

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: P162342

Luminaire Tested: **EMM-F04-LED-E1-SL2-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P162342
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: EMM-F04-LED-E1-SL2-HSS
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5756.5 lumens
Efficiency: N/A
Efficacy: 56.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 102.2
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

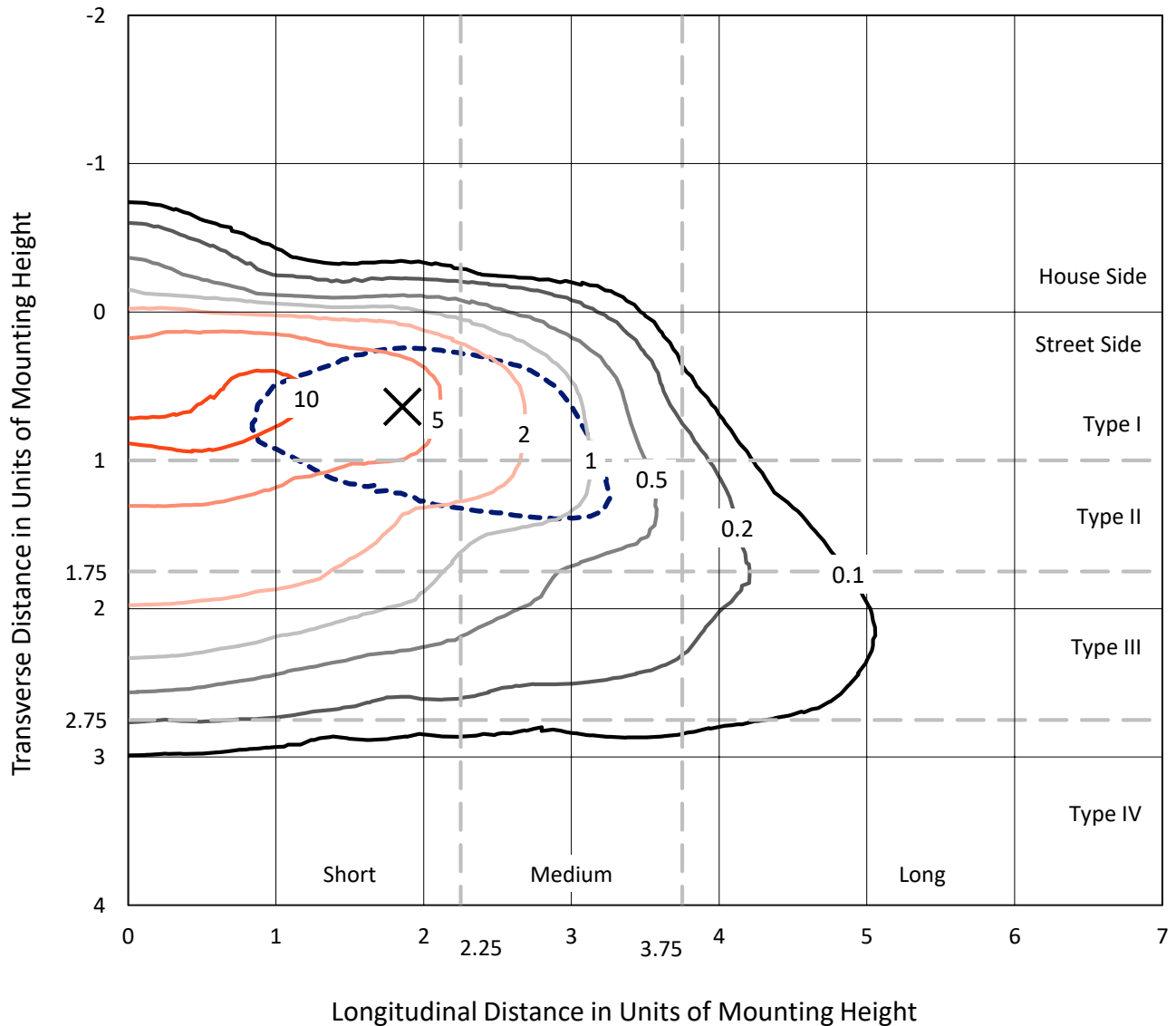


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

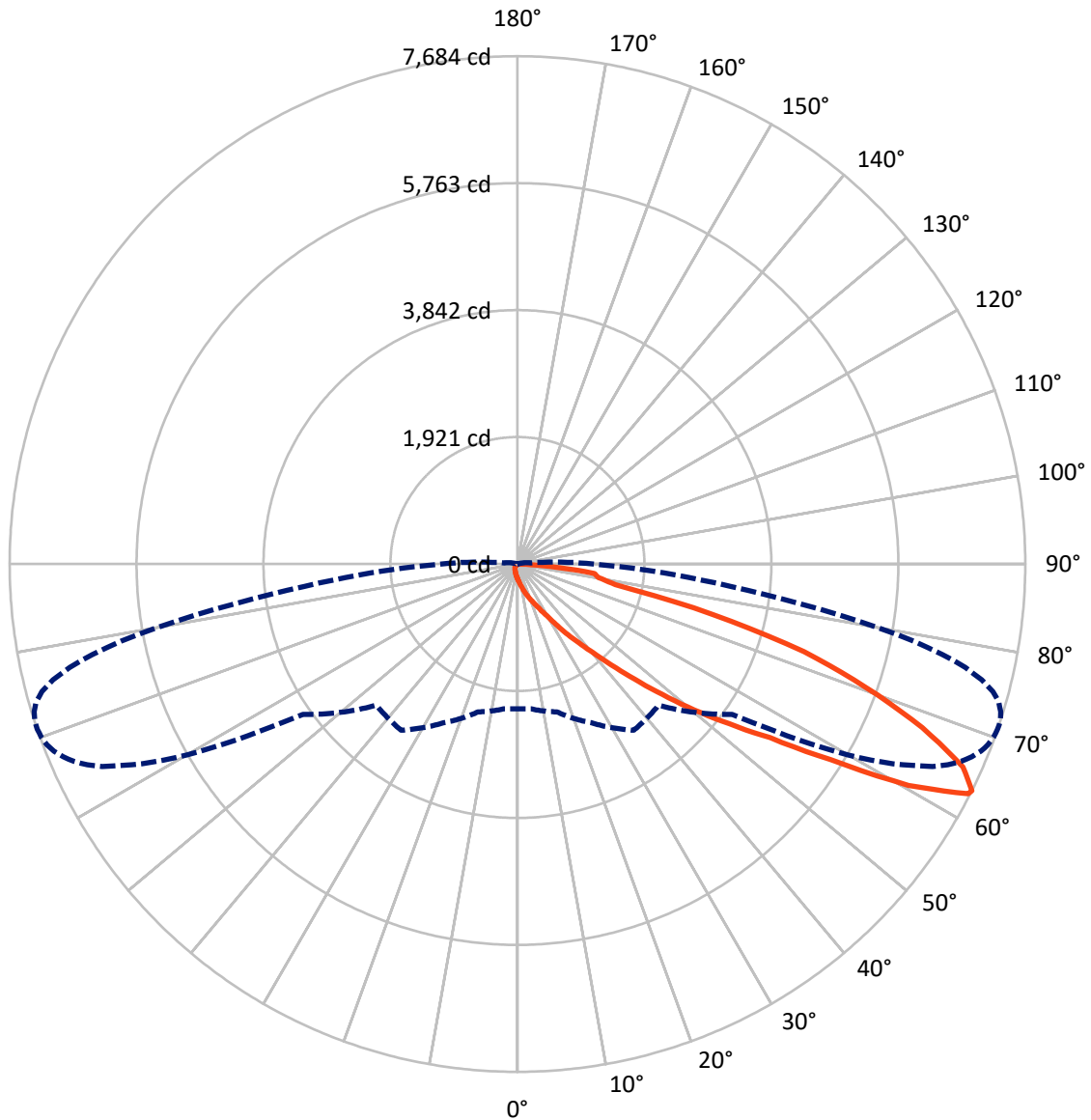


Based on 10 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - Non-Cutoff

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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	122.2	0.0	122.2
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	5634.3	0.0	5634.3
	% Fixture	97.9	0.0	97.9
Total	Lumens	5756.5	0.0	5756.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.4	0.4
10°-20°	94.7	1.6
20°-30°	192.3	3.3
30°-40°	469.7	8.2
40°-50°	1050.5	18.2
50°-60°	1477.1	25.7
60°-70°	1736.9	30.2
70°-80°	627.2	10.9
80°-90°	83.9	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°	5756.5	100.0
0°-180°	5756.5	100.0



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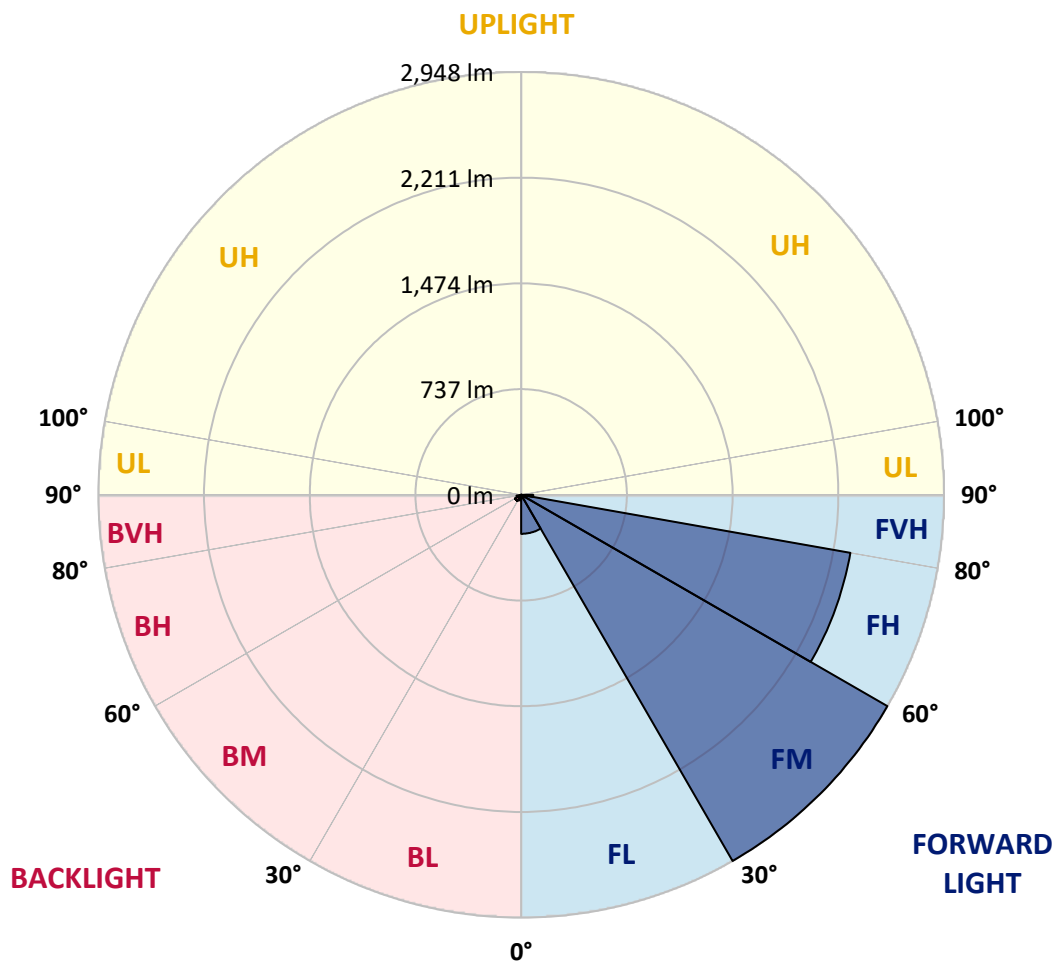
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	272.0	4.7			
FM	(30°-60°)	2948.0	51.2			
FH	(60°-80°)	2330.6	40.5			G2/5000
FVH	(80°-90°)	83.7	1.5			G1/100
BL	(0°-30°)	39.3	0.7	B0/110		
BM	(30°-60°)	49.3	0.9	B0/220		
BH	(60°-80°)	33.5	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	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°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8
