

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: P180857

Luminaire Tested: **ICM-E01-LED-E1-SL4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180857
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E01-LED-E1-SL4-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2509.9 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

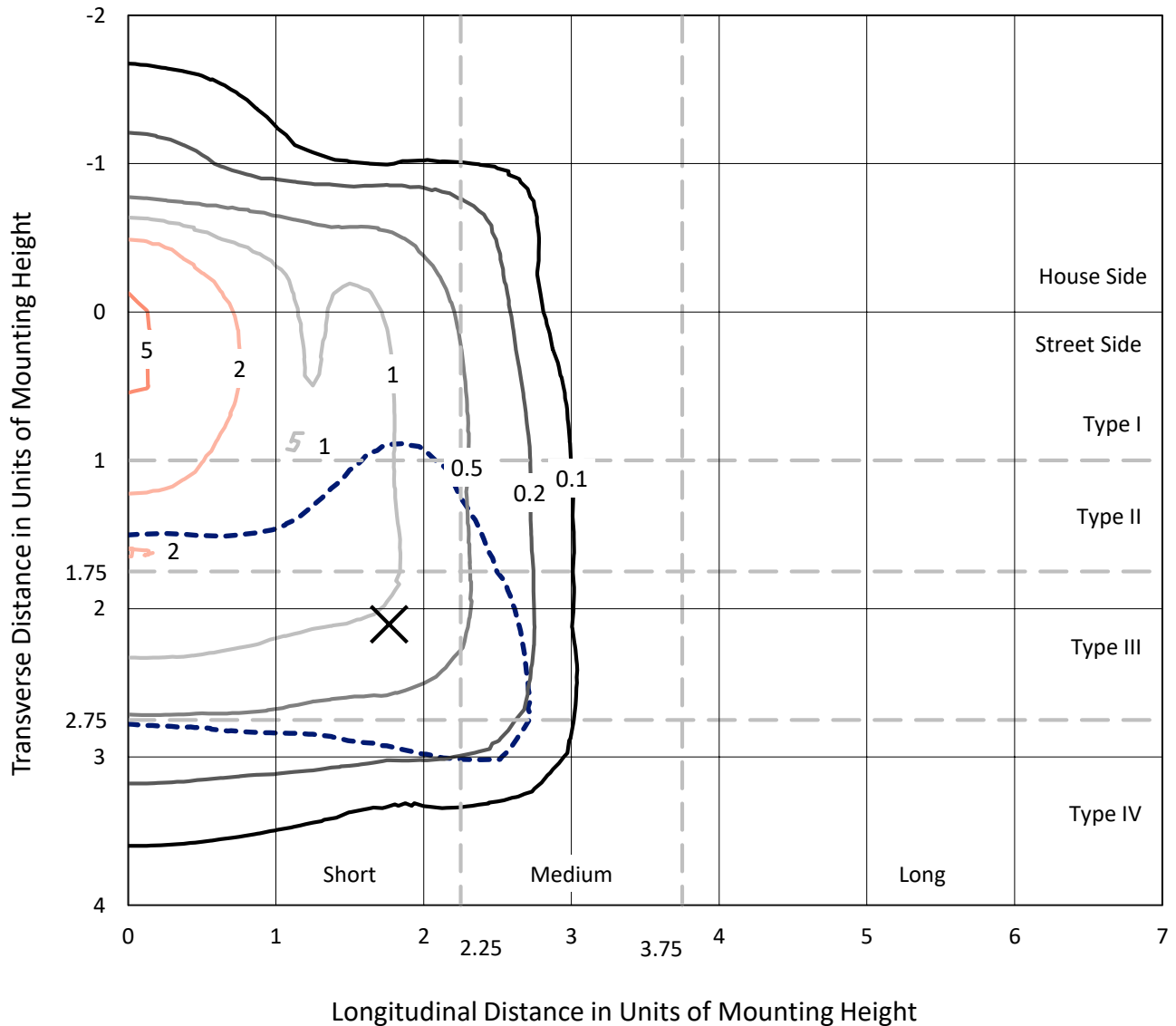
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

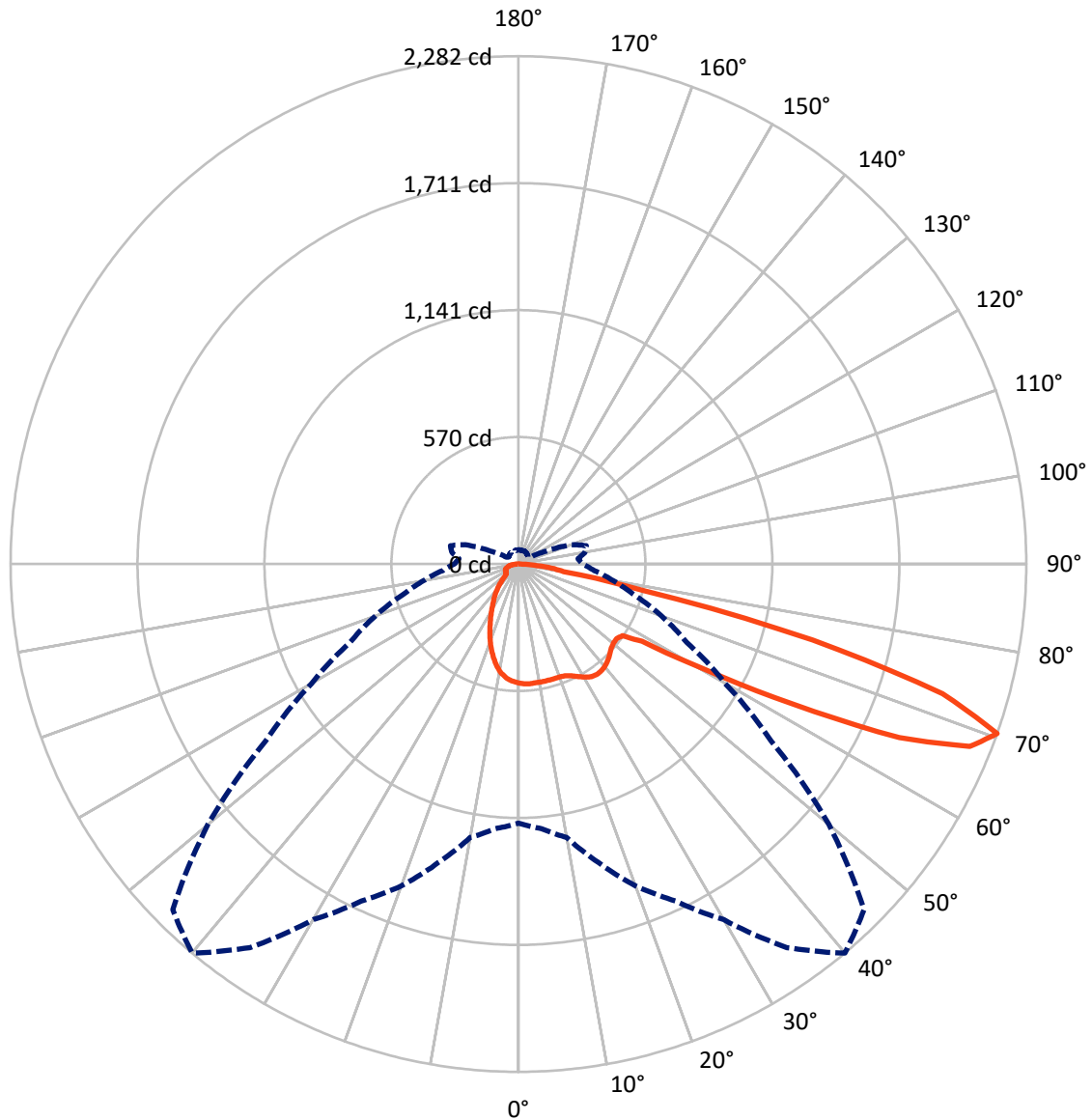
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	521.0	0.0	521.0
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	1988.9	0.0	1988.9
	% Fixture	79.2	0.0	79.2
Total	Lumens	2509.9	0.0	2509.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	2.0
10°-20°	137.0	5.5
20°-30°	202.8	8.1
30°-40°	256.2	10.2
40°-50°	289.8	11.5
50°-60°	412.4	16.4
60°-70°	768.0	30.6
70°-80°	352.0	14.0
80°-90°	41.8	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°	2509.9	100.0
0°-180°	2509.9	100.0



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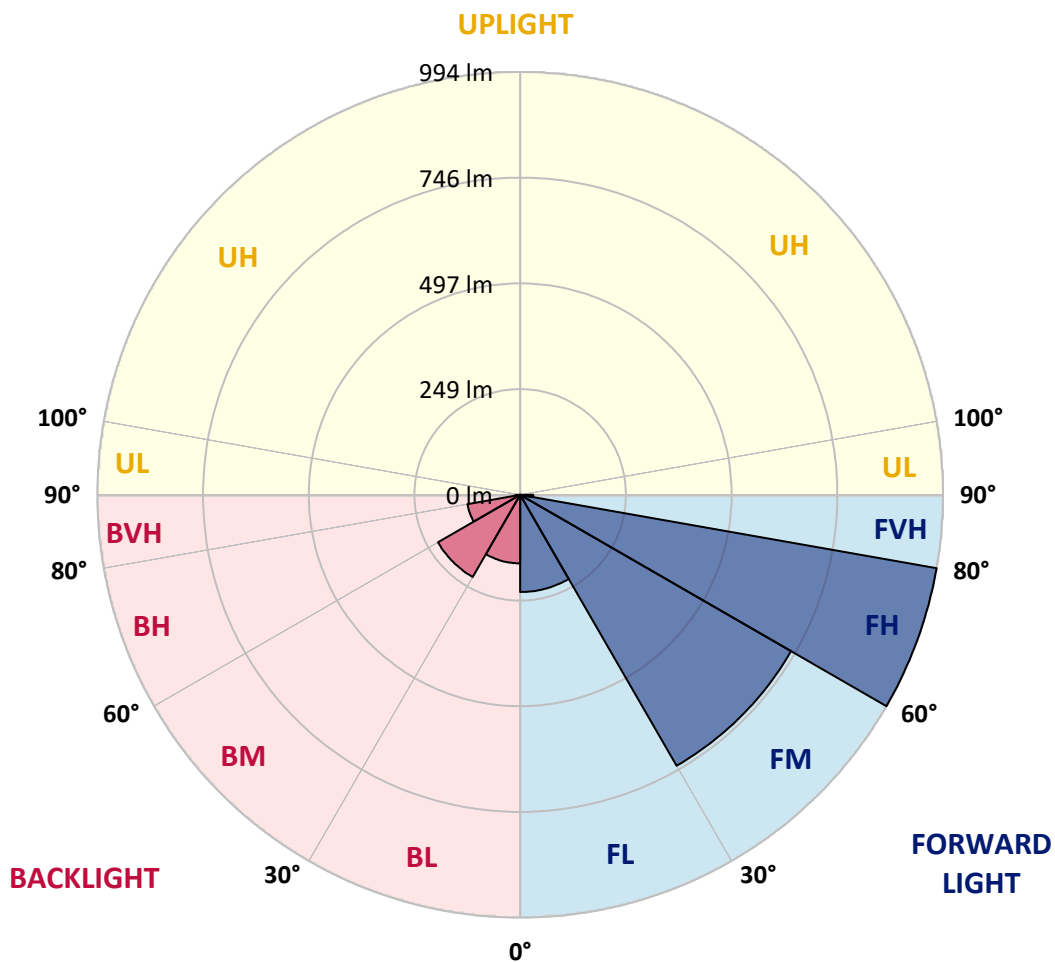
CATALOG NUMBER: ICM-E01-LED-E1-SL4-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	228.5	9.1			
FM (30°-60°)	735.3	29.3			
FH (60°-80°)	994.0	39.6			G1/1800
FVH (80°-90°)	31.0	1.2			G1/100
BL (0°-30°)	161.2	6.4	B1/500		
BM (30°-60°)	223.1	8.9	B1/1000		
BH (60°-80°)	126.0	5.0	B1/500		G1/500
BVH (80°-90°)	10.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	535.5	535.5	535.5	535.5	535.5	535.5	535.5	535.5	535.5	535.5	535.5
