

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: P180646

Luminaire Tested: **ICS-E04-LED-E1-SL3-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180646
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-E04-LED-E1-SL3-HSS-8030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5268.3 lumens
Efficiency: N/A
Efficacy: 54.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

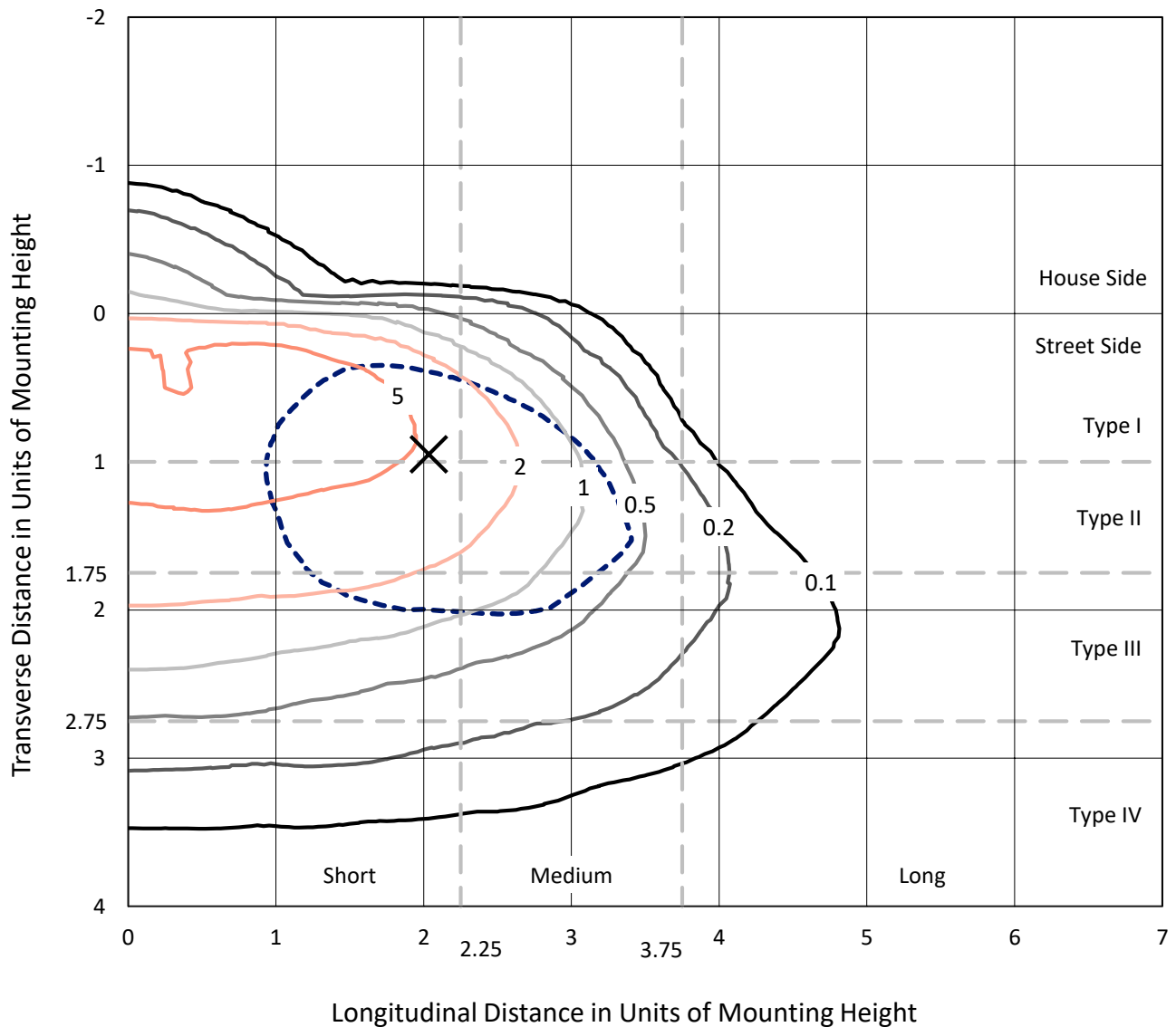
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

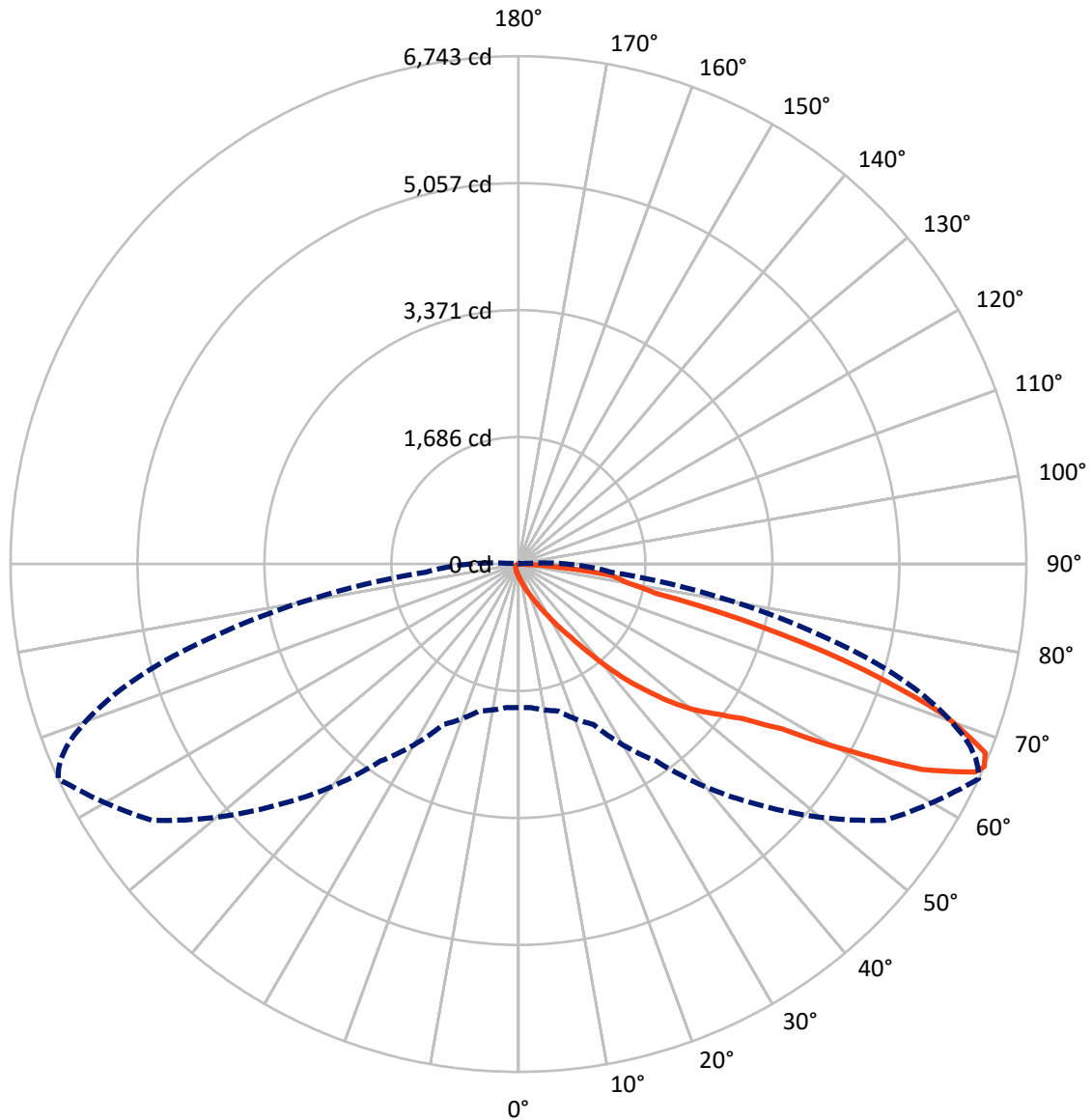
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	114.2	0.0	114.2
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	5154.1	0.0	5154.1
	% Fixture	97.8	0.0	97.8
Total	Lumens	5268.3	0.0	5268.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.8	0.3
10°-20°	75.5	1.4
20°-30°	162.8	3.1
30°-40°	347.7	6.6
40°-50°	768.8	14.6
50°-60°	1302.9	24.7
60°-70°	1738.7	33.0
70°-80°	765.9	14.5
80°-90°	88.2	1.7
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°	5268.3	100.0
0°-180°	5268.3	100.0



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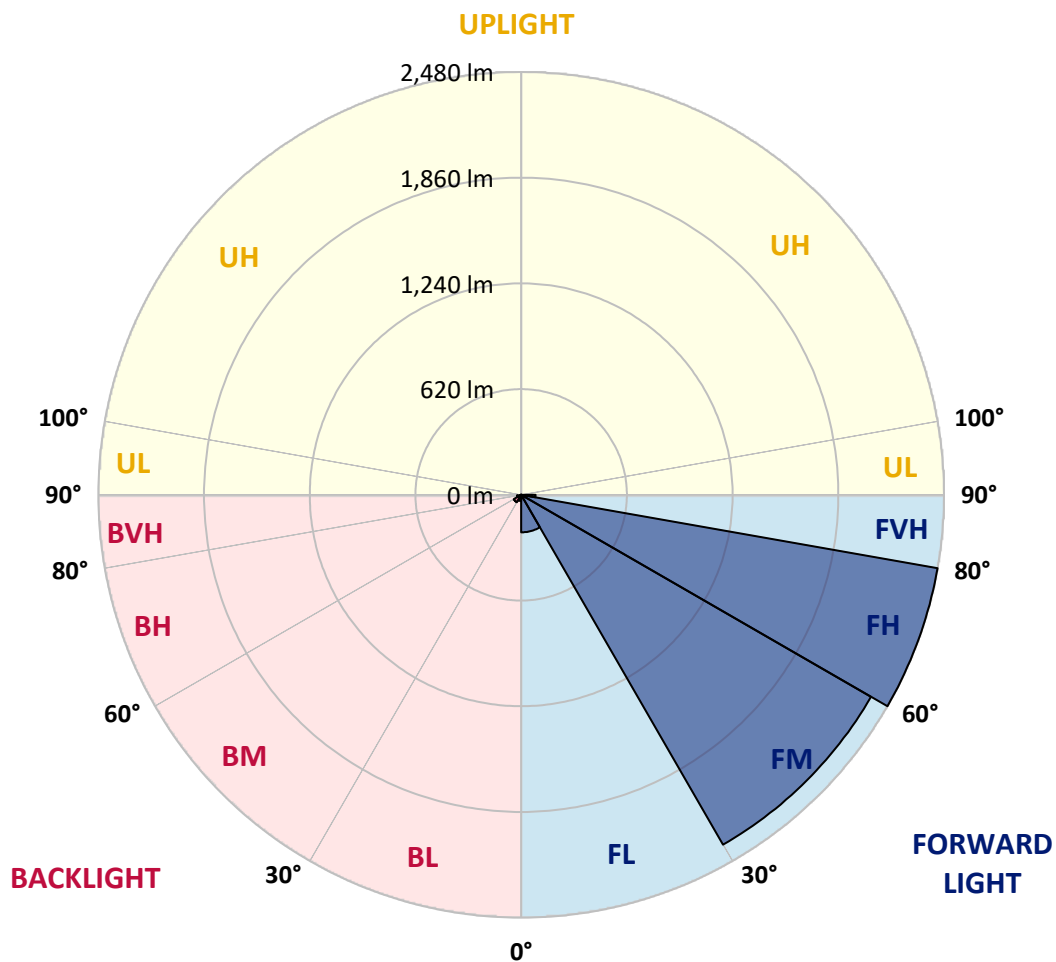
CATALOG NUMBER: ICS-E04-LED-E1-SL3-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	220.1	4.2			
FM	(30°-60°)	2369.3	45.0			
FH	(60°-80°)	2480.0	47.1			G2/5000
FVH	(80°-90°)	84.7	1.6			G1/100
BL	(0°-30°)	36.0	0.7	B0/110		
BM	(30°-60°)	50.1	1.0	B0/220		
BH	(60°-80°)	24.5	0.5	B0/110		G0/110
BVH	(80°-90°)	3.5	0.1			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	159.0	159.0	159.0	159.0	159.0	159.0	159.0	159.0	159.0	159.0	159.0
