

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: P180472

Luminaire Tested: **ICM-F02-LED-E1-SL2-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180472
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: ICM-F02-LED-E1-SL2-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4285.7 lumens
Efficiency: N/A
Efficacy: 77.9 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

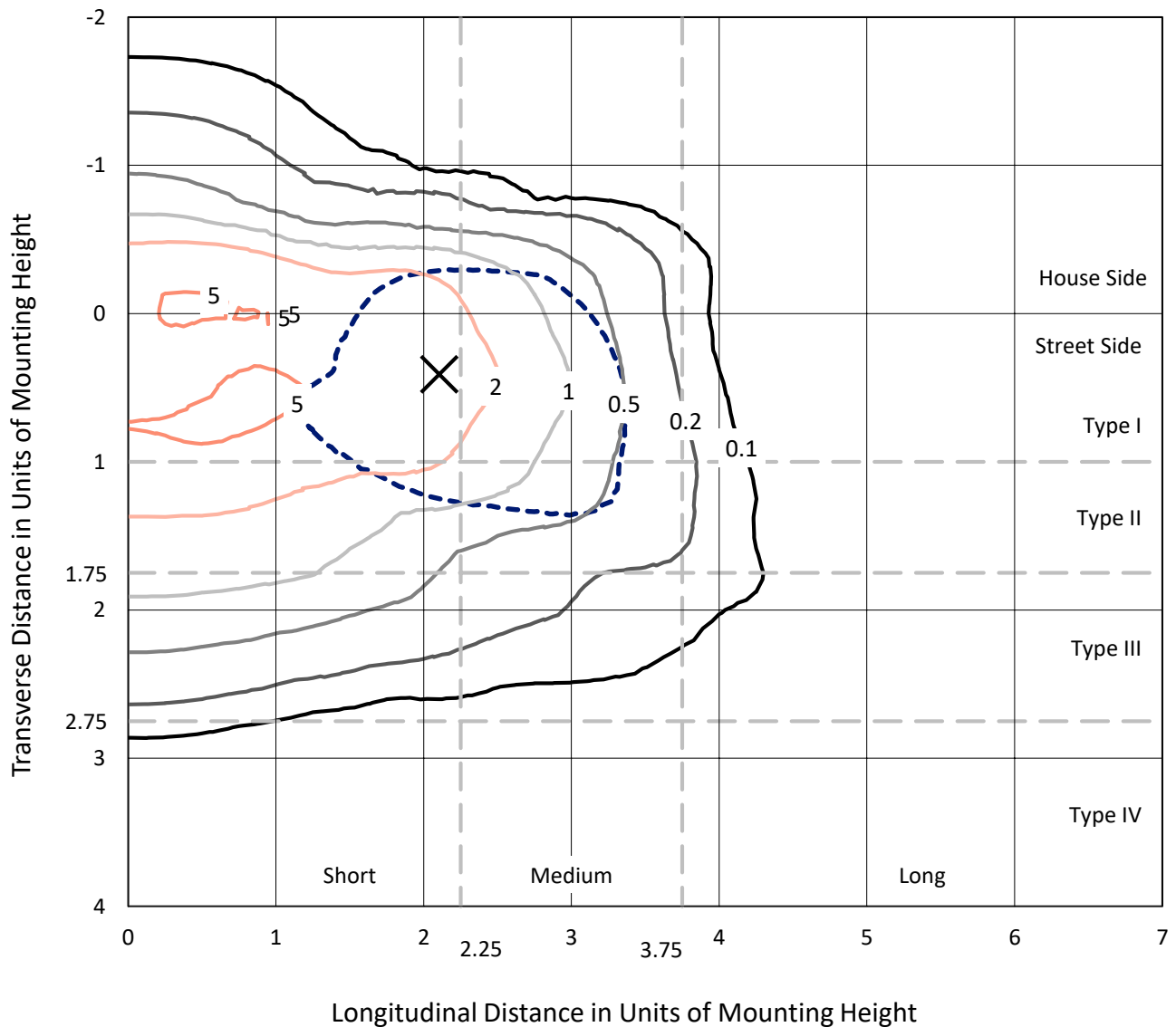
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

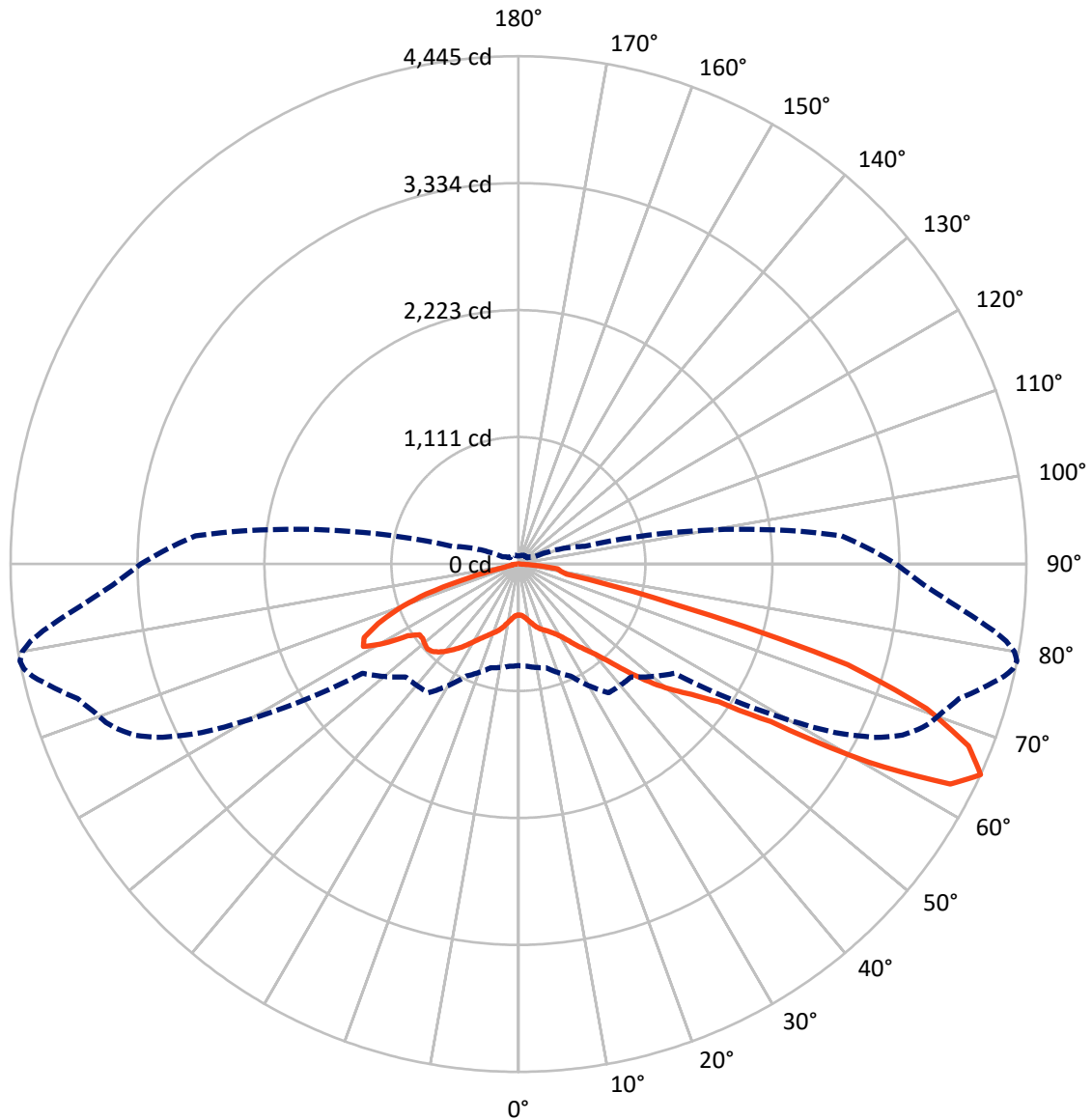
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 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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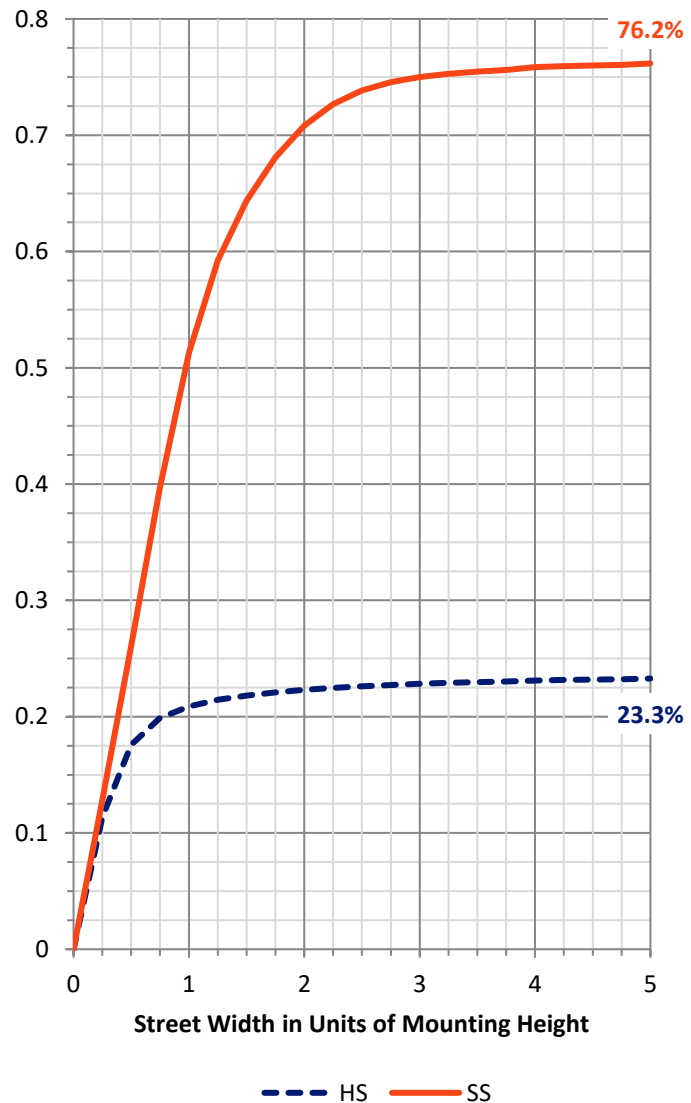
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1013.1	0.0	1013.1
	% Fixture	23.6	0.0	23.6
Street Side	Lumens	3272.5	0.0	3272.5
	% Fixture	76.4	0.0	76.4
Total	Lumens	4285.7	0.0	4285.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.3	1.0
10°-20°	145.0	3.4
20°-30°	250.4	5.8
30°-40°	414.6	9.7
40°-50°	703.1	16.4
50°-60°	934.2	21.8
60°-70°	1206.7	28.2
70°-80°	506.1	11.8
80°-90°	81.3	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°	4285.7	100.0
0°-180°	4285.7	100.0



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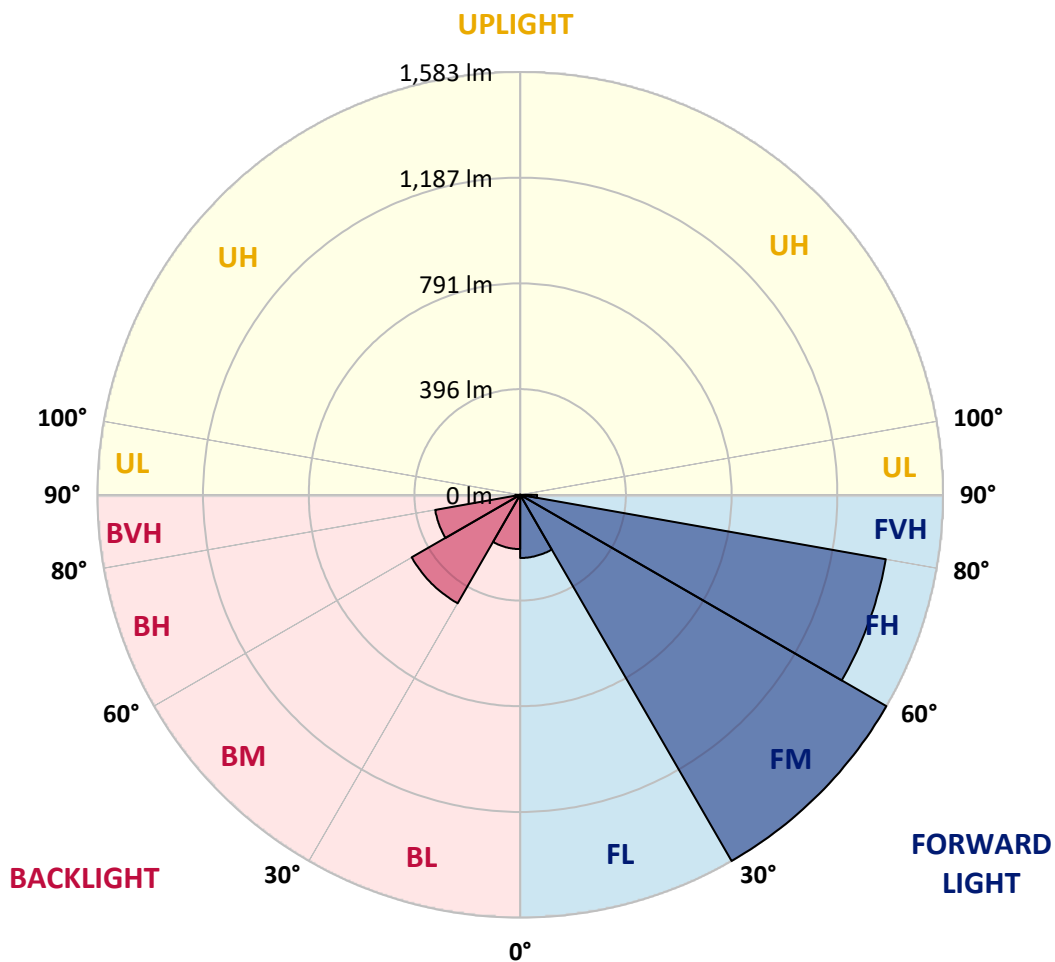
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	236.5	5.5			
FM	(30°-60°)	1582.8	36.9			
FH	(60°-80°)	1389.7	32.4			G1/1800
FVH	(80°-90°)	63.6	1.5			G1/100
BL	(0°-30°)	203.3	4.7	B1/500		
BM	(30°-60°)	469.0	10.9	B1/1000		
BH	(60°-80°)	323.1	7.5	B1/500		G1/500
BVH	(80°-90°)	17.7	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°	446.0	446.0	446.0	446.0	446.0	446.0	446.0	446.0	446.0	446.0	446.0
