

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: P148707

Luminaire Tested: **VXM-F05-LED-E1-RW-7060**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P148707
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXM-F05-LED-E1-RW-7060
Description: VISION SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (35) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13231 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

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

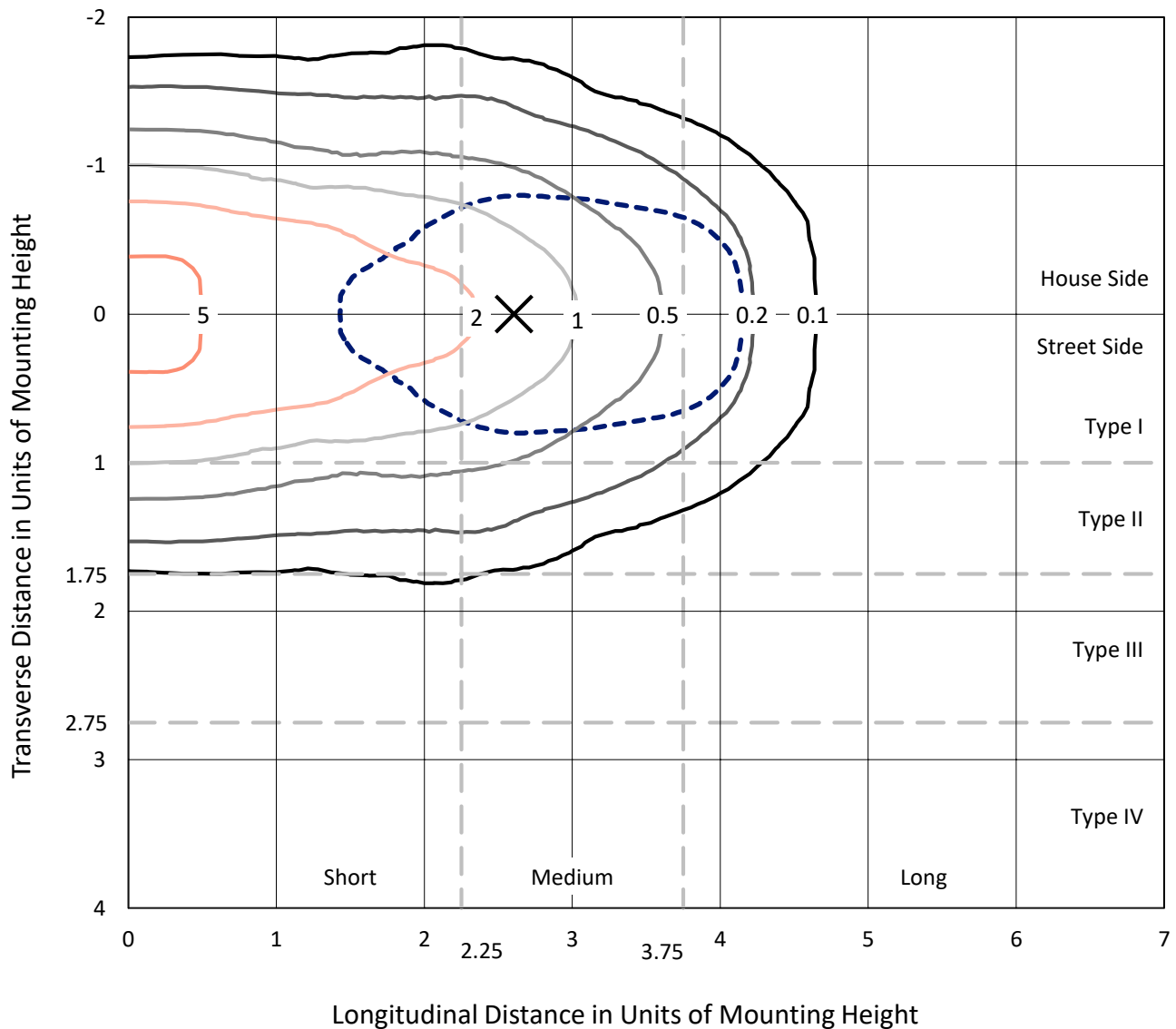


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

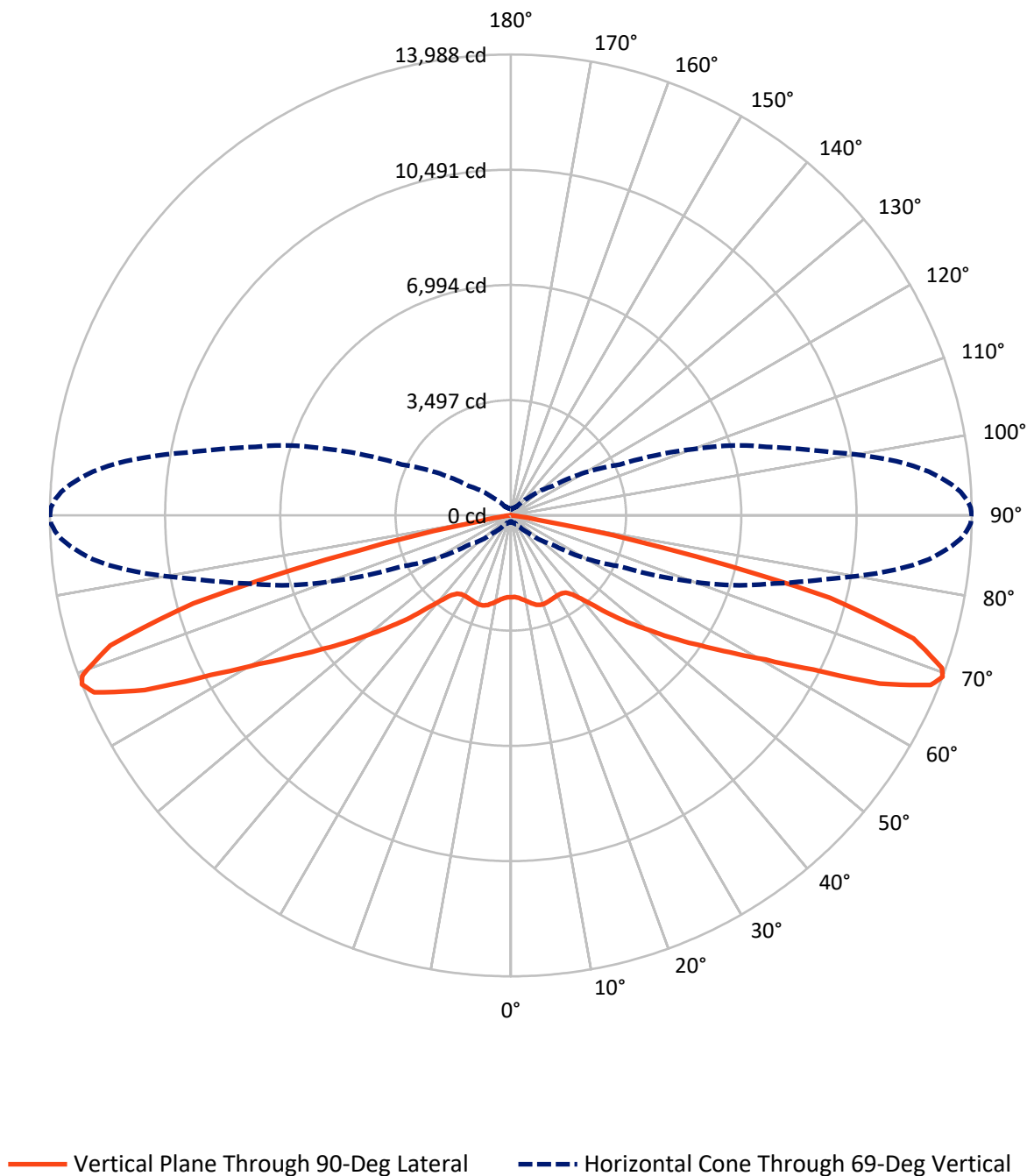


Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



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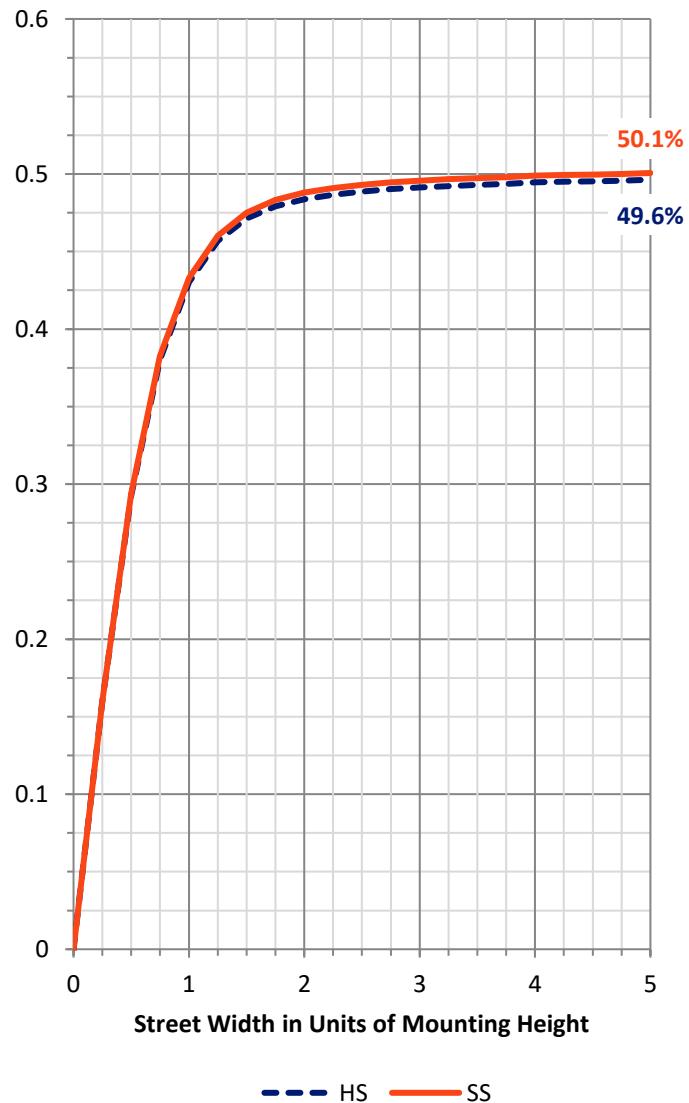
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6615.5	0.0	6615.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6615.5	0.0	6615.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13231.0	0.0	13231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.2	1.8
10°-20°	767.1	5.8
20°-30°	1242.8	9.4
30°-40°	1548.9	11.7
40°-50°	1935.5	14.6
50°-60°	2389.9	18.1
60°-70°	2969.6	22.4
70°-80°	1971.4	14.9
80°-90°	162.8	1.2
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°	13231.0	100.0
0°-180°	13231.0	100.0

Coefficient of Utilization



