

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: P180347

Luminaire Tested: **ICS-E04-LED-E1-RW-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180347
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: ICS-E04-LED-E1-RW-7030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10272.3 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 97.2
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

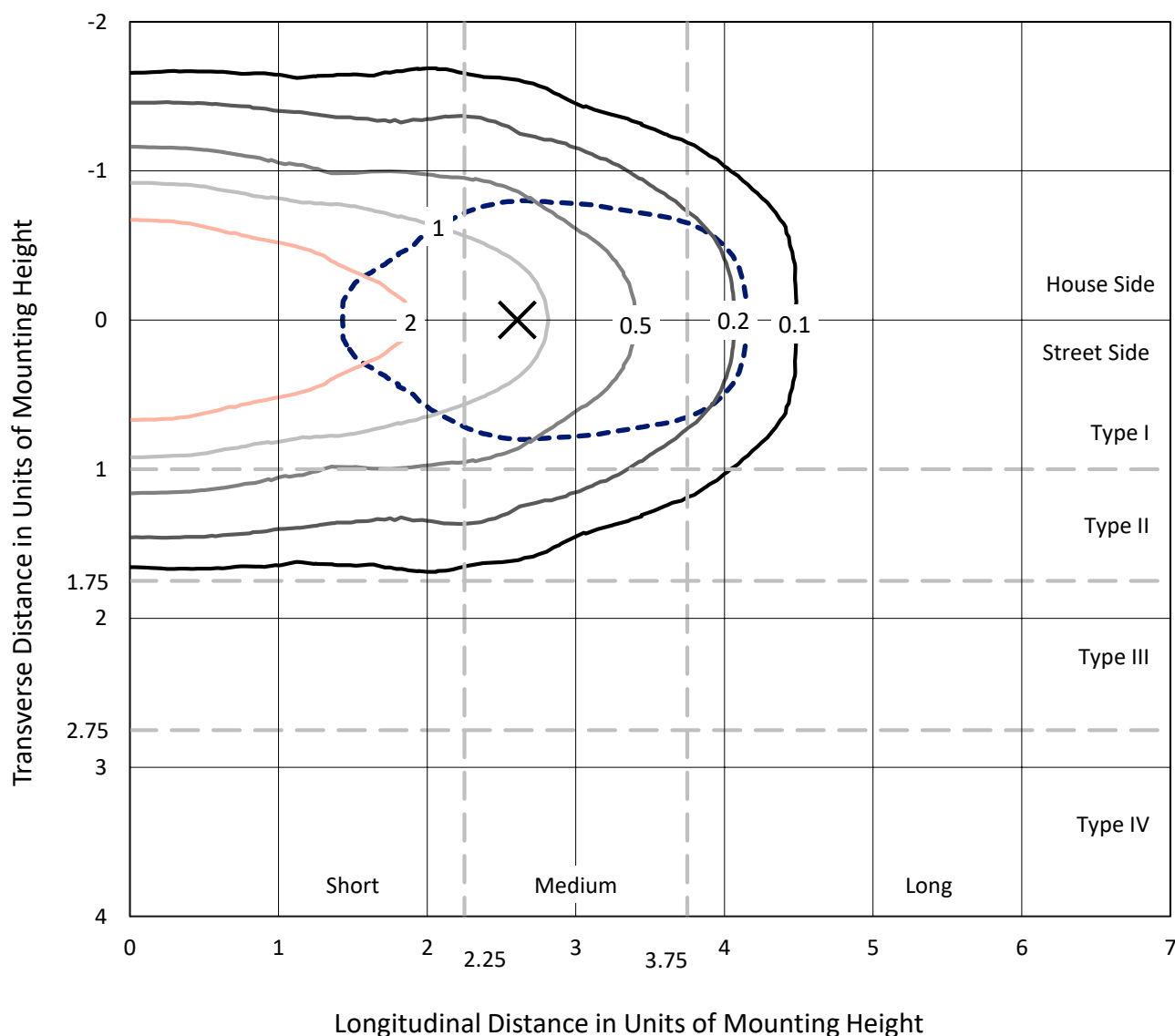


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

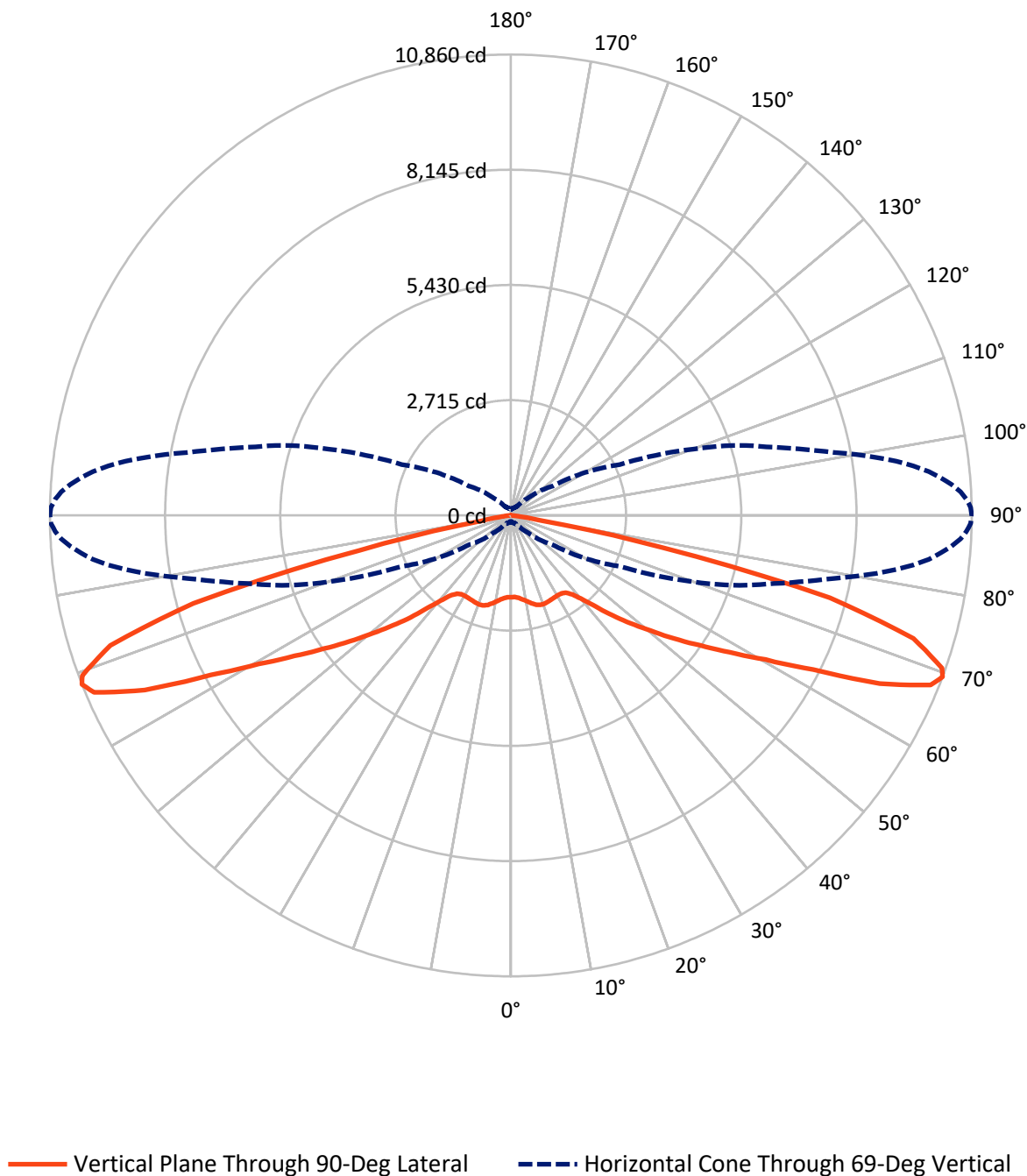


Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



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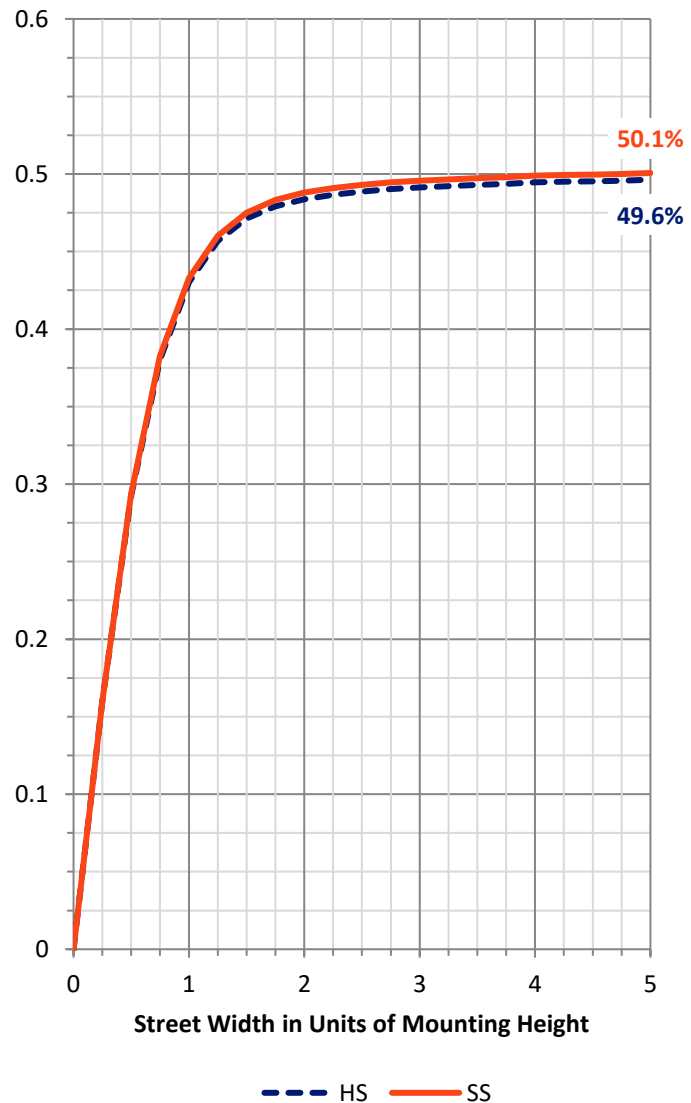
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5136.1	0.0	5136.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5136.1	0.0	5136.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	10272.3	0.0	10272.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.8	1.8
10°-20°	595.6	5.8
20°-30°	964.9	9.4
30°-40°	1202.5	11.7
40°-50°	1502.7	14.6
50°-60°	1855.5	18.1
60°-70°	2305.5	22.4
70°-80°	1530.5	14.9
80°-90°	126.4	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°	10272.3	100.0
0°-180°	10272.3	100.0

Coefficient of Utilization



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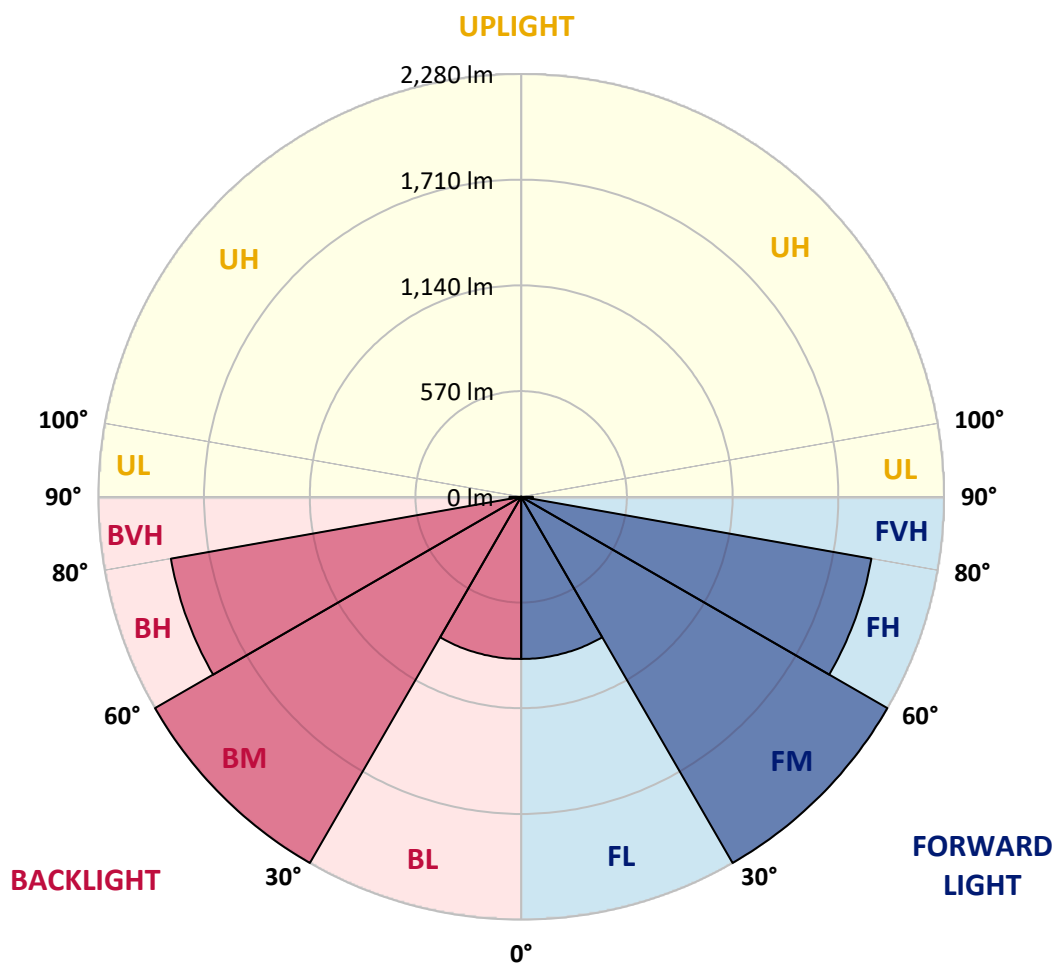
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	874.6	8.5			
