

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: P152186

Luminaire Tested: **VXS-F05-LED-E1-SL4-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P152186
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-F05-LED-E1-SL4-7050
Description: VISION SITE SMALL LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (35) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12511.8 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 133.3
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

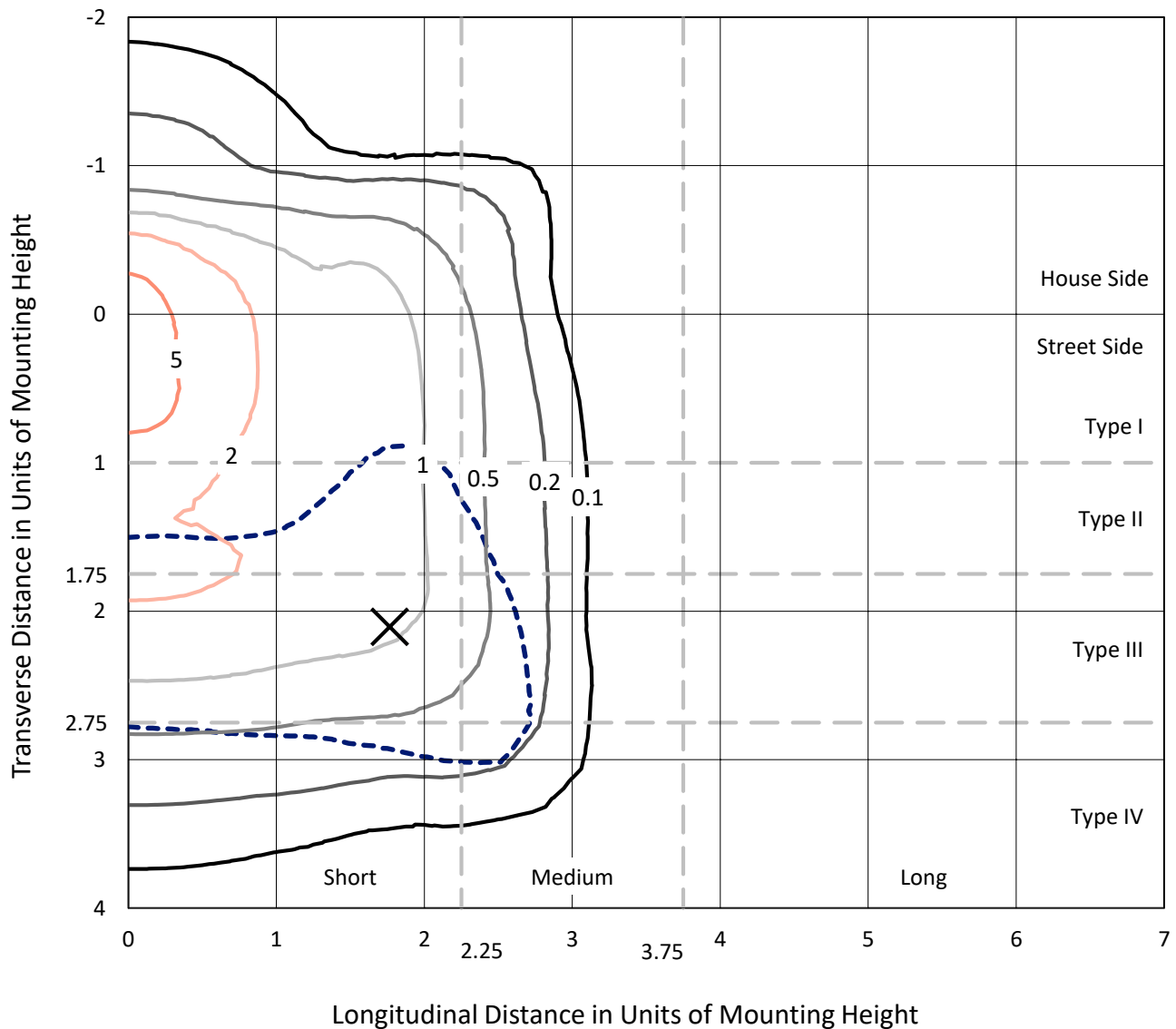


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

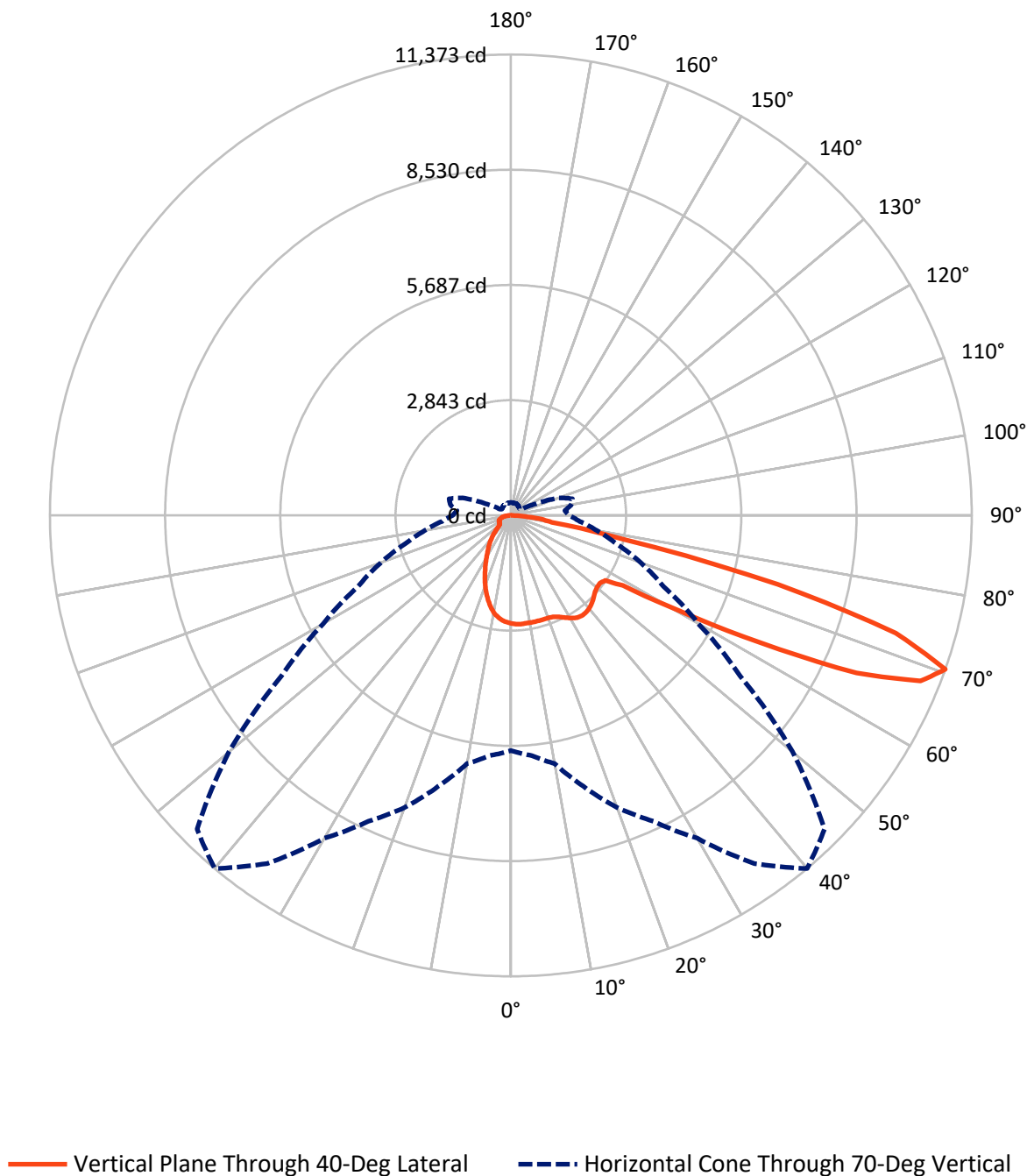


Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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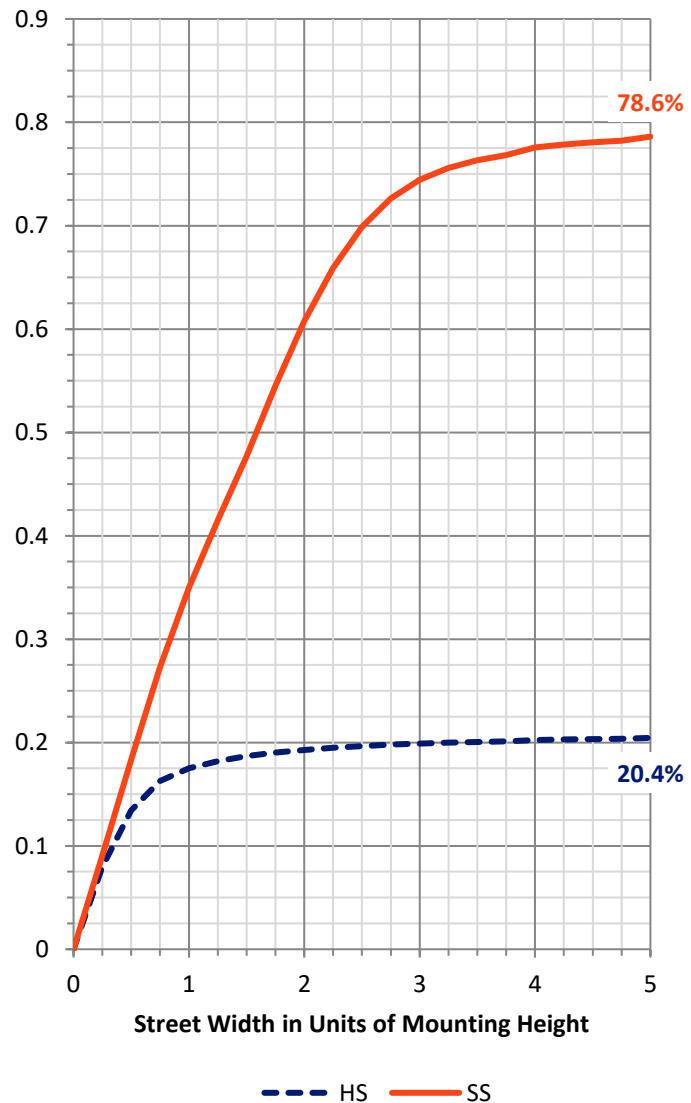
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2597.3	0.0	2597.3
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	9914.5	0.0	9914.5
	% Fixture	79.2	0.0	79.2
Total	Lumens	12511.8	0.0	12511.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.4	2.0
10°-20°	682.8	5.5
20°-30°	1010.7	8.1
30°-40°	1277.3	10.2
40°-50°	1444.6	11.5
50°-60°	2055.6	16.4
60°-70°	3828.5	30.6
70°-80°	1754.6	14.0
80°-90°	208.3	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°	12511.8	100.0
0°-180°	12511.8	100.0

Coefficient of Utilization



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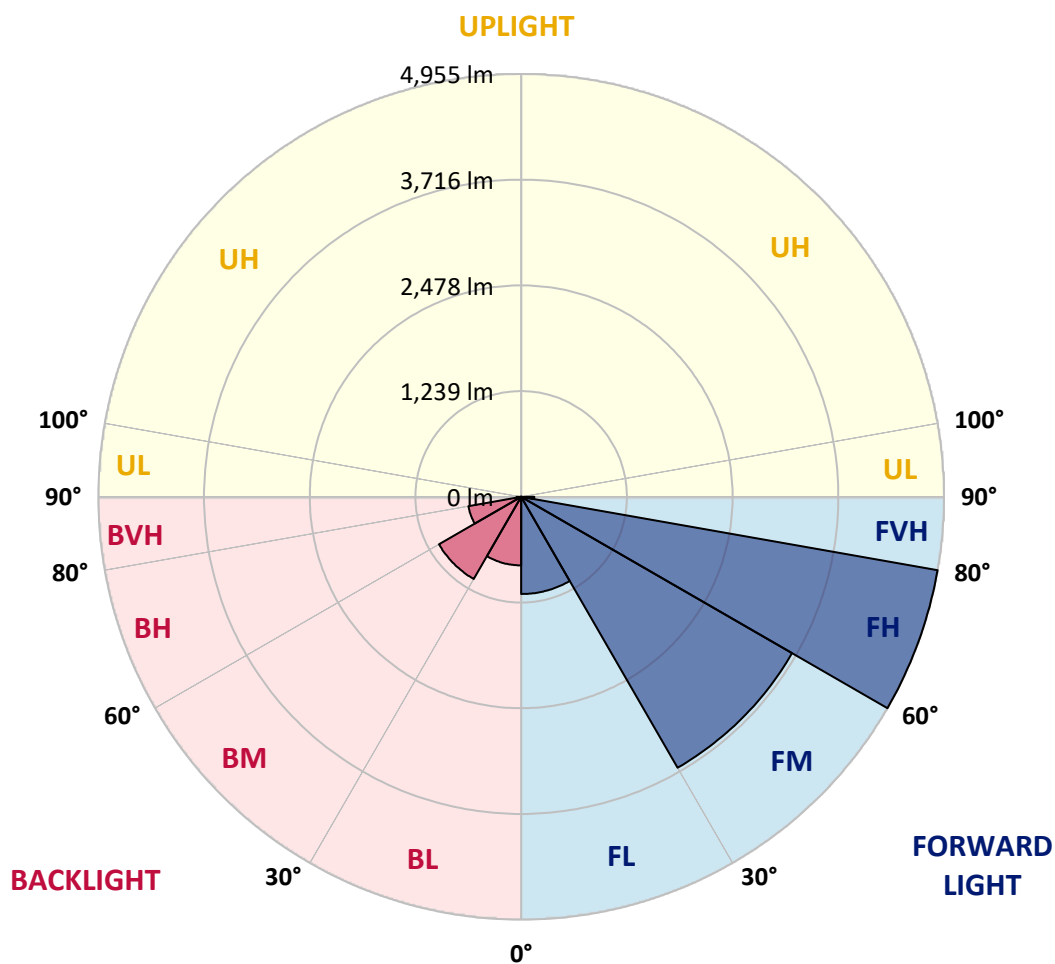