2.5°	288.8	292.0	289.9	284.6	278.4	270.0	262.6	262.6	261.6	258.4	259.5
5°	378.9	379.9	375.7	363.1	351.7	333.8	313.9	311.8	309.7	306.7	305.6
7.5°	466.7	470.9	466.7	453.2	430.2	402.9	371.5	368.4	362.1	362.1	357.9
10°	556.7	556.7	552.6	536.8	515.9	477.2	437.4	432.2	424.9	422.8	416.5
12.5°	620.6	620.6	618.5	610.1	593.4	558.8	510.7	505.4	496.1	492.9	485.6
15°	645.7	645.7	646.8	654.0	655.1	639.4	589.2	585.0	575.6	567.2	564.1
17.5°	661.4	660.3	660.3	670.8	689.7	700.2	667.7	663.5	653.0	648.9	638.4
20°	696.0	693.9	687.5	687.5	705.3	742.0	742.0	740.9	729.4	726.2	721.1
22.5°	747.2	745.1	726.2	710.6	719.0	765.0	807.9	805.8	801.6	797.5	794.3
25°	830.9	823.5	791.2	745.1	737.8	787.0	858.1	863.4	866.5	866.5	868.6
27.5°	957.5	948.1	890.6	804.7	772.4	822.6	913.6	924.0	933.5	935.6	945.0
30°	1133.4	1116.7	1034.0	908.4	834.1	874.8	995.3	1006.7	1020.3	1024.5	1039.2
32.5°	1422.2	1412.7	1333.3	1144.8	985.8	977.4	1109.3	1123.9	1141.8	1149.0	1166.9
35°	1861.7	1863.8	1799.0	1629.4	1409.7	1294.5	1313.4	1325.9	1332.2	1354.2	1363.5
37.5°	2160.0	2165.2	2179.8	2112.9	1955.9	1838.7	1691.1	1704.8	1672.3	1675.5	1676.5
40°	2323.2	2340.0	2425.8	2490.7	2478.1	2410.1	2291.9	2299.1	2238.5	2224.8	2158.9
42.5°	2432.1	2454.0	2591.2	2792.0	2894.6	2956.4	2929.2	2926.0	2878.9	2861.2	2805.7
45°	2500.1	2519.9	2692.6	2988.8	3225.3	3405.3	3479.6	3488.0	3448.3	3430.4	3384.4
47.5°	2496.9	2519.9	2705.2	3062.0	3410.5	3698.4	3907.6	3918.1	3942.2	3926.5	3929.6
50°	2358.8	2380.8	2567.1	2937.5	3356.1	3832.3	4215.4	4248.8	4287.6	4313.6	4326.2
52.5°	2191.4	2207.1	2372.4	2724.0	3123.8	3776.8	4397.4	4455.0	4512.5	4561.7	4596.2
55°	2129.6	2147.5	2277.2	2569.1	2937.5	3544.5	4482.2	4566.9	4648.6	4729.2	4795.1
57.5°	2162.1	2178.8	2272.0	2495.9	2826.6	3299.6	4506.3	4638.1	4772.1	4902.8	5032.6