FM	(30°-60°)	2280.3	22.2			
FH	(60°-80°)	1918.0	18.7			G2/5000
FVH	(80°-90°)	63.2	0.6			G1/100
BL	(0°-30°)	874.6	8.5	B2/1000		
BM	(30°-60°)	2280.3	22.2	B2/2500		
BH	(60°-80°)	1918.0	18.7	B3/2500		G3/2500
BVH	(80°-90°)	63.2	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°	70°	71°	72°
0°	1924.7	1924.7	1924.7	1924.7	1924.7	1924.7	1924.7	1924.7	1924.7	1924.7	1924.7
2.5°	1933.5	1935.1	1934.0	1936.2	1935.7	1935.7	1934.6	1932.4	1931.0	1930.1	1930.3
5°	1952.1	1949.9	1953.2	1956.5	1955.4	1956.0	1955.4	1955.4	1954.3	1954.2	1954.1
7.5°	1971.8	1971.3	1973.4	1982.2	1983.4	1986.6	1990.4	1993.2	1993.8	1994.3	1993.8
10°	1988.8	1989.4	1994.9	2007.4	2014.0	2024.4	2034.9	2043.1	2046.1	2048.0	2047.7
12.5°	2002.5	2003.0	2011.3	2031.0	2047.0	2066.7	2089.1	2101.8	2107.2	2108.2	2109.2
15°	2003.6	2005.3	2019.6	2051.9	2083.6	2116.0	2142.8	2159.9	2164.2	2167.2	2167.4
17.5°	1989.4	1990.5	2014.6	2062.3	2115.4	2165.9	2193.8	2201.4	2203.2	2204.2	2203.7
20°	1952.1	1954.8	1988.8	2059.6	2140.6	2206.4	2235.4	2225.0	2219.9	2219.2	2218.6
22.5°	1891.8	1891.2	1935.7	2031.0	2145.6	2238.2	2264.0	2236.6	2220.4	2217.0	2214.8
25°	1794.2	1800.8	1852.9	1967.0	2117.6	2245.3	2284.2	2242.6	2219.3	2214.0	2207.8
27.5°	1688.6	1692.4	1747.7	1869.9	2052.4	2220.6	2294.1	2254.6	2228.6	2221.3	2214.0
30°	1565.2	1570.2	1629.4	1757.0	1947.8	2157.1	2291.4	2282.0	2251.6	2242.9	2233.6