2.5°	543.7	545.2	543.4	543.2	543.2	542.9	541.2	540.9	538.7	539.0	539.5
5°	547.7	548.3	547.2	546.9	546.3	545.2	543.7	542.0	540.4	538.7	537.2
7.5°	551.7	551.2	550.2	550.2	549.4	547.7	544.9	542.6	539.0	536.9	534.4
10°	557.4	556.5	555.4	554.8	553.4	550.9	546.9	543.7	539.3	535.3	531.0
12.5°	562.7	562.4	560.7	559.9	557.7	555.1	550.2	545.5	539.5	533.3	527.6
15°	572.4	571.3	569.5	567.8	564.2	560.7	553.4	547.7	539.3	531.0	522.2
17.5°	589.1	587.1	585.4	581.7	577.2	571.3	560.5	550.9	539.3	527.4	517.4
20°	619.6	615.4	613.1	608.4	600.4	589.7	572.9	557.4	540.1	524.7	511.4
22.5°	654.2	651.4	648.3	645.1	632.7	617.1	594.4	571.3	545.2	523.6	506.7
25°	693.0	689.3	687.6	682.2	670.6	652.8	622.0	589.7	556.7	528.2	506.7
27.5°	727.5	726.4	726.1	719.9	708.8	687.9	651.4	612.6	572.7	537.5	510.9
30°	759.0	757.9	757.3	753.9	741.1	716.3	676.6	632.9	590.0	550.6	518.9
32.5°	792.5	788.7	787.1	780.6	766.1	736.9	691.6	646.3	603.5	563.4	527.6
35°	819.6	816.5	813.1	803.7	783.4	748.8	698.1	650.8	608.9	570.4	532.2
37.5°	839.4	836.3	831.5	819.6	794.4	752.7	697.9	649.4	606.9	569.2	533.0
40°	848.2	845.1	840.0	825.0	796.4	750.5	692.5	642.9	600.9	563.4	529.6
42.5°	844.8	842.5	836.0	821.6	790.1	740.3	681.7	630.7	589.7	553.7	522.0
45°	831.8	830.1	823.8	808.6	776.0	723.9	665.9	615.4	576.1	541.8	511.7
47.5°	812.3	811.7	805.5	790.4	758.1	707.4	649.4	600.4	562.4	530.1	503.3