2.5°	444.7	446.0	445.1	446.0	447.0	447.4	448.5	448.0	448.0	448.5	447.4
5°	444.7	444.7	446.0	448.5	449.4	452.2	455.4	455.0	455.4	455.0	455.9
7.5°	454.0	453.6	455.0	457.8	458.7	462.9	468.6	469.5	470.4	470.4	471.8
10°	470.4	470.0	471.4	472.7	474.1	477.4	485.4	488.7	489.1	489.6	491.4
12.5°	491.0	490.5	488.7	488.7	488.2	494.2	505.0	511.1	512.0	513.9	515.3
15°	505.5	504.1	501.3	499.4	501.8	511.5	527.4	534.4	535.4	536.8	540.6
17.5°	519.5	518.0	512.0	507.4	510.6	526.5	548.0	555.5	557.4	558.8	563.0
20°	539.2	538.2	529.3	518.0	517.1	537.8	563.9	573.8	575.2	577.0	581.2
22.5°	569.0	564.8	554.6	533.5	523.3	544.3	575.2	588.7	590.6	592.5	598.1
25°	606.5	604.6	586.8	554.6	533.0	550.8	587.3	604.1	607.0	609.3	616.7
27.5°	645.3	642.5	623.3	581.2	550.3	563.9	606.5	625.7	629.4	633.1	640.1
30°	679.9	679.0	663.1	617.2	578.4	588.7	637.3	660.7	664.9	669.6	676.1
32.5°	761.2	761.7	745.3	698.6	646.2	633.6	681.8	716.8	718.7	724.3	736.0
35°	916.9	918.8	912.7	875.8	816.9	765.0	769.7	804.3	806.1	810.8	822.1
37.5°	1021.2	1024.9	1043.6	1055.4	1025.4	1001.6	942.2	928.7	930.1	927.3	924.9
40°	1078.7	1084.4	1133.5	1194.2	1227.0	1227.4	1201.7	1141.9	1119.0	1112.4	1084.4
42.5°	1111.4	1120.8	1190.5	1294.3	1388.3	1452.8	1468.8	1402.3	1385.5	1355.5	1301.8
45°	1133.0	1144.2	1226.5	1368.7	1507.1	1616.9	1699.7	1670.2	1659.0	1640.8	1591.3
47.5°	1129.2	1138.1	1223.7	1393.9	1569.2	1725.4	1872.3	1902.6	1889.1	1884.4	1850.7
50°	1060.9	1068.9	1155.9	1331.3	1535.1	1766.6	1981.7	2067.7	2067.7	2076.6	2066.3
52.5°	988.0	994.6	1073.6	1231.2	1424.8	1726.3	2042.4	2185.0	2203.7	2219.2	2243.5
55°	960.5	968.4	1028.3	1162.9	1330.8	1611.4	2063.0	2272.9	2307.5	2333.8	2388.9
