

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: P180398

Luminaire Tested: **ICM-E05-LED-E1-SL2-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180398
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: ICM-E05-LED-E1-SL2-HSS
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (105) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8528.3 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 127.3
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

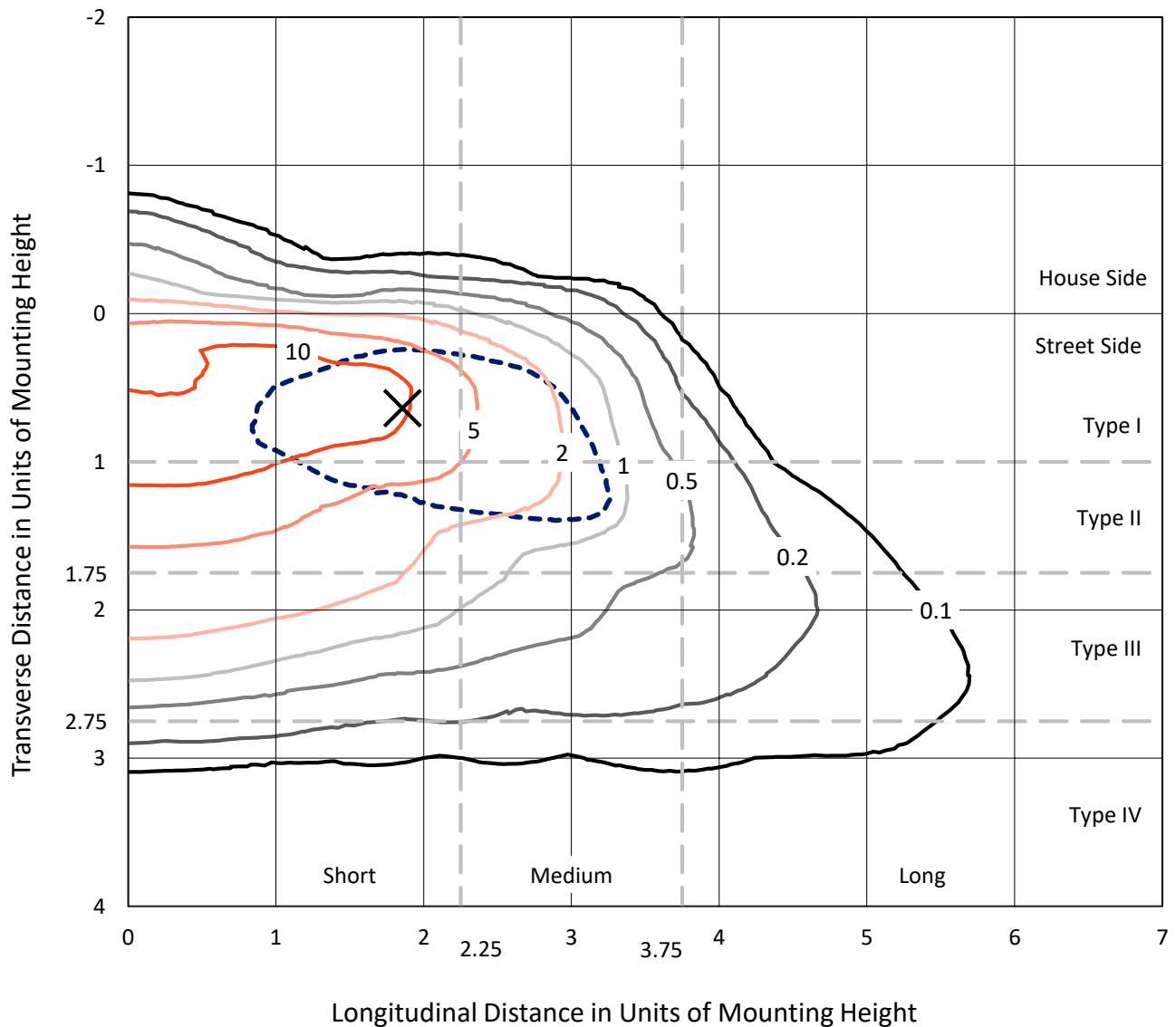


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

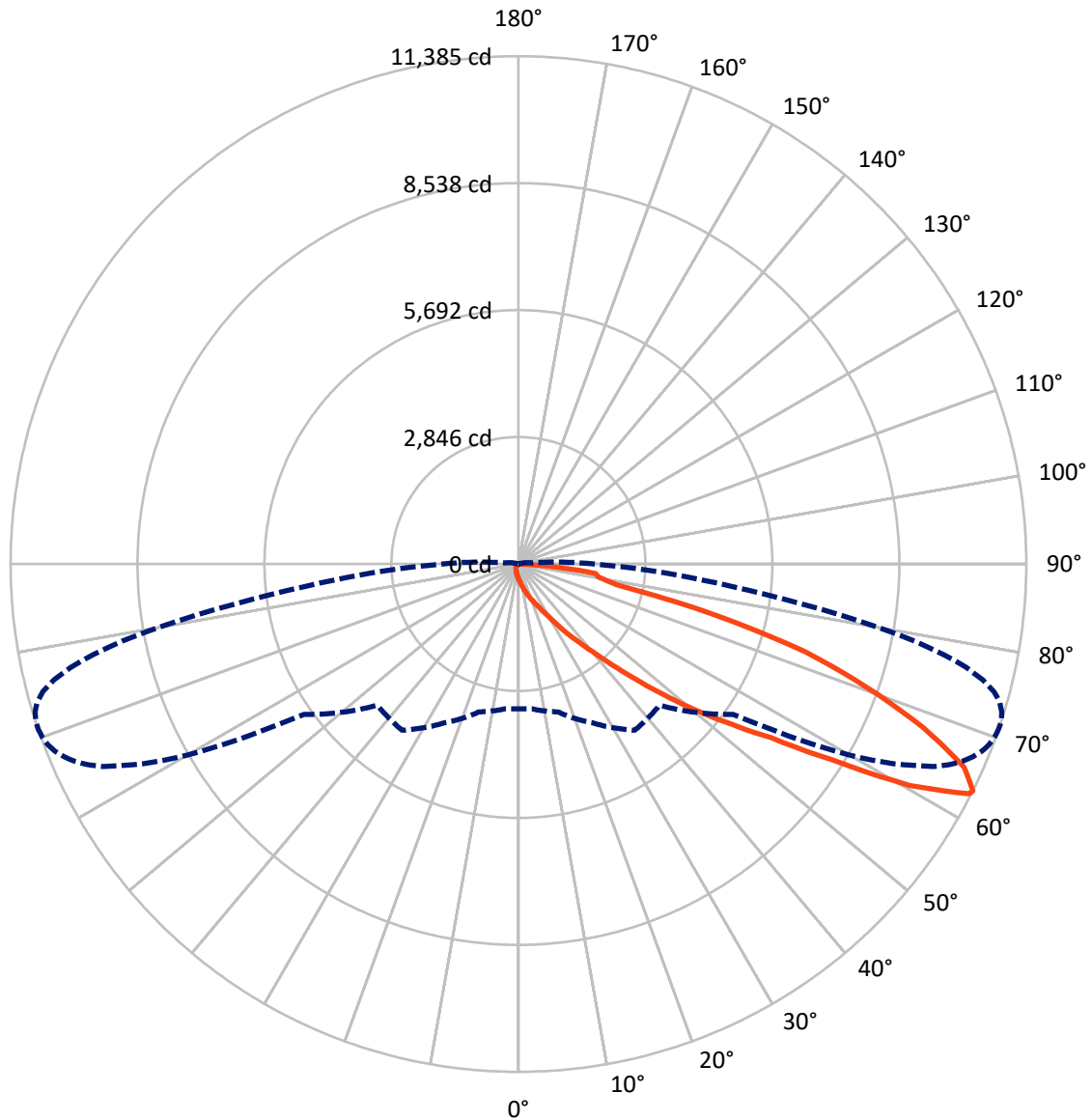


Based on 10 foot mounting height. Maximum calculated value = 17.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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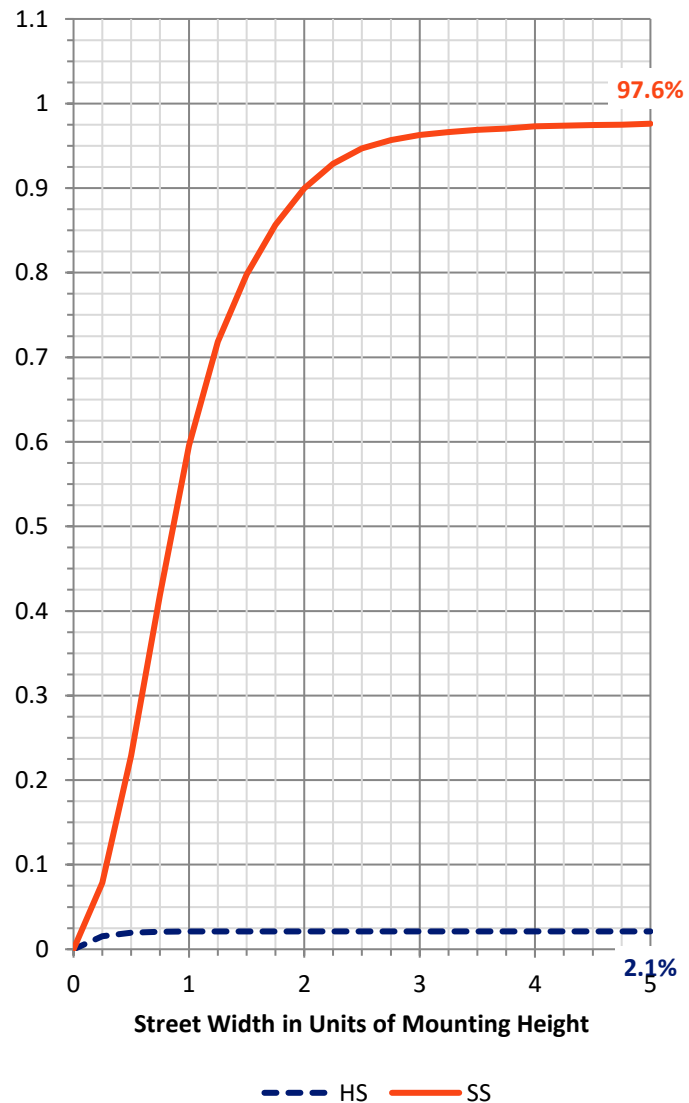
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	181.1	0.0	181.1
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	8347.2	0.0	8347.2
	% Fixture	97.9	0.0	97.9
Total	Lumens	8528.3	0.0	8528.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.2	0.4
10°-20°	140.2	1.6
20°-30°	284.8	3.3
30°-40°	695.9	8.2
40°-50°	1556.3	18.2
50°-60°	2188.3	25.7
60°-70°	2573.2	30.2
70°-80°	929.2	10.9
80°-90°	124.3	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°	8528.3	100.0
0°-180°	8528.3	100.0



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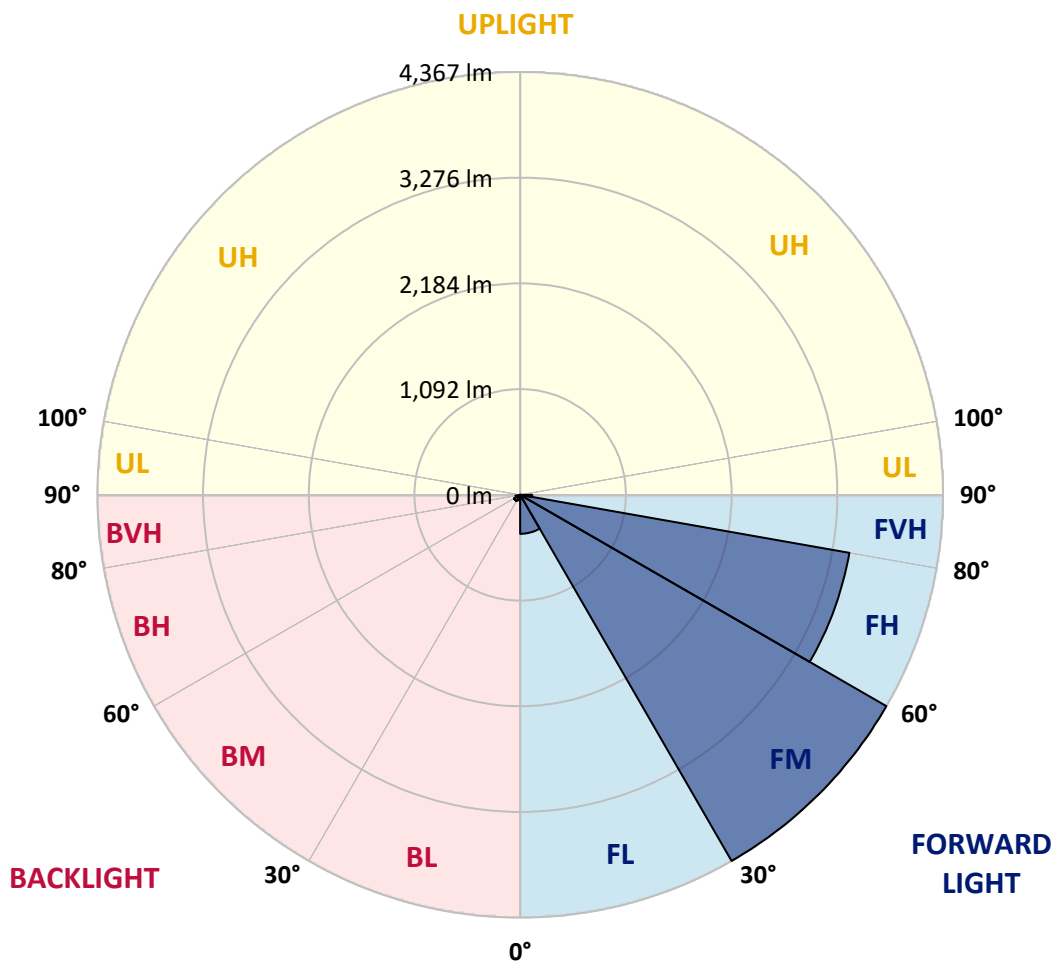
CATALOG NUMBER: ICM-E05-LED-E1-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	403.0	4.7			
FM (30°-60°)	4367.5	51.2			
FH (60°-80°)	3452.8	40.5			G2/5000
FVH (80°-90°)	124.0	1.5			G2/225
BL (0°-30°)	58.2	0.7	B0/110		
BM (30°-60°)	73.0	0.9	B0/220		
BH (60°-80°)	49.6	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°	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2