50°	790.7	787.9	784.7	770.9	741.5	693.3	637.5	591.1	554.8	526.0	499.5
52.5°	777.1	776.3	773.5	761.0	732.7	685.1	632.1	587.6	554.2	525.1	497.6
55°	897.8	899.7	873.7	819.6	772.0	707.7	648.3	604.9	568.1	538.7	518.5
57.5°	1328.0	1319.2	1274.4	1167.1	1045.9	885.9	770.6	700.7	655.1	660.2	670.3
60°	1547.2	1545.5	1537.3	1495.6	1414.9	1293.1	1158.1	1003.2	953.9	959.3	963.2
62.5°	1645.2	1647.7	1654.0	1638.3	1617.1	1581.8	1514.3	1452.0	1386.1	1361.4	1295.4
65°	1690.5	1695.0	1709.2	1718.0	1726.2	1732.4	1759.0	1832.1	1880.2	1790.2	1580.6
67.5°	1596.8	1618.5	1665.3	1710.9	1751.6	1809.7	1899.8	2069.4	2187.5	2076.8	1772.9
70°	1164.0	1193.8	1247.3	1388.3	1539.0	1670.7	1845.1	2103.5	2281.6	2196.0	1820.5
72.5°	729.9	738.1	761.9	813.7	925.5	1094.6	1399.6	1787.1	1992.7	1924.4	1538.7
75°	463.1	465.9	465.0	476.9	495.9	532.7	653.4	1055.5	1365.0	1258.6	857.6
77.5°	275.8	280.1	281.8	285.5	294.5	307.5	317.5	359.1	572.4	555.6	311.3
80°	231.1	234.5	231.6	230.8	225.1	221.2	226.0	221.2	205.3	197.7	182.1
82.5°	122.3	122.0	121.2	129.4	146.1	159.2	169.1	166.8	151.0	128.6	109.0
85°	67.2	69.4	69.4	72.2	69.7	70.0	72.2	76.2	70.5	58.9	48.2
87.5°	5.7	8.7	7.1	8.7	11.9	8.5	8.2	8.2	7.1	5.1	4.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	535.5	535.5	535.5	535.5	535.5	535.5	535.5	535.5	535.5	535.5	535.5
2.5°	538.1	537.5	536.4	535.5	535.5	534.1	533.3	532.7	532.5	531.3	531.3
5°	536.4	534.4	532.5	531.0	530.1	528.7	526.5	525.4	523.9	522.8	522.2
7.5°	532.7	529.0	526.0	523.6	520.8	518.5	515.7	513.2	510.6	509.5	508.9
