

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: P152141

Luminaire Tested: **VXS-E01-LED-E1-SL4-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P152141
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: VXS-E01-LED-E1-SL4-7050
Description: VISION SITE SMALL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3031.2 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
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

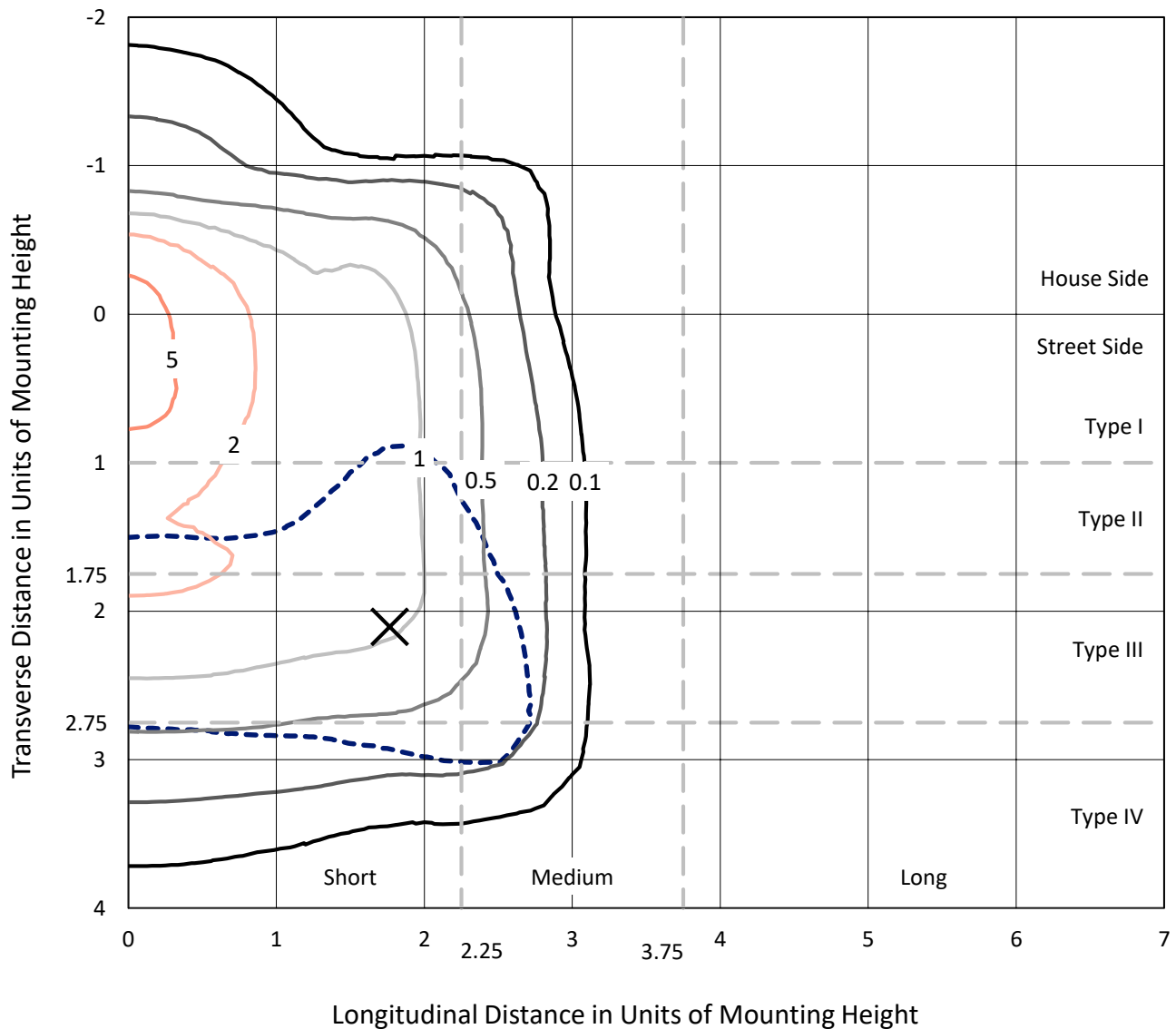


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

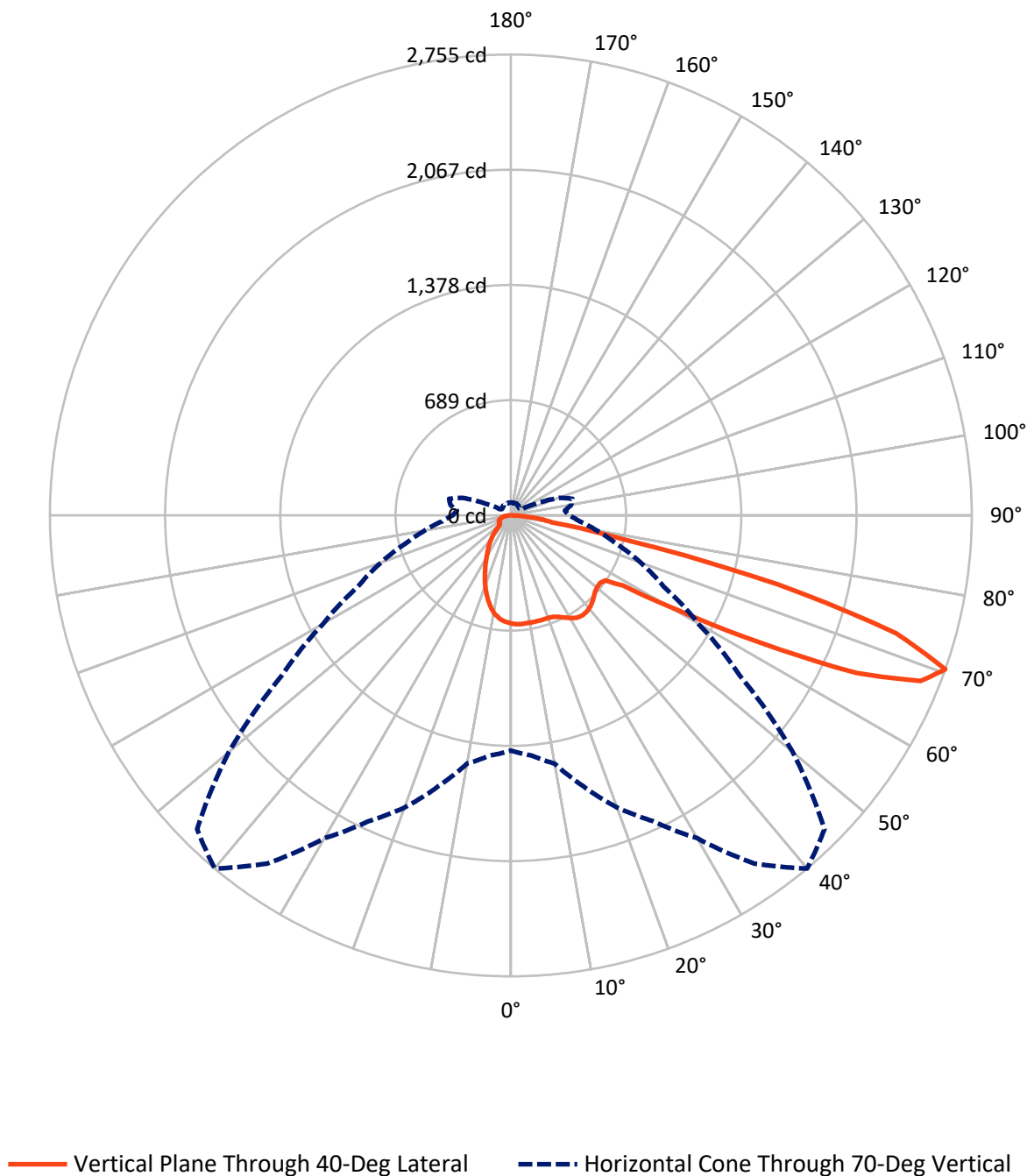


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	629.2	0.0	629.2
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	2402.0	0.0	2402.0
	% Fixture	79.2	0.0	79.2
Total	Lumens	3031.2	0.0	3031.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	2.0
10°-20°	165.4	5.5
20°-30°	244.9	8.1
30°-40°	309.5	10.2
40°-50°	350.0	11.5
50°-60°	498.0	16.4
60°-70°	927.5	30.6
70°-80°	425.1	14.0
80°-90°	50.5	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°	3031.2	100.0
0°-180°	3031.2	100.0

Coefficient of Utilization



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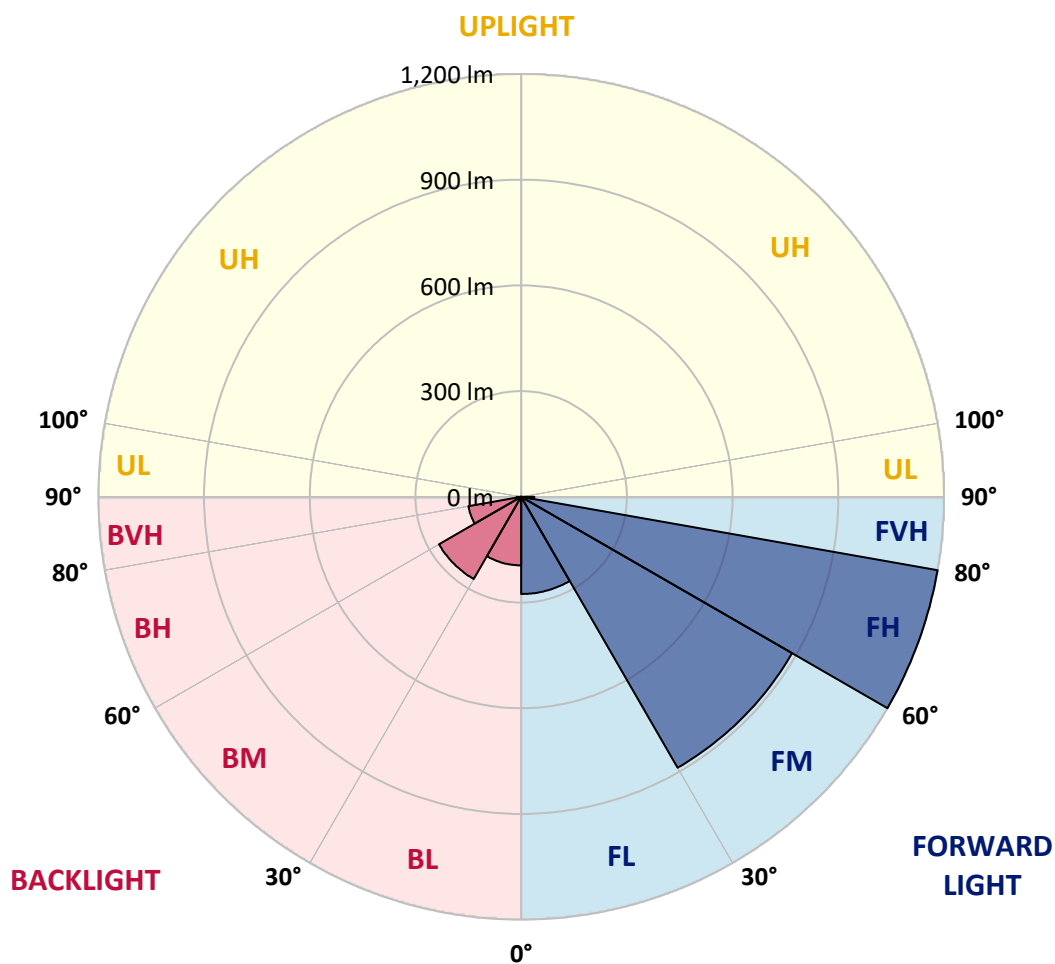
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	276.0	9.1			
FM	(30°-60°)	888.0	29.3			
FH	(60°-80°)	1200.5	39.6			G1/1800
FVH	(80°-90°)	37.4	1.2			G1/100
BL	(0°-30°)	194.7	6.4	B1/500		
BM	(30°-60°)	269.4	8.9	B1/1000		
BH	(60°-80°)	152.1	5.0	B1/500		G1/500