32.5°	1444.6	1450.1	1503.2	1643.0	1837.6	2070.0	2275.0	2321.0	2289.7	2280.1	2270.4
35°	1319.7	1327.9	1392.6	1534.0	1731.2	1973.0	2249.7	2370.9	2353.6	2345.1	2336.6
37.5°	1216.1	1217.8	1280.2	1428.8	1632.6	1880.4	2216.2	2433.8	2446.4	2446.5	2447.5
40°	1100.5	1110.8	1173.4	1330.1	1543.3	1802.0	2184.5	2519.4	2584.8	2596.8	2606.1
42.5°	996.9	998.0	1061.6	1223.2	1446.3	1738.9	2167.0	2622.4	2762.4	2788.0	2813.6
45°	887.8	892.2	949.8	1106.0	1334.4	1664.4	2166.4	2741.3	2964.9	3007.9	3047.6
47.5°	784.8	786.4	847.2	992.5	1206.2	1560.3	2162.6	2869.0	3173.4	3236.7	3288.5
50°	686.2	684.5	744.2	884.0	1079.6	1423.8	2129.2	3013.6	3398.1	3470.2	3534.0
52.5°	573.2	580.9	642.8	776.6	964.6	1285.2	2031.6	3172.0	3631.8	3715.2	3795.4
55°	462.6	465.8	532.2	657.1	847.8	1155.8	1861.6	3317.8	3859.8	3954.4	4043.6
57.5°	340.8	350.8	408.8	532.2	729.4	1046.8	1645.8	3393.4	4053.0	4162.1	4268.0
60°	240.6	248.2	299.8	403.4	599.6	932.2	1460.0	3351.2	4208.4	4347.7	4475.0
62.5°	187.4	193.4	234.6	302.0	467.4	817.6	1326.8	3214.8	4381.0	4562.7	4736.3
65°	164.4	169.9	207.2	241.7	349.1	700.9	1253.9	3070.7	4612.3	4880.0	5121.9
67.5°	148.6	155.0	187.4	211.6	284.4	611.6	1234.7	2979.7	4725.7	5074.3	5400.4
69°	141.4	148.0	177.0	197.3	264.2	579.8	1201.8	2836.6	4572.6	4945.2	5301.3
70°	137.0	142.5	169.4	190.1	257.6	557.9	1147.0	2658.0	4362.6	4738.8	5111.1
72.5°	127.2	129.8	153.4	173.8	239.0	451.0	882.4	1974.0	3451.8	3818.7	4180.0
