

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: P150464

Luminaire Tested: **VXS-F04-LED-E1-SL3-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P150464
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: VXS-F04-LED-E1-SL3-HSS-7030
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5229.2 lumens
Efficiency: N/A
Efficacy: 51.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type III - 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



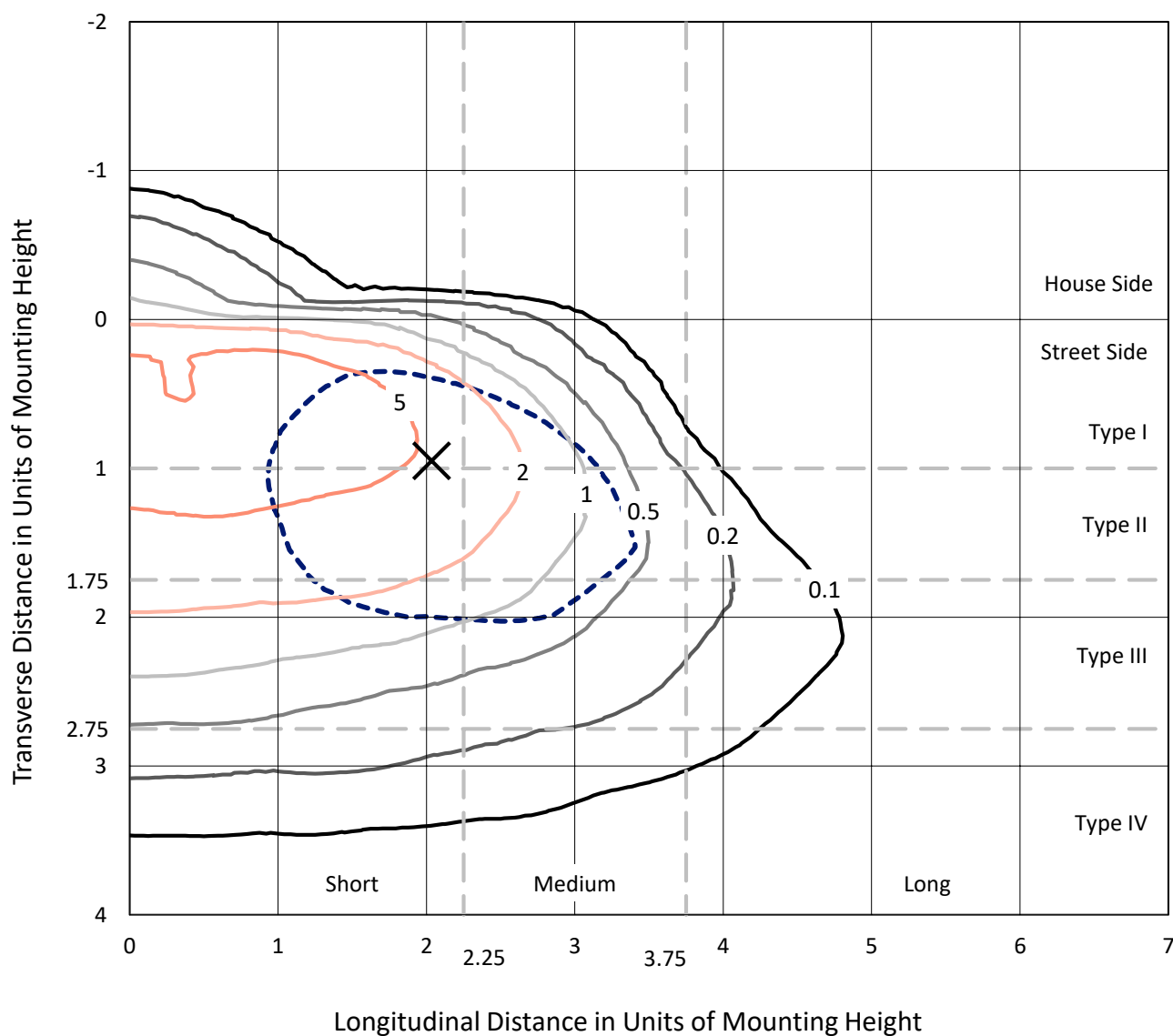
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

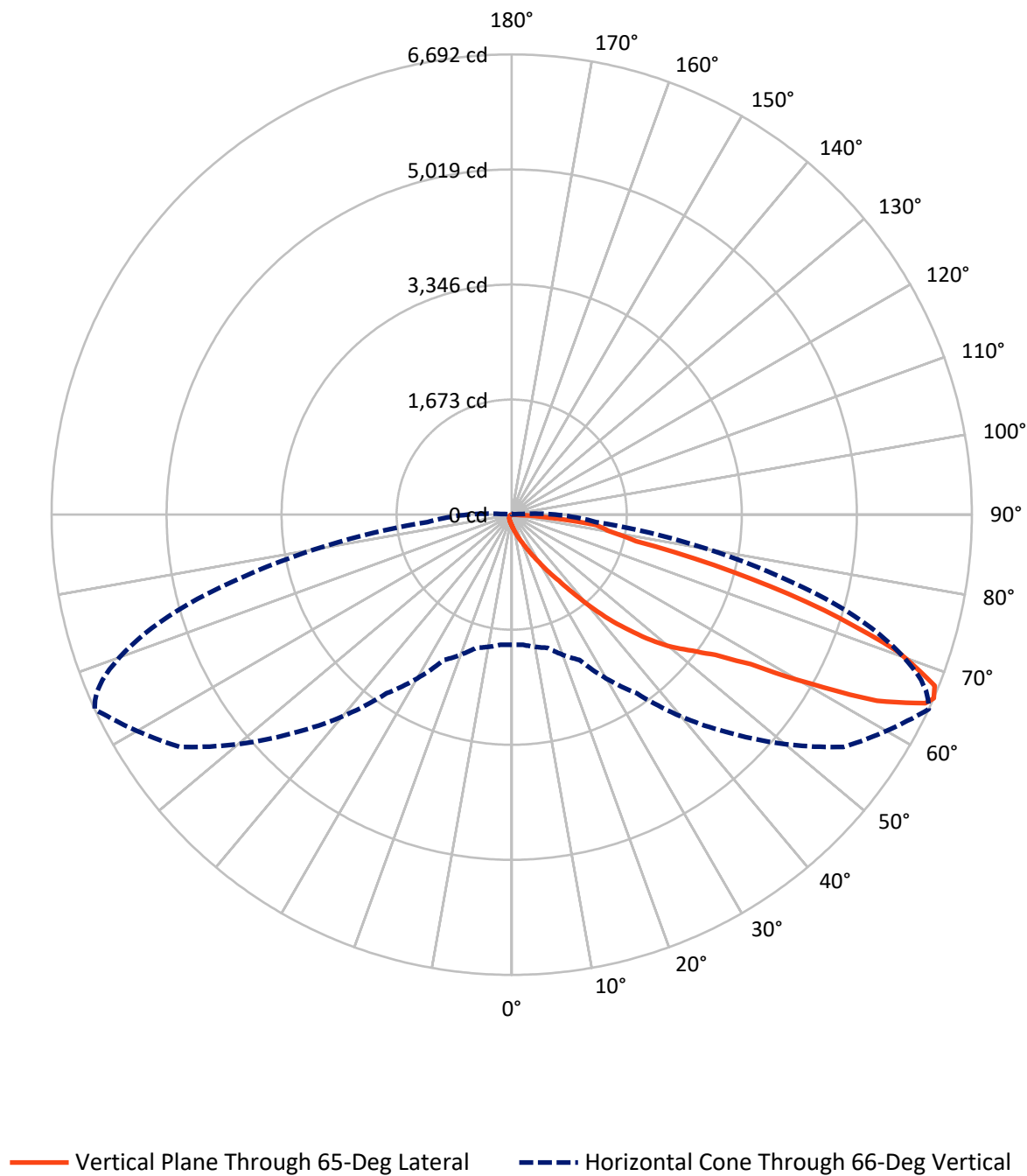


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	113.3	0.0	113.3
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	5115.8	0.0	5115.8
	% Fixture	97.8	0.0	97.8
Total	Lumens	5229.2	0.0	5229.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.7	0.3
10°-20°	74.9	1.4
20°-30°	161.6	3.1
30°-40°	345.1	6.6
40°-50°	763.1	14.6
50°-60°	1293.3	24.7
60°-70°	1725.8	33.0
70°-80°	760.2	14.5
80°-90°	87.6	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°	5229.2	100.0
0°-180°	5229.2	100.0

Coefficient of Utilization



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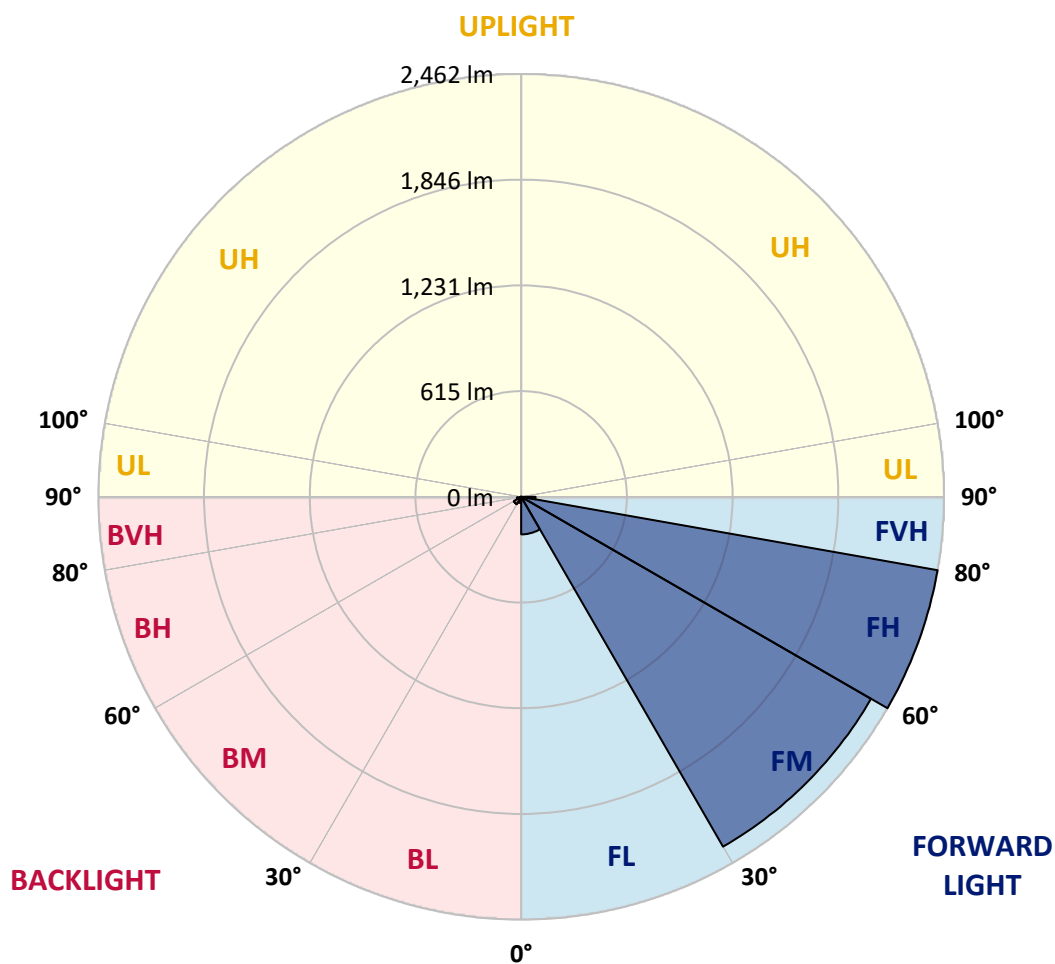
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	218.4	4.2			
FM	(30°-60°)	2351.7	45.0			
FH	(60°-80°)	2461.6	47.1			G2/5000
FVH	(80°-90°)	84.1	1.6			G1/100
BL	(0°-30°)	35.8	0.7	B0/110		
BM	(30°-60°)	49.8	1.0	B0/220		
BH	(60°-80°)	24.3	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°	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8
