

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: P148698

Luminaire Tested: **VXM-E05-LED-E1-RW-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P148698
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-E05-LED-E1-RW-8030
Description: VISION SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13182.9 lumens
Efficiency: N/A
Efficacy: 103.6 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): 127.3
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

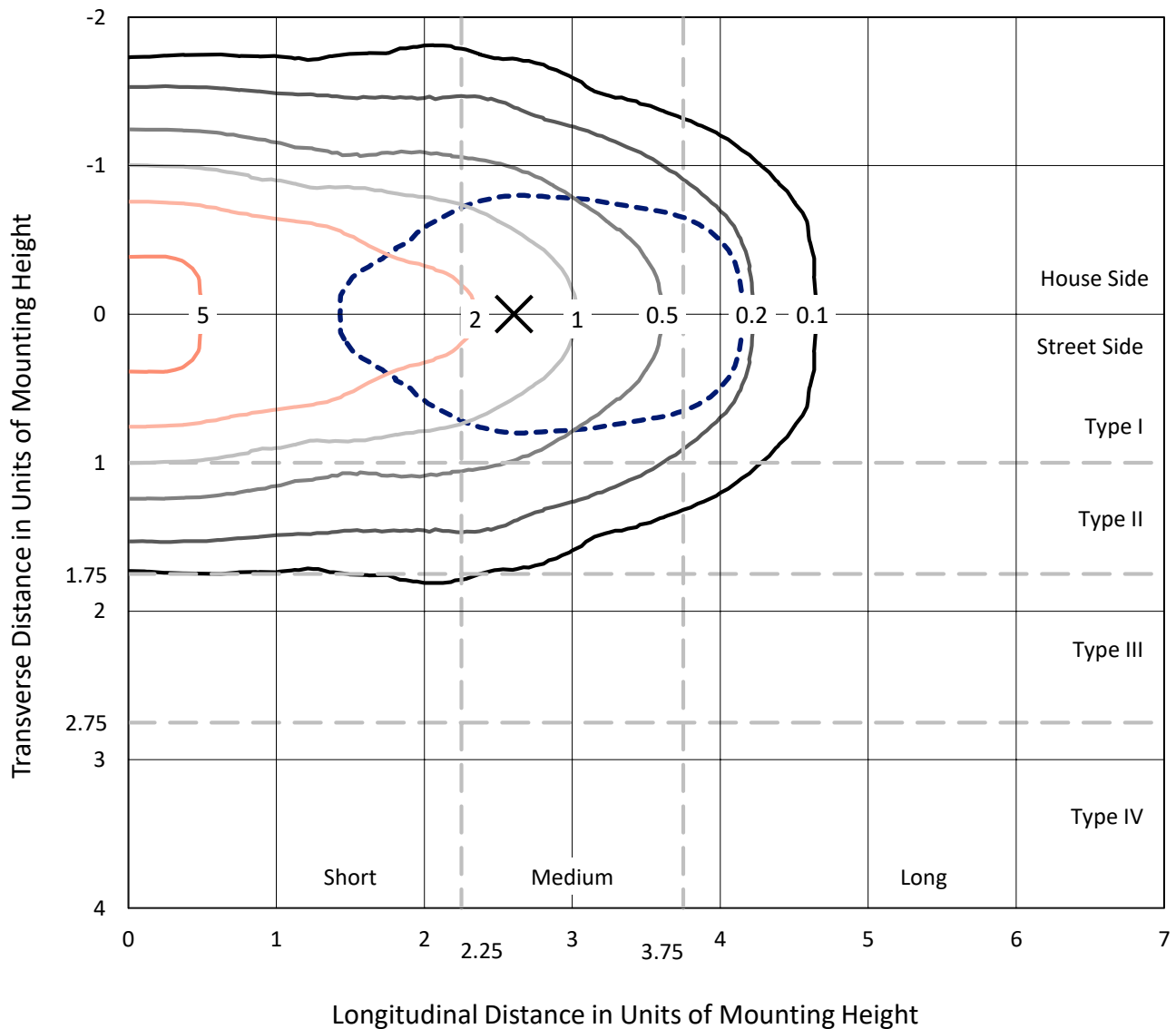


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

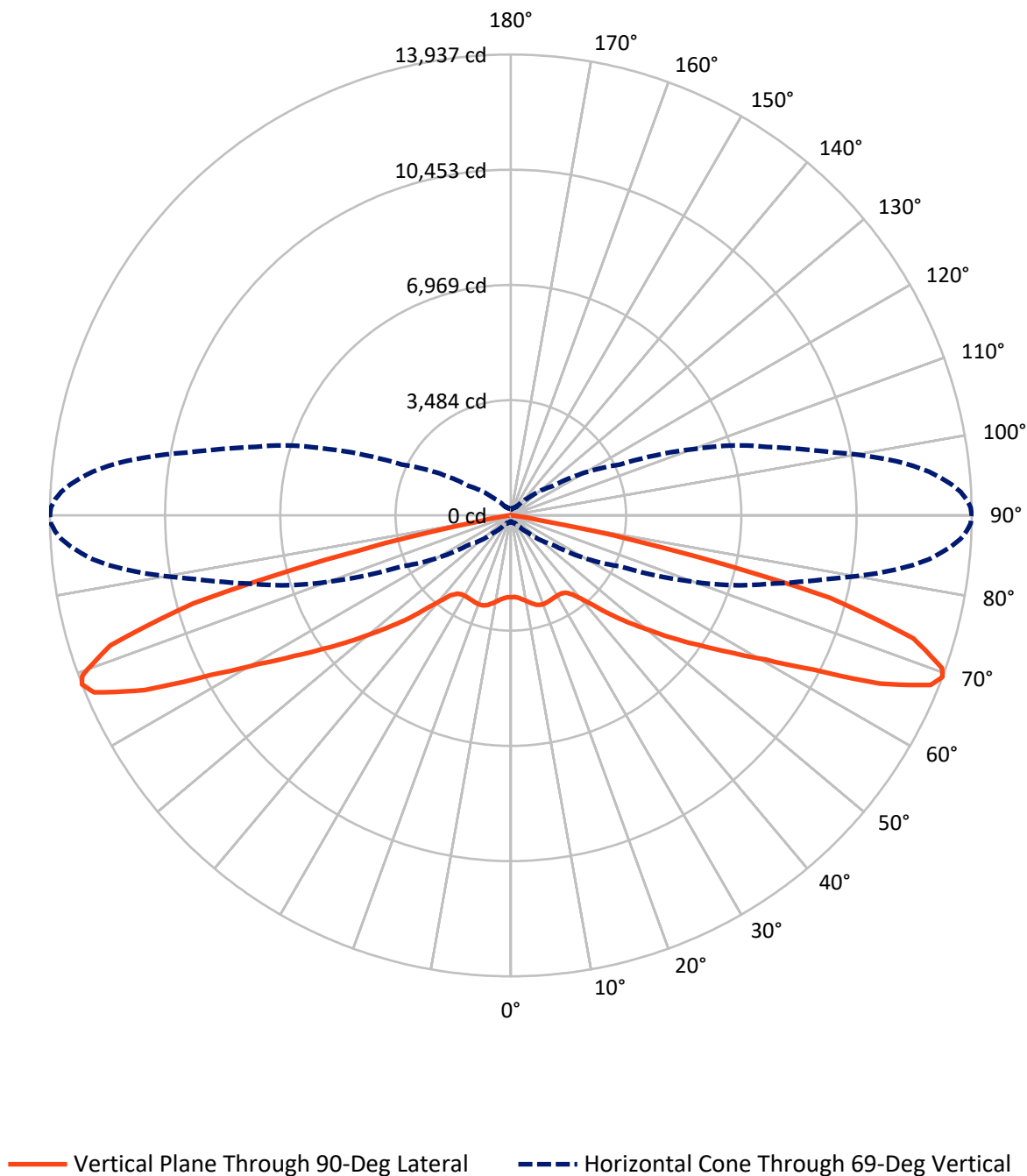


Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



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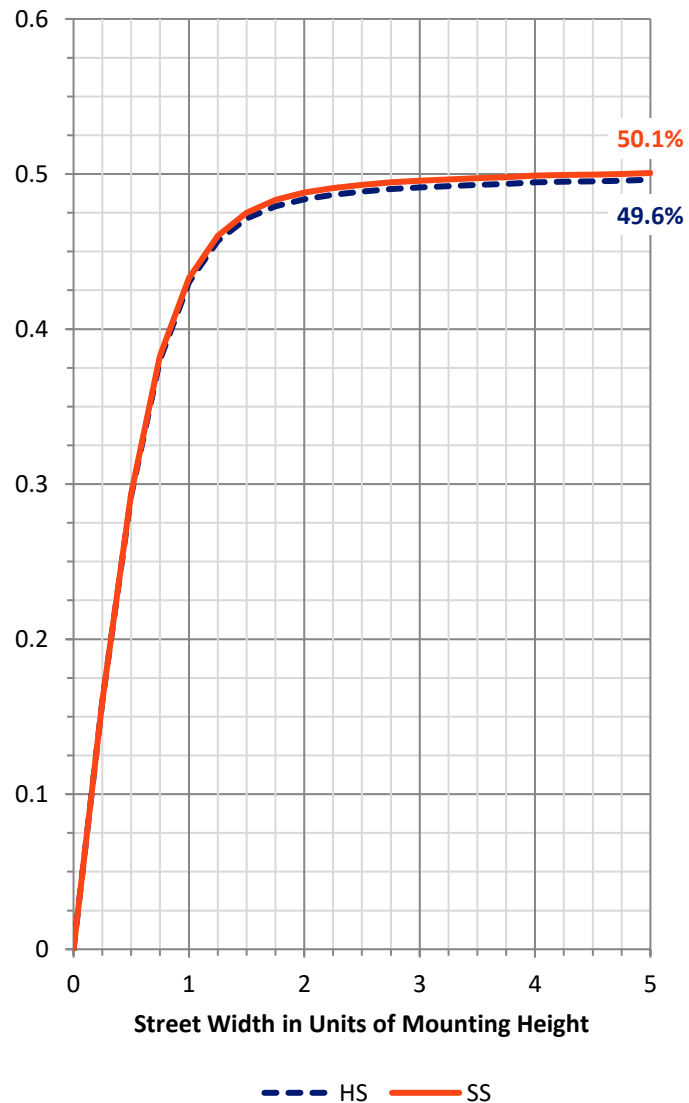
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6591.4	0.0	6591.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6591.4	0.0	6591.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	13182.9	0.0	13182.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.3	1.8
10°-20°	764.3	5.8
20°-30°	1238.3	9.4
30°-40°	1543.2	11.7
40°-50°	1928.4	14.6
50°-60°	2381.2	18.1
60°-70°	2958.8	22.4
70°-80°	1964.2	14.9
80°-90°	162.2	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°	13182.9	100.0
0°-180°	13182.9	100.0

Coefficient of Utilization



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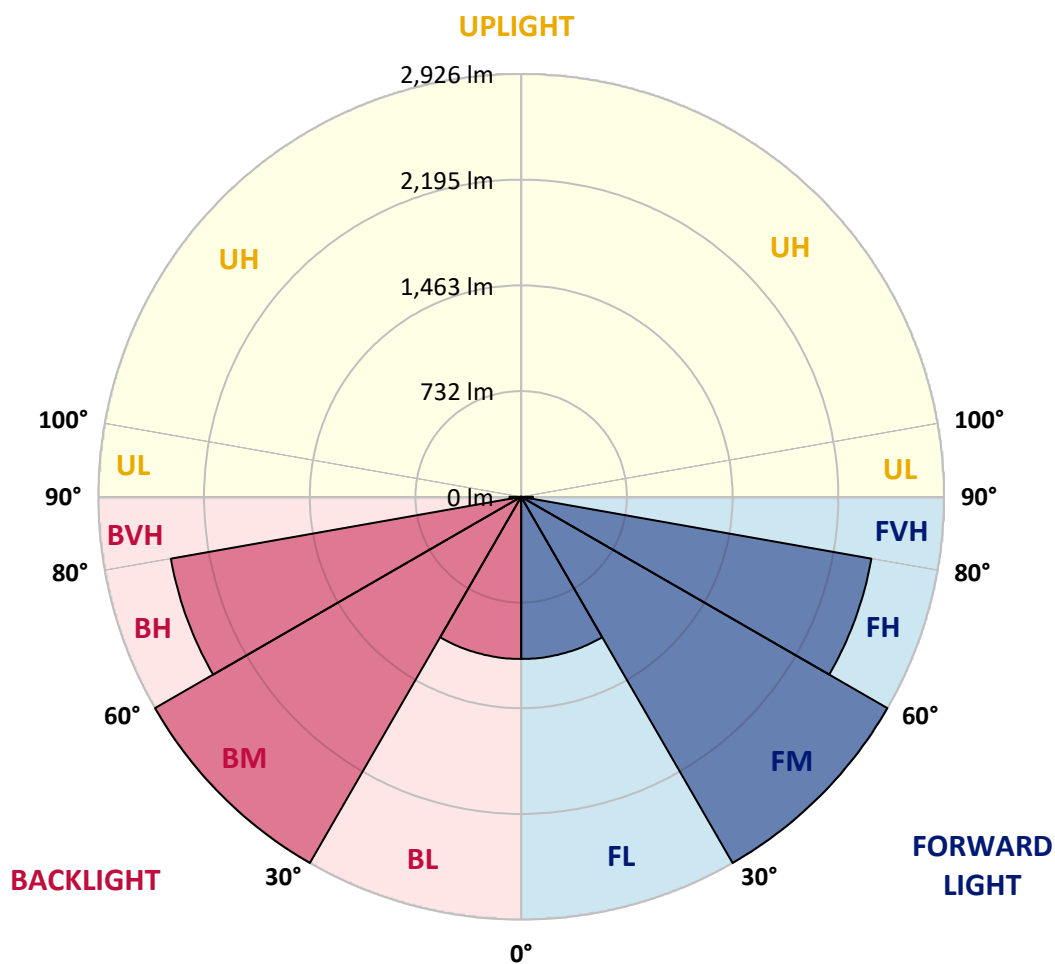
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1122.4	8.5			
FM	(30°-60°)	2926.4	22.2			
FH	(60°-80°)	2461.5	18.7			G2/5000