2.5°	200.5	199.5	195.5	195.5	189.4	185.4	180.3	175.2	175.2	174.2	173.2
5°	265.4	259.3	258.3	247.1	238.0	224.9	212.7	196.5	194.5	192.4	191.4
7.5°	337.3	336.3	327.1	314.0	295.8	271.4	247.1	220.8	216.7	214.7	210.7
10°	430.5	425.4	413.2	391.0	363.6	331.2	291.7	250.2	245.1	241.1	239.0
12.5°	519.6	510.5	503.4	475.0	440.6	393.0	345.4	285.6	281.6	276.5	268.4
15°	602.6	594.5	582.4	558.1	519.6	459.8	404.1	331.2	321.1	314.0	307.9
17.5°	667.5	662.4	648.2	620.9	579.3	526.7	459.8	377.8	369.7	360.6	349.4
20°	729.2	722.2	699.9	662.4	617.8	577.3	525.7	438.6	427.4	416.3	404.1
22.5°	788.0	780.9	744.4	682.7	635.1	617.8	599.6	507.4	490.2	481.1	468.9
25°	870.0	854.8	798.1	699.9	636.1	649.2	680.6	596.6	580.4	567.2	547.9
27.5°	980.4	960.2	871.0	725.2	640.1	683.7	773.8	704.9	687.7	672.5	651.3
30°	1105.0	1091.8	985.5	786.0	669.5	734.3	878.1	842.7	822.4	804.2	778.9
32.5°	1230.6	1212.4	1107.0	901.4	748.5	832.6	1008.8	1002.7	976.4	959.2	931.8
35°	1341.0	1331.9	1253.9	1090.8	928.8	1004.7	1183.0	1190.1	1166.8	1148.6	1118.2
37.5°	1416.0	1416.0	1400.8	1294.4	1215.4	1272.1	1439.3	1440.3	1417.0	1375.4	1360.2
40°	1454.4	1465.6	1520.3	1540.5	1536.5	1609.4	1775.5	1757.3	1738.0	1716.8	1666.1
42.5°	1533.4	1543.6	1660.1	1799.8	1891.0	1987.2	2101.7	2095.6	2072.3	2033.8	1987.2
45°	1667.1	1680.3	1819.1	2040.9	2228.3	2365.0	2437.9	2409.6	2386.3	2349.8	2325.5
47.5°	1837.3	1862.6	2019.6	2294.1	2520.0	2745.8	2821.8	2746.8	2726.6	2698.2	2658.7
50°	2018.6	2042.9	2210.0	2524.0	2779.2	3048.7	3175.3	3048.7	3019.3	3010.2	2965.6
52.5°	2175.6	2195.8	2356.9	2701.3	2977.8	3293.8	3478.1	3311.0	3289.7	3259.3	3226.9
