

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: P154309

Luminaire Tested: **VXM-E01-LED-E1-T2-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P154309
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXM-E01-LED-E1-T2-7030
Description: VISION SITE MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2798.4 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-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

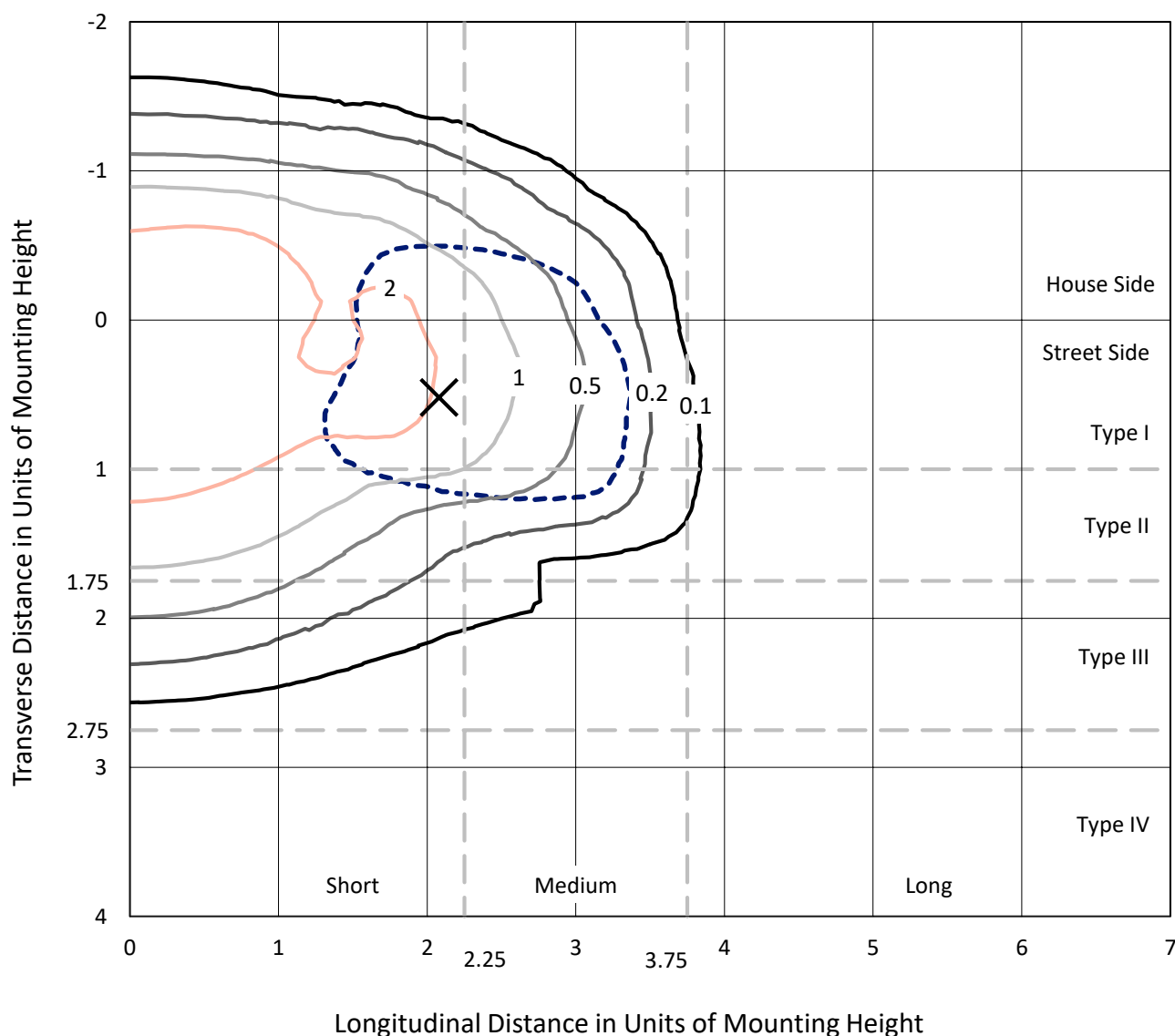


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

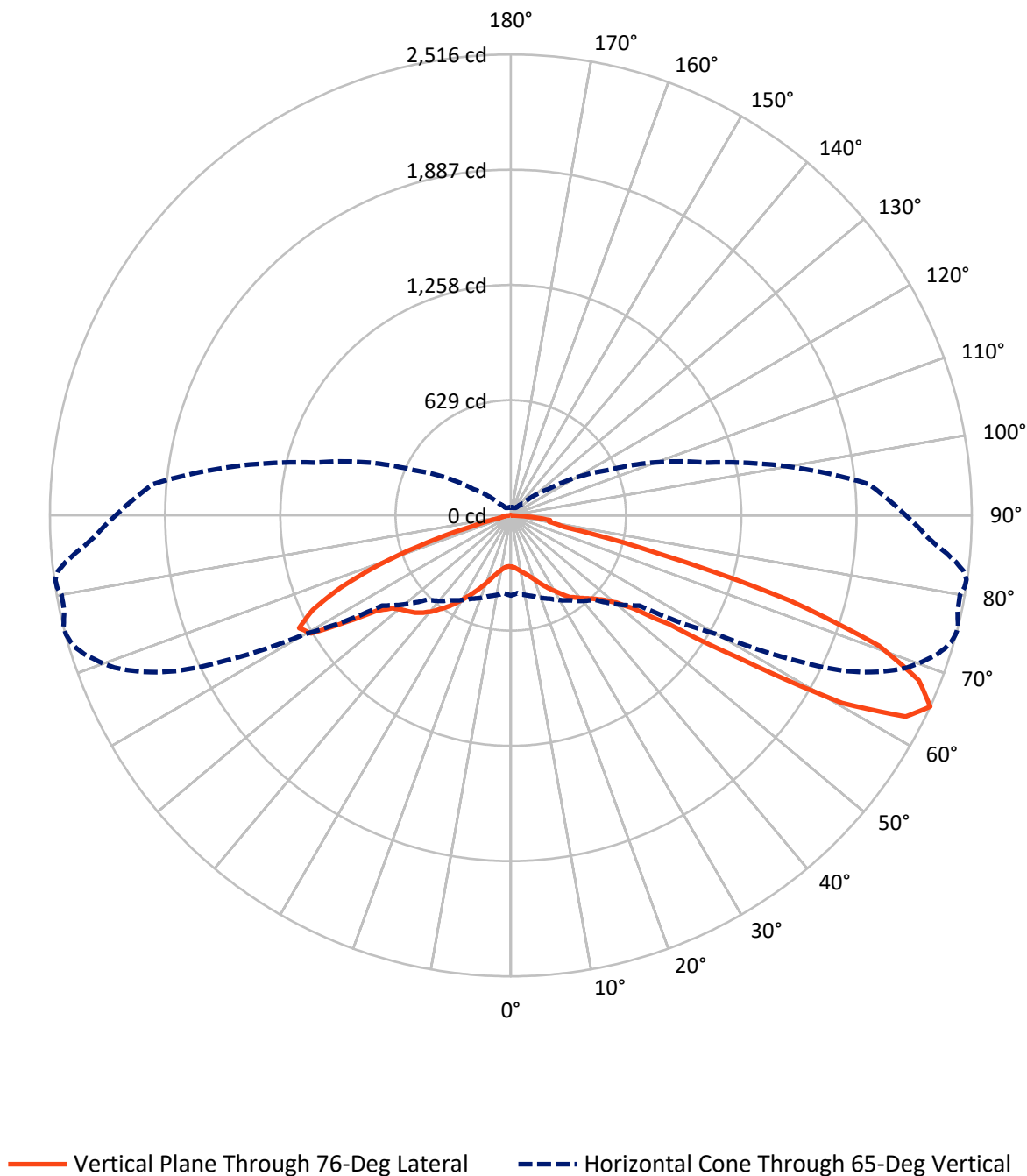


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	979.9	0.0	979.9
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	1818.5	0.0	1818.5
	% Fixture	65.0	0.0	65.0
Total	Lumens	2798.4	0.0	2798.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.0	1.0
10°-20°	96.2	3.4
20°-30°	189.1	6.8
30°-40°	314.1	11.2
40°-50°	461.6	16.5
50°-60°	639.1	22.8
60°-70°	762.8	27.3
70°-80°	269.8	9.6
80°-90°	37.7	1.3
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°	2798.4	100.0
0°-180°	2798.4	100.0

Coefficient of Utilization



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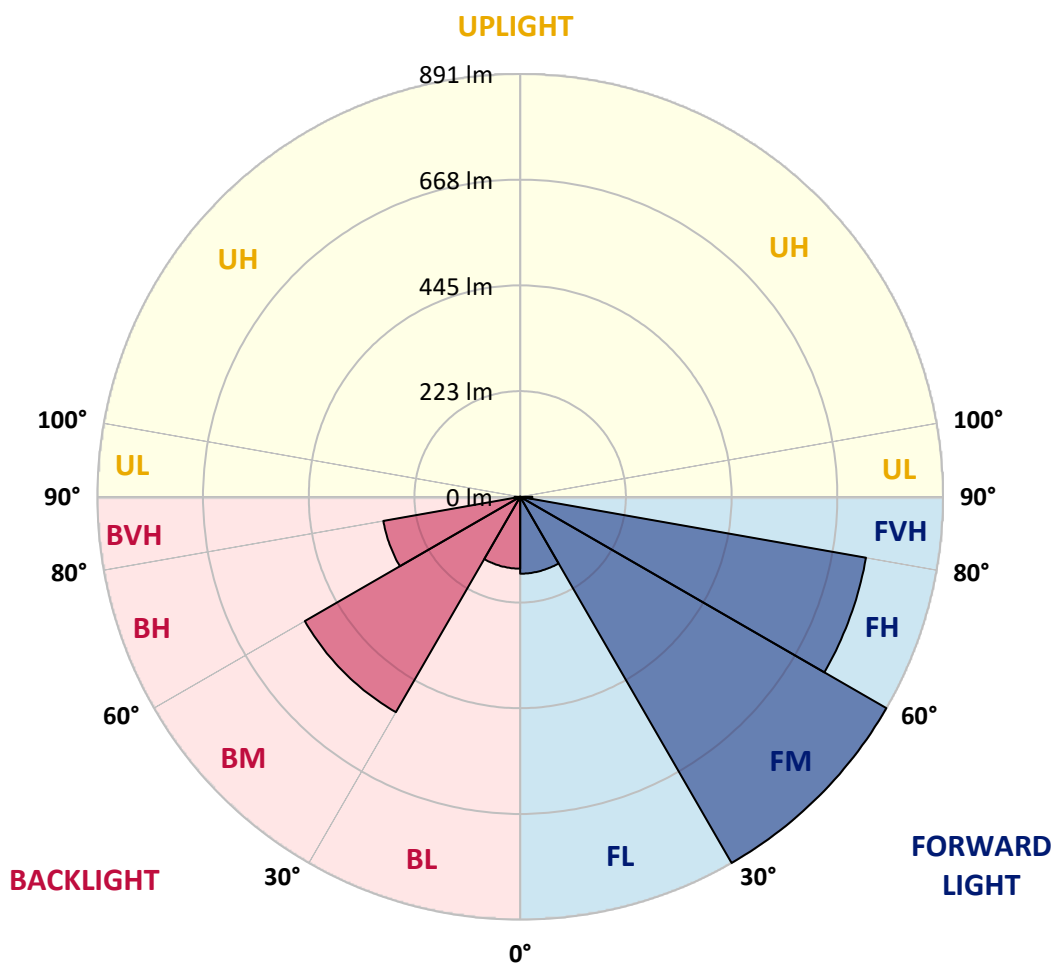
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	161.9	5.8			
FM	(30°-60°)	890.9	31.8			
FH	(60°-80°)	739.9	26.4			G1/1800
FVH	(80°-90°)	25.8	0.9			G1/100
BL	(0°-30°)	151.4	5.4	B1/500		
BM	(30°-60°)	523.9	18.7	B1/1000		
BH	(60°-80°)	292.7	10.5	B1/500		G1/500
BVH	(80°-90°)	11.9	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8
2.5°	292.0	292.3	291.7	291.4	290.4	288.9	287.7	286.5	286.5	286.5	285.6