FVH	(80°-90°)	81.1	0.6			G1/100
BL	(0°-30°)	1122.4	8.5	B3/2500		
BM	(30°-60°)	2926.4	22.2	B3/5000		
BH	(60°-80°)	2461.5	18.7	B3/2500		G3/2500
BVH	(80°-90°)	81.1	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°	2470.1	2470.1	2470.1	2470.1	2470.1	2470.1	2470.1	2470.1	2470.1	2470.1	2470.1
2.5°	2481.3	2483.4	2482.0	2484.9	2484.2	2484.2	2482.8	2479.9	2479.6	2479.2	2478.9
5°	2505.2	2502.4	2506.7	2510.9	2509.4	2510.2	2509.5	2509.4	2509.2	2508.9	2508.6
7.5°	2530.6	2529.9	2532.6	2544.0	2545.3	2549.6	2554.5	2558.0	2558.1	2558.3	2558.4
10°	2552.4	2553.0	2560.1	2576.2	2584.7	2598.0	2611.4	2622.0	2622.8	2623.6	2624.3
12.5°	2570.0	2570.6	2581.2	2606.6	2627.0	2652.2	2681.0	2697.2	2698.7	2700.1	2701.5
15°	2571.4	2573.5	2591.8	2633.2	2674.0	2715.6	2750.0	2771.8	2772.9	2774.1	2775.2
17.5°	2553.0	2554.4	2585.4	2646.6	2714.8	2779.6	2815.4	2825.2	2825.7	2826.1	2826.5
20°	2505.2	2508.8	2552.4	2643.1	2747.2	2831.6	2868.9	2855.5	2854.2	2852.8	2851.5
22.5°	2427.9	2427.1	2484.1	2606.6	2753.5	2872.4	2905.4	2870.3	2866.1	2862.0	2857.8
25°	2302.6	2311.2	2378.0	2524.2	2717.6	2881.6	2931.4	2878.0	2872.0	2866.0	2860.1
27.5°	2167.0	2171.8	2242.9	2399.8	2634.0	2849.8	2944.1	2893.5	2886.8	2880.1	2873.5
30°	2008.7	2015.0	2091.0	2254.9	2499.6	2768.3	2940.6	2928.6	2920.8	2913.0	2905.2
32.5°	1854.0	1861.0	1929.2	2108.6	2358.2	2656.4	2919.5	2978.6	2970.6	2962.5	2954.5
35°	1693.6	1704.2	1787.2	1968.6	2221.8	2532.0	2887.1	3042.6	3038.2	3033.7	3029.3
37.5°	1560.7	1562.8	1643.0	1833.6	2095.2	2413.1	2844.2	3123.5	3126.7	3130.0	3133.2