2.5°	427.9	432.6	429.5	421.7	412.4	400.0	389.1	389.1	387.6	383.0	384.5
5°	561.2	562.8	556.6	538.0	520.9	494.6	465.1	462.0	458.9	454.2	452.7
7.5°	691.4	697.7	691.4	671.4	637.2	596.9	550.4	545.8	536.5	536.5	530.2
10°	824.8	824.8	818.6	795.4	764.4	707.0	648.1	640.3	629.5	626.3	617.0
12.5°	919.4	919.4	916.3	903.9	879.1	827.9	756.6	748.8	734.9	730.2	719.4
15°	956.6	956.6	958.1	969.0	970.5	947.3	872.8	866.7	852.7	840.3	835.6
17.5°	979.8	978.3	978.3	993.8	1021.7	1037.2	989.1	983.0	967.4	961.2	945.8
20°	1031.0	1027.9	1018.6	1018.6	1044.9	1099.3	1099.3	1097.7	1080.7	1076.0	1068.2
22.5°	1107.0	1103.9	1076.0	1052.8	1065.1	1133.3	1196.9	1193.8	1187.6	1181.4	1176.8
25°	1231.0	1220.2	1172.1	1103.9	1093.0	1165.9	1271.4	1279.1	1283.7	1283.7	1286.8
27.5°	1418.6	1404.7	1319.4	1192.3	1144.2	1218.6	1353.5	1369.0	1383.0	1386.1	1400.0
30°	1679.1	1654.2	1531.8	1345.8	1235.6	1296.1	1474.4	1491.5	1511.6	1517.9	1539.5
32.5°	2107.0	2093.0	1975.2	1696.1	1460.5	1448.1	1643.5	1665.1	1691.5	1702.3	1728.7
35°	2758.2	2761.2	2665.1	2414.0	2088.4	1917.9	1945.8	1964.4	1973.7	2006.2	2020.2
37.5°	3200.0	3207.7	3229.5	3130.3	2897.7	2724.0	2505.4	2525.6	2477.5	2482.2	2483.7
40°	3441.9	3466.7	3593.8	3690.0	3671.4	3570.5	3395.4	3406.3	3316.3	3296.1	3198.4
42.5°	3603.1	3635.7	3838.8	4136.5	4288.4	4379.8	4339.6	4334.9	4265.1	4238.8	4156.6
45°	3703.9	3733.3	3989.1	4427.9	4778.4	5045.0	5155.1	5167.5	5108.6	5082.2	5014.0
47.5°	3699.3	3733.3	4007.7	4536.5	5052.8	5479.1	5789.2	5804.7	5840.3	5817.1	5821.7
50°	3494.6	3527.2	3803.1	4351.9	4972.1	5677.5	6245.0	6294.6	6351.9	6390.7	6409.3
52.5°	3246.5	3269.8	3514.7	4035.7	4627.9	5595.4	6514.7	6600.0	6685.3	6758.2	6809.3
55°	3155.1	3181.4	3373.7	3806.3	4351.9	5251.2	6640.3	6765.9	6886.8	7006.3	7104.0