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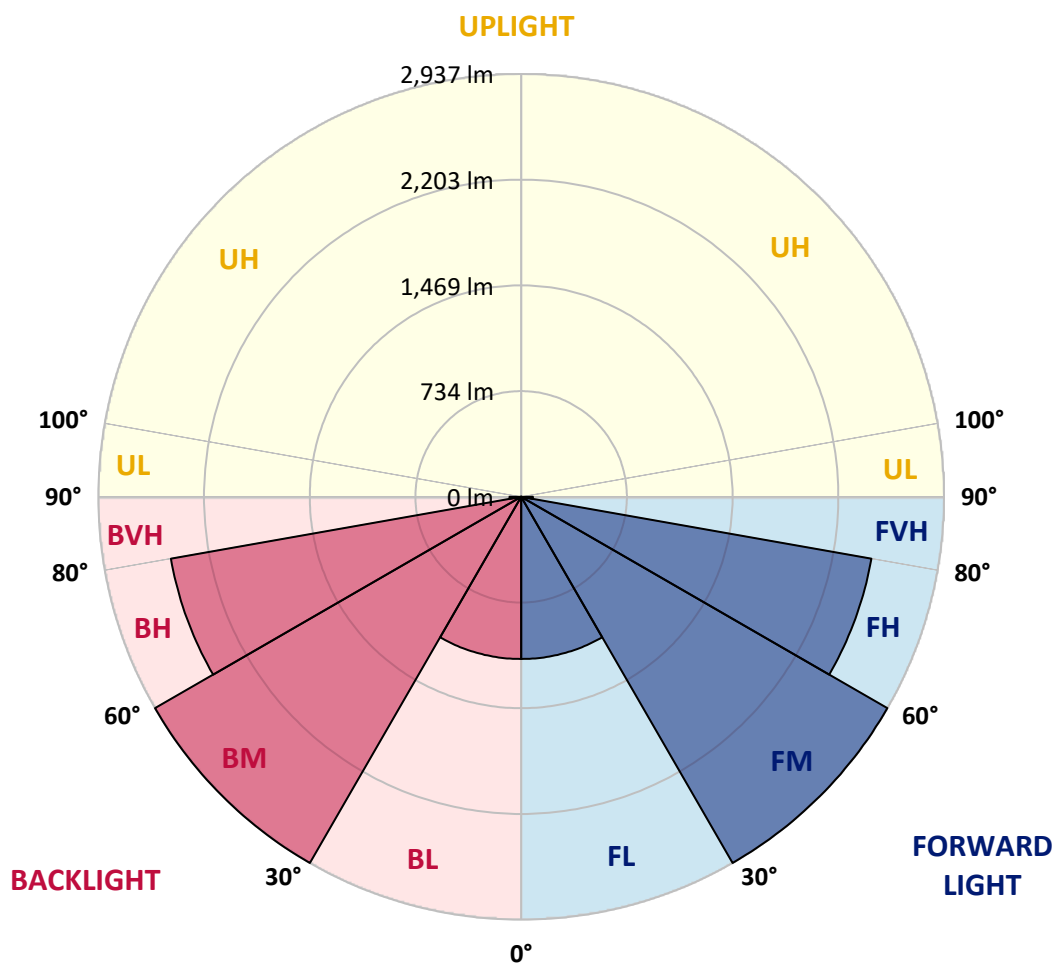
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1126.5	8.5			
FM	(30°-60°)	2937.1	22.2			
FH	(60°-80°)	2470.5	18.7			G2/5000
FVH	(80°-90°)	81.4	0.6			G1/100
BL	(0°-30°)	1126.5	8.5	B3/2500		
BM	(30°-60°)	2937.1	22.2	B3/5000		
BH	(60°-80°)	2470.5	18.7	B3/2500		G3/2500
BVH	(80°-90°)	81.4	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	2479.1	2479.1	2479.1	2479.1	2479.1	2479.1	2479.1	2479.1	2479.1	2479.1	2479.1
2.5°	2490.4	2492.6	2491.1	2494.0	2493.2	2493.2	2491.8	2489.0	2488.6	2488.3	2487.9
5°	2514.4	2511.6	2515.8	2520.0	2518.6	2519.4	2518.6	2518.6	2518.4	2518.1	2517.8
7.5°	2539.8	2539.1	2541.9	2553.2	2554.6	2558.9	2563.8	2567.3	2567.5	2567.6	2567.8
10°	2561.7	2562.4	2569.4	2585.7	2594.1	2607.6	2621.0	2631.6	2632.4	2633.2	2633.9
12.5°	2579.4	2580.0	2590.6	2616.0	2636.5	2662.0	2690.9	2707.1	2708.5	2709.9	2711.3
15°	2580.8	2582.8	2601.2	2642.9	2683.8	2725.4	2760.0	2782.0	2783.1	2784.2	2785.3
17.5°	2562.4	2563.8	2594.9	2656.3	2724.8	2789.7	2825.7	2835.6	2836.0	2836.4	2836.9
20°	2514.4	2517.9	2561.7	2652.8	2757.2	2841.9	2879.4	2866.0	2864.6	2863.3	2861.9
22.5°	2436.8	2436.0	2493.2	2616.0	2763.6	2882.9	2916.0	2880.8	2876.6	2872.4	2868.3
25°	2311.1	2319.6	2386.6	2533.5	2727.6	2892.0	2942.2	2888.5	2882.5	2876.5	2870.5
27.5°	2174.9	2179.8	2251.1	2408.5	2643.6	2860.3	2954.9	2904.0	2897.3	2890.6	2883.9