57.5°	973.5	981.5	1024.0	1126.0	1275.6	1494.0	2064.0	2391.3	2458.2	2511.9	2623.6
60°	1030.1	1037.6	1073.1	1160.1	1261.1	1426.1	2024.2	2579.7	2686.3	2787.4	2973.4
62.5°	1003.9	1013.3	1065.2	1216.7	1369.1	1374.7	1880.7	2725.6	2897.2	3046.3	3342.3
65°	889.4	899.2	939.9	1081.6	1375.6	1397.2	1667.9	2728.4	2941.6	3143.2	3462.5
67.5°	675.2	679.0	711.2	824.8	1100.3	1422.0	1449.1	2405.3	2608.3	2833.1	3162.8
70°	345.1	351.6	361.0	455.4	708.4	1175.1	1245.2	1772.7	2031.3	2263.6	2659.6
72.5°	119.7	122.0	131.3	174.0	345.1	771.1	1090.0	1214.8	1371.0	1588.4	2047.2
75°	72.0	72.0	75.3	87.9	157.6	401.7	969.8	992.2	1013.3	1086.2	1386.4
77.5°	57.0	58.0	58.0	60.3	87.4	206.2	736.5	922.6	925.4	932.4	982.9
80°	40.7	42.5	46.3	48.2	56.6	113.1	413.4	809.9	865.0	891.7	928.7
82.5°	30.4	32.3	39.3	41.6	44.0	63.2	185.7	558.8	659.4	712.7	842.6
85°	13.6	15.9	26.7	29.5	30.9	33.7	87.0	159.0	182.8	205.3	270.7
87.5°	2.3	2.3	4.2	6.0	8.9	8.4	19.2	27.2	27.6	32.3	36.0
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	446.0	446.0	446.0	446.0	446.0	446.0	446.0	446.0	446.0	446.0	446.0
2.5°	447.4	447.4	447.4	447.0	447.4	447.4	447.4	447.4	448.0	448.0	448.0
5°	457.3	456.4	456.8	456.8	456.8	456.4	457.3	456.8	457.3	458.7	458.2
7.5°	471.8	472.7	473.2	473.7	473.7	473.7	474.1	475.1	475.1	476.5	476.0
10°	493.3	492.8	493.3	494.7	496.1	496.6	498.0	497.5	498.4	500.3	502.2
12.5°	516.2	517.1	518.6	520.0	522.3	522.8	524.2	524.7	527.4	527.4	529.3
15°	542.0	542.4	545.2	545.7	548.5	549.4	551.7	552.7	556.0	556.5	558.3
17.5°	565.3	566.2	567.6	569.0	572.4	573.8	575.6	577.5	580.3	581.2	584.5
20°	584.0	585.9	586.3	589.2	592.0	593.9	595.7	597.6	600.4	601.8	605.0