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1139.3	9.1			
FM	(30°-60°)	3665.5	29.3			
FH	(60°-80°)	4955.2	39.6			G2/5000
FVH	(80°-90°)	154.5	1.2			G2/225
BL	(0°-30°)	803.6	6.4	B2/1000		
BM	(30°-60°)	1112.0	8.9	B2/2500		
BH	(60°-80°)	627.9	5.0	B2/1000		G2/1000
BVH	(80°-90°)	53.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2669.7	2669.7	2669.7	2669.7	2669.7	2669.7	2669.7	2669.7	2669.7	2669.7	2669.7
2.5°	2710.7	2717.7	2709.2	2707.8	2707.8	2706.4	2697.9	2696.5	2685.2	2686.6	2689.4
5°	2730.4	2733.3	2727.6	2726.2	2723.3	2717.7	2710.7	2702.2	2693.7	2685.2	2678.1
7.5°	2750.2	2747.4	2743.1	2743.1	2738.9	2730.4	2716.3	2705.0	2686.6	2676.8	2664.0
10°	2778.4	2774.2	2768.5	2765.7	2758.7	2745.9	2726.2	2710.7	2688.1	2668.3	2647.2
12.5°	2805.2	2803.8	2795.3	2791.1	2779.8	2767.2	2743.1	2719.1	2689.4	2658.4	2630.2
15°	2853.3	2847.6	2839.1	2830.7	2812.3	2795.3	2758.7	2730.4	2688.1	2647.2	2603.3
17.5°	2936.6	2926.6	2918.1	2899.8	2877.2	2847.6	2793.9	2745.9	2688.1	2628.8	2579.4
20°	3089.0	3067.9	3056.6	3032.5	2993.0	2939.4	2856.1	2778.4	2692.3	2616.1	2549.7
22.5°	3261.2	3247.2	3231.6	3216.1	3154.0	3076.3	2963.3	2847.6	2717.7	2610.4	2525.7
25°	3454.6	3436.3	3427.9	3401.0	3343.1	3254.2	3100.3	2939.4	2775.5	2633.0	2525.7
27.5°	3626.9	3621.2	3619.8	3588.8	3533.7	3429.2	3247.2	3053.7	2854.6	2679.6	2546.8
30°	3783.6	3777.9	3775.1	3758.2	3694.6	3570.5	3372.7	3155.3	2940.7	2744.6	2586.4
32.5°	3950.2	3931.8	3923.4	3890.9	3818.9	3673.5	3447.6	3221.8	3008.5	2808.1	2630.2