5°	304.8	305.4	304.1	303.2	300.5	299.0	296.8	295.3	294.7	294.4	293.5
7.5°	320.9	320.0	318.2	317.5	315.4	312.1	308.1	305.1	305.1	304.8	305.1
10°	337.0	334.6	333.7	332.8	329.4	325.2	320.6	317.2	316.9	316.6	315.7
12.5°	353.2	352.2	351.3	348.0	344.6	337.9	332.8	329.4	329.1	329.4	328.2
15°	374.5	372.3	371.4	365.6	358.3	351.0	344.6	341.6	340.7	341.0	340.1
17.5°	390.9	390.9	388.8	382.4	373.0	362.9	356.2	354.4	354.1	354.1	354.4
20°	404.0	403.7	401.6	396.4	385.1	375.1	371.7	371.1	370.8	370.8	371.7
22.5°	411.3	410.7	409.8	404.0	395.2	388.5	388.8	390.6	391.2	391.8	393.0
25°	415.0	414.1	413.7	409.8	403.4	402.5	408.0	412.8	414.1	415.3	416.8
27.5°	421.1	419.5	420.1	418.6	417.1	419.8	431.1	436.3	437.2	438.7	439.6
30°	437.8	437.2	439.6	440.2	441.5	445.4	455.8	460.6	462.8	462.8	467.0
32.5°	469.8	470.1	470.7	477.1	479.2	481.9	487.4	491.4	491.7	492.0	495.9
35°	512.7	514.5	519.7	525.2	530.4	530.0	526.7	528.8	527.3	529.1	529.4
37.5°	566.9	564.5	572.1	584.5	592.5	590.3	575.4	565.7	568.4	567.2	566.3
40°	608.6	611.3	625.9	642.4	648.5	655.2	635.7	618.9	616.5	611.9	609.2
42.5°	666.1	666.4	678.3	690.5	708.2	722.8	710.3	686.2	678.9	673.4	661.6
45°	719.4	718.5	728.2	743.2	764.2	785.2	789.7	763.6	760.8	751.1	735.6
47.5°	755.0	753.8	760.5	780.0	814.1	848.5	867.4	859.5	854.3	850.3	826.0
50°	779.1	776.7	784.3	805.0	843.0	896.0	945.3	952.0	949.9	949.9	934.4
52.5°	797.1	797.1	802.5	819.3	857.9	924.0	1012.3	1046.1	1048.8	1051.9	1051.0
55°	787.0	788.5	802.2	826.6	867.4	943.5	1067.7	1141.7	1156.9	1169.7	1184.3
57.5°	752.6	757.8	776.0	815.9	869.8	958.1	1129.2	1275.6	1318.6	1355.7	1413.6