60°	2281.4	2299.1	2378.7	2564.0	2797.3	3158.3	4412.0	4630.8	4853.6	5081.8	5296.3
62.5°	2234.3	2241.6	2358.8	2683.2	3006.6	3038.0	4069.8	4375.4	4715.5	5067.2	5413.6
63°	2189.3	2197.7	2317.0	2650.8	3070.4	3020.2	3964.2	4286.5	4645.4	5024.3	5401.0
65°	1985.2	1986.2	2077.4	2341.1	2999.3	3051.6	3493.2	3800.9	4213.3	4667.4	5143.6
67.5°	1481.9	1474.5	1562.4	1763.3	2354.6	3052.7	2998.2	3170.9	3457.6	3860.6	4287.6
70°	525.4	513.8	656.1	934.5	1467.2	2496.9	2576.5	2588.0	2667.5	2885.2	3153.1
72.5°	170.6	173.7	209.4	342.2	676.0	1680.7	2332.6	2297.1	2276.1	2275.1	2310.7
75°	68.0	69.1	83.8	151.8	303.5	810.0	2042.8	2062.6	2070.0	2080.4	2092.0
77.5°	32.5	35.6	47.1	84.8	150.7	400.8	1461.9	1630.5	1726.8	1801.1	1846.0
80°	11.6	13.6	26.2	52.3	70.1	184.1	770.3	929.3	1070.5	1252.7	1409.7
82.5°	0.0	0.0	5.3	36.7	38.7	74.3	316.0	370.5	423.9	549.4	705.3
85°	0.0	0.0	0.0	10.5	11.6	12.5	106.8	128.7	144.4	168.5	194.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.2	6.3	15.7	24.1
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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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8
2.5°	257.5	256.4	256.4	254.3	253.3	251.2	250.1	247.0	245.9	245.9	245.9
5°	304.6	300.4	298.3	293.0	289.9	288.8	283.7	281.6	278.4	279.5	274.2
7.5°	356.8	349.6	346.4	339.0	336.9	329.7	327.6	322.3	319.2	312.9	310.8
10°	414.4	404.9	399.8	388.2	385.1	379.9	373.6	367.3	362.1	355.9	352.7
12.5°	480.3	472.0	467.8	452.1	444.8	437.4	429.1	420.7	412.3	407.0	399.8
15°	557.8	544.2	540.0	525.4	512.8	503.4	491.9	481.3	475.1	464.6	457.3
17.5°	634.2	620.6	617.4	595.5	581.8	575.6	563.0	549.4	537.9	527.5	515.9
20°	710.6	701.1	692.8	671.9	657.2	646.8	630.0	616.4	606.9	592.3	577.6