30°	2016.0	2022.4	2098.6	2263.1	2508.8	2778.4	2951.4	2939.4	2931.5	2923.7	2915.8
32.5°	1860.8	1867.8	1936.2	2116.2	2366.8	2666.2	2930.2	2989.5	2981.5	2973.4	2965.4
35°	1699.8	1710.4	1793.7	1975.8	2229.9	2541.2	2897.8	3053.7	3049.3	3044.8	3040.4
37.5°	1566.4	1568.5	1649.0	1840.2	2102.9	2422.0	2854.6	3134.8	3138.1	3141.4	3144.6
40°	1417.4	1430.8	1511.3	1713.2	1987.8	2321.0	2813.7	3245.0	3261.9	3278.7	3295.6
42.5°	1284.0	1285.4	1367.3	1575.6	1862.8	2239.8	2791.2	3377.7	3413.8	3449.8	3485.9
45°	1143.6	1149.2	1223.3	1424.5	1718.8	2143.8	2790.4	3530.9	3588.5	3646.1	3703.7
47.5°	1010.8	1013.0	1091.3	1278.4	1553.7	2009.7	2785.4	3695.4	3773.8	3852.2	3930.6
50°	883.8	881.6	958.6	1138.6	1390.6	1834.0	2742.4	3881.7	3980.7	4079.8	4178.8
52.5°	738.3	748.2	828.0	1000.2	1242.4	1655.4	2616.8	4085.8	4204.2	4322.6	4441.1
55°	595.8	600.0	685.4	846.4	1092.0	1488.8	2398.0	4273.5	4413.1	4552.7	4692.4
57.5°	439.0	451.8	526.6	685.4	939.6	1348.3	2119.8	4370.9	4540.8	4710.7	4880.6
60°	309.9	319.8	386.2	519.6	772.2	1200.7	1880.5	4316.6	4537.4	4758.2	4979.0
62.5°	241.4	249.2	302.1	389.0	602.2	1053.2	1709.0	4140.8	4441.2	4741.7	5042.1
65°	211.8	218.8	266.8	311.3	449.6	902.8	1615.1	3955.1	4352.2	4749.4	5146.5
67.5°	191.3	199.8	241.4	272.5	366.4	787.8	1590.4	3838.0	4287.8	4737.5	5187.4
69°	182.1	190.6	228.0	254.2	340.2	746.8	1548.0	3653.7	4100.9	4548.1	4995.3