55°	2268.8	2285.0	2435.9	2786.3	3112.5	3514.6	3770.8	3624.0	3592.6	3580.4	3533.8
57.5°	2300.2	2316.4	2452.1	2797.5	3185.4	3716.1	4126.3	4131.4	4093.9	4050.4	4036.2
60°	2300.2	2318.4	2432.9	2770.1	3256.3	3930.8	4600.3	5022.7	4941.7	4933.6	4881.9
62.5°	2205.0	2222.2	2337.6	2686.1	3351.5	4220.5	5260.7	6006.2	5982.9	5930.2	5845.1
65°	1998.3	2008.5	2121.9	2471.3	3315.0	4486.9	5833.0	6660.5	6623.0	6519.7	6410.3
66°	1905.2	1913.3	2019.6	2348.8	3195.5	4523.4	5934.3	6742.5	6680.7	6593.6	6470.0
67.5°	1770.5	1784.6	1859.6	2120.9	2908.9	4396.8	5870.4	6684.8	6631.1	6525.8	6402.2
70°	1182.0	1171.9	1436.2	1627.6	2216.1	3582.4	5266.8	6002.1	6003.1	5953.5	5903.9
72.5°	561.1	567.2	644.2	1001.7	1450.4	2393.4	4192.2	4790.8	4859.6	4770.5	4708.7
75°	403.1	412.2	458.8	612.8	865.0	1436.2	2717.5	3350.5	3352.5	3194.5	3053.7
77.5°	117.5	122.6	172.2	377.8	648.2	969.3	1560.8	1862.6	1819.1	1705.6	1599.3
80°	48.6	48.6	50.6	120.5	260.3	658.3	1091.8	1434.2	1429.1	1385.6	1322.8
82.5°	18.2	19.2	24.3	49.6	61.8	162.1	728.2	1244.8	1241.7	1180.0	1135.4
85°	2.0	2.0	6.1	21.3	23.3	30.4	145.8	549.0	545.9	549.0	481.1
87.5°	0.0	0.0	1.0	2.0	3.0	4.1	6.1	21.3	23.3	22.3	20.3
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	159.0	159.0	159.0	159.0	159.0	159.0	159.0	159.0	159.0	159.0	159.0
2.5°	173.2	171.2	171.2	170.2	170.2	170.2	169.1	168.1	168.1	167.1	166.1
5°	189.4	187.4	186.4	184.3	183.3	182.3	180.3	179.3	177.2	176.2	175.2
7.5°	208.6	204.6	203.6	200.5	197.5	195.5	193.5	190.4	188.4	184.3	183.3
10°	233.0	227.9	223.8	219.8	216.7	211.7	208.6	204.6	200.5	197.5	194.5