35°	4085.7	4070.2	4053.3	4006.6	3905.0	3732.7	3480.1	3244.2	3035.3	2843.3	2652.7
37.5°	4184.6	4169.0	4145.0	4085.7	3960.1	3752.5	3478.7	3237.2	3025.5	2837.7	2657.0
40°	4228.3	4212.7	4187.4	4112.5	3969.9	3741.2	3451.8	3204.8	2995.9	2808.1	2640.1
42.5°	4211.4	4200.1	4167.6	4095.6	3938.9	3690.5	3398.1	3144.0	2939.4	2760.1	2602.0
45°	4146.4	4137.9	4106.9	4030.7	3868.3	3608.5	3319.2	3067.9	2871.6	2700.7	2551.1
47.5°	4049.0	4046.2	4015.1	3940.3	3779.4	3526.6	3237.2	2993.0	2803.8	2642.9	2508.7
50°	3941.8	3927.6	3912.1	3842.9	3696.1	3456.1	3177.9	2946.4	2765.7	2621.7	2490.4
52.5°	3874.0	3869.7	3855.6	3793.5	3652.3	3415.1	3151.1	2929.4	2762.9	2617.5	2480.5
55°	4475.3	4485.3	4355.3	4085.7	3848.5	3528.1	3231.6	3015.5	2832.0	2685.2	2585.0
57.5°	6619.9	6576.2	6353.1	5818.0	5213.8	4416.1	3841.5	3492.7	3265.5	3290.9	3341.8
60°	7712.6	7704.1	7663.2	7455.6	7053.4	6446.2	5772.8	5000.5	4754.9	4781.8	4801.6
62.5°	8201.1	8213.8	8244.9	8167.3	8061.3	7884.9	7548.8	7238.2	6909.3	6786.5	6457.5
65°	8426.9	8449.5	8520.2	8563.9	8604.9	8636.0	8768.6	9132.8	9372.8	8923.9	7879.2
67.5°	7959.7	8068.4	8301.3	8528.6	8731.9	9021.3	9470.3	10316.0	10904.7	10352.6	8837.8
70°	5802.5	5950.7	6217.5	6920.6	7671.7	8328.2	9197.8	10485.4	11373.4	10947.0	9075.0
72.5°	3638.2	3679.2	3797.7	4056.1	4613.8	5456.6	6977.1	8908.4	9933.4	9593.2	7670.3
75°	2308.3	2322.4	2318.1	2377.4	2472.0	2655.5	3257.0	5261.8	6804.9	6274.0	4274.9
