

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: P150463

Luminaire Tested: **VXS-F04-LED-E1-SL3-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P150463
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-8030
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, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4832.1 lumens
Efficiency: N/A
Efficacy: 47.3 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



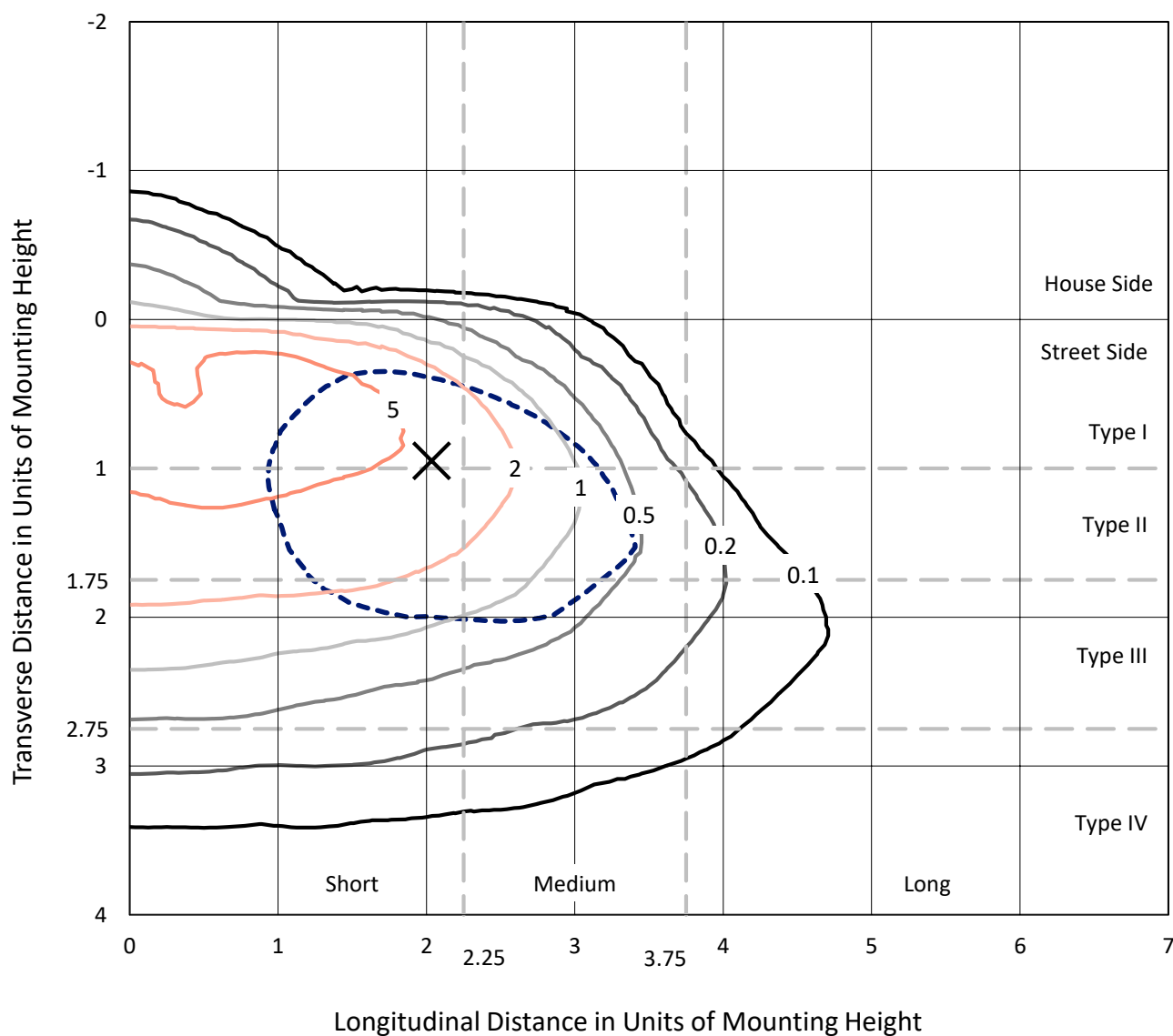
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

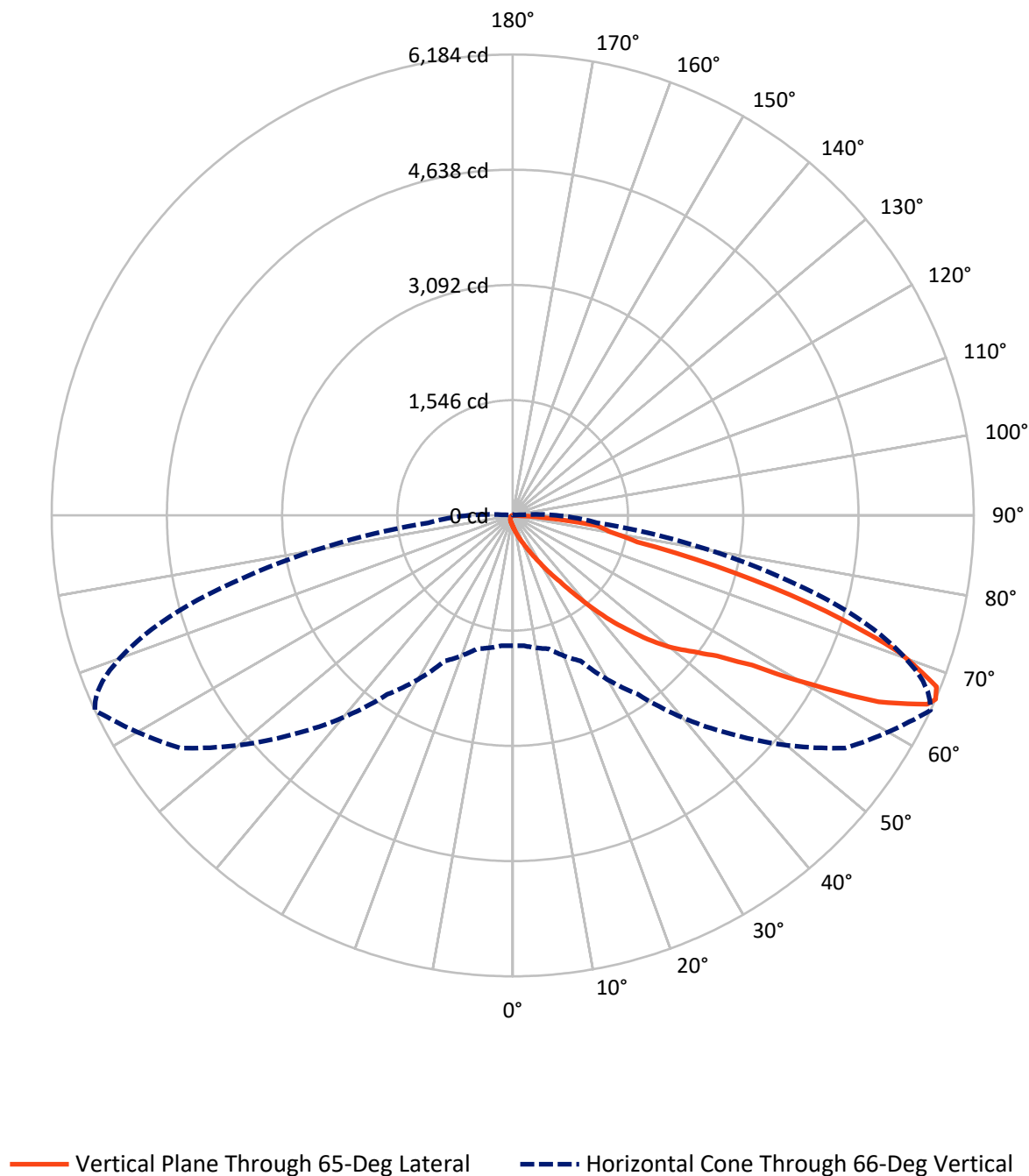


Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	104.8	0.0	104.8
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	4727.3	0.0	4727.3
	% Fixture	97.8	0.0	97.8
Total	Lumens	4832.1	0.0	4832.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.3	0.3
10°-20°	69.2	1.4
20°-30°	149.3	3.1
30°-40°	318.9	6.6
40°-50°	705.2	14.6
50°-60°	1195.1	24.7
60°-70°	1594.7	33.0
70°-80°	702.5	14.5
80°-90°	80.9	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°	4832.1	100.0
0°-180°	4832.1	100.0

Coefficient of Utilization



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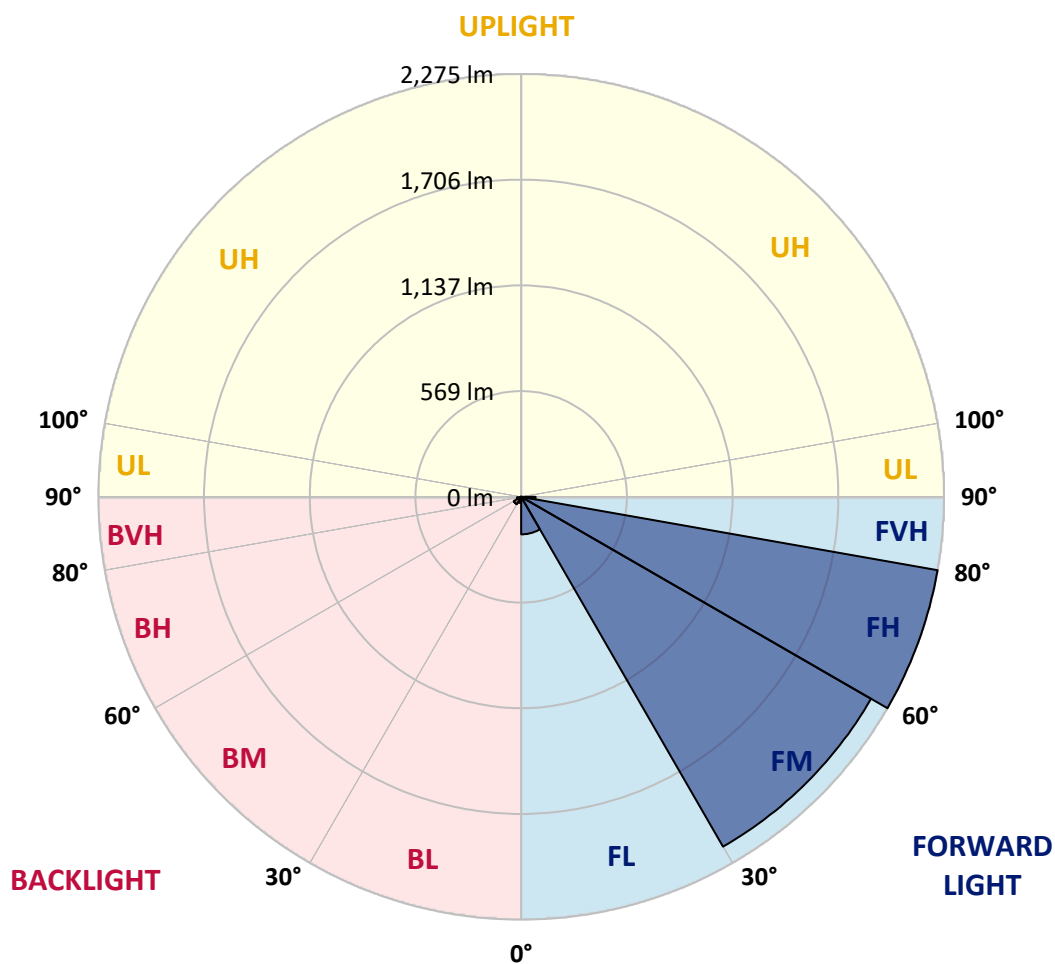
CATALOG NUMBER: VXS-F04-LED-E1-SL3-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	201.8	4.2			
FM	(30°-60°)	2173.1	45.0			
FH	(60°-80°)	2274.7	47.1			G2/5000
FVH	(80°-90°)	77.7	1.6			G1/100
BL	(0°-30°)	33.0	0.7	B0/110		
BM	(30°-60°)	46.0	1.0	B0/220		
BH	(60°-80°)	22.5	0.5	B0/110		G0/110