22.5°	600.8	602.7	604.1	606.5	608.4	611.2	612.1	615.4	618.1	620.5	623.3
25°	619.1	621.9	623.3	627.5	628.9	631.7	634.1	637.3	641.1	643.9	647.6
27.5°	644.8	649.0	650.9	655.5	658.9	660.3	664.0	668.7	671.9	675.2	679.0
30°	680.4	688.3	689.7	692.9	699.1	700.0	704.7	708.4	713.6	716.8	720.1
32.5°	735.5	745.3	746.2	750.1	755.2	757.0	760.7	765.0	772.9	774.3	779.4
35°	820.2	824.4	828.1	829.5	833.7	836.1	838.9	843.5	851.4	850.5	856.2
37.5°	921.6	923.1	923.5	918.8	919.7	915.5	920.7	921.6	924.5	926.8	932.4
40°	1066.6	1052.1	1050.2	1039.0	1027.8	1021.7	1019.4	1010.1	1012.4	1013.3	1018.0
42.5°	1278.4	1250.3	1227.0	1211.1	1183.4	1170.0	1151.7	1137.2	1126.0	1130.1	1132.0
45°	1546.8	1506.6	1469.2	1420.6	1384.6	1358.8	1326.6	1297.6	1284.5	1278.4	1285.9
47.5°	1814.7	1779.2	1735.3	1685.2	1628.2	1585.6	1531.8	1484.7	1451.9	1439.7	1446.2
50°	2046.2	2013.5	1980.3	1950.8	1884.4	1838.2	1764.7	1703.5	1652.0	1625.9	1618.8
52.5°	2238.3	2221.0	2203.3	2178.5	2125.2	2078.9	2020.5	1960.2	1891.9	1838.6	1820.4
55°	2410.0	2420.3	2411.4	2411.8	2390.8	2361.3	2311.8	2266.9	2219.2	2158.9	2133.6
57.5°	2660.1	2720.9	2733.1	2763.5	2778.4	2794.3	2808.4	2781.7	2769.6	2724.7	2725.1
60°	3054.3	3143.2	3220.3	3290.4	3348.0	3404.1	3463.0	3489.2	3518.2	3531.7	3578.1
62.5°	3473.8	3558.4	3673.4	3767.5	3820.3	3893.2	3957.2	3998.9	4049.9	4104.1	4174.7
65°	3577.6	3679.5	3752.0	3814.6	3867.0	3905.8	3940.9	3990.4	4033.0	4119.1	4202.3
67.5°	3311.6	3392.9	3459.3	3521.0	3561.7	3594.4	3625.7	3658.4	3731.4	3809.5	3893.2
70°	2842.5	2940.7	3050.6	3130.5	3150.6	3178.7	3208.7	3251.2	3287.6	3369.5	3433.0
72.5°	2283.7	2424.9	2518.0	2628.9	2652.7	2695.2	2712.0	2745.2	2751.8	2796.2	2813.0