2.5°	199.1	198.0	194.0	194.0	188.0	183.9	179.0	173.9	173.9	173.0	171.9
5°	263.4	257.4	256.4	245.3	236.3	223.2	211.1	195.0	193.1	191.0	190.1
7.5°	334.8	333.8	324.8	311.6	293.6	269.4	245.3	219.2	215.1	213.2	209.1
10°	427.3	422.3	410.2	388.1	360.9	328.7	289.5	248.3	243.3	239.3	237.3
12.5°	515.8	506.6	499.7	471.5	437.3	390.1	342.8	283.5	279.5	274.4	266.4
15°	598.1	590.2	578.0	553.9	515.8	456.4	401.1	328.7	318.7	311.6	305.6
17.5°	662.5	657.5	643.4	616.3	575.0	522.8	456.4	375.0	366.9	357.9	346.8
20°	723.8	716.8	694.7	657.5	613.3	573.1	521.8	435.3	424.2	413.2	401.1
22.5°	782.2	775.1	739.0	677.6	630.4	613.3	595.1	503.6	486.5	477.5	465.5
25°	863.5	848.5	792.2	694.7	631.3	644.5	675.5	592.1	576.1	563.0	543.8
27.5°	973.2	953.1	864.6	719.8	635.3	678.5	768.1	699.7	682.6	667.6	646.4
30°	1096.8	1083.7	978.1	780.1	664.6	728.9	871.6	836.5	816.4	798.2	773.1
32.5°	1221.5	1203.4	1098.9	894.7	742.9	826.4	1001.3	995.2	969.1	952.0	924.9
35°	1331.1	1322.0	1244.6	1082.7	921.9	997.3	1174.2	1181.2	1158.1	1140.0	1109.8
37.5°	1405.5	1405.5	1390.4	1284.8	1206.4	1262.7	1428.6	1429.5	1406.4	1365.2	1350.2
40°	1443.6	1454.7	1509.0	1529.1	1525.1	1597.4	1762.4	1744.2	1725.2	1704.0	1653.8
42.5°	1522.1	1532.1	1647.8	1786.4	1876.9	1972.4	2086.0	2080.0	2056.9	2018.7	1972.4
45°	1654.7	1667.9	1805.6	2025.7	2211.7	2347.5	2419.8	2391.7	2368.5	2332.3	2308.2
47.5°	1823.6	1848.8	2004.7	2277.1	2501.2	2725.4	2800.8	2726.4	2706.3	2678.1	2639.0
50°	2003.6	2027.8	2193.6	2505.3	2758.7	3026.0	3151.7	3026.0	2996.9	2987.9	2943.6
