

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: P180298

Luminaire Tested: **ICM-E05-LED-E1-RW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180298
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: ICM-E05-LED-E1-RW
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (105) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14530 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B4 - U0 - G4

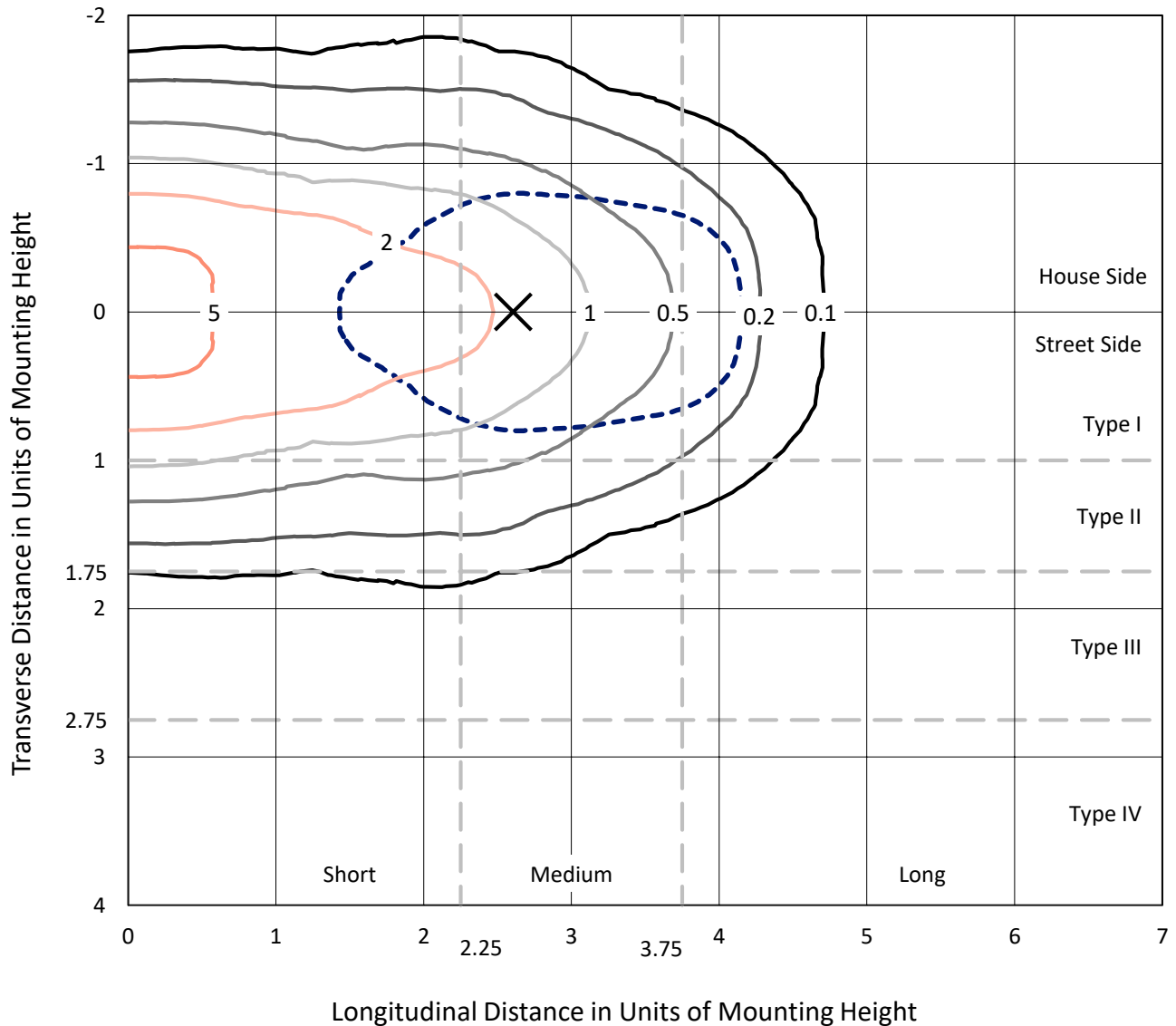
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

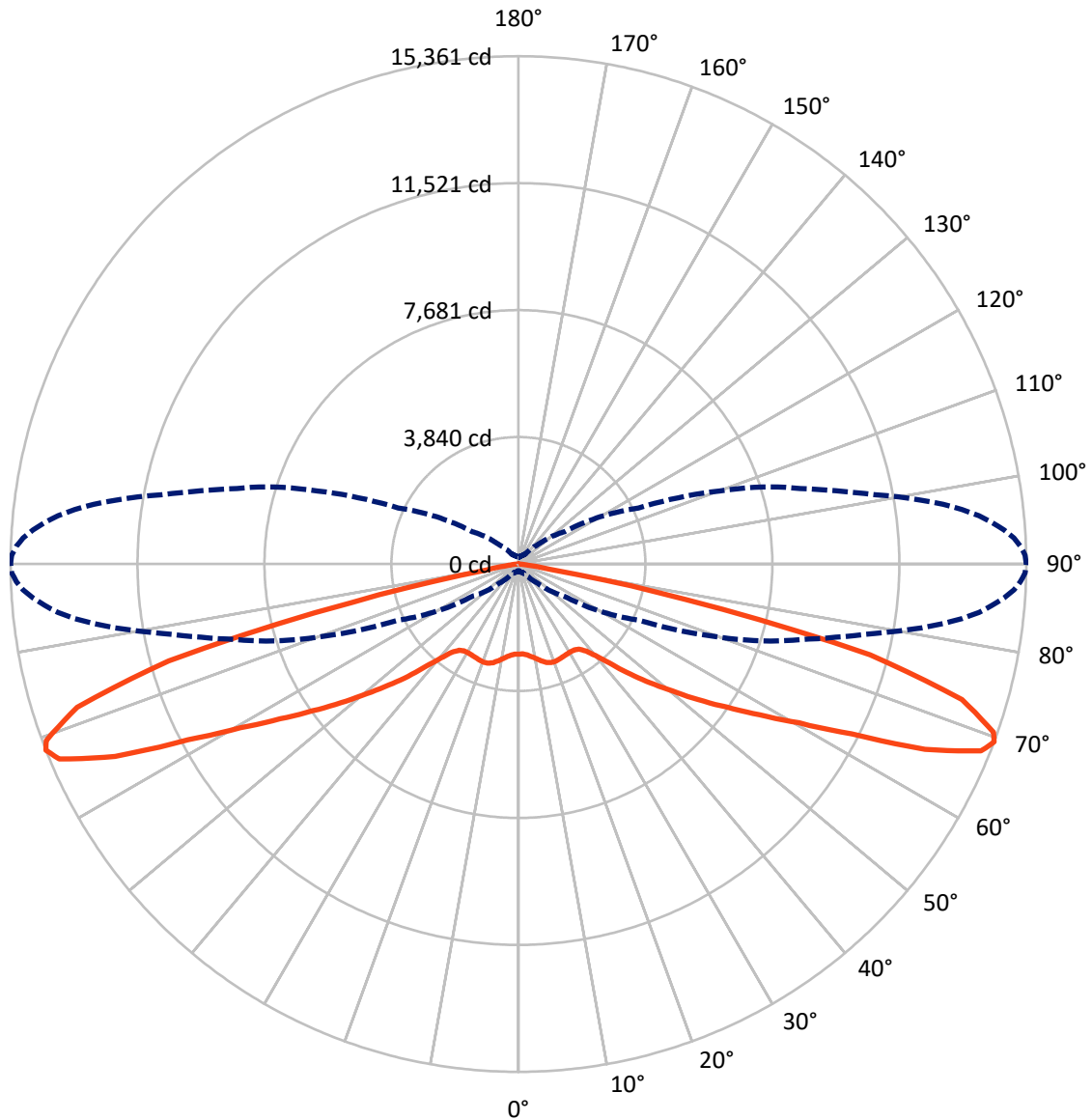


Based on 20 foot mounting height. Maximum calculated value = 7 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7265.0	0.0	7265.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7265.0	0.0	7265.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14530.0	0.0	14530.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.0	1.8
10°-20°	842.4	5.8
20°-30°	1364.8	9.4
30°-40°	1700.9	11.7
40°-50°	2125.5	14.6
50°-60°	2624.5	18.1
60°-70°	3261.1	22.4
70°-80°	2164.9	14.9
80°-90°	178.7	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°	14530.0	100.0
0°-180°	14530.0	100.0



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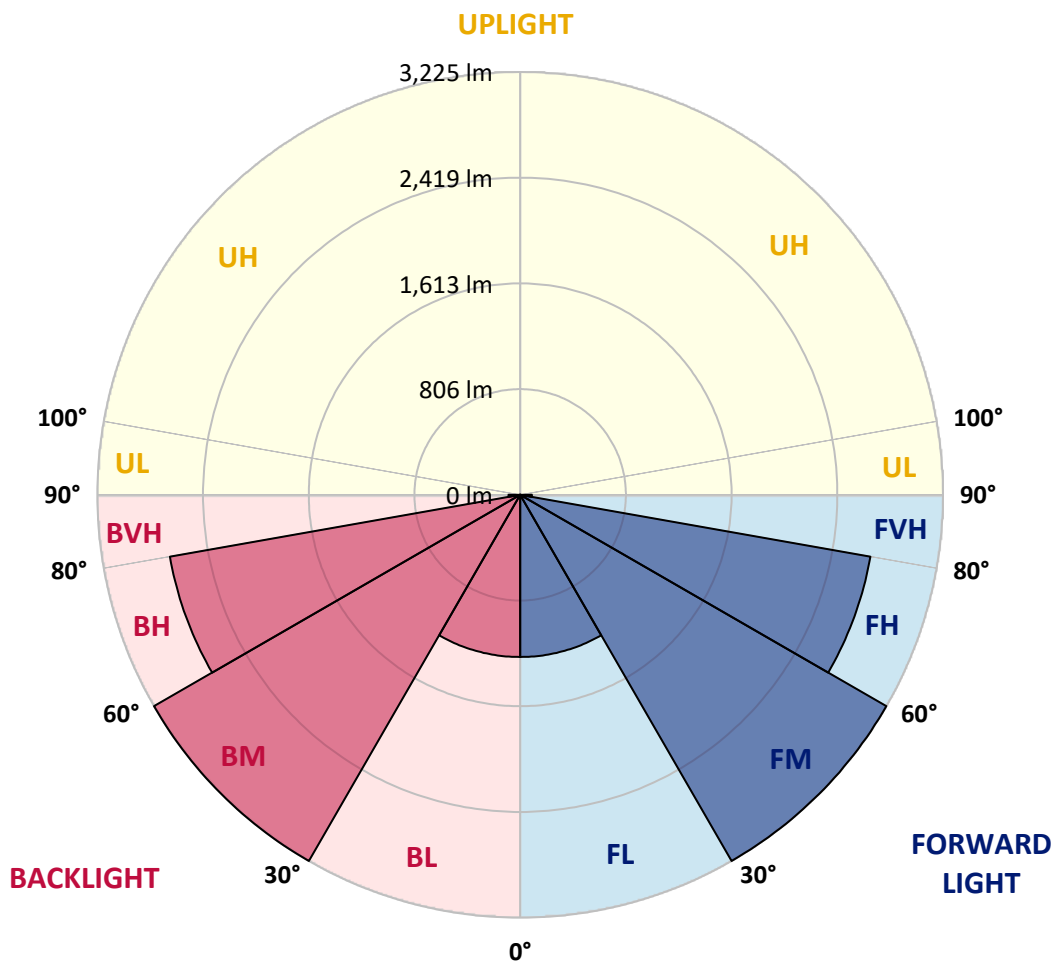
CATALOG NUMBER: ICM-E05-LED-E1-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1237.1	8.5			
FM	(30°-60°)	3225.5	22.2			
FH	(60°-80°)	2713.0	18.7			G2/5000
FVH	(80°-90°)	89.4	0.6			G1/100
BL	(0°-30°)	1237.1	8.5	B3/2500		
BM	(30°-60°)	3225.5	22.2	B3/5000		
BH	(60°-80°)	2713.0	18.7	B4/5000		G4/5000
BVH	(80°-90°)	89.4	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5