60°	702.4	709.1	735.6	786.4	851.9	934.4	1150.8	1388.9	1457.1	1538.1	1689.1
62.5°	616.2	622.9	648.8	699.6	755.6	843.3	1061.3	1405.6	1514.6	1629.4	1857.8
65°	436.6	425.9	455.8	501.4	565.7	650.6	857.6	1293.3	1450.1	1605.7	1887.6
67.5°	243.3	242.3	260.6	294.7	356.2	447.5	590.9	991.9	1136.2	1312.5	1658.6
70°	167.8	169.6	181.1	218.0	268.8	347.7	421.1	622.9	726.7	846.4	1186.7
72.5°	117.8	121.8	128.2	150.1	202.2	292.9	430.2	372.3	424.1	505.7	713.6
75°	69.1	71.9	76.4	87.1	115.1	195.8	445.4	327.3	327.3	346.5	431.7
77.5°	42.6	42.6	45.4	49.6	61.2	95.9	317.2	367.8	357.4	346.5	347.4
80°	21.9	23.4	27.4	29.5	34.1	43.8	142.5	343.1	376.3	398.5	383.0
82.5°	10.0	11.3	16.7	18.0	19.8	23.1	49.0	195.2	261.5	344.3	430.2
85°	5.2	5.2	8.8	11.0	11.9	10.7	18.0	78.9	119.3	182.1	285.0
87.5°	0.9	0.9	1.5	1.8	2.7	2.4	3.0	4.6	7.6	8.2	8.5
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8
2.5°	285.3	285.6	285.3	285.0	284.4	284.4	284.4	284.1	284.1	284.1	283.7
5°	293.5	292.3	292.6	292.0	291.7	291.4	291.7	291.1	290.4	290.7	290.4
7.5°	303.8	303.2	302.0	302.0	301.7	301.1	301.1	300.2	299.9	299.3	299.0
10°	315.4	313.9	314.5	313.9	314.2	313.0	312.4	311.8	311.1	311.1	311.5
12.5°	327.3	327.0	326.1	325.5	325.5	324.5	324.8	324.5	323.6	323.3	322.4
15°	339.5	339.5	338.5	338.9	338.5	337.9	337.3	337.3	336.7	336.1	336.4
17.5°	353.8	353.8	353.8	353.8	354.1	353.2	353.5	352.9	352.2	353.5	353.5
20°	372.3	373.6	373.6	373.3	374.8	373.9	373.6	375.1	373.6	375.7	375.4
22.5°	393.7	394.9	394.9	396.1	396.4	397.3	397.9	397.3	398.5	399.7	399.7