52.5°	2159.5	2179.6	2339.4	2681.2	2955.6	3269.3	3452.3	3286.4	3265.3	3235.1	3203.0
55°	2251.9	2268.0	2417.8	2765.7	3089.3	3488.5	3742.8	3597.1	3565.9	3553.8	3507.6
57.5°	2283.1	2299.2	2433.9	2776.7	3161.8	3688.5	4095.6	4100.7	4063.5	4020.3	4006.2
60°	2283.1	2301.1	2414.8	2749.5	3232.1	3901.7	4566.2	4985.4	4905.0	4896.9	4845.7
62.5°	2188.6	2205.7	2320.3	2666.1	3326.6	4189.2	5221.7	5961.6	5938.4	5886.2	5801.8
65°	1983.5	1993.6	2106.1	2453.0	3290.5	4453.6	5789.6	6611.0	6573.8	6471.3	6362.7
66°	1891.0	1899.1	2004.7	2331.4	3171.8	4489.7	5890.2	6692.4	6631.1	6544.7	6422.0
67.5°	1757.3	1771.4	1845.8	2105.2	2887.3	4364.1	5826.8	6635.1	6581.9	6477.3	6354.6
70°	1173.3	1163.1	1425.6	1615.5	2199.7	3555.9	5227.7	5957.5	5958.5	5909.3	5860.0
72.5°	557.0	563.0	639.4	994.3	1439.6	2375.5	4161.0	4755.2	4823.5	4735.1	4673.8
75°	400.1	409.1	455.4	608.2	858.5	1425.6	2697.3	3325.6	3327.7	3170.8	3031.1
77.5°	116.6	121.7	170.9	375.0	643.4	962.1	1549.2	1848.8	1805.6	1693.0	1587.4
80°	48.3	48.3	50.3	119.6	258.3	653.5	1083.7	1423.5	1418.5	1375.2	1313.0
82.5°	18.1	19.1	24.1	49.2	61.3	160.8	722.8	1235.5	1232.5	1171.2	1126.9
85°	2.0	2.0	6.0	21.1	23.1	30.2	144.8	544.9	541.9	544.9	477.5
87.5°	0.0	0.0	1.0	2.0	3.0	4.0	6.0	21.1	23.1	22.1	20.1
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8
2.5°	171.9	169.9	169.9	168.9	168.9	168.9	167.9	166.8	166.8	165.9	164.9
5°	188.0	186.0	185.0	183.0	182.0	180.9	179.0	177.9	176.0	174.9	173.9
7.5°	207.0	203.1	202.1	199.1	196.1	194.0	192.0	189.0	186.9	183.0	182.0
10°	231.2	226.2	222.2	218.1	215.1	210.2	207.0	203.1	199.1	196.1	193.1