57.5°	3203.1	3227.9	3365.9	3697.7	4187.7	4888.4	6676.0	6871.4	7069.8	7263.6	7455.9
60°	3379.8	3406.3	3524.0	3798.4	4144.2	4679.1	6536.5	6860.5	7190.7	7528.7	7846.6
62.5°	3310.1	3321.0	3494.6	3975.2	4454.3	4500.8	6029.5	6482.2	6986.1	7507.0	8020.2
63°	3243.5	3255.8	3432.6	3927.2	4548.9	4474.4	5872.9	6350.5	6882.2	7443.5	8001.6
65°	2941.1	2942.6	3077.5	3468.2	4443.5	4521.0	5175.2	5631.0	6241.9	6914.7	7620.2
67.5°	2195.4	2184.5	2314.7	2612.4	3488.4	4522.5	4441.9	4697.7	5122.5	5719.4	6351.9
70°	778.3	761.2	972.1	1384.5	2173.7	3699.3	3817.0	3834.2	3951.9	4274.4	4671.4
72.5°	252.7	257.4	310.0	507.0	1001.6	2490.0	3455.8	3403.1	3372.1	3370.5	3423.3
75°	100.7	102.3	124.0	224.8	449.6	1200.0	3026.3	3055.8	3066.7	3082.2	3099.3
77.5°	48.1	52.7	69.8	125.6	223.3	593.8	2165.9	2415.5	2558.2	2668.2	2734.9
80°	17.0	20.2	38.8	77.5	103.9	272.8	1141.1	1376.8	1586.1	1855.8	2088.4
82.5°	0.0	0.0	7.7	54.2	57.4	110.0	468.2	548.8	627.9	814.0	1044.9
85°	0.0	0.0	0.0	15.5	17.0	18.6	158.1	190.7	214.0	249.6	288.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.7	9.3	23.3	35.6
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°	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2
2.5°	381.4	379.8	379.8	376.7	375.2	372.1	370.5	365.9	364.4	364.4	364.4
5°	451.2	444.9	441.9	434.1	429.5	427.9	420.2	417.0	412.4	414.0	406.2
7.5°	528.7	517.9	513.2	502.3	499.3	488.4	485.3	477.5	472.8	463.5	460.5
10°	614.0	600.0	592.3	575.2	570.5	562.8	553.5	544.2	536.5	527.2	522.5
12.5°	711.6	699.3	693.0	669.8	658.9	648.1	635.6	623.3	610.9	603.1	592.3
15°	826.3	806.2	800.0	778.3	759.7	745.8	728.7	713.2	703.9	688.4	677.5
17.5°	939.5	919.4	914.7	882.1	862.1	852.7	834.1	814.0	796.9	781.4	764.4
20°	1052.8	1038.8	1026.3	995.4	973.7	958.1	933.3	913.2	899.3	877.5	855.8
22.5°	1165.9	1151.9	1142.6	1110.1	1090.0	1068.2	1046.5	1024.8	1004.7	978.3	953.5