2.5°	2734.9	2737.2	2735.6	2738.7	2738.1	2738.1	2736.5	2733.4	2731.4	2730.1	2730.3
5°	2761.3	2758.2	2762.8	2767.5	2766.0	2766.7	2766.0	2766.0	2764.4	2764.2	2764.1
7.5°	2789.1	2788.4	2791.6	2803.9	2805.5	2810.1	2815.5	2819.4	2820.2	2820.9	2820.1
10°	2813.1	2814.0	2821.8	2839.6	2848.9	2863.6	2878.3	2889.9	2894.2	2896.9	2896.6
12.5°	2832.6	2833.3	2844.9	2872.9	2895.4	2923.3	2955.1	2972.9	2980.7	2982.0	2983.5
15°	2834.1	2836.4	2856.6	2902.3	2947.3	2993.0	3031.1	3055.1	3061.2	3065.5	3065.7
17.5°	2814.0	2815.5	2849.7	2917.0	2992.2	3063.6	3103.1	3114.0	3116.3	3117.9	3117.0
20°	2761.3	2765.1	2813.2	2913.1	3027.9	3120.9	3162.1	3147.3	3139.9	3139.1	3138.3
22.5°	2676.0	2675.3	2738.1	2872.9	3034.9	3165.9	3202.3	3163.6	3140.7	3136.0	3132.9
25°	2538.0	2547.4	2620.9	2782.2	2995.4	3176.0	3231.1	3172.1	3139.2	3131.8	3122.9
27.5°	2388.4	2393.9	2472.1	2645.0	2903.1	3141.1	3245.0	3189.1	3152.4	3142.0	3131.7
30°	2214.0	2220.9	2304.7	2485.2	2755.0	3051.2	3241.1	3227.9	3184.9	3172.6	3159.5
32.5°	2043.4	2051.2	2126.3	2324.0	2599.2	2927.9	3217.9	3283.0	3238.7	3225.1	3211.5
35°	1866.6	1878.3	1969.8	2169.8	2448.9	2790.7	3182.2	3353.5	3329.0	3317.0	3305.0
37.5°	1720.2	1722.5	1810.8	2020.9	2309.3	2659.7	3134.9	3442.6	3460.5	3460.5	3462.1
40°	1556.7	1571.4	1659.7	1881.4	2182.9	2548.9	3089.9	3563.6	3656.2	3673.1	3686.3
42.5°	1410.1	1411.6	1501.6	1730.2	2045.8	2459.7	3065.1	3709.3	3907.4	3943.6	3979.8
45°	1255.8	1262.0	1343.5	1564.3	1887.6	2354.2	3064.4	3877.6	4193.9	4254.5	4310.7
47.5°	1110.1	1112.4	1198.5	1403.9	1706.2	2207.0	3059.0	4058.2	4488.8	4578.4	4651.6