22.5°	787.0	777.5	771.3	749.2	735.7	721.1	706.4	691.8	678.1	660.3	643.6
25°	865.5	859.2	856.0	836.2	823.5	810.0	795.4	778.6	761.9	742.0	724.2
27.5°	947.0	949.1	942.9	938.7	925.1	915.7	892.7	881.1	868.6	844.6	822.6
30°	1050.7	1057.0	1054.9	1058.0	1049.6	1043.4	1025.5	1010.9	996.2	973.2	948.1
32.5°	1181.5	1189.9	1194.0	1205.6	1201.4	1199.3	1194.0	1173.1	1162.7	1122.9	1112.5
35°	1383.5	1379.3	1397.1	1406.5	1402.3	1400.2	1393.9	1382.5	1369.8	1341.6	1315.4
37.5°	1646.1	1650.3	1656.7	1637.7	1625.2	1624.2	1605.4	1593.8	1576.0	1544.6	1513.2
40°	2127.5	2101.3	2072.1	1992.5	1958.0	1938.1	1882.6	1867.0	1836.6	1793.7	1761.2
42.5°	2753.3	2727.2	2639.3	2506.4	2435.2	2336.8	2291.9	2236.4	2193.5	2123.4	2085.7
45°	3375.0	3299.6	3289.1	3134.2	3046.4	2916.6	2836.1	2742.8	2645.5	2553.5	2486.5
47.5°	3899.2	3882.5	3831.2	3737.1	3655.4	3546.6	3443.0	3299.6	3199.2	3068.3	2948.0
50°	4318.9	4317.8	4299.0	4244.6	4176.6	4088.7	3997.6	3876.2	3762.2	3602.0	3473.4
52.5°	4632.8	4649.6	4655.9	4639.1	4613.0	4535.5	4489.5	4387.9	4291.7	4155.7	4016.5
55°	4863.1	4924.9	4956.2	4991.8	4984.5	4957.3	4955.1	4889.3	4845.3	4737.5	4639.1
57.5°	5147.8	5249.2	5346.5	5519.2	5525.5	5586.3	5617.6	5649.0	5657.4	5614.5	5582.1
60°	5509.9	5717.0	5901.2	6262.2	6356.4	6505.0	6601.3	6706.0	6795.0	6802.2	6800.1
62.5°	5765.1	6084.3	6381.5	6917.3	7100.5	7272.1	7400.9	7502.4	7564.1	7626.9	7656.2
63°	5772.5	6122.0	6438.1	6990.7	7183.2	7346.4	7468.9	7563.0	7628.0	7665.6	7684.4
65°	5595.6	6019.5	6396.2	6946.6	7127.7	7292.0	7355.9	7417.6	7449.0	7463.6	7408.2
67.5°	4742.7	5157.1	5596.7	6212.0	6366.9	6563.7	6616.0	6647.3	6662.0	6658.9	6611.8
70°	3546.6	3894.1	4382.8	5086.0	5291.1	5483.7	5603.0	5654.3	5671.0	5665.7	5595.6
72.5°	2476.0	2680.1	3083.0	3865.8	4145.2	4392.1	4539.7	4616.1	4631.9	4600.4	4535.5