75°	112.4	115.6	137.6	157.3	186.4	280.0	558.4	1221.0	2324.2	2597.5	2932.7
77.5°	97.0	99.8	119.0	150.2	144.7	174.8	333.8	679.6	1319.4	1478.2	1696.2
80°	77.8	81.1	98.1	149.0	119.5	135.9	240.0	475.2	647.8	695.1	747.4
82.5°	57.0	59.8	76.7	120.6	91.6	102.5	183.0	402.8	462.8	484.2	494.7
85°	29.0	29.6	48.8	73.4	58.1	53.2	103.0	275.6	314.0	319.4	327.5
87.5°	5.0	5.0	11.0	12.6	14.2	8.8	13.2	47.2	54.5	54.1	58.7
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1924.7	1924.7	1924.7	1924.7	1924.7	1924.7	1924.7	1924.7	1924.7	1924.7	1924.7
2.5°	1931.0	1930.6	1931.3	1931.4	1932.1	1930.0	1929.5	1929.1	1929.1	1930.2	1929.1
5°	1954.6	1954.5	1954.9	1955.8	1955.5	1954.2	1954.0	1954.3	1952.6	1952.1	1953.2
7.5°	1994.9	1994.3	1993.2	1995.0	1996.2	1996.3	1997.5	1996.5	1996.0	1995.4	1996.5
10°	2049.7	2049.4	2049.6	2051.5	2052.8	2053.1	2054.4	2053.0	2052.4	2053.5	2053.5
12.5°	2111.3	2110.1	2112.7	2113.8	2115.4	2118.8	2117.1	2119.3	2117.6	2120.4	2120.4
15°	2169.3	2170.0	2172.4	2173.4	2173.9	2176.5	2177.0	2178.5	2176.2	2176.8	2181.2
17.5°	2205.4	2204.8	2206.4	2207.3	2208.7	2210.2	2212.7	2214.1	2213.0	2213.0	2215.2
20°	2217.5	2215.8	2216.3	2217.1	2217.3	2218.6	2220.5	2220.7	2220.6	2221.2	2223.4
22.5°	2211.4	2208.7	2205.8	2206.1	2206.3	2206.0	2207.3	2208.0	2209.2	2210.2	2213.0
25°	2203.1	2196.8	2191.6	2191.1	2189.6	2189.8	2190.4	2190.5	2191.6	2193.2	2195.4