77.5°	1375.1	1396.3	1404.8	1423.1	1468.3	1533.2	1582.6	1790.2	2853.3	2769.9	1551.6
80°	1152.0	1169.0	1154.8	1150.6	1122.4	1102.6	1126.6	1102.6	1023.5	985.4	907.8
82.5°	609.8	608.5	604.2	645.2	728.5	793.5	842.8	831.5	752.4	640.9	543.5
85°	334.6	345.9	345.9	360.0	347.3	348.7	360.0	379.8	351.5	293.7	240.0
87.5°	28.2	43.7	35.3	43.7	59.3	42.4	40.9	40.9	35.3	25.4	22.6
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°	2669.7	2669.7	2669.7	2669.7	2669.7	2669.7	2669.7	2669.7	2669.7	2669.7	2669.7
2.5°	2682.4	2679.6	2673.9	2669.7	2669.7	2662.6	2658.4	2655.5	2654.2	2648.5	2648.5
5°	2673.9	2664.0	2654.2	2647.2	2642.9	2635.9	2624.6	2618.9	2611.8	2606.2	2603.3
7.5°	2655.5	2637.2	2621.7	2610.4	2596.3	2585.0	2570.9	2558.1	2545.5	2539.8	2537.0
10°	2627.4	2603.3	2579.4	2558.1	2538.4	2518.7	2500.3	2482.0	2466.4	2455.1	2443.8
12.5°	2600.5	2563.8	2532.7	2501.7	2470.7	2446.6	2421.2	2394.4	2371.8	2350.7	2345.0
15°	2563.8	2521.5	2482.0	2443.8	2405.7	2366.1	2335.1	2305.5	2268.7	2244.8	2226.4
17.5°	2529.9	2479.1	2431.1	2385.9	2339.4	2298.4	2251.8	2212.2	2175.5	2138.9	2112.0
20°	2493.3	2438.1	2387.4	2336.5	2285.7	2233.5	2179.8	2129.0	2083.8	2040.0	1996.3
22.5°	2460.7	2404.2	2354.8	2299.8	2243.3	2184.0	2122.0	2058.3	2006.1	1949.6	1898.9
25°	2441.0	2378.9	2328.1	2274.4	2212.2	2147.4	2076.8	2002.0	1938.3	1873.5	1812.7
27.5°	2441.0	2360.5	2308.3	2254.6	2191.1	2122.0	2044.2	1962.4	1890.4	1818.3	1743.5
30°	2462.2	2363.3	2292.7	2236.3	2171.3	2096.5	2010.4	1924.2	1845.2	1760.5	1688.5