25°	1282.1	1272.8	1268.2	1238.8	1220.2	1200.0	1178.3	1153.5	1128.7	1099.3	1072.8
27.5°	1403.1	1406.2	1396.9	1390.7	1370.5	1356.6	1322.5	1305.4	1286.8	1251.2	1218.6
30°	1556.6	1565.9	1562.8	1567.5	1555.1	1545.8	1519.4	1497.7	1476.0	1441.9	1404.7
32.5°	1750.4	1762.8	1769.0	1786.1	1779.8	1776.8	1769.0	1738.0	1722.5	1663.5	1648.1
35°	2049.6	2043.5	2069.8	2083.7	2077.5	2074.4	2065.1	2048.1	2029.5	1987.6	1948.8
37.5°	2438.8	2444.9	2454.2	2426.3	2407.7	2406.2	2378.3	2361.2	2334.9	2288.4	2241.9
40°	3151.9	3113.2	3069.8	2951.9	2900.8	2871.4	2789.1	2765.9	2720.9	2657.4	2609.3
42.5°	4079.1	4040.3	3910.1	3713.2	3607.7	3462.1	3395.4	3313.2	3249.6	3145.8	3090.0
45°	5000.0	4888.4	4872.9	4643.5	4513.2	4321.0	4201.6	4063.6	3919.4	3783.0	3683.7
47.5°	5776.8	5751.9	5676.0	5536.5	5415.6	5254.3	5100.8	4888.4	4739.6	4545.8	4367.5
50°	6398.5	6397.0	6369.1	6288.4	6187.7	6057.4	5922.5	5742.6	5573.7	5336.5	5145.8
52.5°	6863.6	6888.4	6897.7	6872.9	6834.2	6719.4	6651.2	6500.8	6358.2	6156.6	5950.5
55°	7204.7	7296.1	7342.6	7395.4	7384.5	7344.2	7341.2	7243.5	7178.4	7018.6	6872.9
57.5°	7626.4	7776.8	7921.0	8176.8	8186.1	8276.1	8322.6	8369.1	8381.4	8317.9	8269.8
60°	8162.8	8469.8	8742.7	9277.5	9417.1	9637.3	9779.9	9934.9	10066.8	10077.6	10074.5
62.5°	8541.2	9014.0	9454.3	10248.2	10519.4	10773.7	10964.4	11114.8	11206.3	11299.3	11342.7
63°	8552.0	9069.8	9538.0	10356.6	10641.9	10883.8	11065.2	11204.7	11300.8	11356.6	11384.5
65°	8290.0	8917.9	9476.1	10291.5	10559.8	10803.1	10897.7	10989.2	11035.7	11057.5	10975.2
67.5°	7026.4	7640.3	8291.5	9203.1	9432.6	9724.1	9801.6	9848.2	9869.8	9865.2	9795.4
70°	5254.3	5769.1	6493.1	7534.9	7838.8	8124.0	8300.8	8376.8	8401.6	8393.8	8290.0
72.5°	3668.2	3970.5	4567.5	5727.2	6141.2	6507.0	6725.6	6838.8	6862.1	6815.6	6719.4