75°	2079.4	2089.9	2180.9	2608.9	2870.5	3134.2	3300.7	3348.8	3317.4	3222.2	3056.9
77.5°	1856.4	1879.6	1879.6	1943.4	1994.6	2067.9	2083.6	1966.4	1830.4	1654.6	1512.1
80°	1557.2	1637.7	1694.3	1741.4	1746.6	1732.0	1693.2	1627.3	1522.7	1388.8	1240.2
82.5°	946.1	1105.1	1169.9	1412.7	1532.1	1612.6	1606.4	1518.5	1438.9	1299.7	1173.1
85°	238.6	257.5	279.5	363.1	407.0	497.1	553.7	579.7	589.2	541.0	489.8
87.5°	23.0	15.7	26.2	19.9	28.3	20.9	28.3	26.2	32.5	34.6	37.6
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8
2.5°	243.8	242.8	241.7	240.7	239.6	238.6	236.5	236.5	234.4	233.3	232.4
5°	271.0	268.9	267.9	265.8	262.6	260.5	257.5	253.3	250.1	249.1	247.0
7.5°	305.6	300.4	298.3	295.1	290.9	284.6	280.5	277.4	272.1	268.9	262.6
10°	344.3	339.0	332.7	326.5	320.2	312.9	307.6	303.5	295.1	290.9	283.7
12.5°	393.5	384.0	376.8	368.4	360.0	351.7	345.4	332.7	325.5	316.0	309.7
15°	443.7	435.3	427.0	416.5	404.0	390.3	384.0	372.6	363.1	348.5	340.1
17.5°	504.5	488.7	476.2	463.6	452.1	439.5	427.0	409.1	395.6	383.0	366.3
20°	564.1	545.2	531.6	514.9	498.2	478.3	463.6	451.1	432.2	415.5	397.7
22.5°	627.9	609.0	587.1	570.4	547.3	531.6	511.7	490.8	472.0	450.0	428.1
25°	705.3	685.4	660.3	638.4	612.2	590.2	566.2	542.1	519.1	494.0	465.7
27.5°	800.5	779.6	752.4	726.2	691.8	664.5	641.5	609.0	579.7	548.4	515.9
30°	921.0	898.0	864.4	826.7	792.2	761.9	729.4	686.5	654.0	616.4	574.6
32.5°	1077.9	1050.7	1005.7	970.2	927.2	887.4	842.5	799.5	753.4	704.3	656.1
35°	1275.7	1250.6	1198.2	1145.9	1098.8	1051.7	995.3	946.1	881.1	821.5	759.8
37.5°	1480.8	1435.8	1387.7	1331.2	1272.5	1216.1	1146.9	1078.9	1004.6	939.8	862.3
40°	1715.2	1660.8	1621.0	1560.4	1477.7	1397.1	1333.3	1248.5	1155.3	1068.4	977.4
42.5°	2036.5	1975.8	1904.7	1812.5	1752.9	1658.8	1576.0	1475.6	1353.1	1255.8	1145.9