32.5°	2482.0	2369.0	2281.5	2209.4	2134.6	2061.2	1973.7	1882.0	1794.4	1713.9	1637.7
35°	2494.6	2369.0	2260.3	2168.5	2083.8	2011.8	1925.7	1833.9	1745.0	1665.9	1595.3
37.5°	2496.1	2357.7	2226.4	2122.0	2033.0	1958.1	1876.3	1790.2	1705.5	1632.0	1572.7
40°	2482.0	2335.1	2192.5	2072.5	1979.4	1903.1	1828.3	1750.7	1674.4	1613.7	1562.9
42.5°	2456.5	2311.1	2160.0	2033.0	1935.5	1856.5	1787.4	1720.9	1654.6	1602.4	1560.0
45°	2418.4	2278.7	2130.4	2009.0	1913.0	1829.6	1762.0	1706.8	1650.4	1606.6	1564.2
47.5°	2384.6	2267.4	2140.3	2024.6	1924.2	1838.1	1769.0	1722.4	1678.7	1649.0	1591.1
50°	2377.4	2261.7	2144.6	2037.2	1935.5	1848.1	1787.4	1763.3	1750.7	1732.2	1643.3
52.5°	2357.7	2260.3	2175.5	2116.3	2051.3	2010.4	1946.8	1969.4	1955.3	1890.4	1729.4
55°	2565.2	2593.5	2672.5	2785.5	2889.9	2914.0	2906.8	2880.1	2737.5	2354.8	1937.0
57.5°	3526.6	3686.2	3835.9	3902.2	3893.7	3818.9	3765.3	3656.6	3450.5	2984.6	2346.4
60°	4862.2	4887.7	4808.6	4691.4	4493.8	4328.6	4152.1	3948.8	3649.5	3193.5	2597.7
62.5°	6091.9	5750.3	5398.7	5068.3	4767.7	4505.1	4259.4	3975.6	3585.9	3110.2	2565.2
65°	6960.1	6237.3	5682.5	5208.1	4783.1	4416.1	4109.7	3741.2	3302.2	2873.0	2377.4
67.5°	7407.7	6299.4	5448.1	4787.4	4184.6	3676.3	3268.3	2909.7	2583.6	2395.9	2080.9
70°	6907.9	5346.4	4160.5	3413.7	2692.3	2158.7	1705.5	1431.6	1337.0	1514.8	1575.5
72.5°	5147.4	3480.1	2474.9	1914.4	1466.8	1169.0	896.5	704.5	573.2	601.5	780.7
75°	2433.9	1502.2	1061.7	807.6	642.4	532.2	434.8	398.1	333.2	276.7	259.8