75°	3080.7	3096.1	3231.0	3865.1	4252.8	4643.5	4890.0	4961.2	4914.7	4773.7	4528.7
77.5°	2750.4	2784.5	2784.5	2879.1	2955.1	3063.6	3086.8	2913.2	2711.6	2451.2	2240.3
80°	2307.0	2426.3	2510.1	2579.8	2587.6	2565.9	2508.6	2410.9	2255.8	2057.4	1837.2
82.5°	1401.6	1637.2	1733.3	2093.0	2269.8	2389.1	2379.8	2249.6	2131.8	1925.6	1738.0
85°	353.5	381.4	414.0	538.0	603.1	736.5	820.2	858.9	872.8	801.6	725.6
87.5°	34.1	23.3	38.8	29.5	41.9	31.0	41.9	38.8	48.1	51.2	55.8
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2
2.5°	361.2	359.7	358.1	356.6	355.1	353.5	350.4	350.4	347.3	345.8	344.2
5°	401.6	398.4	396.9	393.8	389.1	386.0	381.4	375.2	370.5	369.0	365.9
7.5°	452.7	444.9	441.9	437.2	431.0	421.7	415.5	410.9	403.1	398.4	389.1
10°	510.0	502.3	493.0	483.7	474.4	463.5	455.8	449.6	437.2	431.0	420.2
12.5°	583.0	569.0	558.1	545.8	533.3	520.9	511.6	493.0	482.1	468.2	458.9
15°	657.4	644.9	632.6	617.0	598.4	578.3	569.0	551.9	538.0	516.3	503.9
17.5°	747.3	724.0	705.4	686.8	669.8	651.2	632.6	606.2	586.1	567.4	542.6
20°	835.6	807.7	787.6	762.8	738.0	708.6	686.8	668.2	640.3	615.5	589.1
22.5°	930.2	902.3	869.8	844.9	810.9	787.6	758.1	727.2	699.3	666.7	634.1
25°	1044.9	1015.5	978.3	945.8	907.0	874.4	838.8	803.1	769.0	731.8	690.0
27.5°	1186.1	1155.1	1114.7	1076.0	1024.8	984.5	950.4	902.3	858.9	812.4	764.4
30°	1364.4	1330.2	1280.7	1224.8	1173.7	1128.7	1080.7	1017.0	969.0	913.2	851.2
32.5°	1596.9	1556.6	1490.0	1437.2	1373.7	1314.7	1248.1	1184.5	1116.3	1043.4	972.1
35°	1890.0	1852.8	1775.2	1697.7	1627.9	1558.1	1474.4	1401.6	1305.4	1217.0	1125.6
37.5°	2193.8	2127.2	2055.8	1972.1	1885.3	1801.6	1699.3	1598.4	1488.4	1392.3	1277.5
40°	2541.1	2460.5	2401.6	2311.6	2189.1	2069.8	1975.2	1849.6	1711.6	1583.0	1448.1
42.5°	3017.0	2927.2	2821.7	2685.3	2596.9	2457.4	2334.9	2186.1	2004.7	1860.5	1697.7