BVH	(80°-90°)	13.0	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°	646.8	646.8	646.8	646.8	646.8	646.8	646.8	646.8	646.8	646.8	646.8
2.5°	656.7	658.4	656.4	656.1	656.1	655.6	653.7	653.3	650.6	650.9	651.6
5°	661.5	662.2	660.8	660.5	659.8	658.4	656.7	654.6	652.6	650.6	648.8
7.5°	666.3	665.6	664.6	664.6	663.5	661.5	658.0	655.3	650.9	648.5	645.4
10°	673.2	672.1	670.8	670.1	668.3	665.3	660.5	656.7	651.2	646.4	641.3
12.5°	679.6	679.3	677.2	676.2	673.5	670.4	664.6	658.8	651.6	644.0	637.2
15°	691.3	689.8	687.9	685.8	681.3	677.2	668.3	661.5	651.2	641.3	630.7
17.5°	711.4	709.0	706.9	702.6	697.1	689.8	676.9	665.3	651.2	636.9	624.9
20°	748.4	743.2	740.5	734.7	725.1	712.1	691.9	673.2	652.2	633.8	617.7
22.5°	790.1	786.6	782.9	779.2	764.1	745.3	717.9	689.8	658.4	632.4	611.9
25°	837.0	832.5	830.5	823.9	809.9	788.4	751.1	712.1	672.4	637.9	611.9
27.5°	878.7	877.3	877.0	869.4	856.1	830.8	786.6	739.8	691.6	649.2	617.0
30°	916.7	915.3	914.6	910.5	895.1	865.0	817.1	764.5	712.4	664.9	626.6
32.5°	957.0	952.5	950.5	942.7	925.2	889.9	835.2	780.5	728.9	680.3	637.2
35°	989.8	986.1	982.0	970.7	946.1	904.4	843.1	786.0	735.3	688.8	642.7
37.5°	1013.8	1010.1	1004.2	989.8	959.4	909.1	842.8	784.2	733.0	687.5	643.7
40°	1024.4	1020.6	1014.5	996.4	961.8	906.4	836.3	776.4	725.8	680.3	639.6
42.5°	1020.3	1017.5	1009.6	992.2	954.3	894.1	823.3	761.8	712.1	668.7	630.4
45°	1004.6	1002.5	995.0	976.5	937.2	874.2	804.1	743.2	695.8	654.3	618.0
47.5°	980.9	980.3	972.7	954.6	915.6	854.4	784.2	725.1	679.3	640.3	607.8