50°	970.6	968.2	1052.7	1250.4	1527.1	2014.0	3011.6	4262.8	4806.6	4908.5	4998.9
52.5°	810.9	821.8	909.3	1098.4	1364.3	1817.9	2873.7	4486.8	5137.2	5255.2	5368.6
55°	654.2	659.0	752.7	929.5	1199.3	1634.9	2633.3	4693.1	5459.8	5593.5	5719.6
57.5°	482.1	496.1	578.2	752.7	1031.8	1480.6	2327.9	4800.0	5733.0	5887.3	6037.0
60°	340.3	351.2	424.0	570.6	848.0	1318.6	2065.1	4740.3	5952.8	6149.8	6329.8
62.5°	265.1	273.7	331.8	427.2	661.2	1156.6	1876.8	4547.3	6196.9	6454.0	6699.4
65°	232.6	240.4	293.0	341.9	493.8	991.4	1773.7	4343.5	6524.1	6902.6	7244.9
67.5°	210.0	219.4	265.1	299.2	402.3	865.1	1746.5	4214.7	6684.5	7177.5	7638.8
69°	200.0	209.3	250.4	279.1	373.6	820.2	1700.0	4012.5	6467.9	6994.9	7498.7
70°	193.9	201.5	239.5	269.0	364.4	789.2	1622.5	3759.7	6171.0	6702.9	7229.6
72.5°	179.9	183.7	217.0	245.8	338.0	638.0	1248.0	2792.3	4882.6	5401.4	5912.5
75°	159.0	163.6	194.6	222.5	263.6	396.1	790.0	1727.1	3287.6	3674.2	4148.2
77.5°	137.2	141.0	168.2	212.5	204.7	247.3	472.1	961.2	1866.2	2090.8	2399.1
80°	110.0	114.8	138.8	210.8	168.9	192.3	339.5	672.1	916.3	983.3	1057.2
82.5°	80.6	84.5	108.5	170.6	129.5	144.9	259.0	569.8	654.7	684.9	699.8
85°	41.1	41.9	69.0	103.8	82.1	75.2	145.7	390.0	444.2	451.8	463.3
87.5°	7.0	7.0	15.5	17.9	20.1	12.4	18.6	66.7	77.1	76.6	83.1
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5
2.5°	2731.4	2730.8	2731.8	2732.0	2732.9	2730.0	2729.3	2728.7	2728.8	2730.2	2728.8
5°	2764.7	2764.5	2765.1	2766.4	2766.1	2764.2	2763.8	2764.3	2762.0	2761.3	2762.8
7.5°	2821.7	2820.9	2819.5	2821.9	2823.6	2823.7	2825.5	2824.1	2823.3	2822.5	2824.0
10°	2899.2	2898.8	2899.2	2901.9	2903.7	2904.0	2905.9	2903.8	2903.2	2904.7	2904.7