40°	1412.2	1425.6	1505.8	1707.0	1980.6	2312.6	2803.4	3233.2	3250.0	3266.8	3283.6
42.5°	1279.4	1280.8	1362.4	1569.8	1856.0	2231.6	2781.0	3365.4	3401.3	3437.3	3473.2
45°	1139.4	1145.0	1218.9	1419.3	1712.6	2136.0	2780.2	3518.0	3575.4	3632.8	3690.2
47.5°	1007.2	1009.2	1087.4	1273.8	1548.0	2002.4	2775.4	3681.9	3760.0	3838.2	3916.3
50°	880.6	878.4	955.1	1134.4	1385.6	1827.2	2732.4	3867.6	3966.3	4064.9	4163.6
52.5°	735.7	745.5	825.0	996.6	1237.8	1649.3	2607.2	4070.8	4188.9	4306.9	4424.9
55°	593.6	597.8	682.9	843.3	1088.0	1483.4	2389.2	4258.0	4397.1	4536.2	4675.3
57.5°	437.4	450.1	524.7	683.0	936.2	1343.4	2112.1	4355.0	4524.3	4693.6	4862.9
60°	308.8	318.6	384.7	517.6	769.4	1196.4	1873.6	4300.8	4520.8	4740.8	4960.8
62.5°	240.6	248.2	301.0	387.5	600.0	1049.4	1702.8	4125.7	4425.0	4724.4	5023.7
65°	211.0	218.0	265.9	310.2	448.0	899.6	1609.2	3940.8	4336.4	4732.1	5127.8
67.5°	190.6	199.0	240.5	271.5	365.0	784.9	1584.6	3824.0	4272.2	4720.3	5168.5
69°	181.5	189.9	227.2	253.2	339.0	744.1	1542.4	3640.4	4086.0	4531.5	4977.1
70°	175.8	182.9	217.3	244.0	330.5	716.0	1472.1	3411.1	3848.6	4286.2	4723.7
72.5°	163.2	166.7	197.0	223.0	306.6	578.8	1132.4	2533.4	2912.7	3292.0	3671.3
75°	144.2	148.4	176.6	201.8	239.2	359.4	716.7	1567.0	1850.2	2133.3	2416.5
77.5°	124.5	128.0	152.6	192.8	185.6	224.4	428.3	872.2	1036.4	1200.6	1364.8
80°	99.9	104.1	125.9	191.3	153.4	174.4	308.0	609.8	654.1	698.4	742.7
82.5°	73.2	76.6	98.4	154.8	117.4	131.6	235.0	517.0	532.4	547.8	563.2
85°	37.2	38.0	62.6	94.2	74.6	68.2	132.2	353.8	363.6	373.4	383.3
87.5°	6.4	6.4	14.0	16.2	18.3	11.2	16.9	60.5	62.4	64.3	66.2