BVH	(80°-90°)	3.2	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°	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8
2.5°	183.9	183.0	179.3	179.3	173.7	170.1	165.4	160.7	160.7	159.8	158.9
5°	243.4	237.8	236.9	226.6	218.3	206.2	195.1	180.2	178.3	176.5	175.5
7.5°	309.3	308.4	300.1	288.0	271.3	249.0	226.6	202.5	198.8	197.0	193.3
10°	394.8	390.2	379.1	358.5	333.5	303.7	267.6	229.4	224.8	221.1	219.3
12.5°	476.6	468.2	461.7	435.6	404.1	360.4	316.8	262.0	258.2	253.6	246.2
15°	552.7	545.3	534.2	511.9	476.6	421.8	370.7	303.7	294.5	288.0	282.4
17.5°	612.2	607.6	594.5	569.4	531.4	483.1	421.8	346.5	339.1	330.7	320.5
20°	668.9	662.4	642.0	607.6	566.6	529.5	482.2	402.3	392.0	381.8	370.7
22.5°	722.8	716.3	682.8	626.1	582.5	566.6	549.9	465.4	449.6	441.2	430.2
25°	798.0	784.0	732.0	642.0	583.4	595.4	624.2	547.2	532.3	520.2	502.6
27.5°	899.3	880.7	799.0	665.2	587.2	627.0	709.7	646.5	630.8	616.9	597.3
30°	1013.5	1001.5	903.9	720.9	614.1	673.5	805.4	773.0	754.3	737.6	714.4
32.5°	1128.7	1112.0	1015.3	826.8	686.5	763.6	925.3	919.7	895.5	879.8	854.6
35°	1229.9	1221.7	1150.1	1000.5	851.9	921.6	1085.1	1091.5	1070.2	1053.5	1025.6
37.5°	1298.8	1298.8	1284.8	1187.3	1114.8	1166.8	1320.1	1321.0	1299.7	1261.6	1247.7
40°	1334.0	1344.2	1394.4	1413.0	1409.2	1476.2	1628.5	1611.8	1594.1	1574.6	1528.2
42.5°	1406.5	1415.8	1522.6	1650.8	1734.4	1822.7	1927.7	1922.1	1900.7	1865.4	1822.7
45°	1529.1	1541.1	1668.5	1871.9	2043.7	2169.1	2236.1	2210.1	2188.7	2155.2	2133.0
47.5°	1685.2	1708.4	1852.4	2104.1	2311.3	2518.4	2588.2	2519.4	2500.8	2474.8	2438.5