12.5°	2986.3	2984.7	2988.4	2990.0	2992.2	2996.9	2994.6	2997.7	2995.4	2999.2	2999.3
15°	3068.4	3069.4	3072.9	3074.3	3074.9	3078.6	3079.3	3081.4	3078.3	3079.1	3085.3
17.5°	3119.5	3118.6	3120.9	3122.3	3124.2	3126.3	3129.8	3131.7	3130.3	3130.3	3133.4
20°	3136.6	3134.3	3134.9	3136.0	3136.3	3138.2	3140.9	3141.0	3141.0	3141.9	3144.9
22.5°	3128.1	3124.1	3120.2	3120.5	3120.9	3120.3	3122.2	3123.3	3124.9	3126.3	3130.3
25°	3116.3	3107.4	3100.0	3099.4	3097.2	3097.3	3098.3	3098.4	3100.0	3102.3	3105.5
27.5°	3117.5	3105.7	3093.8	3089.6	3085.4	3082.8	3081.7	3079.8	3081.4	3083.7	3086.9
30°	3144.0	3125.5	3108.5	3103.3	3097.2	3091.9	3087.5	3082.3	3079.1	3081.4	3083.0
32.5°	3190.9	3172.6	3155.8	3147.3	3138.7	3129.5	3120.9	3115.6	3108.6	3106.3	3105.5
35°	3290.0	3275.6	3260.5	3250.9	3236.6	3229.3	3218.9	3203.9	3193.0	3192.2	3186.1
37.5°	3457.4	3450.4	3439.6	3429.5	3424.9	3405.4	3393.0	3385.3	3372.9	3380.7	3367.5
40°	3697.9	3709.4	3719.4	3713.5	3715.4	3710.3	3702.8	3710.2	3701.6	3699.3	3701.6
42.5°	4005.9	4046.7	4075.2	4084.2	4107.1	4116.1	4132.9	4158.9	4153.5	4183.0	4188.4
45°	4363.0	4421.4	4478.4	4520.6	4566.9	4619.2	4671.7	4713.1	4745.7	4744.2	4779.9
47.5°	4727.1	4813.6	4889.1	4952.9	5036.0	5112.9	5197.6	5283.0	5345.0	5368.2	5376.0
50°	5096.1	5195.8	5299.2	5392.9	5505.1	5628.2	5761.4	5894.5	5961.2	6015.5	6051.9
52.5°	5482.6	5596.8	5707.0	5839.2	5977.7	6140.2	6306.6	6496.2	6596.9	6699.3	6753.5
55°	5850.3	5977.9	6091.6	6268.4	6438.4	6632.3	6849.4	7089.2	7263.6	7383.8	7489.9
57.5°	6184.4	6320.1	6459.8	6659.3	6875.9	7102.6	7378.0	7669.1	7859.0	8068.3	8256.6