12.5°	264.4	257.3	251.2	247.1	240.0	234.0	227.9	224.9	216.7	212.7	207.6
15°	298.8	290.7	283.6	275.5	270.4	260.3	252.2	243.1	239.0	231.9	223.8
17.5°	343.4	330.2	319.0	310.9	300.8	290.7	281.6	272.5	260.3	252.2	242.1
20°	391.0	379.8	364.6	350.4	338.3	326.1	313.0	300.8	289.7	276.5	264.4
22.5°	451.7	435.5	417.3	403.1	386.9	373.7	355.5	339.3	321.1	303.9	289.7
25°	528.7	507.4	490.2	470.0	450.7	430.5	408.2	387.9	364.6	348.4	324.1
27.5°	623.9	603.7	580.4	554.0	534.8	504.4	475.0	449.7	422.4	397.0	369.7
30°	745.5	716.1	691.8	666.5	628.0	598.6	564.2	529.7	492.2	466.9	425.4
32.5°	891.3	859.9	823.4	787.0	751.5	710.0	667.5	624.9	583.4	536.8	494.3
35°	1069.6	1032.1	990.6	951.1	896.4	851.8	798.1	739.4	692.8	639.1	585.4
37.5°	1305.6	1243.8	1207.3	1165.8	1091.8	1031.1	971.3	912.6	830.5	773.8	697.8
40°	1601.3	1564.8	1505.1	1438.2	1371.4	1291.4	1210.3	1132.4	1037.2	958.2	870.0
42.5°	1948.7	1895.0	1834.3	1738.0	1670.2	1576.0	1483.8	1380.5	1264.0	1162.7	1059.4
45°	2274.8	2211.0	2164.4	2068.2	1997.3	1885.9	1774.5	1665.1	1530.4	1399.8	1280.2
47.5°	2627.3	2574.6	2497.7	2419.7	2347.8	2222.2	2101.7	1969.0	1827.2	1672.2	1517.2
50°	2937.2	2895.7	2843.1	2748.9	2668.8	2563.5	2421.7	2276.9	2097.6	1943.6	1767.4
52.5°	3200.6	3168.2	3094.2	3027.4	2955.5	2856.2	2729.6	2590.9	2397.4	2228.3	2027.7
55°	3511.5	3488.2	3423.4	3381.9	3318.1	3222.9	3104.4	2975.7	2771.1	2586.8	2359.9
57.5°	4021.0	4002.8	3946.0	3928.8	3866.0	3783.0	3637.1	3499.4	3260.3	3031.4	2772.2
60°	4864.7	4828.2	4745.2	4702.6	4570.0	4458.5	4269.1	4079.7	3791.1	3499.4	3187.4