10°	527.1	522.2	517.4	513.2	509.2	505.2	501.6	497.9	494.8	492.5	490.2
12.5°	521.7	514.3	508.1	501.9	495.6	490.8	485.7	480.3	475.8	471.5	470.4
15°	514.3	505.8	497.9	490.2	482.6	474.7	468.5	462.5	455.2	450.3	446.6
17.5°	507.5	497.3	487.7	478.6	469.3	461.0	451.7	443.8	436.5	429.0	423.7
20°	500.2	489.1	478.9	468.7	458.5	448.0	437.3	427.1	418.0	409.2	400.5
22.5°	493.7	482.3	472.4	461.3	450.0	438.1	425.7	412.9	402.4	391.1	380.9
25°	489.7	477.2	467.0	456.3	443.8	430.8	416.6	401.6	388.8	375.8	363.6
27.5°	489.7	473.5	463.1	452.3	439.5	425.7	410.0	393.7	379.3	364.7	349.8
30°	494.0	474.0	459.9	448.6	435.5	420.6	403.3	386.0	370.1	353.1	338.7
32.5°	497.9	475.3	457.7	443.3	428.2	413.5	395.9	377.5	360.0	343.8	328.6
35°	500.5	475.3	453.4	435.0	418.0	403.5	386.3	367.9	350.0	334.2	320.0
37.5°	500.7	472.9	446.6	425.7	407.8	392.8	376.4	359.1	342.1	327.4	315.5
40°	497.9	468.5	439.8	415.7	397.0	381.8	366.8	351.2	335.9	323.7	313.5
42.5°	492.7	463.6	433.3	407.8	388.3	372.5	358.5	345.2	331.9	321.5	312.9
45°	485.1	457.1	427.4	403.0	383.7	367.1	353.5	342.4	331.1	322.3	313.8
47.5°	478.3	454.8	429.3	406.1	386.0	368.7	354.9	345.5	336.7	330.8	319.2
50°	476.9	453.7	430.2	408.7	388.3	370.7	358.5	353.8	351.2	347.5	329.7
52.5°	472.9	453.4	436.5	424.6	411.5	403.3	390.5	395.1	392.3	379.3	347.0
55°	514.6	520.3	536.1	558.8	579.7	584.6	583.2	577.8	549.1	472.4	388.6
57.5°	707.4	739.4	769.5	782.8	781.1	766.1	755.4	733.5	692.2	598.7	470.7