45°	3567.5	3445.0	3342.6	3210.9	3103.9	2930.3	2787.6	2589.1	2407.7	2218.6	2020.2
47.5°	4195.4	4043.5	3894.6	3764.4	3593.8	3423.3	3241.9	3031.0	2798.4	2590.7	2355.1
50°	4916.3	4700.8	4494.6	4327.2	4093.0	3896.1	3699.3	3462.1	3204.7	2965.9	2697.7
52.5°	5717.9	5468.2	5195.4	4938.0	4666.7	4414.0	4176.8	3903.9	3617.0	3325.6	3026.3
55°	6685.3	6497.7	6176.8	5849.6	5486.8	5148.9	4843.5	4505.4	4156.6	3773.7	3458.9
57.5°	8200.1	8108.6	7840.3	7513.3	7040.3	6629.5	6111.7	5697.7	5192.3	4665.1	4258.9
60°	10252.8	10139.6	9989.2	9724.1	9348.9	8790.8	8220.2	7576.8	6807.8	6077.5	5384.5
62.5°	11347.3	11307.0	11184.5	11001.6	10651.2	10210.9	9635.7	8928.7	8060.5	7173.7	6290.0
63°	11379.9	11328.7	11223.3	11037.3	10728.7	10302.4	9738.0	9051.2	8201.6	7297.7	6395.4
65°	10939.6	10919.4	10812.4	10609.4	10398.5	10072.9	9635.7	9045.0	8331.9	7477.5	6579.9
67.5°	9702.4	9641.9	9477.5	9415.6	9268.2	9041.9	8708.6	8302.4	7792.3	7121.0	6345.8
70°	8206.3	8116.3	7910.1	7800.0	7620.2	7477.5	7274.5	6984.5	6669.8	6201.6	5623.3
72.5°	6620.2	6434.2	6245.0	5958.2	5707.0	5452.8	5227.9	5023.3	4677.5	4488.4	4049.6
75°	4299.3	3961.2	3637.2	3203.1	2812.4	2466.7	2130.2	1959.7	1604.7	1460.5	1254.2
77.5°	2040.3	1851.2	1596.9	1400.0	1148.8	938.0	765.9	575.2	451.2	353.5	269.8
80°	1646.5	1486.8	1333.3	1155.1	965.9	770.5	590.7	441.9	313.2	217.0	153.5
82.5°	1468.2	1294.6	1105.4	983.0	854.2	699.3	573.7	468.2	345.8	252.7	172.1
85°	570.5	480.7	370.5	302.3	235.6	193.8	175.2	120.9	94.6	74.4	57.4
87.5°	49.6	40.3	32.6	21.7	23.3	12.4	14.0	9.3	7.7	7.7	6.2
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2
2.5°	342.6	341.1	339.5	336.5	336.5	333.3	331.8	330.2	322.5	305.4	291.4
5°	359.7	356.6	353.5	348.8	345.8	341.1	338.0	333.3	316.3	283.7	255.8