70°	176.5	183.5	218.1	245.0	331.8	718.6	1477.4	3423.6	3862.7	4301.9	4741.0
72.5°	163.8	167.3	197.6	223.8	307.8	581.0	1136.4	2542.6	2923.3	3304.0	3684.7
75°	144.7	149.0	177.1	202.6	240.0	360.7	719.3	1572.8	1856.9	2141.1	2425.3
77.5°	125.0	128.4	153.2	193.4	186.4	225.2	429.9	875.4	1040.2	1205.0	1369.8
80°	100.2	104.4	126.4	192.0	153.8	175.1	309.2	612.0	656.5	701.0	745.4
82.5°	73.4	76.9	98.8	155.3	117.8	132.0	235.8	518.8	534.3	549.8	565.2
85°	37.4	38.2	62.8	94.6	74.8	68.4	132.7	355.0	364.9	374.8	384.7
87.5°	6.4	6.4	14.1	16.2	18.4	11.3	17.0	60.7	62.6	64.5	66.4
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°	2479.1	2479.1	2479.1	2479.1	2479.1	2479.1	2479.1	2479.1	2479.1	2479.1	2479.1
2.5°	2487.6	2487.2	2486.0	2486.3	2487.2	2486.7	2487.6	2487.7	2488.6	2485.9	2485.3
5°	2517.5	2517.2	2517.1	2517.0	2517.5	2517.4	2518.0	2519.1	2518.8	2517.1	2516.8
7.5°	2567.9	2568.0	2568.8	2568.1	2569.5	2568.8	2567.4	2569.6	2571.2	2571.3	2572.9
10°	2634.7	2635.5	2638.0	2637.6	2640.1	2639.7	2640.1	2642.5	2644.2	2644.4	2646.1
12.5°	2712.7	2714.2	2715.4	2716.7	2719.4	2717.8	2721.2	2722.6	2724.7	2729.0	2726.8
15°	2786.4	2787.6	2791.4	2791.7	2794.1	2795.1	2798.2	2799.4	2800.0	2803.4	2804.0
17.5°	2837.3	2837.7	2839.1	2838.4	2840.5	2839.8	2842.0	2843.1	2844.9	2846.8	2850.0
20°	2860.6	2859.2	2858.5	2857.7	2856.2	2854.0	2854.6	2855.6	2855.9	2857.6	2860.0