60°	975.4	980.5	964.7	941.1	901.5	868.3	832.9	792.1	732.1	640.7	521.1
62.5°	1222.1	1153.5	1083.0	1016.8	956.4	903.7	854.4	797.5	719.4	623.9	514.6
65°	1396.2	1251.3	1139.9	1044.8	959.5	885.9	824.5	750.5	662.4	576.4	476.9
67.5°	1486.0	1263.7	1092.9	960.4	839.4	737.5	655.6	583.7	518.2	480.7	417.5
70°	1385.8	1072.6	834.6	684.8	540.1	433.0	342.1	287.2	268.2	303.9	316.1
72.5°	1032.6	698.1	496.5	384.0	294.2	234.5	179.8	141.3	115.0	120.7	156.7
75°	488.3	301.3	212.9	162.0	128.8	106.8	87.3	79.9	66.9	55.5	52.1
77.5°	190.0	138.5	114.4	83.8	59.4	47.9	40.7	39.3	40.2	39.1	38.5
80°	144.7	98.0	61.5	45.0	38.8	34.2	30.3	29.2	29.8	31.2	32.6
82.5°	80.7	50.4	37.4	32.6	29.2	24.9	22.7	20.9	21.2	23.0	26.0
85°	31.2	24.4	22.4	21.5	20.1	16.2	13.9	14.1	16.2	19.3	19.3
87.5°	3.4	3.4	4.6	3.4	3.4	3.4	3.1	3.7	4.0	5.1	6.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	535.5	535.5	535.5	535.5	535.5	535.5	535.5	535.5	535.5	535.5	535.5
2.5°	530.7	530.7	530.7	530.1	530.4	529.3	529.3	528.5	529.9	529.0	528.7
5°	522.5	522.2	521.1	521.1	521.1	521.1	522.0	519.7	521.4	521.4	520.6
7.5°	508.7	508.7	505.5	507.3	506.7	507.5	508.7	507.5	509.2	510.3	509.5
10°	489.4	489.4	486.8	488.8	488.0	490.0	491.9	490.8	491.9	493.7	494.2
12.5°	468.2	467.0	464.7	465.6	465.6	466.7	467.5	469.0	470.4	472.7	473.8
15°	443.5	441.8	439.0	439.0	437.3	437.9	439.5	440.1	443.0	446.0	449.8
17.5°	418.3	414.0	411.0	407.3	404.5	406.7	408.7	410.0	412.4	417.2	419.7