50°	1851.5	1873.8	2027.0	2315.0	2549.1	2796.3	2912.3	2796.3	2769.3	2760.9	2720.1
52.5°	1995.4	2014.0	2161.8	2477.6	2731.2	3021.0	3190.2	3036.8	3017.3	2989.4	2959.7
55°	2080.9	2095.8	2234.2	2555.6	2854.7	3223.5	3458.5	3323.9	3295.1	3283.9	3241.2
57.5°	2109.7	2124.6	2249.0	2565.8	2921.7	3408.4	3784.7	3789.3	3754.9	3715.0	3702.0
60°	2109.7	2126.4	2231.4	2540.7	2986.6	3605.4	4219.5	4606.8	4532.5	4525.1	4477.7
62.5°	2022.4	2038.1	2144.0	2463.6	3074.0	3871.1	4825.1	5508.8	5487.5	5439.2	5361.1
65°	1832.8	1842.2	1946.2	2266.7	3040.5	4115.3	5350.1	6109.0	6074.6	5979.9	5879.5
66°	1747.5	1754.8	1852.4	2154.3	2931.0	4148.8	5442.9	6184.2	6127.6	6047.7	5934.3
67.5°	1623.8	1636.9	1705.6	1945.3	2668.1	4032.7	5384.4	6131.3	6082.1	5985.4	5872.1
70°	1084.1	1074.8	1317.3	1492.8	2032.6	3285.8	4830.7	5505.2	5506.1	5460.5	5415.0
72.5°	514.6	520.2	590.9	918.8	1330.3	2195.2	3845.1	4394.1	4457.2	4375.5	4318.9
75°	369.7	378.1	420.8	562.1	793.4	1317.3	2492.4	3073.1	3074.9	2930.1	2800.8
77.5°	107.8	112.4	157.9	346.5	594.5	889.0	1431.6	1708.4	1668.5	1564.4	1466.8
80°	44.6	44.6	46.4	110.6	238.8	603.8	1001.5	1315.4	1310.8	1270.9	1213.3
82.5°	16.7	17.6	22.3	45.5	56.7	148.6	668.0	1141.8	1139.0	1082.3	1041.3
85°	1.9	1.9	5.6	19.5	21.3	27.9	133.8	503.5	500.7	503.5	441.2
87.5°	0.0	0.0	0.9	1.9	2.8	3.7	5.6	19.5	21.3	20.4	18.5
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8
2.5°	158.9	157.0	157.0	156.1	156.1	156.1	155.1	154.2	154.2	153.3	152.3
5°	173.7	171.8	170.9	169.1	168.2	167.3	165.4	164.5	162.6	161.7	160.7
7.5°	191.4	187.7	186.7	183.9	181.1	179.3	177.4	174.6	172.7	169.1	168.2