12.5°	262.4	255.3	249.3	245.3	238.2	232.2	226.2	223.2	215.1	211.1	206.1
15°	296.6	288.5	281.5	273.5	268.4	258.3	250.4	241.2	237.3	230.3	222.2
17.5°	340.8	327.8	316.7	308.6	298.5	288.5	279.5	270.5	258.3	250.4	240.3
20°	388.1	377.0	361.9	347.9	335.8	323.7	310.7	298.5	287.6	274.4	262.4
22.5°	448.4	432.3	414.2	400.1	384.0	371.0	352.8	336.8	318.7	301.6	287.6
25°	524.8	503.6	486.5	466.4	447.4	427.3	405.2	385.1	361.9	345.8	321.7
27.5°	619.3	599.2	576.1	549.9	530.8	500.6	471.5	446.3	419.2	394.1	366.9
30°	739.9	710.8	686.6	661.6	623.3	594.2	560.0	525.8	488.6	463.4	422.3
32.5°	884.7	853.5	817.3	781.1	745.9	704.8	662.5	620.3	579.1	532.8	490.6
35°	1061.7	1024.5	983.2	944.0	889.7	845.5	792.2	733.9	687.7	634.4	581.0
37.5°	1295.9	1234.5	1198.3	1157.1	1083.7	1023.4	964.1	905.8	824.4	768.1	692.6
40°	1589.4	1553.3	1493.9	1427.6	1361.2	1281.8	1201.3	1123.9	1029.4	951.1	863.5
42.5°	1934.2	1880.9	1820.6	1725.2	1657.8	1564.2	1472.8	1370.3	1254.6	1154.1	1051.6
45°	2257.9	2194.6	2148.4	2052.8	1982.5	1871.9	1761.3	1652.7	1519.1	1389.3	1270.8
47.5°	2607.8	2555.5	2479.2	2401.8	2330.4	2205.7	2086.0	1954.3	1813.6	1659.8	1506.0
50°	2915.4	2874.2	2822.0	2728.5	2649.0	2544.5	2403.7	2260.0	2082.1	1929.2	1754.3
52.5°	3176.8	3144.7	3071.3	3004.9	2933.6	2835.0	2709.3	2571.6	2379.6	2211.7	2012.6
55°	3485.5	3462.4	3398.0	3356.8	3293.5	3199.0	3081.3	2953.7	2750.6	2567.6	2342.4
57.5°	3991.1	3973.1	3916.8	3899.7	3837.3	3754.9	3610.2	3473.4	3236.2	3008.9	2751.6
60°	4828.6	4792.3	4709.9	4667.8	4536.1	4425.4	4237.4	4049.4	3762.9	3473.4	3163.7