60°	6510.6	6681.3	6841.9	7102.6	7360.3	7642.1	7985.0	8353.5	8647.3	8931.9	9148.9
62.5°	6943.3	7162.4	7362.1	7690.1	8026.7	8374.9	8782.8	9218.7	9645.1	10031.0	10323.3
65°	7582.4	7904.4	8203.1	8618.8	9043.8	9502.1	9989.1	10545.8	11057.4	11568.3	11986.9
67.5°	8067.5	8475.2	8859.0	9361.5	9861.6	10392.8	10981.3	11638.9	12272.2	12848.2	13358.2
69°	7972.3	8404.8	8820.1	9333.3	9853.3	10395.7	10989.4	11688.4	12346.6	12972.2	13519.4
70°	7682.5	8133.1	8563.6	9072.6	9599.4	10143.3	10764.7	11451.2	12124.9	12791.5	13344.3
72.5°	6367.0	6819.2	7237.3	7758.2	8288.4	8859.8	9448.1	10117.1	10836.5	11548.9	12033.4
75°	4565.0	4964.7	5369.8	5810.5	6327.8	6798.6	7337.0	7975.3	8579.9	9132.6	9503.1
77.5°	2698.2	2937.5	3226.3	3433.7	3734.0	3993.2	4267.2	4621.8	4807.8	5164.3	5255.8
80°	1099.4	1092.8	1135.6	1093.2	1102.7	1067.9	1030.9	1024.0	966.0	1038.8	984.6
82.5°	698.3	649.5	597.7	525.8	462.3	395.8	334.7	283.7	274.4	275.9	272.9
85°	460.0	438.9	392.3	329.8	268.8	215.6	172.6	136.4	134.9	132.6	131.7
87.5°	83.3	77.3	63.6	54.2	45.8	34.0	24.0	17.9	17.0	17.1	20.2
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):

	84°	85°	86°	87°	88°	89°	90°
0°	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5
2.5°	2728.8	2728.7	2727.9	2729.4	2728.7	2726.3	2724.0
5°	2764.4	2761.3	2763.6	2766.0	2762.0	2762.8	2761.2
7.5°	2824.0	2823.3	2824.1	2821.7	2820.1	2822.5	2824.9
10°	2907.7	2906.2	2905.5	2907.8	2906.3	2904.7	2905.4
12.5°	3001.5	3001.5	3000.8	3001.6	3000.8	2998.4	2996.9
15°	3084.5	3086.1	3086.1	3084.5	3083.7	3083.0	3083.7
17.5°	3135.6	3134.9	3134.9	3134.9	3134.2	3134.9	3136.5
20°	3148.9	3146.5	3146.5	3148.1	3146.5	3148.1	3148.9