77.5°	947.4	690.4	570.4	417.9	296.5	238.5	203.3	196.3	200.5	194.8	192.0
80°	721.5	488.5	306.3	224.5	193.4	170.8	151.1	145.4	148.2	155.3	162.4
82.5°	402.4	251.3	186.3	162.4	145.4	124.2	113.0	104.5	105.9	114.4	129.8
85°	155.3	121.5	111.5	107.3	100.2	80.5	69.2	70.6	80.5	96.0	96.0
87.5°	16.9	16.9	22.6	16.9	16.9	16.9	15.5	18.3	19.8	25.4	29.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2669.7	2669.7	2669.7	2669.7	2669.7	2669.7	2669.7	2669.7	2669.7	2669.7	2669.7
2.5°	2645.7	2645.7	2645.7	2642.9	2644.2	2638.7	2638.7	2634.4	2641.5	2637.2	2635.9
5°	2604.8	2603.3	2597.7	2597.7	2597.7	2597.7	2602.0	2590.7	2599.1	2599.1	2594.9
7.5°	2535.5	2535.5	2520.0	2528.5	2525.7	2529.9	2535.5	2529.9	2538.4	2544.0	2539.8
10°	2439.6	2439.6	2426.8	2436.8	2432.5	2442.4	2452.3	2446.6	2452.3	2460.7	2463.6
12.5°	2333.7	2328.1	2316.8	2321.0	2321.0	2326.6	2330.9	2337.9	2345.0	2356.3	2362.0
15°	2210.9	2202.4	2188.3	2188.3	2179.8	2182.6	2191.1	2193.9	2208.1	2223.5	2242.0
17.5°	2085.2	2064.0	2048.5	2030.2	2016.1	2027.4	2037.2	2044.2	2055.5	2079.6	2092.2
20°	1966.6	1924.2	1894.6	1870.7	1855.1	1862.2	1874.8	1883.3	1893.3	1898.9	1903.1
22.5°	1849.4	1801.5	1760.5	1730.9	1705.5	1712.5	1706.8	1702.6	1709.6	1691.3	1689.9
25°	1747.8	1691.3	1636.3	1600.9	1569.9	1560.0	1530.4	1523.3	1503.5	1488.0	1476.7
27.5°	1674.4	1600.9	1540.3	1499.3	1449.9	1413.2	1375.1	1337.0	1315.8	1290.4	1277.7
30°	1616.5	1538.9	1466.8	1397.7	1332.7	1276.3	1225.4	1176.1	1142.2	1105.4	1081.5