22.5°	2864.1	2859.9	2855.6	2852.7	2848.4	2844.8	2841.2	2841.5	2841.8	2841.4	2843.0
25°	2864.5	2858.5	2851.8	2843.7	2837.7	2829.6	2822.8	2822.3	2820.3	2820.5	2821.3
27.5°	2877.2	2870.5	2861.1	2851.7	2838.8	2828.0	2817.2	2813.4	2809.6	2807.2	2806.2
30°	2908.0	2900.2	2889.0	2877.0	2863.0	2846.1	2830.6	2825.8	2820.4	2815.5	2811.4
32.5°	2957.3	2949.3	2936.8	2924.4	2905.6	2888.9	2873.7	2865.9	2858.2	2849.7	2842.0
35°	3035.9	3031.5	3020.5	3009.6	2995.8	2982.8	2969.0	2960.3	2947.2	2940.6	2931.2
37.5°	3147.9	3151.1	3151.1	3152.5	3148.3	3142.0	3132.1	3122.9	3118.6	3101.0	3089.7
40°	3312.5	3329.3	3344.8	3356.8	3367.3	3377.8	3386.9	3381.5	3383.2	3378.5	3371.8
42.5°	3522.0	3558.0	3591.0	3624.0	3647.8	3685.0	3710.9	3719.1	3740.0	3748.2	3763.4
45°	3761.3	3818.9	3874.2	3925.3	3972.9	4026.2	4078.0	4116.5	4158.6	4206.3	4254.0
47.5°	4009.0	4087.5	4169.0	4235.7	4304.6	4383.2	4452.1	4510.1	4585.8	4655.8	4732.9
50°	4277.9	4376.9	4469.7	4552.0	4640.5	4731.2	4825.5	4910.8	5013.0	5125.1	5246.4
52.5°	4559.5	4678.0	4785.5	4888.6	4992.5	5096.5	5196.8	5317.2	5443.3	5591.3	5742.8
55°	4832.0	4971.6	5093.5	5208.2	5327.2	5443.4	5546.9	5708.0	5862.7	6039.4	6237.2
57.5°	5050.5	5220.5	5361.0	5497.3	5631.5	5755.1	5882.2	6063.9	6261.1	6467.6	6718.4
60°	5199.8	5420.6	5600.0	5763.9	5928.6	6084.0	6230.2	6467.7	6702.4	6958.8	7271.1
62.5°	5342.5	5643.0	5877.0	6100.5	6322.6	6522.1	6703.9	7002.7	7309.2	7626.2	7997.7