7.5°	384.5	378.3	373.7	364.4	359.7	353.5	348.8	341.1	313.2	263.5	224.8
10°	414.0	403.1	395.4	384.5	375.2	367.4	359.7	348.8	310.0	241.9	196.9
12.5°	449.6	437.2	421.7	409.3	396.9	386.0	375.2	361.2	305.4	223.3	175.2
15°	485.3	466.7	455.8	438.8	421.7	406.2	390.7	378.3	307.0	203.1	156.6
17.5°	525.6	507.0	483.7	465.1	446.5	426.3	407.7	383.0	299.3	187.6	142.6
20°	564.4	538.0	516.3	493.0	466.7	441.9	418.6	396.9	293.0	172.1	130.2
22.5°	606.2	575.2	547.3	517.9	485.3	457.4	429.5	401.6	282.1	158.1	119.3
25°	657.4	621.7	581.4	545.8	511.6	477.5	441.9	407.7	271.4	145.8	111.6
27.5°	719.4	672.8	632.6	587.6	539.5	496.1	457.4	420.2	260.5	136.5	103.9
30°	798.4	744.2	686.8	629.5	578.3	528.7	474.4	427.9	249.6	127.2	96.1
32.5°	903.9	835.6	765.9	699.3	631.0	567.4	510.0	449.6	243.4	119.3	88.4
35°	1043.4	955.1	869.8	786.1	703.9	626.3	551.9	483.7	243.4	110.0	79.1
37.5°	1175.2	1072.8	964.4	860.5	762.8	672.8	584.5	502.3	231.0	102.3	71.3
40°	1317.9	1195.4	1068.2	945.8	827.9	716.3	615.5	520.9	220.2	93.0	63.5
42.5°	1536.5	1381.4	1215.5	1072.8	931.8	793.8	668.2	556.6	206.2	83.7	55.8
45°	1823.3	1626.3	1431.0	1257.4	1077.5	908.6	759.7	621.7	203.1	76.0	48.1
47.5°	2130.2	1897.7	1668.2	1446.5	1235.6	1038.8	860.5	694.6	203.1	68.2	41.9
50°	2435.6	2144.2	1899.3	1641.9	1404.7	1172.1	959.7	770.5	204.7	62.0	34.1
52.5°	2711.6	2400.0	2125.6	1827.9	1565.9	1296.1	1065.1	844.9	201.6	54.2	27.9
55°	3094.6	2728.7	2410.9	2082.2	1775.2	1471.4	1209.3	956.6	203.1	48.1	23.3
57.5°	3800.0	3370.5	2987.6	2556.6	2203.1	1810.9	1493.0	1186.1	221.7	40.3	17.0
60°	4812.4	4254.3	3716.3	3190.7	2741.1	2274.4	1862.1	1500.8	260.5	32.6	12.4
62.5°	5493.1	4762.8	4121.0	3541.1	3018.6	2530.2	2080.7	1669.8	286.8	26.3	7.7
63°	5562.8	4807.8	4162.8	3564.4	3031.0	2542.6	2090.0	1682.1	288.4	24.8	7.7
65°	5694.6	4885.3	4186.1	3569.0	3018.6	2525.6	2083.7	1680.7	291.4	20.2	6.2