10°	213.7	209.0	205.3	201.6	198.8	194.2	191.4	187.7	183.9	181.1	178.3
12.5°	242.5	236.0	230.4	226.6	220.2	214.6	209.0	206.2	198.8	195.1	190.5
15°	274.1	266.6	260.1	252.6	248.1	238.8	231.3	223.0	219.3	212.7	205.3
17.5°	314.9	302.8	292.6	285.2	276.0	266.6	258.2	249.8	238.8	231.3	222.1
20°	358.5	348.4	334.4	321.5	310.3	299.2	287.0	276.0	265.7	253.6	242.5
22.5°	414.3	399.5	382.7	369.7	354.9	342.8	326.1	311.2	294.5	278.7	265.7
25°	485.0	465.4	449.6	431.1	413.4	394.8	374.4	355.8	334.4	319.6	297.3
27.5°	572.2	553.7	532.3	508.2	490.5	462.6	435.6	412.4	387.4	364.1	339.1
30°	683.7	656.8	634.5	611.3	576.0	549.0	517.4	485.9	451.5	428.3	390.2
32.5°	817.5	788.7	755.2	721.9	689.3	651.2	612.2	573.2	535.1	492.3	453.4
35°	981.0	946.6	908.5	872.3	822.2	781.2	732.0	678.1	635.4	586.2	537.0
37.5°	1197.4	1140.8	1107.4	1069.2	1001.5	945.7	890.9	837.0	761.8	709.7	640.1
40°	1468.7	1435.2	1380.4	1319.2	1257.8	1184.5	1110.2	1038.5	951.3	878.9	798.0
42.5°	1787.4	1738.1	1682.4	1594.1	1531.9	1445.5	1360.9	1266.2	1159.4	1066.4	971.7
45°	2086.5	2028.0	1985.2	1897.0	1831.9	1729.7	1627.6	1527.3	1403.7	1283.8	1174.2
47.5°	2409.7	2361.5	2290.9	2219.4	2153.4	2038.1	1927.7	1805.9	1675.9	1533.8	1391.6
50°	2694.1	2656.0	2607.7	2521.2	2447.9	2351.3	2221.2	2088.4	1923.9	1782.7	1621.0
52.5°	2935.5	2905.8	2838.0	2776.7	2710.8	2619.7	2503.6	2376.4	2198.9	2043.7	1859.8
55°	3220.7	3199.4	3140.0	3101.9	3043.3	2956.1	2847.4	2729.3	2541.7	2372.6	2164.6
57.5°	3688.1	3671.3	3619.3	3603.5	3545.9	3469.7	3336.0	3209.6	2990.4	2780.4	2542.6