62.5°	5768.1	5665.9	5507.8	5372.1	5183.7	4990.3	4737.1	4447.4	4109.1	3762.7	3404.2
65°	6255.3	6081.1	5881.6	5665.9	5421.8	5137.1	4818.1	4470.7	4107.1	3741.4	3362.6
66°	6311.0	6114.5	5902.9	5662.8	5391.4	5088.5	4764.4	4399.8	4022.0	3665.5	3286.7
67.5°	6241.1	6035.5	5811.7	5545.3	5251.6	4937.6	4597.3	4218.5	3854.9	3493.3	3124.6
70°	5751.9	5547.3	5347.8	5067.3	4754.3	4438.3	4116.2	3692.8	3348.5	3016.3	2688.1
72.5°	4593.2	4454.5	4257.0	4016.9	3712.1	3341.4	3073.0	2694.2	2395.4	2073.3	1819.1
75°	2870.4	2674.9	2430.8	2124.9	1892.0	1591.2	1434.2	1146.5	976.4	827.5	683.7
77.5°	1467.6	1320.7	1149.6	977.4	812.3	648.2	501.4	354.5	239.0	166.1	123.6
80°	1212.4	1082.7	940.9	783.9	638.1	495.3	356.5	243.1	155.0	101.3	79.0
82.5°	1001.7	892.3	765.7	619.9	493.3	388.9	270.4	176.2	109.4	70.9	55.7
85°	426.4	386.9	298.8	237.0	178.3	131.7	92.2	61.8	43.6	35.4	32.4
87.5°	18.2	20.3	19.2	15.2	11.1	11.1	10.1	8.1	8.1	8.1	8.1
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	159.0	159.0	159.0	159.0	159.0	159.0	159.0	159.0	159.0	159.0	159.0
2.5°	166.1	165.1	164.1	164.1	163.1	162.1	156.0	150.9	144.8	140.8	136.7
5°	173.2	172.2	170.2	169.1	167.1	166.1	152.9	141.8	132.7	125.6	120.5
7.5°	180.3	179.3	176.2	173.2	172.2	170.2	148.9	134.7	122.6	114.5	109.4
10°	189.4	186.4	183.3	179.3	176.2	173.2	144.8	126.6	113.4	106.3	101.3
12.5°	202.6	197.5	192.4	187.4	183.3	178.3	142.8	119.5	106.3	98.2	93.2
15°	217.8	210.7	204.6	198.5	191.4	186.4	138.8	113.4	100.3	92.2	86.1
17.5°	231.9	223.8	214.7	205.6	198.5	191.4	134.7	107.4	94.2	86.1	80.0
20°	252.2	240.0	228.9	217.8	207.6	198.5	128.6	101.3	89.1	80.0	73.9