62.5°	5725.3	5623.8	5466.9	5332.2	5145.3	4953.3	4701.9	4414.4	4078.7	3734.8	3378.9
65°	6208.9	6036.0	5837.9	5623.8	5381.6	5099.0	4782.3	4437.5	4076.6	3713.7	3337.7
66°	6264.1	6069.1	5859.1	5620.7	5351.3	5050.8	4729.0	4367.2	3992.1	3638.2	3262.3
67.5°	6194.8	5990.8	5768.6	5504.1	5212.6	4900.9	4563.2	4187.2	3826.2	3467.4	3101.5
70°	5709.2	5506.1	5308.1	5029.6	4719.0	4405.3	4085.6	3665.4	3323.6	2993.9	2668.1
72.5°	4559.2	4421.5	4225.4	3987.2	3684.6	3316.6	3050.2	2674.2	2377.6	2057.9	1805.6
75°	2849.1	2655.0	2412.7	2109.2	1877.9	1579.4	1423.5	1138.0	969.1	821.3	678.5
77.5°	1456.7	1311.0	1141.0	970.2	806.3	643.4	497.6	351.8	237.3	164.9	122.7
80°	1203.4	1074.7	934.0	778.1	633.4	491.6	353.9	241.2	153.8	100.5	78.4
82.5°	994.3	885.7	760.0	615.2	489.6	386.0	268.4	174.9	108.6	70.4	55.3
85°	423.2	384.0	296.6	235.2	176.9	130.7	91.5	61.3	43.2	35.2	32.1
87.5°	18.1	20.1	19.1	15.1	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°	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8	157.8
2.5°	164.9	163.8	162.9	162.9	161.9	160.8	154.8	149.8	143.7	139.7	135.8
5°	171.9	170.9	168.9	167.9	165.9	164.9	151.8	140.7	131.7	124.7	119.6
7.5°	179.0	177.9	174.9	171.9	170.9	168.9	147.8	133.7	121.7	113.6	108.6
10°	188.0	185.0	182.0	177.9	174.9	171.9	143.7	125.7	112.6	105.6	100.5
12.5°	201.0	196.1	191.0	186.0	182.0	176.9	141.8	118.7	105.6	97.5	92.5
15°	216.2	209.1	203.1	197.0	190.1	185.0	137.7	112.6	99.5	91.5	85.5
17.5°	230.3	222.2	213.2	204.0	197.0	190.1	133.7	106.5	93.5	85.5	79.4
20°	250.4	238.2	227.3	216.2	206.1	197.0	127.7	100.5	88.5	79.4	73.4