25°	417.4	418.6	419.5	421.4	422.3	421.7	422.0	423.5	424.1	425.3	426.5
27.5°	442.4	442.7	443.9	446.0	447.5	448.2	448.5	450.9	451.2	451.8	453.0
30°	466.7	469.8	469.2	471.9	472.8	473.7	475.6	476.5	478.6	479.8	479.8
32.5°	495.3	494.7	497.2	499.3	500.8	502.3	503.9	505.1	506.3	506.9	510.0
35°	531.0	532.2	532.2	532.5	536.1	536.4	537.7	540.4	541.3	543.1	544.4
37.5°	566.3	564.1	563.8	563.8	562.6	563.5	563.8	564.1	565.4	565.7	566.9
40°	605.9	603.1	600.7	599.2	596.7	593.4	592.8	591.2	592.2	591.9	592.2
42.5°	660.0	652.4	646.7	642.4	637.5	633.9	631.1	627.2	624.4	621.1	620.5
45°	729.2	714.8	705.1	698.1	691.1	681.1	675.3	669.2	663.7	658.2	653.7
47.5°	819.9	804.7	789.1	776.3	765.4	749.3	732.8	723.7	713.0	703.6	696.9
50°	926.7	908.5	901.2	883.2	869.5	845.2	824.8	809.8	788.5	774.2	761.7
52.5°	1036.0	1031.5	1027.5	1012.3	996.2	982.2	964.2	938.0	916.4	900.0	874.4
55°	1184.9	1187.1	1185.5	1177.3	1171.5	1158.1	1150.8	1128.0	1118.2	1094.5	1067.7
57.5°	1435.5	1452.5	1474.1	1482.7	1494.2	1483.3	1496.1	1511.6	1472.9	1486.3	1462.3
60°	1755.5	1833.7	1880.3	1937.5	1975.0	2027.3	2036.8	2050.5	2046.5	2054.1	2069.7
62.5°	1950.9	2043.8	2133.0	2197.8	2267.2	2305.6	2351.9	2384.1	2417.6	2440.2	2433.8
65°	2008.5	2104.1	2185.0	2256.0	2318.1	2365.0	2407.9	2448.4	2479.1	2500.8	2513.5
67.5°	1797.2	1922.0	2007.2	2090.4	2170.4	2219.7	2255.7	2294.9	2340.0	2377.5	2384.8
70°	1352.4	1539.6	1660.5	1760.0	1854.1	1920.5	1970.7	2007.2	2042.3	2069.0	2098.3
72.5°	845.8	1009.6	1147.8	1276.9	1376.7	1468.1	1510.4	1591.4	1580.7	1601.1	1623.0
75°	506.9	586.7	662.8	753.8	806.2	882.3	896.0	909.4	902.4	879.6	896.6