22.5°	274.5	260.3	246.1	230.9	217.8	205.6	123.6	96.2	84.1	75.0	67.9
25°	302.8	285.6	266.4	247.1	231.9	215.7	118.5	91.2	79.0	69.9	62.8
27.5°	342.3	318.0	296.8	272.5	249.2	230.9	114.5	87.1	73.9	64.8	57.7
30°	396.0	360.6	327.1	300.8	273.5	247.1	110.4	82.0	69.9	59.8	51.7
32.5°	455.8	414.3	375.8	336.3	301.8	271.4	106.3	78.0	64.8	54.7	47.6
35°	529.7	477.0	425.4	379.8	338.3	297.8	102.3	73.9	60.8	49.6	42.5
37.5°	636.1	570.2	502.4	443.6	389.9	336.3	99.3	69.9	55.7	44.6	37.5
40°	781.9	696.8	613.8	533.8	463.9	397.0	95.2	65.8	51.7	40.5	33.4
42.5°	939.9	836.6	727.2	637.1	540.9	456.8	91.2	61.8	47.6	36.5	29.4
45°	1136.4	1007.8	875.1	752.5	635.1	526.7	87.1	57.7	42.5	32.4	25.3
47.5°	1351.1	1187.1	1037.2	883.2	743.4	613.8	82.0	54.7	38.5	28.4	22.3
50°	1571.9	1398.7	1209.3	1034.1	868.0	700.9	77.0	49.6	34.4	25.3	18.2
52.5°	1810.0	1605.4	1411.9	1194.1	1000.7	815.3	71.9	45.6	31.4	22.3	15.2
55°	2112.8	1883.9	1657.0	1412.9	1180.0	948.0	66.8	40.5	27.3	19.2	12.2
57.5°	2493.6	2222.2	1943.6	1668.2	1385.6	1122.2	62.8	35.4	23.3	16.2	10.1
60°	2853.2	2536.2	2198.9	1881.9	1562.8	1255.9	56.7	31.4	20.3	13.2	10.1
62.5°	3039.5	2678.0	2314.3	1964.9	1624.6	1303.5	50.6	26.3	17.2	11.1	9.1
65°	2994.0	2625.3	2272.8	1920.4	1587.1	1273.1	44.6	23.3	15.2	10.1	9.1
66°	2928.1	2563.5	2209.0	1873.8	1555.7	1240.7	41.5	22.3	14.2	10.1	8.1
67.5°	2784.3	2431.8	2093.5	1781.6	1469.6	1179.0	37.5	20.3	13.2	9.1	8.1
70°	2378.2	2058.1	1787.7	1510.2	1255.9	993.6	30.4	17.2	11.1	8.1	8.1
72.5°	1574.0	1356.2	1175.9	1011.8	845.7	656.3	25.3	14.2	9.1	8.1	7.1