50°	954.9	951.5	947.8	931.0	895.4	837.3	769.9	713.8	670.1	635.1	603.3
52.5°	938.5	937.5	934.1	919.1	884.9	827.4	763.4	709.7	669.3	634.1	600.9
55°	1084.2	1086.6	1055.1	989.8	932.4	854.7	782.9	730.6	686.1	650.6	626.2
57.5°	1603.8	1593.2	1539.2	1409.5	1263.1	1069.8	930.7	846.2	791.1	797.3	809.6
60°	1868.5	1866.5	1856.6	1806.3	1708.8	1561.8	1398.5	1211.5	1152.0	1158.4	1163.2
62.5°	1986.8	1989.9	1997.5	1978.7	1953.1	1910.3	1828.9	1753.6	1673.9	1644.1	1564.5
65°	2041.7	2047.0	2064.1	2074.8	2084.7	2092.2	2124.4	2212.6	2270.8	2162.0	1908.9
67.5°	1928.4	1954.7	2011.2	2066.2	2115.4	2185.6	2294.4	2499.3	2641.9	2508.2	2141.1
70°	1405.8	1441.7	1506.3	1676.7	1858.7	2017.6	2228.4	2540.3	2755.4	2652.1	2198.7
72.5°	881.5	891.3	920.1	982.7	1117.7	1322.0	1690.4	2158.2	2406.5	2324.1	1858.2
75°	559.3	562.7	561.7	576.0	598.9	643.4	789.1	1274.7	1648.6	1520.0	1035.6
77.5°	333.2	338.2	340.3	344.8	355.8	371.4	383.4	433.7	691.3	671.1	375.9
80°	279.1	283.2	279.8	278.8	271.9	267.2	273.0	267.2	248.0	238.8	219.9
82.5°	147.8	147.5	146.4	156.3	176.5	192.2	204.1	201.5	182.3	155.2	131.7
85°	81.0	83.8	83.8	87.3	84.1	84.5	87.3	92.0	85.2	71.2	58.1
87.5°	6.8	10.6	8.6	10.6	14.4	10.3	9.9	9.9	8.6	6.1	5.5
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°	646.8	646.8	646.8	646.8	646.8	646.8	646.8	646.8	646.8	646.8	646.8
2.5°	649.8	649.2	647.8	646.8	646.8	645.1	644.0	643.4	643.0	641.7	641.7
5°	647.8	645.4	643.0	641.3	640.3	638.5	635.9	634.5	632.7	631.4	630.7