77.5°	352.2	365.3	364.7	359.6	354.1	340.7	323.3	313.9	307.5	298.4	302.0
80°	354.4	326.1	282.8	237.8	196.4	169.0	158.0	158.0	169.3	185.4	201.5
82.5°	423.5	393.3	350.7	293.5	232.6	189.4	160.4	148.9	151.0	167.4	188.2
85°	285.6	292.3	256.3	234.4	185.7	144.6	121.2	98.3	87.1	89.8	101.7
87.5°	10.4	12.5	4.6	6.1	4.3	3.7	3.7	4.0	2.7	3.3	3.0
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8
2.5°	283.4	283.1	283.1	282.5	282.5	282.2	282.2	281.9	281.6	281.6	281.3
5°	290.1	289.8	289.2	288.9	288.3	288.3	288.0	287.4	287.4	286.8	286.5
7.5°	299.6	299.0	298.4	298.1	297.8	296.8	296.8	296.2	296.2	295.6	295.3
10°	310.8	310.2	309.6	309.9	309.0	308.7	308.1	308.1	307.2	306.9	306.9
12.5°	323.0	322.7	322.7	321.8	321.5	321.2	320.0	320.0	320.0	319.4	319.7
15°	336.1	336.4	335.5	336.4	336.1	335.2	335.2	335.2	334.0	335.5	334.3
17.5°	353.8	354.7	354.1	354.4	353.8	353.8	354.1	353.8	354.4	354.4	356.2
20°	375.7	376.0	377.5	376.9	376.9	376.6	377.2	377.5	378.7	378.1	379.3
22.5°	399.7	401.3	401.6	402.8	402.8	402.5	403.1	404.3	404.9	405.8	405.5
25°	427.1	428.1	429.3	427.8	430.2	430.2	430.8	432.3	432.6	432.6	434.8
27.5°	452.7	455.2	455.5	457.0	456.1	456.7	458.8	459.7	460.9	460.9	461.5
30°	481.6	482.6	483.2	485.0	484.7	485.0	485.3	486.8	486.8	488.3	489.9
32.5°	511.5	512.1	512.7	514.5	515.1	516.3	515.7	517.0	518.5	518.8	519.7
35°	547.1	547.7	548.3	551.1	551.4	553.5	554.1	553.5	555.9	554.4	555.9
37.5°	567.8	570.5	571.1	573.0	572.4	573.9	574.8	576.0	576.6	577.8	580.3
40°	593.1	594.0	595.8	596.7	597.9	598.2	599.5	600.4	601.3	604.0	606.8
42.5°	618.9	620.2	621.1	622.3	623.8	625.0	625.9	628.7	629.3	631.1	636.3