75°	1591.7	1753.5	1847.0	1928.4	1944.3	1920.8	1930.2	1812.8	1783.0	1758.6	1739.0
77.5°	1050.7	1094.1	1109.1	1096.0	1033.4	984.3	931.9	880.5	886.1	844.5	771.5
80°	934.2	944.1	930.5	917.4	881.4	830.0	782.8	734.6	710.7	685.5	648.1
82.5°	909.0	946.9	951.1	935.2	906.7	850.5	793.5	722.0	661.2	605.0	548.0
85°	303.9	369.9	399.4	426.9	435.4	445.1	411.4	365.7	310.5	273.6	214.1
87.5°	38.8	48.2	55.6	47.7	55.6	65.5	47.3	52.8	53.3	33.2	24.7
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	446.0	446.0	446.0	446.0	446.0	446.0	446.0	446.0	446.0	446.0	446.0
2.5°	448.5	448.0	448.0	448.0	447.4	448.0	448.0	448.0	448.0	448.0	447.4
5°	458.7	458.7	460.1	460.6	459.6	459.2	459.6	460.1	460.1	459.6	460.1
7.5°	477.9	478.3	479.3	480.7	479.7	480.2	480.7	480.2	481.6	482.0	481.6
10°	502.2	503.2	505.5	506.0	505.5	507.4	507.8	506.9	507.8	507.8	509.7
12.5°	530.2	531.2	534.0	534.9	535.9	536.4	537.8	538.2	539.6	540.6	542.0
15°	560.7	561.6	563.4	566.7	567.6	568.6	569.5	572.4	572.8	574.7	576.1
17.5°	586.3	587.7	590.6	592.9	594.3	596.7	597.6	600.8	601.8	604.6	607.0
20°	607.0	609.3	611.6	614.4	616.7	619.5	620.5	623.8	625.7	627.1	629.9
22.5°	625.7	628.5	631.7	635.0	636.8	640.6	642.1	643.4	647.6	649.5	652.3
25°	650.0	652.7	656.5	660.7	662.6	667.3	668.7	671.0	675.6	677.6	681.8
27.5°	683.2	686.9	689.7	694.0	696.3	699.5	702.8	705.6	709.8	712.7	717.3
30°	724.7	727.5	732.3	735.5	739.3	743.9	747.7	750.5	752.8	757.0	762.1
32.5°	786.1	786.5	787.9	795.8	799.6	803.4	808.5	810.8	814.5	818.8	824.4
35°	862.2	866.4	869.8	873.5	877.7	881.9	883.7	890.8	894.1	899.6	905.3
37.5°	938.0	938.4	946.0	948.3	952.0	956.2	962.8	969.8	978.2	983.8	992.8
40°	1019.4	1023.1	1032.5	1037.1	1041.8	1052.1	1057.2	1068.5	1082.5	1090.4	1105.4