60°	4461.9	4428.5	4352.2	4313.3	4191.6	4089.3	3915.6	3742.0	3477.2	3209.6	2923.5
62.5°	5290.6	5196.7	5051.8	4927.4	4754.5	4577.1	4344.9	4079.2	3768.9	3451.2	3122.3
65°	5737.4	5577.6	5394.6	5196.7	4972.8	4711.8	4419.2	4100.5	3767.0	3431.6	3084.2
66°	5788.5	5608.3	5414.1	5193.9	4945.0	4667.2	4369.9	4035.5	3689.0	3362.0	3014.5
67.5°	5724.4	5535.8	5330.5	5086.2	4816.8	4528.8	4216.7	3869.2	3535.8	3204.0	2865.9
70°	5275.6	5088.0	4905.0	4647.7	4360.6	4070.8	3775.3	3387.0	3071.2	2766.5	2465.5
72.5°	4213.0	4085.7	3904.5	3684.4	3404.7	3064.7	2818.5	2471.1	2197.0	1901.7	1668.5
75°	2632.7	2453.5	2229.5	1949.0	1735.3	1459.4	1315.4	1051.6	895.5	759.0	627.0
77.5°	1346.1	1211.4	1054.4	896.5	745.1	594.5	459.9	325.2	219.3	152.3	113.4
80°	1112.0	993.1	863.0	719.1	585.3	454.3	327.0	223.0	142.2	92.8	72.4
82.5°	918.8	818.4	702.3	568.5	452.4	356.7	248.1	161.7	100.3	65.1	51.1
85°	391.1	354.9	274.1	217.4	163.5	120.7	84.6	56.7	39.9	32.5	29.7
87.5°	16.7	18.5	17.6	13.9	10.3	10.3	9.3	7.5	7.5	7.5	7.5
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8
2.5°	152.3	151.4	150.5	150.5	149.5	148.6	143.1	138.4	132.8	129.1	125.4
5°	158.9	157.9	156.1	155.1	153.3	152.3	140.3	130.1	121.7	115.2	110.6
7.5°	165.4	164.5	161.7	158.9	157.9	156.1	136.6	123.5	112.4	105.0	100.3
10°	173.7	170.9	168.2	164.5	161.7	158.9	132.8	116.2	104.0	97.5	92.8
12.5°	185.8	181.1	176.5	171.8	168.2	163.5	131.0	109.6	97.5	90.2	85.5
15°	199.7	193.3	187.7	182.1	175.5	170.9	127.3	104.0	92.0	84.6	79.0
17.5°	212.7	205.3	197.0	188.6	182.1	175.5	123.5	98.4	86.4	79.0	73.4