45°	650.3	649.7	650.0	650.3	650.9	652.4	655.2	657.9	659.7	664.0	668.3
47.5°	689.3	685.3	683.8	681.4	682.0	685.3	685.9	690.5	694.1	698.1	703.3
50°	748.3	737.7	731.3	724.9	724.3	726.1	728.5	733.4	737.7	742.9	750.2
52.5°	847.6	827.2	814.4	796.7	791.9	791.0	789.1	791.9	793.1	800.1	813.8
55°	1048.5	1010.8	986.4	959.0	933.4	925.8	911.2	914.3	911.2	915.5	935.9
57.5°	1468.1	1437.9	1414.2	1379.2	1335.3	1288.7	1277.2	1229.4	1238.8	1266.2	1248.5
60°	2077.3	2066.3	2049.3	2032.5	1972.5	1938.7	1883.6	1877.5	1838.9	1839.2	1813.9
62.5°	2418.2	2432.3	2421.9	2417.0	2413.7	2403.0	2375.6	2342.7	2293.4	2257.8	2205.4
65°	2515.7	2503.8	2492.5	2491.0	2490.1	2507.5	2511.4	2488.3	2443.5	2388.1	2327.8
67.5°	2402.1	2395.4	2396.0	2383.2	2391.2	2421.3	2442.3	2435.9	2394.8	2327.8	2251.1
70°	2131.8	2118.7	2132.1	2148.8	2160.7	2178.0	2199.0	2204.2	2166.8	2098.0	2019.7
72.5°	1596.2	1598.4	1611.2	1615.7	1663.5	1658.6	1677.5	1616.0	1588.9	1523.5	1483.3
75°	840.0	826.3	861.9	786.4	755.3	777.0	716.4	658.2	670.4	680.4	608.0
77.5°	296.8	277.7	245.1	232.0	193.0	163.5	133.7	120.6	113.6	109.9	105.3
80°	213.1	219.2	212.5	196.7	167.1	134.0	105.6	83.4	71.5	65.2	60.9
82.5°	215.6	239.6	250.3	245.7	218.9	165.6	109.3	69.7	51.8	43.2	40.2
85°	115.7	126.7	121.8	102.6	92.2	55.1	37.8	25.3	21.3	19.5	18.0
87.5°	4.6	3.7	3.0	3.0	3.3	3.7	3.0	3.3	3.0	3.0	3.0
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8
2.5°	280.7	280.7	280.7	280.4	279.8	278.3	276.7	275.5	274.6	273.7	272.5
5°	286.2	285.6	285.6	285.6	283.1	280.7	278.6	276.4	274.6	273.1	271.9
7.5°	295.3	295.0	293.8	293.5	291.7	287.7	285.3	281.6	279.5	277.4	276.7