42.5°	1137.2	1142.8	1159.6	1167.1	1178.3	1195.2	1206.0	1221.4	1227.0	1246.1	1253.1
45°	1291.5	1308.8	1333.1	1349.0	1369.1	1387.4	1396.8	1403.7	1412.1	1427.1	1425.2
47.5°	1458.4	1480.8	1508.0	1540.8	1553.8	1575.4	1587.5	1601.0	1593.6	1589.9	1586.1
50°	1629.6	1655.7	1691.7	1721.2	1741.3	1754.4	1764.7	1762.8	1746.9	1738.5	1715.2
52.5°	1819.9	1835.3	1869.4	1894.7	1906.9	1909.7	1907.4	1893.3	1878.3	1851.6	1824.1
55°	2111.6	2104.7	2118.2	2129.9	2126.2	2139.3	2105.6	2092.5	2055.5	2020.9	1984.0
57.5°	2704.6	2714.0	2638.2	2604.0	2598.0	2610.2	2550.7	2543.3	2454.0	2442.7	2380.6
60°	3571.5	3617.3	3558.0	3524.8	3435.0	3405.5	3339.1	3311.6	3226.0	3156.8	3069.3
62.5°	4223.3	4265.0	4289.7	4242.5	4190.2	4113.0	4012.4	3901.1	3810.4	3704.3	3611.7
65°	4282.3	4366.4	4423.5	4445.4	4408.5	4323.8	4199.9	4059.7	3920.8	3787.6	3670.6
67.5°	4006.8	4082.1	4170.4	4249.5	4254.2	4199.0	4093.3	3950.7	3790.3	3625.7	3488.8
70°	3533.6	3628.1	3705.2	3788.5	3846.4	3814.6	3761.8	3630.9	3464.4	3336.3	3178.7
72.5°	2873.9	2913.6	2932.3	3014.2	3015.1	2957.0	2919.6	2847.2	2712.9	2622.2	2502.1
75°	1678.2	1590.8	1497.7	1416.8	1350.9	1323.3	1200.8	1180.2	1098.0	1047.0	972.1
77.5°	692.0	614.0	513.4	429.7	347.0	309.6	255.4	231.4	200.6	187.1	178.1
80°	593.4	519.5	443.7	371.3	306.7	242.2	188.5	146.3	115.1	97.8	90.7
82.5°	484.5	440.0	387.2	347.9	297.4	249.2	210.4	163.2	122.0	89.8	68.7
85°	174.9	143.5	115.5	106.1	84.7	69.7	58.4	50.0	41.1	32.7	29.0
87.5°	19.6	18.7	10.8	10.3	11.7	8.4	9.9	8.9	7.4	6.5	7.0
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	446.0	446.0	446.0	446.0	446.0	446.0	446.0	446.0	446.0	446.0	446.0