20°	394.5	386.0	380.1	375.3	372.1	373.6	376.1	377.8	379.8	380.9	381.8
22.5°	371.0	361.4	353.1	347.3	342.1	343.5	342.4	341.6	343.0	339.3	339.0
25°	350.6	339.3	328.3	321.1	314.9	312.9	307.0	305.6	301.6	298.5	296.3
27.5°	335.9	321.1	309.0	300.7	290.9	283.5	275.8	268.2	263.9	258.9	256.3
30°	324.3	308.7	294.2	280.4	267.4	256.0	245.9	235.9	229.1	221.8	216.9
32.5°	313.5	299.1	281.5	262.5	244.9	232.2	218.9	207.6	196.8	187.2	180.1
35°	306.1	290.0	267.6	244.4	224.6	209.6	195.4	179.3	166.2	153.8	146.1
37.5°	302.1	282.3	254.9	229.1	207.1	190.0	172.5	153.8	138.0	126.3	114.7
40°	299.1	274.7	243.5	215.5	192.3	171.9	151.5	129.4	111.9	99.7	90.6
42.5°	295.6	266.2	233.7	204.7	179.0	155.2	130.6	107.1	90.3	81.9	77.9
45°	292.0	258.9	224.3	194.6	166.0	137.1	108.7	87.0	77.0	74.2	74.2
47.5°	291.2	254.0	217.5	184.7	151.3	116.1	88.7	75.1	72.2	72.7	74.0
50°	294.5	252.7	211.5	173.0	131.7	94.0	75.1	70.5	71.1	72.7	74.5
52.5°	302.8	253.8	205.3	156.9	108.5	77.6	69.4	69.1	70.8	73.4	75.1
55°	316.7	253.8	193.4	132.8	86.7	69.7	67.4	68.6	70.8	73.0	74.5
57.5°	346.3	251.2	172.5	106.2	72.5	66.9	66.9	68.3	70.2	72.5	73.7
60°	381.8	247.8	143.0	82.1	65.4	64.6	66.5	68.3	70.0	71.9	73.0
62.5°	384.0	239.1	113.3	68.0	61.8	63.2	66.2	68.6	69.1	70.5	71.9
65°	352.8	208.5	90.0	60.9	60.0	62.3	65.4	67.2	67.4	68.0	69.4
67.5°	309.0	170.0	72.7	57.5	58.3	60.9	62.6	64.0	64.8	66.2	66.5
70°	253.8	136.5	62.3	54.0	55.0	57.8	59.2	60.7	62.3	64.0	63.2
72.5°	179.8	106.2	54.7	50.4	51.5	54.0	55.8	56.9	58.3	60.0	58.9