20°	231.3	220.2	209.9	199.7	190.5	182.1	118.0	92.8	81.8	73.4	67.8
22.5°	251.7	238.8	225.7	211.8	199.7	188.6	113.4	88.3	77.1	68.7	62.3
25°	277.7	262.0	244.4	226.6	212.7	197.8	108.7	83.6	72.4	64.1	57.6
27.5°	314.0	291.7	272.2	249.8	228.5	211.8	105.0	79.9	67.8	59.5	53.0
30°	363.2	330.7	300.1	276.0	250.8	226.6	101.2	75.2	64.1	54.8	47.4
32.5°	418.0	380.0	344.7	308.4	276.8	249.0	97.5	71.5	59.5	50.2	43.6
35°	485.9	437.5	390.2	348.4	310.3	273.2	93.8	67.8	55.8	45.5	39.1
37.5°	583.4	523.0	460.7	406.9	357.6	308.4	91.1	64.1	51.1	40.8	34.4
40°	717.2	639.2	563.0	489.5	425.5	364.1	87.4	60.4	47.4	37.2	30.7
42.5°	862.1	767.4	667.0	584.4	496.1	419.0	83.6	56.7	43.6	33.5	26.9
45°	1042.3	924.4	802.6	690.3	582.5	483.1	79.9	53.0	39.1	29.7	23.2
47.5°	1239.3	1088.8	951.3	810.1	681.9	563.0	75.2	50.2	35.3	26.0	20.4
50°	1441.8	1282.9	1109.2	948.5	796.2	642.9	70.6	45.5	31.6	23.2	16.7
52.5°	1660.1	1472.4	1295.0	1095.2	917.8	747.9	65.9	41.8	28.8	20.4	13.9
55°	1937.8	1727.9	1519.8	1296.0	1082.3	869.5	61.3	37.2	25.1	17.6	11.2
57.5°	2287.2	2038.1	1782.7	1530.1	1270.9	1029.3	57.6	32.5	21.3	14.8	9.3
60°	2616.9	2326.2	2016.8	1726.0	1433.4	1151.9	52.0	28.8	18.5	12.1	9.3
62.5°	2787.9	2456.3	2122.7	1802.2	1490.1	1195.6	46.4	24.1	15.8	10.3	8.4
65°	2746.1	2407.9	2084.7	1761.3	1455.8	1167.8	40.8	21.3	13.9	9.3	8.4
66°	2685.7	2351.3	2026.1	1718.7	1426.9	1138.0	38.1	20.4	13.1	9.3	7.5
67.5°	2553.8	2230.5	1920.2	1634.1	1348.0	1081.3	34.4	18.5	12.1	8.4	7.5
70°	2181.2	1887.7	1639.7	1385.1	1151.9	911.3	27.9	15.8	10.3	7.5	7.5
72.5°	1443.6	1243.9	1078.5	928.1	775.6	602.0	23.2	13.1	8.4	7.5	6.5