65°	5543.7	5940.8	6285.6	6597.2	6904.5	7197.7	7469.8	7848.3	8235.2	8652.6	9096.0
67.5°	5637.2	6087.0	6535.9	6955.9	7346.3	7717.6	8067.0	8524.6	8980.0	9463.7	9999.6
69°	5442.4	5889.6	6369.6	6828.3	7259.6	7653.4	8031.7	8498.9	8972.4	9466.4	10007.0
70°	5180.1	5619.3	6103.8	6583.2	6995.7	7406.1	7798.0	8261.5	8741.3	9236.5	9802.4
72.5°	4065.4	4446.1	4918.5	5383.9	5797.8	6209.5	6590.2	7064.6	7547.5	8067.7	8603.5
75°	2709.5	2993.7	3345.7	3777.4	4156.9	4520.8	4889.8	5291.0	5762.1	6190.8	6681.0
77.5°	1534.6	1699.4	1904.0	2184.7	2457.0	2674.8	2938.0	3126.7	3400.2	3636.2	3885.7
80°	789.9	834.4	895.4	962.7	1001.1	995.1	1034.2	995.4	1004.0	972.4	938.7
82.5°	580.7	596.1	623.7	637.2	635.8	591.5	544.2	478.7	421.0	360.4	304.8
85°	394.6	404.4	411.4	421.8	418.8	399.6	357.2	300.3	244.8	196.4	157.1
87.5°	68.3	70.2	69.7	75.6	75.8	70.3	57.8	49.4	41.6	31.1	21.9
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°	86°	87°	88°	89°	90°
0°	2479.1	2479.1	2479.1	2479.1	2479.1	2479.1	2479.1	2479.1	2479.1	2479.1	2479.1
2.5°	2484.8	2484.8	2486.1	2484.8	2484.8	2484.8	2484.0	2485.5	2484.8	2482.6	2480.5
5°	2517.2	2515.1	2514.4	2515.8	2517.2	2514.4	2516.5	2518.6	2515.1	2515.8	2514.4
7.5°	2571.6	2570.8	2570.2	2571.6	2571.6	2570.9	2571.6	2569.4	2568.0	2570.2	2572.3
10°	2644.2	2643.6	2645.0	2645.0	2647.8	2646.4	2645.7	2647.8	2646.4	2645.0	2645.7