67.5°	5544.2	4765.9	4051.2	3435.6	2910.1	2424.9	2006.2	1618.6	290.0	14.0	4.7
70°	4958.2	4313.2	3685.3	3111.6	2634.2	2195.4	1826.3	1476.0	266.7	9.3	3.1
72.5°	3640.3	3201.6	2714.7	2300.8	1984.5	1648.1	1406.2	1108.6	206.2	6.2	1.6
75°	1079.1	983.0	826.3	728.7	643.4	531.8	472.8	369.0	105.4	3.1	0.0
77.5°	215.5	195.4	175.2	159.7	150.4	128.7	122.5	100.7	43.4	1.6	0.0
80°	113.2	93.0	79.1	69.8	60.5	49.6	41.9	34.1	7.7	0.0	0.0
82.5°	108.6	72.8	52.7	43.4	37.2	29.5	23.3	17.0	4.7	0.0	0.0
85°	40.3	31.0	23.3	18.6	15.5	14.0	10.9	9.3	0.0	0.0	0.0
87.5°	6.2	4.7	4.7	3.1	3.1	1.6	1.6	1.6	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°	327.2	327.2	327.2	327.2	327.2	327.2	327.2
2.5°	277.5	265.1	258.9	251.2	251.2	249.6	252.7
5°	231.0	214.0	201.6	192.3	193.8	189.1	190.7
7.5°	195.4	178.3	167.4	161.2	159.7	158.1	158.1
10°	169.0	153.5	144.2	139.5	138.0	138.0	138.0
12.5°	150.4	134.9	127.2	124.0	124.0	122.5	122.5
15°	134.9	122.5	114.7	111.6	111.6	110.0	111.6
17.5°	122.5	110.0	103.9	100.7	100.7	99.3	99.3
20°	111.6	100.7	94.6	90.0	90.0	88.4	90.0
22.5°	102.3	91.4	83.7	80.7	79.1	77.5	79.1
25°	93.0	82.1	74.4	69.8	68.2	68.2	66.7
27.5°	85.3	74.4	65.1	60.5	58.9	58.9	57.4
30°	77.5	65.1	55.8	51.2	49.6	49.6	49.6
32.5°	69.8	55.8	48.1	43.4	41.9	41.9	41.9
35°	62.0	48.1	40.3	35.6	34.1	34.1	34.1
37.5°	52.7	40.3	31.0	27.9	26.3	24.8	24.8
40°	44.9	31.0	23.3	20.2	17.0	17.0	17.0
42.5°	37.2	24.8	17.0	12.4	10.9	9.3	10.9
45°	31.0	18.6	10.9	6.2	4.7	4.7	4.7
47.5°	24.8	12.4	4.7	1.6	1.6	1.6	1.6
50°	18.6	7.7	1.6	0.0	0.0	1.6	1.6
52.5°	14.0	4.7	0.0	0.0	0.0	0.0	0.0
55°	7.7	1.6	0.0	0.0	0.0	0.0	0.0
57.5°	4.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	3.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.6	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)