32.5°	1562.9	1490.9	1403.3	1308.7	1221.2	1157.7	1091.3	1034.8	981.2	933.2	897.9
35°	1526.1	1445.7	1334.1	1218.3	1119.6	1044.8	974.1	893.7	828.7	766.6	728.5
37.5°	1506.4	1407.6	1270.6	1142.2	1032.0	947.4	859.8	766.6	687.6	629.6	571.8
40°	1490.9	1369.4	1214.1	1074.4	958.7	857.0	755.3	645.2	557.6	497.0	451.8
42.5°	1473.9	1327.0	1164.8	1020.7	892.2	773.7	650.9	533.7	450.4	408.0	388.3
45°	1455.5	1290.4	1118.1	969.9	827.4	683.3	542.2	433.5	384.0	369.8	369.8
47.5°	1451.3	1266.4	1084.2	920.5	753.9	578.9	441.9	374.1	360.0	362.8	368.5
50°	1468.3	1259.3	1054.6	862.6	656.5	468.7	374.1	351.5	354.4	362.8	371.3
52.5°	1509.2	1265.0	1023.5	782.2	540.7	386.8	345.9	344.5	353.0	365.7	374.1
55°	1578.3	1265.0	964.2	662.2	432.0	347.3	336.0	341.7	353.0	364.2	371.3
57.5°	1726.6	1252.2	859.8	529.4	361.5	333.2	333.2	340.2	350.2	361.5	367.0
60°	1903.1	1235.3	713.0	409.4	326.1	321.9	331.8	340.2	348.7	358.5	364.2
62.5°	1914.4	1191.5	564.8	338.9	307.8	314.8	330.4	341.7	344.5	351.5	358.5
65°	1759.1	1039.1	448.9	303.5	299.3	310.6	326.1	334.6	336.0	338.9	345.9
67.5°	1540.3	847.0	362.8	286.6	290.9	303.5	312.0	319.1	323.3	330.4	331.8
70°	1265.0	680.5	310.6	269.6	273.9	288.0	295.0	302.1	310.6	319.1	314.8
72.5°	896.5	529.4	272.4	251.3	257.0	269.6	278.1	283.7	290.9	299.3	293.7
75°	381.1	369.8	235.8	227.3	235.8	244.2	252.7	261.1	268.3	272.4	272.4
77.5°	194.8	217.4	203.3	203.3	208.9	217.4	224.5	233.0	237.2	241.5	247.0