22.5°	3131.0	3131.0	3131.0	3131.8	3133.4	3133.3	3134.9
25°	3108.5	3108.6	3108.6	3110.2	3110.1	3110.9	3111.6
27.5°	3090.7	3090.7	3090.7	3092.3	3092.3	3093.0	3094.6
30°	3085.3	3085.2	3084.5	3085.2	3086.1	3086.1	3086.8
32.5°	3106.3	3103.8	3103.1	3101.6	3100.0	3100.0	3099.3
35°	3179.9	3173.6	3174.4	3169.8	3171.4	3167.5	3164.4
37.5°	3358.9	3352.8	3345.8	3336.4	3331.0	3338.1	3338.0
40°	3693.8	3697.7	3680.6	3675.9	3665.9	3673.0	3682.2
42.5°	4191.5	4196.1	4199.3	4173.6	4172.9	4167.5	4151.9
45°	4781.4	4770.6	4775.3	4763.6	4758.9	4741.9	4762.8
47.5°	5405.4	5412.5	5384.6	5375.3	5391.5	5363.6	5367.5
50°	6073.0	6074.5	6053.5	6048.9	6063.7	6010.8	6035.7
52.5°	6792.3	6795.4	6811.7	6792.3	6800.0	6787.6	6812.4
55°	7557.4	7615.5	7621.0	7641.9	7643.4	7669.1	7643.5
57.5°	8361.4	8427.2	8489.2	8573.6	8592.2	8582.2	8598.5
60°	9329.5	9502.4	9595.4	9728.0	9748.9	9806.3	9756.6
62.5°	10597.7	10866.7	11069.8	11172.2	11234.1	11354.3	11314.8
65°	12371.4	12691.6	13000.1	13147.4	13310.2	13480.7	13511.7
67.5°	13824.1	14179.9	14500.8	14755.9	14954.3	15079.9	15090.0
69°	14005.5	14383.8	14721.8	15005.5	15198.6	15327.2	15361.3
70°	13841.9	14228.7	14586.9	14857.4	15073.0	15204.0	15249.7
72.5°	12541.9	13002.4	13289.2	13565.2	13869.1	13908.6	14034.2
75°	9928.0	10341.1	10622.6	10695.4	10854.4	11054.4	10983.0
77.5°	5178.3	5358.2	5417.9	5290.7	5284.5	5401.6	5169.1
80°	986.1	987.5	971.4	965.1	976.8	965.1	948.8
82.5°	278.3	274.4	272.1	278.3	277.6	276.7	282.1
85°	128.7	124.8	118.6	118.6	121.7	117.0	119.3
87.5°	17.9	14.7	14.7	14.7	14.0	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)