45°	2408.0	2325.3	2256.2	2167.3	2095.1	1977.8	1881.6	1747.7	1625.2	1497.5	1363.5
47.5°	2831.9	2729.3	2628.8	2540.9	2425.8	2310.7	2188.2	2045.9	1888.9	1748.7	1589.6
50°	3318.5	3173.0	3033.9	2920.8	2762.8	2629.9	2496.9	2336.8	2163.1	2002.0	1820.9
52.5°	3859.5	3691.0	3506.8	3333.1	3150.0	2979.4	2819.2	2635.1	2441.5	2244.8	2042.8
55°	4512.5	4385.8	4169.2	3948.4	3703.5	3475.5	3269.3	3041.1	2805.7	2547.1	2334.7
57.5°	5535.0	5473.2	5292.2	5071.4	4752.2	4474.8	4125.3	3845.8	3504.7	3148.9	2874.7
60°	6920.5	6844.2	6742.6	6563.7	6310.4	5933.7	5548.5	5114.3	4595.2	4102.3	3634.5
62.5°	7659.3	7632.1	7549.5	7426.0	7189.4	6892.3	6504.0	6026.8	5440.8	4842.2	4245.6
63°	7681.3	7646.8	7575.7	7450.1	7241.8	6954.0	6573.0	6109.4	5536.0	4925.9	4316.8
65°	7384.2	7370.5	7298.3	7161.3	7018.8	6799.1	6504.0	6105.3	5623.9	5047.3	4441.3
67.5°	6549.1	6508.2	6397.3	6355.4	6255.9	6103.2	5878.2	5604.0	5259.7	4806.5	4283.4
70°	5539.2	5478.4	5339.3	5265.0	5143.6	5047.3	4910.2	4714.5	4502.1	4186.0	3795.7
72.5°	4468.5	4343.0	4215.4	4021.7	3852.1	3680.5	3528.8	3390.7	3157.2	3029.7	2733.5
75°	2902.0	2673.8	2455.1	2162.1	1898.4	1665.0	1437.8	1322.8	1083.1	985.8	846.7
77.5°	1377.2	1249.5	1077.9	945.0	775.4	633.1	517.0	388.2	304.6	238.6	182.1
80°	1111.4	1003.6	900.0	779.6	651.9	520.1	398.7	298.3	211.4	146.5	103.6
82.5°	991.1	873.8	746.2	663.5	576.7	472.0	387.2	316.0	233.3	170.6	116.1
85°	385.1	324.4	250.1	204.1	159.1	130.8	118.2	81.7	63.8	50.2	38.7
87.5°	33.5	27.2	22.0	14.6	15.7	8.4	9.5	6.3	5.3	5.3	4.2
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°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8
2.5°	231.3	230.3	229.2	227.1	227.1	225.0	224.0	222.9	217.7	206.2	196.7