27.5°	2204.0	2195.6	2187.2	2184.3	2181.3	2179.4	2178.7	2177.4	2178.4	2180.1	2182.3
30°	2222.7	2209.6	2197.6	2193.9	2189.6	2185.9	2182.8	2179.0	2176.8	2178.4	2179.6
32.5°	2255.8	2242.9	2231.0	2225.0	2219.0	2212.4	2206.4	2202.6	2197.6	2196.0	2195.4
35°	2325.9	2315.7	2305.1	2298.3	2288.2	2283.0	2275.7	2265.0	2257.4	2256.8	2252.4
37.5°	2444.3	2439.3	2431.6	2424.5	2421.2	2407.6	2398.8	2393.3	2384.5	2390.0	2380.7
40°	2614.3	2622.4	2629.5	2625.3	2626.6	2623.0	2617.8	2623.0	2616.9	2615.2	2616.8
42.5°	2832.0	2860.9	2881.0	2887.4	2903.6	2910.0	2921.8	2940.2	2936.4	2957.2	2961.0
45°	3084.5	3125.8	3166.0	3196.0	3228.6	3265.7	3302.8	3332.1	3355.1	3354.0	3379.2
47.5°	3342.0	3403.1	3456.5	3501.6	3560.3	3614.6	3674.5	3734.9	3778.7	3795.2	3800.6
50°	3602.8	3673.3	3746.4	3812.6	3892.0	3979.0	4073.1	4167.3	4214.4	4252.8	4278.6
52.5°	3876.0	3956.8	4034.7	4128.1	4226.0	4340.9	4458.5	4592.6	4663.8	4736.2	4774.6
55°	4136.0	4226.2	4306.5	4431.6	4551.7	4688.8	4842.4	5011.8	5135.1	5220.1	5295.2
57.5°	4372.1	4468.1	4566.8	4707.9	4861.0	5021.3	5216.0	5421.8	5556.0	5704.0	5837.2
60°	4602.8	4723.5	4837.0	5021.4	5203.5	5402.7	5645.1	5905.7	6113.4	6314.6	6468.0
62.5°	4908.7	5063.5	5204.7	5436.6	5674.6	5920.8	6209.2	6517.3	6818.8	7091.6	7298.2
65°	5360.5	5588.1	5799.4	6093.2	6393.7	6717.6	7061.9	7455.6	7817.2	8178.4	8474.3
67.5°	5703.4	5991.7	6263.0	6618.2	6971.8	7347.4	7763.5	8228.3	8676.0	9083.2	9443.8