75°	76.5	74.2	47.3	45.6	47.3	49.0	50.7	52.4	53.8	54.7	54.7
77.5°	39.1	43.6	40.7	40.7	42.0	43.6	45.0	46.7	47.5	48.5	49.6
80°	33.1	33.7	34.2	35.4	36.6	38.2	39.6	41.0	41.3	41.7	42.2
82.5°	27.4	28.6	29.2	30.9	31.7	32.3	33.1	33.1	33.7	33.7	32.8
85°	19.8	21.2	22.0	22.4	22.0	22.4	22.7	23.3	24.7	24.7	23.5
87.5°	5.7	5.4	6.8	7.1	7.6	8.7	10.0	11.9	12.5	13.0	13.0
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):

	165°	170°	175°	180°
0°	535.5	535.5	535.5	535.5
2.5°	528.5	529.0	527.9	528.2
5°	520.6	521.7	520.3	522.0
7.5°	510.3	512.0	511.7	511.4
10°	495.6	497.9	497.9	498.7
12.5°	476.9	478.3	479.4	480.0
15°	451.7	454.2	455.7	455.7
17.5°	421.4	423.1	424.0	422.8
20°	382.9	382.3	382.6	379.8
22.5°	338.4	339.3	336.7	337.3
25°	294.8	293.4	294.5	292.8
27.5°	252.7	252.9	249.8	251.2
30°	212.4	211.0	207.1	209.0
32.5°	173.6	170.0	165.7	163.2
35°	137.1	131.4	129.4	128.6
37.5°	107.6	101.4	99.4	97.1
40°	85.5	83.3	82.4	83.0
42.5°	76.7	76.7	77.3	77.6
45°	74.5	75.3	76.2	76.5
47.5°	74.8	75.6	76.7	77.0
50°	75.3	76.2	77.0	77.3
52.5°	75.6	75.6	76.2	76.5
55°	75.1	74.8	75.1	75.3
57.5°	74.0	73.4	73.7	74.5
60°	73.4	72.5	73.0	73.7
62.5°	71.9	71.6	72.2	72.5
65°	68.8	69.1	70.0	70.0
67.5°	66.0	66.2	66.5	66.9
70°	62.6	62.9	63.4	63.7
72.5°	58.6	59.7	60.7	61.8
75°	55.5	56.7	58.3	59.4
77.5°	50.1	51.0	52.9	54.4
80°	42.5	42.2	42.5	43.3
82.5°	32.6	32.6	32.3	32.0
85°	23.0	22.7	21.8	21.8
87.5°	12.5	12.2	11.9	11.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)