107.9	92.8	89.9	84.9
60°	2702.4	2657.6	2591.2	2518.4	2156.0	604.9	181.9	99.1	86.5	84.0	80.3
62.5°	3162.2	3083.6	3008.4	2941.1	2529.7	604.5	160.5	92.4	81.9	80.7	76.9
65°	3181.0	3101.2	3025.5	2954.9	2538.1	538.0	135.5	86.5	81.1	80.7	74.4
67.5°	3012.2	2925.6	2852.5	2763.4	2349.5	420.6	108.7	82.8	84.4	83.6	73.6
70°	2736.2	2623.4	2563.2	2475.4	2067.7	294.3	89.5	84.0	91.6	89.0	74.8
72.5°	2147.6	2062.3	1970.8	1909.7	1618.7	186.0	75.3	84.9	94.5	90.3	78.2
75°	799.3	822.3	784.7	771.3	822.3	109.1	66.9	79.0	84.4	78.2	71.1
77.5°	161.4	154.3	146.3	144.7	186.9	67.3	61.5	68.6	64.8	57.3	57.7
80°	77.3	75.3	72.7	72.3	69.4	56.0	56.9	58.5	48.9	44.3	47.2
82.5°	51.4	48.5	47.7	46.0	46.8	50.2	53.9	50.2	37.6	35.1	42.6
85°	23.8	23.0	22.6	22.6	25.1	45.2	44.7	36.8	25.9	25.1	42.6
87.5°	5.9	5.9	6.3	5.9	6.7	13.4	11.7	11.3	9.6	10.9	20.1
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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	165°	175°	180°
0°	398.8	398.8	398.8
2.5°	401.8	402.2	401.8
5°	405.5	405.5	405.5
7.5°	405.5	404.3	403.8
10°	399.7	395.9	395.9
12.5°	389.6	383.4	382.5
15°	370.8	362.5	361.2
17.5°	347.0	335.7	333.6
20°	320.2	306.0	303.5
22.5°	291.0	274.7	273.4
25°	262.1	245.4	242.1
27.5°	229.9	213.6	212.0
30°	197.7	183.5	182.7
32.5°	170.6	161.8	160.1
35°	151.3	146.3	144.2
37.5°	138.8	135.0	134.6
40°	129.2	125.8	125.4
42.5°	121.2	118.3	117.9
45°	113.3	110.8	110.0
47.5°	105.4	102.8	102.4
50°	98.2	94.9	94.5
52.5°	91.6	88.2	87.4
55°	85.3	81.9	81.9
57.5°	79.9	76.5	76.1
60°	74.8	71.5	71.1
62.5°	71.1	66.9	66.5
65°	68.1	64.0	63.1
67.5°	66.5	61.5	60.2
70°	69.4	60.2	58.1
72.5°	69.8	58.9	56.0
75°	67.3	55.6	53.5
77.5°	58.9	49.7	47.7
80°	51.0	38.5	35.5
82.5°	48.5	31.4	27.2
85°	37.6	20.5	19.2
87.5°	21.3	11.3	9.2
90°	0.0	0.0	0.0

(END OF REPORT)