2.5°	447.4	447.4	448.0	448.0	448.5	448.9	449.9	449.4	449.4	449.9	449.9
5°	460.1	461.5	461.0	461.0	461.0	461.5	462.0	460.1	458.2	456.4	455.4
7.5°	482.0	483.1	484.0	483.1	484.0	483.5	482.5	477.4	471.4	463.8	458.7
10°	510.6	510.6	511.5	511.1	512.9	511.5	508.7	497.0	484.0	468.1	456.4
12.5°	541.5	544.7	543.4	543.8	547.5	543.8	537.3	520.0	496.6	470.9	450.3
15°	578.0	579.4	580.3	578.9	581.2	578.0	566.2	538.7	504.6	468.6	438.1
17.5°	607.9	608.4	608.8	609.8	613.0	609.3	589.2	551.7	506.4	457.8	417.6
20°	631.3	633.6	635.4	635.4	640.1	634.5	607.9	558.3	500.3	440.0	391.4
22.5°	655.5	657.4	659.8	660.3	666.3	660.7	623.3	556.9	484.5	414.8	361.0
25°	685.5	687.4	689.2	691.5	700.0	692.0	638.7	551.3	462.4	384.8	328.3
27.5°	720.1	724.3	725.7	729.5	739.3	727.1	651.8	542.9	438.1	350.2	293.7
30°	766.4	771.5	773.4	778.5	792.1	765.5	659.4	528.4	407.3	315.2	256.7
32.5°	828.6	835.6	841.2	846.8	862.2	803.8	660.3	507.4	371.3	275.9	221.2
35°	910.0	920.7	924.9	928.7	943.2	845.4	656.0	476.0	327.4	235.6	193.1
37.5°	1001.1	1011.9	1014.7	1016.6	1019.4	880.9	645.8	428.3	277.8	200.6	170.7
40°	1113.3	1122.7	1126.4	1123.6	1108.7	908.6	622.8	372.7	229.6	176.7	156.7
42.5°	1250.3	1264.4	1265.8	1253.1	1203.6	924.0	577.0	307.2	191.7	159.4	145.9
45°	1420.1	1419.2	1411.2	1402.3	1306.9	917.9	512.9	250.1	167.9	145.9	136.1
47.5°	1572.6	1556.7	1544.5	1518.2	1398.1	882.3	430.1	207.2	153.4	135.6	127.6
50°	1697.4	1668.4	1642.7	1614.1	1465.9	819.3	347.9	175.8	139.8	126.7	119.7
52.5°	1796.0	1760.9	1731.1	1703.0	1531.4	749.1	285.2	152.9	126.7	117.9	110.8
55°	1950.3	1915.3	1867.5	1836.8	1631.5	684.6	244.6	134.7	114.0	108.5	101.5
57.5°	2340.8	2310.0	2252.9	2172.9	1888.7	660.3	221.7	120.7	103.8	100.6	94.9