10°	306.3	306.0	305.7	305.4	302.9	299.0	295.9	292.6	289.5	286.5	283.4
12.5°	319.1	318.8	318.5	317.5	316.6	314.5	311.1	307.5	303.8	297.4	294.1
15°	334.9	335.5	334.9	334.6	334.0	334.3	332.2	327.0	321.2	313.0	306.0
17.5°	355.9	355.3	355.0	356.2	355.9	357.4	356.8	350.1	341.3	328.2	316.0
20°	379.0	379.0	380.3	381.2	383.9	387.9	386.0	377.8	361.7	343.4	327.6
22.5°	406.7	407.4	408.6	408.0	412.2	418.6	419.2	407.7	386.7	361.4	339.2
25°	435.7	436.3	435.1	436.9	443.9	453.0	454.8	438.4	410.7	377.8	348.9
27.5°	463.1	463.7	463.7	466.1	472.8	488.3	490.2	471.9	435.1	392.1	355.9
30°	489.9	492.3	492.9	493.5	503.6	525.2	529.1	502.6	456.4	402.8	360.8
32.5°	523.7	524.6	525.8	527.3	538.9	565.4	565.4	529.1	470.1	409.5	361.7
35°	559.9	560.2	562.9	563.2	579.7	606.2	601.0	551.1	479.8	408.0	355.0
37.5°	581.8	583.0	585.8	589.4	606.8	644.2	632.3	569.9	481.6	397.9	339.8
40°	608.9	611.3	614.1	617.7	643.6	682.9	658.8	581.8	474.0	378.1	316.9
42.5°	638.1	641.5	645.7	652.4	683.2	717.0	678.9	583.6	456.7	355.9	289.8
45°	671.0	677.1	682.0	689.9	724.6	746.5	691.1	573.0	434.8	326.7	260.9
47.5°	709.1	713.9	722.5	731.0	765.7	766.6	692.3	552.3	404.9	297.4	230.2
50°	755.9	759.0	771.8	777.0	809.5	787.6	683.5	524.3	373.6	264.6	196.1
52.5°	818.4	822.6	839.1	847.0	870.1	816.2	671.0	493.8	337.6	227.7	161.1
55°	941.7	960.2	971.8	985.5	1000.4	881.1	665.5	461.2	297.1	185.1	127.6
57.5°	1287.8	1281.7	1307.3	1338.4	1338.1	1029.3	698.4	433.2	249.3	141.6	98.0
60°	1803.6	1809.3	1796.3	1814.8	1755.8	1213.2	743.5	403.7	195.5	105.3	74.9
62.5°	2186.9	2153.4	2134.8	2112.9	1982.9	1233.3	710.6	343.1	142.2	74.0	57.5