22.5°	272.4	258.3	244.2	229.2	216.2	204.0	122.7	95.5	83.4	74.4	67.4
25°	300.6	283.5	264.4	245.3	230.3	214.1	117.6	90.5	78.4	69.3	62.3
27.5°	339.8	315.6	294.6	270.5	247.4	229.2	113.6	86.4	73.4	64.4	57.3
30°	393.1	357.9	324.8	298.5	271.4	245.3	109.5	81.5	69.3	59.3	51.3
32.5°	452.4	411.2	373.0	333.8	299.6	269.4	105.6	77.4	64.4	54.3	47.3
35°	525.8	473.5	422.3	377.0	335.8	295.5	101.6	73.4	60.3	49.2	42.2
37.5°	631.3	566.0	498.7	440.3	387.0	333.8	98.5	69.3	55.3	44.2	37.2
40°	776.1	691.7	609.2	529.8	460.4	394.1	94.5	65.4	51.3	40.2	33.2
42.5°	933.0	830.4	721.9	632.3	536.9	453.4	90.5	61.3	47.3	36.2	29.1
45°	1128.0	1000.3	868.6	746.9	630.4	522.8	86.4	57.3	42.2	32.1	25.2
47.5°	1341.1	1178.2	1029.4	876.7	737.9	609.2	81.5	54.3	38.2	28.2	22.1
50°	1560.3	1388.4	1200.3	1026.4	861.6	695.6	76.4	49.2	34.2	25.2	18.1
52.5°	1796.5	1593.5	1401.5	1185.3	993.3	809.3	71.4	45.3	31.2	22.1	15.1
55°	2097.1	1869.9	1644.7	1402.4	1171.2	940.9	66.3	40.2	27.2	19.1	12.0
57.5°	2475.1	2205.7	1929.2	1655.8	1375.2	1113.9	62.3	35.2	23.1	16.1	10.1
60°	2832.0	2517.3	2182.6	1867.9	1551.2	1246.6	56.3	31.2	20.1	13.1	10.1
62.5°	3017.0	2658.0	2297.2	1950.4	1612.5	1293.9	50.3	26.1	17.1	11.1	9.0
65°	2971.7	2605.8	2256.0	1906.1	1575.3	1263.7	44.2	23.1	15.1	10.1	9.0
66°	2906.4	2544.5	2192.6	1859.9	1544.1	1231.5	41.2	22.1	14.1	10.1	8.1
67.5°	2763.6	2413.8	2078.0	1768.4	1458.8	1170.2	37.2	20.1	13.1	9.0	8.1
70°	2360.5	2042.8	1774.4	1499.0	1246.6	986.2	30.2	17.1	11.1	8.1	8.1
72.5°	1562.3	1346.1	1167.2	1004.4	839.5	651.4	25.2	14.1	9.0	8.1	7.0