60°	3022.5	2972.5	2898.2	2816.8	2411.4	676.7	203.4	110.8	96.8	94.0	89.8
62.5°	3536.9	3449.0	3364.9	3289.5	2829.4	676.1	179.5	103.3	91.6	90.2	86.0
65°	3558.0	3468.6	3384.0	3305.0	2838.8	601.8	151.5	96.8	90.7	90.2	83.3
67.5°	3369.0	3272.2	3190.4	3090.8	2627.9	470.4	121.6	92.6	94.4	93.5	82.3
70°	3060.4	2934.2	2866.8	2768.7	2312.8	329.2	100.1	94.0	102.4	99.6	83.7
72.5°	2402.1	2306.6	2204.3	2136.0	1810.5	208.1	84.2	94.9	105.7	101.0	87.4
75°	894.1	919.7	877.7	862.7	919.7	122.0	74.8	88.4	94.4	87.4	79.5
77.5°	180.5	172.6	163.6	161.8	209.0	75.3	68.7	76.7	72.5	64.1	64.6
80°	86.5	84.2	81.4	80.9	77.6	62.7	63.6	65.5	54.7	49.6	52.8
82.5°	57.5	54.2	53.3	51.4	52.4	56.1	60.3	56.1	42.0	39.3	47.7
85°	26.7	25.7	25.2	25.2	28.1	50.5	50.0	41.1	29.0	28.1	47.7
87.5°	6.5	6.5	7.0	6.5	7.4	15.0	13.1	12.7	10.8	12.2	22.4
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°	446.0	446.0	446.0
2.5°	449.4	449.9	449.4
5°	453.6	453.6	453.6
7.5°	453.6	452.2	451.7
10°	447.0	442.8	442.8
12.5°	435.8	428.7	427.8
15°	414.8	405.4	404.0
17.5°	388.1	375.4	373.1
20°	358.1	342.2	339.4
22.5°	325.5	307.2	305.8
25°	293.2	274.5	270.7
27.5°	257.2	239.0	237.0
30°	221.2	205.3	204.4
32.5°	190.8	180.9	179.1
35°	169.3	163.6	161.3
37.5°	155.3	151.1	150.6
40°	144.5	140.7	140.3
42.5°	135.6	132.4	131.9
45°	126.7	123.9	123.0
47.5°	117.9	115.1	114.6
50°	109.9	106.1	105.7
52.5°	102.4	98.7	97.8
55°	95.3	91.6	91.6
57.5°	89.3	85.6	85.1
60°	83.7	80.0	79.5
62.5°	79.5	74.8	74.3
65°	76.2	71.5	70.6
67.5°	74.3	68.7	67.3
70°	77.6	67.3	65.0
72.5°	78.0	66.0	62.7
75°	75.3	62.2	59.8
77.5°	66.0	55.6	53.3
80°	57.0	43.0	39.7
82.5°	54.2	35.1	30.4
85°	42.0	22.9	21.5
87.5°	23.8	12.7	10.3
90°	0.0	0.0	0.0

(END OF REPORT)