12.5°	2729.7	2727.6	2731.1	2731.1	2733.2	2733.2	2732.6	2733.2	2732.6	2730.4	2729.0
15°	2806.0	2803.1	2803.8	2809.4	2808.8	2810.1	2810.2	2808.8	2808.0	2807.4	2808.1
17.5°	2851.8	2850.4	2850.4	2853.2	2855.4	2854.6	2854.6	2854.6	2854.0	2854.6	2856.1
20°	2860.3	2860.2	2861.0	2863.8	2867.4	2865.2	2865.2	2866.6	2865.2	2866.6	2867.4
22.5°	2844.0	2845.4	2846.9	2850.4	2851.1	2851.1	2851.2	2851.8	2853.2	2853.2	2854.6
25°	2821.5	2822.9	2825.0	2827.8	2830.6	2830.6	2830.6	2832.0	2832.1	2832.8	2833.5
27.5°	2804.5	2805.9	2808.0	2810.8	2814.4	2814.4	2814.5	2815.8	2815.9	2816.5	2817.9
30°	2806.6	2803.8	2806.0	2807.4	2809.5	2809.4	2808.8	2809.5	2810.1	2810.2	2810.9
32.5°	2837.0	2830.6	2828.6	2827.8	2828.6	2826.4	2825.7	2824.3	2822.8	2822.9	2822.2
35°	2917.5	2907.6	2906.9	2901.2	2895.6	2890.0	2890.6	2886.5	2887.8	2884.3	2881.5
37.5°	3082.6	3071.4	3078.4	3066.4	3058.6	3053.0	3046.6	3038.2	3033.2	3039.6	3039.6
40°	3378.4	3370.6	3368.5	3370.6	3363.6	3367.1	3351.6	3347.4	3338.2	3344.6	3353.0
42.5°	3787.2	3782.2	3809.0	3814.0	3816.8	3821.0	3823.8	3800.6	3799.8	3794.9	3780.8
45°	4291.8	4321.5	4320.0	4352.5	4354.0	4344.1	4348.4	4337.8	4333.5	4318.0	4337.0
47.5°	4810.7	4867.2	4888.3	4895.4	4922.2	4928.6	4903.2	4894.7	4909.5	4884.1	4887.6
50°	5367.6	5428.4	5477.8	5510.9	5530.0	5531.4	5512.4	5508.2	5521.5	5473.5	5496.1
52.5°	5915.4	6007.2	6100.4	6149.8	6185.0	6187.8	6202.7	6185.0	6192.1	6180.8	6203.4