75°	593.5	536.8	460.8	414.3	361.6	317.0	20.3	9.1	7.1	7.1	7.1
77.5°	105.3	97.2	86.1	79.0	72.9	66.8	16.2	6.1	6.1	7.1	7.1
80°	70.9	65.8	59.8	54.7	50.6	45.6	11.1	5.1	6.1	6.1	7.1
82.5°	50.6	47.6	44.6	40.5	37.5	33.4	7.1	5.1	6.1	6.1	6.1
85°	30.4	28.4	26.3	24.3	21.3	20.3	5.1	5.1	5.1	6.1	6.1
87.5°	8.1	7.1	8.1	8.1	6.1	7.1	4.1	4.1	4.1	5.1	5.1
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):

	145°	155°	165°	175°	180°
0°	159.0	159.0	159.0	159.0	159.0
2.5°	134.7	134.7	132.7	135.7	135.7
5°	116.5	116.5	115.5	116.5	116.5
7.5°	106.3	105.3	105.3	105.3	106.3
10°	97.2	96.2	96.2	96.2	96.2
12.5°	89.1	88.1	87.1	88.1	88.1
15°	82.0	80.0	80.0	80.0	80.0
17.5°	76.0	73.9	72.9	72.9	72.9
20°	69.9	66.8	66.8	66.8	66.8
22.5°	63.8	60.8	60.8	60.8	60.8
25°	57.7	54.7	54.7	54.7	54.7
27.5°	52.7	49.6	49.6	49.6	49.6
30°	46.6	44.6	44.6	45.6	44.6
32.5°	42.5	39.5	39.5	40.5	40.5
35°	37.5	35.4	35.4	35.4	35.4
37.5°	32.4	30.4	30.4	30.4	30.4
40°	28.4	26.3	25.3	26.3	26.3
42.5°	24.3	22.3	21.3	21.3	21.3
45°	21.3	18.2	17.2	18.2	18.2
47.5°	17.2	15.2	15.2	16.2	16.2
50°	13.2	13.2	14.2	16.2	16.2
52.5°	12.2	12.2	14.2	16.2	16.2
55°	11.1	12.2	14.2	15.2	16.2
57.5°	10.1	12.2	14.2	15.2	15.2
60°	10.1	11.1	13.2	15.2	15.2
62.5°	9.1	10.1	12.2	14.2	14.2
65°	9.1	10.1	12.2	14.2	14.2
66°	9.1	10.1	12.2	14.2	14.2
67.5°	9.1	10.1	12.2	14.2	14.2
70°	9.1	10.1	12.2	13.2	13.2
72.5°	8.1	9.1	11.1	13.2	13.2
75°	8.1	9.1	11.1	13.2	13.2
77.5°	8.1	9.1	11.1	13.2	13.2
80°	8.1	9.1	11.1	12.2	13.2
82.5°	7.1	9.1	10.1	12.2	12.2
85°	7.1	8.1	10.1	11.1	12.2
87.5°	6.1	7.1	8.1	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)