7.5°	643.4	639.0	635.1	632.4	629.0	626.2	622.8	619.8	616.7	615.3	614.6
10°	636.5	630.7	624.9	619.8	615.0	610.2	605.7	601.3	597.5	594.8	592.0
12.5°	630.1	621.1	613.6	606.1	598.5	592.7	586.6	580.1	574.6	569.5	568.1
15°	621.1	610.9	601.3	592.0	582.8	573.3	565.7	558.5	549.6	543.8	539.4
17.5°	613.0	600.6	589.0	578.0	566.7	556.8	545.6	536.0	527.0	518.1	511.7
20°	604.0	590.7	578.3	566.1	553.8	541.1	528.1	515.8	504.9	494.2	483.6
22.5°	596.2	582.5	570.5	557.2	543.5	529.1	514.1	498.7	486.0	472.3	460.0
25°	591.4	576.4	564.0	551.0	536.0	520.2	503.1	485.0	469.6	453.9	439.2
27.5°	591.4	571.9	559.3	546.2	530.9	514.1	495.2	475.4	458.0	440.5	422.4
30°	596.5	572.5	555.4	541.8	526.0	507.9	487.0	466.2	447.0	426.5	409.1
32.5°	601.3	573.9	552.7	535.3	517.2	499.4	478.1	456.0	434.7	415.2	396.8
35°	604.4	573.9	547.6	525.4	504.9	487.4	466.5	444.4	422.8	403.6	386.5
37.5°	604.8	571.2	539.4	514.1	492.5	474.4	454.6	433.7	413.2	395.4	381.0
40°	601.3	565.7	531.2	502.1	479.5	461.0	442.9	424.1	405.7	391.0	378.7
42.5°	595.1	559.9	523.3	492.5	468.9	449.7	433.1	416.9	400.8	388.2	377.9
45°	585.9	552.0	516.2	486.7	463.4	443.3	426.8	413.5	399.8	389.2	379.0
47.5°	577.7	549.3	518.5	490.5	466.2	445.3	428.6	417.3	406.6	399.5	385.5
50°	576.0	548.0	519.6	493.6	468.9	447.8	433.1	427.2	424.1	419.7	398.1
52.5°	571.2	547.6	527.0	512.7	497.0	487.0	471.7	477.1	473.7	458.0	419.0
55°	621.5	628.3	647.5	674.8	700.1	706.0	704.2	697.7	663.2	570.5	469.2