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	2470.1	2470.1	2470.1	2470.1	2470.1	2470.1	2470.1	2470.1	2470.1	2470.1	2470.1
2.5°	2478.5	2478.2	2477.0	2477.2	2478.1	2477.6	2478.6	2478.7	2479.5	2476.9	2476.3
5°	2508.4	2508.1	2507.9	2507.8	2508.4	2508.2	2508.8	2509.9	2509.6	2507.9	2507.6
7.5°	2558.5	2558.7	2559.4	2558.7	2560.1	2559.4	2558.0	2560.2	2561.8	2561.9	2563.5
10°	2625.1	2625.9	2628.3	2628.0	2630.4	2630.1	2630.4	2632.8	2634.5	2634.8	2636.5
12.5°	2702.9	2704.3	2705.5	2706.8	2709.5	2707.9	2711.3	2712.7	2714.8	2719.1	2716.9
15°	2776.3	2777.4	2781.2	2781.5	2783.9	2784.9	2788.0	2789.3	2789.8	2793.2	2793.8
17.5°	2827.0	2827.4	2828.8	2828.1	2830.2	2829.5	2831.6	2832.7	2834.6	2836.4	2839.6
20°	2850.2	2848.8	2848.1	2847.3	2845.8	2843.6	2844.2	2845.2	2845.5	2847.2	2849.6
22.5°	2853.7	2849.5	2845.2	2842.4	2838.0	2834.5	2830.8	2831.1	2831.4	2831.0	2832.7
25°	2854.1	2848.1	2841.4	2833.4	2827.4	2819.3	2812.6	2812.0	2810.0	2810.2	2811.0
27.5°	2866.8	2860.1	2850.7	2841.4	2828.5	2817.7	2807.0	2803.2	2799.4	2797.0	2796.0
30°	2897.4	2889.6	2878.5	2866.6	2852.6	2835.8	2820.4	2815.6	2810.1	2805.3	2801.2
32.5°	2946.5	2938.5	2926.1	2913.7	2895.0	2878.4	2863.2	2855.5	2847.7	2839.3	2831.6
35°	3024.8	3020.4	3009.5	2998.6	2984.9	2971.9	2958.1	2949.5	2936.5	2929.9	2920.5
37.5°	3136.4	3139.6	3139.6	3141.1	3136.8	3130.5	3120.6	3111.5	3107.3	3089.7	3078.4
40°	3300.4	3317.2	3332.6	3344.5	3355.0	3365.5	3374.6	3369.2	3370.9	3366.3	3359.5
42.5°	3509.2	3545.1	3578.0	3610.8	3634.5	3671.6	3697.4	3705.6	3726.4	3734.5	3749.7