65°	2277.6	2238.3	2198.4	2156.7	1960.7	1111.9	583.0	251.8	91.9	50.8	45.7
67.5°	2188.1	2125.1	2074.2	2031.3	1796.6	921.6	426.2	154.7	52.7	41.1	39.0
70°	1956.1	1886.4	1804.2	1756.1	1512.8	679.2	273.1	83.4	40.5	36.5	35.6
72.5°	1431.8	1374.6	1284.8	1229.7	1086.3	412.8	152.5	46.9	37.8	35.0	33.8
75°	557.8	527.9	490.5	493.5	440.5	182.7	69.1	40.5	36.8	34.4	33.2
77.5°	95.9	93.5	86.5	86.5	98.3	66.7	46.0	40.8	36.5	33.8	31.7
80°	57.5	56.3	53.6	53.0	51.1	46.9	44.1	41.4	35.9	32.0	29.2
82.5°	37.8	36.2	35.3	35.0	38.1	41.1	41.4	41.1	34.1	27.7	23.7
85°	16.1	16.1	16.1	16.4	21.9	33.2	34.1	36.5	28.0	21.6	17.0
87.5°	2.7	3.3	3.3	3.7	4.0	7.3	9.1	11.9	9.4	9.1	8.2
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):

	165°	175°	180°
0°	279.8	279.8	279.8
2.5°	272.2	271.6	271.6
5°	271.3	270.7	271.0
7.5°	274.9	273.7	274.0
10°	281.6	280.4	279.8
12.5°	290.1	288.6	288.6
15°	299.0	295.3	295.0
17.5°	306.3	301.7	301.1
20°	314.5	308.4	307.5
22.5°	322.1	313.9	312.7
25°	327.6	317.5	316.0
27.5°	330.0	318.2	316.9
30°	331.9	318.5	316.6
32.5°	330.0	315.7	314.2
35°	320.0	304.5	303.5
37.5°	302.6	285.3	284.1
40°	279.8	261.5	258.5
42.5°	250.6	233.5	230.2
45°	222.2	202.8	201.2
47.5°	191.8	173.2	174.1
50°	159.8	143.1	142.8
52.5°	129.4	114.8	113.9
55°	102.0	91.6	90.7
57.5°	80.7	75.2	74.3
60°	65.8	63.0	62.1
62.5°	53.0	52.1	51.8
65°	44.1	44.1	44.1
67.5°	38.4	38.7	38.7
70°	35.3	35.6	35.3
72.5°	34.1	35.0	35.0
75°	33.2	33.8	32.6
77.5°	32.6	32.9	30.7
80°	32.3	32.0	28.0
82.5°	28.0	27.1	23.7
85°	25.6	19.5	16.4
87.5°	13.1	9.1	7.0
90°	0.0	0.0	0.0

(END OF REPORT)