57.5°	854.4	893.1	929.3	945.4	943.3	925.2	912.2	885.9	836.0	723.1	568.5
60°	1177.9	1184.1	1165.0	1136.6	1088.7	1048.7	1005.9	956.7	884.1	773.7	629.3
62.5°	1475.9	1393.2	1308.0	1227.9	1155.0	1091.4	1031.9	963.2	868.8	753.5	621.5
65°	1686.2	1511.1	1376.7	1261.8	1158.9	1069.8	995.6	906.4	800.0	696.1	576.0
67.5°	1794.6	1526.1	1319.9	1159.8	1013.8	890.7	791.8	705.0	625.9	580.4	504.1
70°	1673.6	1295.3	1008.0	827.0	652.2	523.0	413.2	346.8	323.9	367.0	381.8
72.5°	1247.0	843.1	599.6	463.8	355.3	283.2	217.2	170.7	138.9	145.7	189.1
75°	589.6	363.9	257.2	195.6	155.6	128.9	105.4	96.5	80.7	67.0	62.9
77.5°	229.5	167.3	138.1	101.2	71.8	57.8	49.2	47.6	48.6	47.2	46.5
80°	174.8	118.3	74.2	54.4	46.8	41.3	36.6	35.2	36.0	37.6	39.4
82.5°	97.5	60.9	45.2	39.4	35.2	30.1	27.4	25.3	25.7	27.7	31.5
85°	37.6	29.4	27.0	26.0	24.2	19.5	16.8	17.1	19.5	23.2	23.2
87.5°	4.1	4.1	5.5	4.1	4.1	4.1	3.7	4.5	4.8	6.1	7.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	646.8	646.8	646.8	646.8	646.8	646.8	646.8	646.8	646.8	646.8	646.8
2.5°	640.9	640.9	640.9	640.3	640.6	639.3	639.3	638.2	639.9	639.0	638.5
5°	631.1	630.7	629.3	629.3	629.3	629.3	630.4	627.7	629.6	629.6	628.7
7.5°	614.3	614.3	610.6	612.5	611.9	613.0	614.3	613.0	615.0	616.4	615.3
10°	591.1	591.1	588.0	590.4	589.3	591.7	594.1	592.7	594.1	596.2	596.9
12.5°	565.4	564.0	561.2	562.3	562.3	563.6	564.7	566.4	568.1	570.9	572.2
15°	535.6	533.6	530.2	530.2	528.1	528.8	530.9	531.5	534.9	538.8	543.1
17.5°	505.2	500.1	496.3	491.8	488.4	491.2	493.6	495.2	498.0	503.8	506.9