45°	3747.6	3805.0	3860.1	3911.1	3958.5	4011.5	4063.1	4101.5	4143.4	4191.0	4238.5
47.5°	3994.5	4072.6	4153.8	4220.3	4288.9	4367.3	4435.9	4493.7	4569.1	4638.8	4715.7
50°	4262.3	4361.0	4453.4	4535.4	4623.6	4714.0	4807.9	4892.9	4994.8	5106.4	5227.3
52.5°	4542.9	4660.9	4768.0	4870.8	4974.3	5077.9	5177.9	5297.8	5423.5	5570.9	5721.8
55°	4814.4	4953.5	5075.0	5189.3	5307.9	5423.6	5526.8	5687.2	5841.4	6017.4	6214.5
57.5°	5032.2	5201.4	5341.5	5477.3	5611.0	5734.1	5860.8	6041.8	6238.3	6444.0	6693.9
60°	5180.8	5400.8	5579.6	5742.9	5907.0	6061.8	6207.5	6444.2	6677.9	6933.5	7244.6
62.5°	5323.1	5622.4	5855.6	6078.3	6299.5	6498.3	6679.5	6977.2	7282.5	7598.5	7968.5
65°	5523.5	5919.2	6262.7	6573.2	6879.4	7171.5	7442.6	7819.7	8205.3	8621.1	9062.9
67.5°	5616.6	6064.8	6512.1	6930.6	7319.5	7689.4	8037.6	8493.5	8947.3	9429.2	9963.2
69°	5422.6	5868.2	6346.4	6803.5	7233.2	7625.6	8002.4	8467.9	8939.7	9431.9	9970.5
70°	5161.3	5598.8	6081.5	6559.3	6970.2	7379.1	7769.6	8231.5	8709.4	9202.9	9766.7
72.5°	4050.6	4429.9	4900.6	5364.4	5776.7	6187.0	6566.2	7038.9	7519.9	8038.3	8572.1
75°	2699.7	2982.8	3333.5	3763.7	4141.8	4504.4	4872.0	5271.7	5741.1	6168.3	6656.7
77.5°	1529.1	1693.3	1897.0	2176.7	2448.0	2665.1	2927.2	3115.3	3387.8	3623.0	3871.5
80°	787.0	831.3	892.1	959.2	997.5	991.4	1030.4	991.9	1000.4	968.9	935.3
82.5°	578.6	594.0	621.4	634.9	633.6	589.3	542.2	477.0	419.5	359.1	303.7
85°	393.1	403.0	409.9	420.3	417.3	398.2	355.8	299.2	243.9	195.7	156.6
87.5°	68.1	70.0	69.5	75.3	75.5	70.1	57.7	49.3	41.5	31.0	21.8