55°	6455.4	6614.2	6723.6	6820.4	6881.8	6934.7	6939.6	6958.7	6960.2	6983.4	6960.1
57.5°	6983.4	7156.4	7347.0	7518.5	7613.8	7673.8	7730.2	7807.2	7824.2	7815.0	7829.8
60°	7606.7	7874.3	8133.3	8331.0	8495.4	8652.9	8737.6	8858.3	8877.4	8929.6	8884.4
62.5°	8394.5	8782.8	9134.3	9400.4	9650.3	9895.2	10080.2	10173.3	10229.8	10339.2	10303.3
65°	9603.0	10069.0	10534.0	10915.2	11265.4	11557.0	11837.9	11972.0	12120.2	12275.6	12303.8
67.5°	10598.4	11175.0	11699.6	12164.0	12588.2	12912.2	13204.4	13436.8	13617.4	13731.8	13741.0
69°	10643.6	11242.8	11812.4	12310.8	12753.4	13097.9	13405.7	13664.0	13839.8	13957.0	13988.0
70°	10427.5	11041.0	11648.0	12151.3	12604.5	12956.8	13282.8	13529.2	13725.4	13844.7	13886.4
72.5°	9212.6	9867.7	10516.4	10957.6	11420.7	11840.0	12101.2	12352.5	12629.2	12665.2	12779.5
75°	7262.2	7812.8	8316.2	8653.6	9040.4	9416.7	9672.9	9739.2	9884.0	10066.1	10001.1
77.5°	4208.6	4378.0	4702.7	4786.0	4715.4	4879.2	4933.5	4817.7	4812.1	4918.6	4706.9
80°	932.5	879.6	945.9	896.5	897.9	899.3	884.4	878.8	889.4	878.8	864.0
82.5°	258.4	249.9	251.3	248.5	253.4	249.9	247.8	253.4	252.7	252.0	256.9
85°	124.2	122.8	120.7	120.0	117.2	113.6	108.0	108.0	110.8	106.6	108.7
87.5°	16.2	15.6	15.5	18.4	16.2	13.4	13.4	13.4	12.7	12.7	12.7
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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