80°	165.2	168.0	170.8	176.5	182.1	190.6	197.6	204.7	206.1	207.6	210.4
82.5°	137.0	142.6	145.4	153.9	158.1	160.9	165.2	165.2	168.0	168.0	163.7
85°	98.9	105.9	110.2	111.5	110.2	111.5	113.0	115.8	122.8	122.8	117.2
87.5°	28.2	26.8	33.9	35.3	38.1	43.7	49.4	59.3	62.1	65.0	65.0
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°	2669.7	2669.7	2669.7	2669.7
2.5°	2634.4	2637.2	2631.6	2633.0
5°	2594.9	2600.5	2593.5	2602.0
7.5°	2544.0	2552.5	2551.1	2549.7
10°	2470.7	2482.0	2482.0	2486.2
12.5°	2377.4	2384.6	2390.2	2393.0
15°	2251.8	2264.6	2271.6	2271.6
17.5°	2100.7	2109.2	2113.5	2107.8
20°	1908.7	1905.9	1907.4	1893.3
22.5°	1687.0	1691.3	1678.7	1681.5
25°	1469.6	1462.6	1468.3	1459.8
27.5°	1259.3	1260.7	1245.2	1252.2
30°	1058.9	1051.8	1032.0	1041.9
32.5°	865.4	847.0	825.9	813.2
35°	683.3	655.0	645.2	640.9
37.5°	536.5	505.4	495.5	484.2
40°	426.3	415.0	410.9	413.7
42.5°	382.6	382.6	385.4	386.8
45°	371.3	375.5	379.8	381.1
47.5°	372.7	377.0	382.6	384.0
50°	375.5	379.8	384.0	385.4
52.5°	377.0	377.0	379.8	381.1
55°	374.1	372.7	374.1	375.5
57.5°	368.5	365.7	367.0	371.3
60°	365.7	361.5	364.2	367.0
62.5°	358.5	357.2	360.0	361.5
65°	343.1	344.5	348.7	348.7
67.5°	328.9	330.4	331.8	333.2
70°	312.0	313.4	316.3	317.6
72.5°	292.2	297.9	302.1	307.8
75°	276.7	282.4	290.9	296.5
77.5°	249.8	254.1	264.0	271.1
80°	211.8	210.4	211.8	216.0
82.5°	162.4	162.4	160.9	159.5
85°	114.4	113.0	108.7	108.7
87.5°	62.1	60.7	59.3	56.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)