75°	589.1	532.8	457.4	411.2	358.9	314.7	20.1	9.0	7.0	7.0	7.0
77.5°	104.6	96.5	85.5	78.4	72.3	66.3	16.1	6.0	6.0	7.0	7.0
80°	70.4	65.4	59.3	54.3	50.3	45.3	11.1	5.1	6.0	6.0	7.0
82.5°	50.3	47.3	44.2	40.2	37.2	33.2	7.0	5.1	6.0	6.0	6.0
85°	30.2	28.2	26.1	24.1	21.1	20.1	5.1	5.1	5.1	6.0	6.0
87.5°	8.1	7.0	8.1	8.1	6.0	7.0	4.0	4.0	4.0	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°	157.8	157.8	157.8	157.8	157.8
2.5°	133.7	133.7	131.7	134.7	134.7
5°	115.6	115.6	114.6	115.6	115.6
7.5°	105.6	104.6	104.6	104.6	105.6
10°	96.5	95.5	95.5	95.5	95.5
12.5°	88.5	87.5	86.4	87.5	87.5
15°	81.5	79.4	79.4	79.4	79.4
17.5°	75.4	73.4	72.3	72.3	72.3
20°	69.3	66.3	66.3	66.3	66.3
22.5°	63.3	60.3	60.3	60.3	60.3
25°	57.3	54.3	54.3	54.3	54.3
27.5°	52.2	49.2	49.2	49.2	49.2
30°	46.2	44.2	44.2	45.3	44.2
32.5°	42.2	39.2	39.2	40.2	40.2
35°	37.2	35.2	35.2	35.2	35.2
37.5°	32.1	30.2	30.2	30.2	30.2
40°	28.2	26.1	25.2	26.1	26.1
42.5°	24.1	22.1	21.1	21.1	21.1
45°	21.1	18.1	17.1	18.1	18.1
47.5°	17.1	15.1	15.1	16.1	16.1
50°	13.1	13.1	14.1	16.1	16.1
52.5°	12.0	12.0	14.1	16.1	16.1
55°	11.1	12.0	14.1	15.1	16.1
57.5°	10.1	12.0	14.1	15.1	15.1
60°	10.1	11.1	13.1	15.1	15.1
62.5°	9.0	10.1	12.0	14.1	14.1
65°	9.0	10.1	12.0	14.1	14.1
66°	9.0	10.1	12.0	14.1	14.1
67.5°	9.0	10.1	12.0	14.1	14.1
70°	9.0	10.1	12.0	13.1	13.1
72.5°	8.1	9.0	11.1	13.1	13.1
75°	8.1	9.0	11.1	13.1	13.1
77.5°	8.1	9.0	11.1	13.1	13.1
80°	8.1	9.0	11.1	12.0	13.1
82.5°	7.0	9.0	10.1	12.0	12.0
85°	7.0	8.1	10.1	11.1	12.0
87.5°	6.0	7.0	8.1	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)