5°	242.8	240.7	238.6	235.4	233.3	230.3	228.2	225.0	213.5	191.5	172.7
7.5°	259.5	255.4	252.2	245.9	242.8	238.6	235.4	230.3	211.4	177.9	151.8
10°	279.5	272.1	266.8	259.5	253.3	248.0	242.8	235.4	209.4	163.2	132.9
12.5°	303.5	295.1	284.6	276.3	267.9	260.5	253.3	243.8	206.2	150.7	118.2
15°	327.6	315.0	307.6	296.2	284.6	274.2	263.7	255.4	207.3	137.0	105.7
17.5°	354.8	342.2	326.5	313.9	301.4	287.8	275.2	258.4	202.0	126.6	96.3
20°	381.0	363.1	348.5	332.7	315.0	298.3	282.5	267.9	197.8	116.1	87.9
22.5°	409.1	388.2	369.4	349.6	327.6	308.7	289.9	271.0	190.4	106.8	80.6
25°	443.7	419.7	392.4	368.4	345.4	322.3	298.3	275.2	183.2	98.4	75.4
27.5°	485.6	454.1	427.0	396.6	364.2	334.8	308.7	283.7	175.8	92.1	70.1
30°	538.9	502.4	463.6	424.9	390.3	356.8	320.2	288.8	168.5	85.9	64.8
32.5°	610.1	564.1	517.0	472.0	426.0	383.0	344.3	303.5	164.3	80.6	59.7
35°	704.3	644.7	587.1	530.5	475.1	422.8	372.6	326.5	164.3	74.3	53.4
37.5°	793.3	724.2	651.0	580.8	514.9	454.1	394.5	339.0	156.0	69.1	48.1
40°	889.5	806.8	721.1	638.4	558.8	483.5	415.5	351.7	148.6	62.7	42.9
42.5°	1037.1	932.4	820.5	724.2	628.9	535.8	451.1	375.7	139.2	56.5	37.6
45°	1230.7	1097.7	966.0	848.7	727.3	613.2	512.8	419.7	137.0	51.3	32.5
47.5°	1437.8	1280.9	1126.0	976.4	834.1	701.1	580.8	468.8	137.0	46.0	28.3
50°	1644.0	1447.3	1282.0	1108.3	948.1	791.2	647.8	520.1	138.1	41.8	23.0
52.5°	1830.4	1620.0	1434.8	1233.8	1057.0	874.8	719.0	570.4	136.0	36.7	18.8
55°	2088.8	1841.8	1627.3	1405.5	1198.2	993.2	816.3	645.7	137.0	32.5	15.7
57.5°	2565.0	2275.1	2016.6	1725.7	1487.0	1222.3	1007.8	800.5	149.7	27.2	11.6
60°	3248.4	2871.6	2508.5	2153.7	1850.2	1535.3	1256.9	1013.0	175.8	22.0	8.4
62.5°	3707.7	3214.8	2781.6	2390.2	2037.5	1707.8	1404.4	1127.1	193.6	17.8	5.3
63°	3754.8	3245.2	2809.9	2405.9	2045.9	1716.2	1410.7	1135.5	194.6	16.7	5.3