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°	2470.1	2470.1	2470.1	2470.1	2470.1	2470.1	2470.1	2470.1	2470.1	2470.1	2470.1
2.5°	2475.7	2475.7	2477.1	2475.7	2475.7	2475.7	2475.0	2476.4	2475.7	2473.6	2471.5
5°	2508.0	2506.0	2505.2	2506.6	2508.0	2505.2	2507.4	2509.5	2506.0	2506.7	2505.2
7.5°	2562.2	2561.5	2560.8	2562.2	2562.2	2561.5	2562.2	2560.1	2558.7	2560.8	2562.9
10°	2634.6	2634.0	2635.4	2635.4	2638.1	2636.8	2636.0	2638.2	2636.8	2635.4	2636.1
12.5°	2719.8	2717.6	2721.1	2721.1	2723.2	2723.2	2722.6	2723.2	2722.6	2720.4	2719.1
15°	2795.8	2793.0	2793.6	2799.2	2798.5	2800.0	2800.0	2798.6	2797.8	2797.1	2797.8
17.5°	2841.4	2840.0	2840.0	2842.9	2845.0	2844.2	2844.2	2844.2	2843.6	2844.2	2845.7
20°	2849.9	2849.9	2850.5	2853.4	2856.9	2854.8	2854.8	2856.2	2854.8	2856.2	2856.9
22.5°	2833.6	2835.1	2836.5	2840.0	2840.7	2840.7	2840.8	2841.4	2842.9	2842.8	2844.2
25°	2811.2	2812.6	2814.7	2817.5	2820.4	2820.4	2820.4	2821.8	2821.8	2822.5	2823.1
27.5°	2794.3	2795.8	2797.8	2800.6	2804.2	2804.2	2804.2	2805.6	2805.6	2806.2	2807.7
30°	2796.5	2793.6	2795.7	2797.1	2799.2	2799.2	2798.5	2799.2	2799.9	2800.0	2800.6
32.5°	2826.6	2820.4	2818.2	2817.5	2818.2	2816.1	2815.4	2814.0	2812.6	2812.6	2811.9
35°	2906.8	2897.0	2896.3	2890.6	2885.0	2879.4	2880.2	2875.9	2877.3	2873.8	2871.0
37.5°	3071.4	3060.1	3067.2	3055.2	3047.5	3041.8	3035.6	3027.1	3022.1	3028.5	3028.5
40°	3366.2	3358.4	3356.3	3358.4	3351.4	3354.8	3339.4	3335.2	3326.0	3332.4	3340.8
42.5°	3773.4	3768.4	3795.1	3800.1	3802.9	3807.1	3809.9	3786.7	3786.0	3781.1	3767.0
45°	4276.2	4305.8	4304.4	4336.8	4338.1	4328.3	4332.5	4321.9	4317.7	4302.2	4321.2