20°	476.5	466.2	459.0	453.2	449.4	451.2	454.2	456.3	458.7	460.0	461.0
22.5°	448.1	436.5	426.5	419.4	413.2	414.9	413.5	412.5	414.2	409.7	409.4
25°	423.4	409.7	396.4	387.9	380.3	377.9	370.8	369.0	364.2	360.5	357.7
27.5°	405.7	387.9	373.2	363.2	351.3	342.4	333.2	323.9	318.8	312.6	309.5
30°	391.6	372.8	355.3	338.7	322.9	309.2	296.9	284.9	276.7	267.8	262.0
32.5°	378.7	361.1	340.0	317.1	295.9	280.5	264.4	250.7	237.7	226.1	217.5
35°	369.7	350.3	323.2	295.1	271.2	253.1	236.0	216.5	200.7	185.7	176.5
37.5°	365.0	341.0	307.9	276.7	250.1	229.5	208.3	185.7	166.5	152.5	138.5
40°	361.1	331.8	294.2	260.3	232.2	207.6	183.0	156.3	135.1	120.4	109.4
42.5°	357.1	321.6	282.2	247.3	216.2	187.5	157.7	129.3	109.1	98.9	94.1
45°	352.6	312.6	270.9	235.0	200.4	165.6	131.3	105.0	93.1	89.6	89.6
47.5°	351.6	306.8	262.7	223.0	182.7	140.2	107.0	90.7	87.3	87.9	89.2
50°	355.8	305.1	255.5	209.0	159.1	113.6	90.7	85.2	85.8	87.9	89.9
52.5°	365.6	306.4	248.0	189.5	131.0	93.7	83.8	83.4	85.5	88.6	90.7
55°	382.4	306.4	233.6	160.4	104.7	84.1	81.5	82.8	85.5	88.3	89.9
57.5°	418.3	303.4	208.3	128.3	87.6	80.7	80.7	82.4	84.9	87.6	88.9
60°	461.0	299.3	172.7	99.2	79.0	78.0	80.4	82.4	84.5	86.8	88.3
62.5°	463.8	288.7	136.8	82.1	74.6	76.3	80.0	82.8	83.4	85.2	86.8
65°	426.2	251.7	108.8	73.6	72.5	75.2	79.0	81.0	81.5	82.1	83.8
67.5°	373.2	205.2	87.9	69.4	70.5	73.6	75.5	77.3	78.3	80.0	80.4
70°	306.4	164.9	75.2	65.3	66.3	69.7	71.5	73.2	75.2	77.3	76.3
72.5°	217.2	128.3	66.0	60.9	62.3	65.3	67.4	68.7	70.5	72.5	71.2