65°	3843.8	3297.5	2825.6	2409.0	2037.5	1704.8	1406.5	1134.4	196.7	13.6	4.2
67.5°	3742.3	3216.9	2734.5	2319.1	1964.3	1636.7	1354.2	1092.6	195.7	9.5	3.2
70°	3346.7	2911.4	2487.6	2100.4	1778.0	1481.9	1232.8	996.2	180.0	6.3	2.1
72.5°	2457.2	2161.0	1832.4	1553.0	1339.6	1112.5	949.1	748.3	139.2	4.2	1.1
75°	728.3	663.5	557.8	491.9	434.3	358.9	319.2	249.1	71.2	2.1	0.0
77.5°	145.5	131.9	118.2	107.8	101.5	86.8	82.7	68.0	29.3	1.1	0.0
80°	76.4	62.7	53.4	47.1	40.8	33.5	28.3	23.0	5.3	0.0	0.0
82.5°	73.3	49.2	35.6	29.3	25.1	19.9	15.7	11.6	3.2	0.0	0.0
85°	27.2	20.9	15.7	12.5	10.5	9.5	7.4	6.3	0.0	0.0	0.0
87.5°	4.2	3.2	3.2	2.1	2.1	1.1	1.1	1.1	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°	220.8	220.8	220.8	220.8	220.8	220.8	220.8
2.5°	187.3	179.0	174.8	169.5	169.5	168.5	170.6
5°	156.0	144.4	136.0	129.8	130.8	127.7	128.7
7.5°	131.9	120.3	113.0	108.9	107.8	106.8	106.8
10°	114.0	103.6	97.3	94.2	93.1	93.1	93.1
12.5°	101.5	91.0	85.9	83.8	83.8	82.7	82.7
15°	91.0	82.7	77.5	75.4	75.4	74.3	75.4
17.5°	82.7	74.3	70.1	68.0	68.0	66.9	66.9
20°	75.4	68.0	63.8	60.6	60.6	59.7	60.6
22.5°	69.1	61.7	56.5	54.4	53.4	52.3	53.4
25°	62.7	55.5	50.2	47.1	46.0	46.0	45.0
27.5°	57.6	50.2	43.9	40.8	39.7	39.7	38.7
30°	52.3	43.9	37.6	34.6	33.5	33.5	33.5
32.5°	47.1	37.6	32.5	29.3	28.3	28.3	28.3
35°	41.8	32.5	27.2	24.1	23.0	23.0	23.0
37.5°	35.6	27.2	20.9	18.8	17.8	16.7	16.7
40°	30.4	20.9	15.7	13.6	11.6	11.6	11.6
42.5°	25.1	16.7	11.6	8.4	7.4	6.3	7.4
45°	20.9	12.5	7.4	4.2	3.2	3.2	3.2
47.5°	16.7	8.4	3.2	1.1	1.1	1.1	1.1
50°	12.5	5.3	1.1	0.0	0.0	1.1	1.1
52.5°	9.5	3.2	0.0	0.0	0.0	0.0	0.0
55°	5.3	1.1	0.0	0.0	0.0	0.0	0.0
57.5°	3.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.1	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)