47.5°	4793.2	4849.4	4870.6	4877.6	4904.3	4910.6	4885.3	4876.8	4891.6	4866.3	4869.8
50°	5348.1	5408.6	5457.8	5490.8	5509.8	5511.2	5492.3	5488.0	5501.5	5453.6	5476.1
52.5°	5893.9	5985.3	6078.2	6127.4	6162.6	6165.4	6180.1	6162.6	6169.6	6158.3	6180.8
55°	6432.0	6590.2	6699.2	6795.6	6856.8	6909.4	6914.4	6933.4	6934.8	6958.0	6934.8
57.5°	6958.0	7130.3	7320.2	7491.1	7586.1	7645.8	7702.1	7778.8	7795.6	7786.6	7801.3
60°	7579.0	7845.6	8103.7	8300.6	8464.5	8621.4	8705.8	8826.0	8845.0	8897.1	8852.1
62.5°	8364.0	8750.8	9101.0	9366.2	9615.2	9859.2	10043.5	10136.3	10192.6	10301.6	10265.7
65°	9568.0	10032.2	10495.8	10875.5	11224.3	11514.8	11794.8	11928.4	12076.1	12230.8	12259.0
67.5°	10559.8	11134.4	11656.9	12119.7	12542.4	12865.2	13156.4	13387.8	13567.9	13681.8	13690.9
69°	10604.8	11201.9	11769.4	12266.0	12707.0	13050.2	13356.8	13614.3	13789.4	13906.2	13937.1
70°	10389.6	11000.7	11605.6	12107.0	12558.6	12909.6	13234.5	13480.0	13675.5	13794.4	13835.8
72.5°	9179.1	9831.8	10478.2	10917.7	11379.1	11796.9	12057.1	12307.5	12583.2	12619.0	12733.0
75°	7235.8	7784.4	8285.9	8622.1	9007.5	9382.4	9637.7	9703.8	9848.0	10029.4	9964.7
77.5°	4193.2	4362.0	4685.5	4768.6	4698.2	4861.4	4915.6	4800.2	4794.6	4900.8	4689.8
80°	929.1	876.4	942.5	893.2	894.6	896.0	881.3	875.6	886.2	875.6	860.9
82.5°	257.4	249.0	250.4	247.6	252.5	249.0	246.8	252.5	251.8	251.1	256.0
85°	123.8	122.4	120.2	119.6	116.8	113.2	107.6	107.6	110.4	106.2	108.3
87.5°	16.2	15.5	15.5	18.3	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

(END OF REPORT)