69°	5636.2	5941.9	6235.6	6598.3	6965.9	7349.4	7769.1	8263.4	8728.6	9170.9	9557.8
70°	5431.3	5749.9	6054.2	6414.0	6786.5	7171.0	7610.3	8095.6	8571.8	9043.2	9434.0
72.5°	4501.3	4821.0	5116.5	5484.8	5859.6	6263.6	6679.6	7152.5	7661.0	8164.7	8507.2
75°	3227.3	3509.9	3796.3	4107.8	4473.5	4806.5	5187.0	5638.2	6065.7	6456.4	6718.4
77.5°	1907.5	2076.7	2281.0	2427.5	2639.8	2823.1	3016.7	3267.4	3399.0	3651.0	3715.8
80°	777.2	772.5	802.8	772.9	779.5	755.0	728.8	724.0	682.8	734.4	696.0
82.5°	493.7	459.2	422.6	371.7	326.8	279.8	236.7	200.6	194.0	195.1	192.9
85°	325.2	310.3	277.4	233.1	190.1	152.5	122.0	96.4	95.4	93.8	93.2
87.5°	58.9	54.6	45.0	38.4	32.3	24.1	17.0	12.6	12.0	12.1	14.2
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°	1924.7	1924.7	1924.7	1924.7	1924.7	1924.7	1924.7
2.5°	1929.1	1929.1	1928.6	1929.6	1929.1	1927.4	1925.8
5°	1954.3	1952.1	1953.8	1955.4	1952.6	1953.2	1952.1
7.5°	1996.5	1996.0	1996.5	1994.8	1993.8	1995.4	1997.1
10°	2055.7	2054.6	2054.0	2055.7	2054.6	2053.5	2054.1
12.5°	2122.0	2122.0	2121.4	2122.0	2121.4	2119.8	2118.7
15°	2180.6	2181.8	2181.8	2180.6	2180.1	2179.6	2180.1
17.5°	2216.9	2216.3	2216.3	2216.3	2215.8	2216.3	2217.4
20°	2226.1	2224.5	2224.5	2225.6	2224.5	2225.6	2226.1
22.5°	2213.5	2213.5	2213.5	2214.0	2215.2	2215.2	2216.3
25°	2197.6	2197.6	2197.6	2198.8	2198.8	2199.3	2199.8
27.5°	2185.0	2185.0	2185.0	2186.2	2186.1	2186.7	2187.8