75°	92.3	89.6	57.1	55.0	57.1	59.2	61.2	63.3	65.0	66.0	66.0
77.5°	47.2	52.6	49.2	49.2	50.6	52.6	54.4	56.5	57.5	58.4	59.9
80°	40.0	40.7	41.3	42.8	44.1	46.2	47.9	49.6	49.9	50.3	51.0
82.5°	33.2	34.5	35.2	37.3	38.3	39.0	40.0	40.0	40.7	40.7	39.7
85°	23.9	25.7	26.6	27.0	26.6	27.0	27.4	28.1	29.7	29.7	28.4
87.5°	6.8	6.5	8.2	8.6	9.2	10.6	12.0	14.4	15.0	15.8	15.8
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):

	165°	170°	175°	180°
0°	646.8	646.8	646.8	646.8
2.5°	638.2	639.0	637.5	637.9
5°	628.7	630.1	628.3	630.4
7.5°	616.4	618.4	618.0	617.7
10°	598.5	601.3	601.3	602.3
12.5°	576.0	577.7	579.1	579.8
15°	545.6	548.6	550.4	550.4
17.5°	508.9	511.0	512.0	510.7
20°	462.4	461.8	462.1	458.7
22.5°	408.7	409.7	406.6	407.4
25°	356.1	354.3	355.8	353.7
27.5°	305.1	305.4	301.7	303.4
30°	256.5	254.8	250.1	252.4
32.5°	209.6	205.2	200.1	197.0
35°	165.6	158.7	156.3	155.2
37.5°	129.9	122.5	120.1	117.3
40°	103.3	100.5	99.5	100.2
42.5°	92.6	92.6	93.4	93.7
45°	89.9	91.0	92.0	92.3
47.5°	90.3	91.3	92.6	93.1
50°	91.0	92.0	93.1	93.4
52.5°	91.3	91.3	92.0	92.3
55°	90.7	90.3	90.7	91.0
57.5°	89.2	88.6	88.9	89.9
60°	88.6	87.6	88.3	88.9
62.5°	86.8	86.5	87.3	87.6
65°	83.1	83.4	84.5	84.5
67.5°	79.7	80.0	80.4	80.7
70°	75.5	76.0	76.6	77.0
72.5°	70.8	72.1	73.2	74.6
75°	67.0	68.4	70.5	71.8
77.5°	60.5	61.6	63.9	65.7
80°	51.3	51.0	51.3	52.3
82.5°	39.4	39.4	39.0	38.7
85°	27.7	27.4	26.3	26.3
87.5°	15.0	14.7	14.4	13.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)