75°	544.4	492.3	422.7	380.0	331.6	290.8	18.5	8.4	6.5	6.5	6.5
77.5°	96.6	89.2	79.0	72.4	66.8	61.3	14.8	5.6	5.6	6.5	6.5
80°	65.1	60.4	54.8	50.2	46.4	41.8	10.3	4.7	5.6	5.6	6.5
82.5°	46.4	43.6	40.8	37.2	34.4	30.7	6.5	4.7	5.6	5.6	5.6
85°	27.9	26.0	24.1	22.3	19.5	18.5	4.7	4.7	4.7	5.6	5.6
87.5°	7.5	6.5	7.5	7.5	5.6	6.5	3.7	3.7	3.7	4.7	4.7
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°	145.8	145.8	145.8	145.8	145.8
2.5°	123.5	123.5	121.7	124.5	124.5
5°	106.8	106.8	105.9	106.8	106.8
7.5°	97.5	96.6	96.6	96.6	97.5
10°	89.2	88.3	88.3	88.3	88.3
12.5°	81.8	80.8	79.9	80.8	80.8
15°	75.2	73.4	73.4	73.4	73.4
17.5°	69.6	67.8	66.8	66.8	66.8
20°	64.1	61.3	61.3	61.3	61.3
22.5°	58.5	55.8	55.8	55.8	55.8
25°	53.0	50.2	50.2	50.2	50.2
27.5°	48.3	45.5	45.5	45.5	45.5
30°	42.7	40.8	40.8	41.8	40.8
32.5°	39.1	36.3	36.3	37.2	37.2
35°	34.4	32.5	32.5	32.5	32.5
37.5°	29.7	27.9	27.9	27.9	27.9
40°	26.0	24.1	23.2	24.1	24.1
42.5°	22.3	20.4	19.5	19.5	19.5
45°	19.5	16.7	15.8	16.7	16.7
47.5°	15.8	13.9	13.9	14.8	14.8
50°	12.1	12.1	13.1	14.8	14.8
52.5°	11.2	11.2	13.1	14.8	14.8
55°	10.3	11.2	13.1	13.9	14.8
57.5°	9.3	11.2	13.1	13.9	13.9
60°	9.3	10.3	12.1	13.9	13.9
62.5°	8.4	9.3	11.2	13.1	13.1
65°	8.4	9.3	11.2	13.1	13.1
66°	8.4	9.3	11.2	13.1	13.1
67.5°	8.4	9.3	11.2	13.1	13.1
70°	8.4	9.3	11.2	12.1	12.1
72.5°	7.5	8.4	10.3	12.1	12.1
75°	7.5	8.4	10.3	12.1	12.1
77.5°	7.5	8.4	10.3	12.1	12.1
80°	7.5	8.4	10.3	11.2	12.1
82.5°	6.5	8.4	9.3	11.2	11.2
85°	6.5	7.5	9.3	10.3	11.2
87.5°	5.6	6.5	7.5	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)