30°	2181.2	2181.2	2180.6	2181.2	2181.8	2181.8	2182.3
32.5°	2196.0	2194.4	2193.8	2192.7	2191.6	2191.6	2191.1
35°	2248.1	2243.6	2244.2	2241.0	2242.0	2239.3	2237.1
37.5°	2374.6	2370.3	2365.3	2358.8	2354.9	2359.9	2359.9
40°	2611.4	2614.2	2602.1	2598.9	2591.6	2596.6	2603.2
42.5°	2963.2	2966.6	2968.7	2950.6	2950.1	2946.2	2935.3
45°	3380.3	3372.6	3375.9	3367.7	3364.4	3352.4	3367.2
47.5°	3821.5	3826.4	3806.6	3800.1	3811.6	3791.9	3794.6
50°	4293.4	4294.4	4279.6	4276.4	4286.8	4249.5	4267.0
52.5°	4801.9	4804.1	4815.6	4802.0	4807.4	4798.6	4816.2
55°	5342.8	5383.9	5387.8	5402.6	5403.7	5421.8	5403.7
57.5°	5911.2	5957.8	6001.6	6061.4	6074.4	6067.4	6078.9
60°	6595.6	6717.9	6783.6	6877.4	6892.2	6932.7	6897.6
62.5°	7492.3	7682.4	7826.0	7898.4	7942.2	8027.1	7999.2
65°	8746.2	8972.5	9190.6	9294.8	9409.8	9530.4	9552.3
67.5°	9773.2	10024.8	10251.7	10432.0	10572.2	10661.0	10668.1
69°	9901.4	10168.9	10407.8	10608.4	10744.9	10835.8	10860.0
70°	9785.8	10059.3	10312.5	10503.8	10656.0	10748.8	10781.0
72.5°	8866.8	9192.3	9395.0	9590.2	9805.0	9833.0	9921.7
75°	7018.8	7310.8	7509.8	7561.3	7673.6	7815.0	7764.6
77.5°	3660.9	3788.0	3830.2	3740.4	3736.0	3818.8	3654.3
80°	697.1	698.2	686.7	682.3	690.6	682.3	670.8
82.5°	196.8	194.0	192.4	196.8	196.2	195.6	199.5
85°	91.0	88.2	83.8	83.8	86.1	82.8	84.4
87.5°	12.6	10.4	10.4	10.4	9.9	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)