

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: P148681

Luminaire Tested: **VXM-E03-LED-E1-RW-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P148681
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-E03-LED-E1-RW-7050
Description: VISION SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (63) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9616.5 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 75.2
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



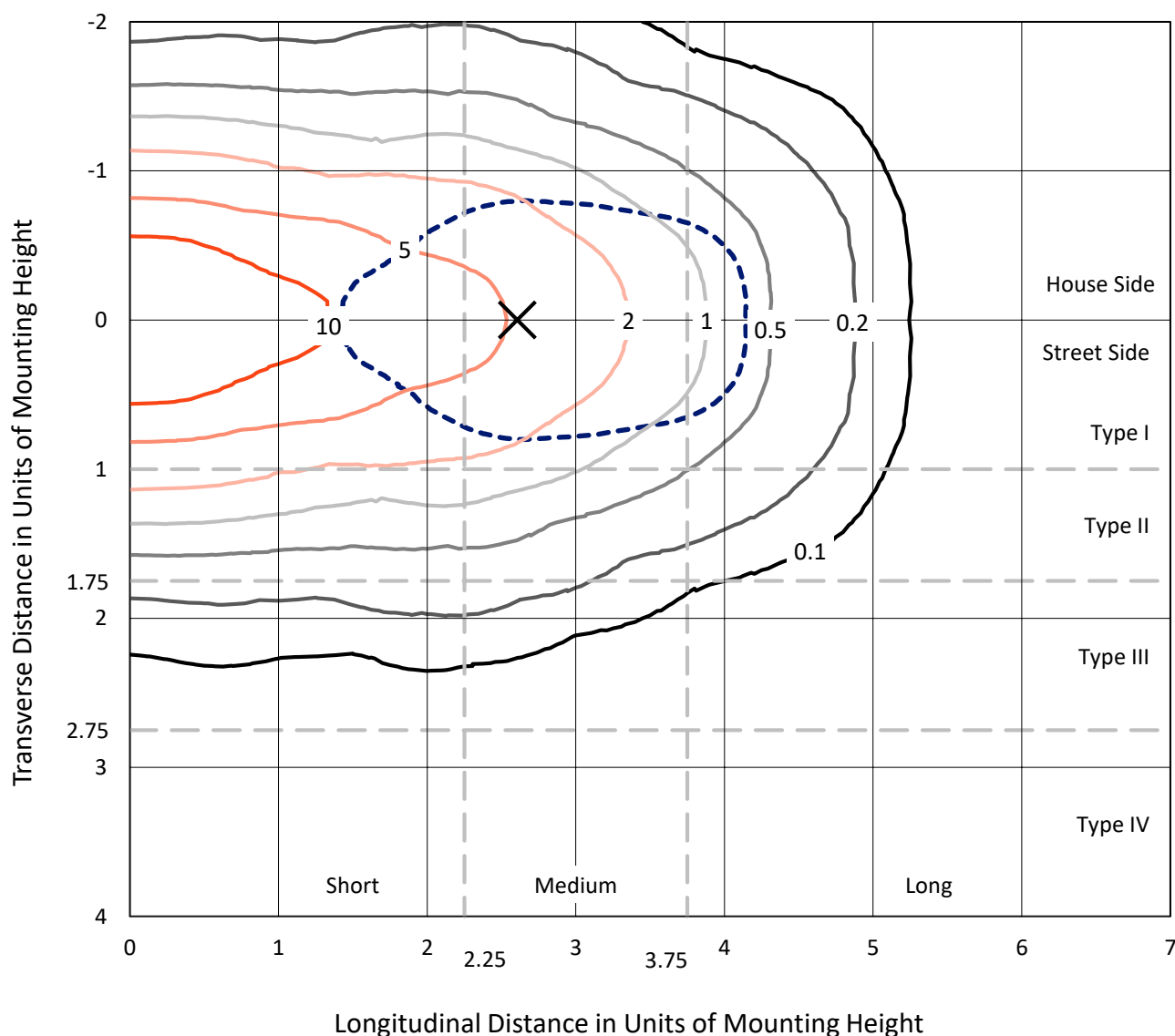
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

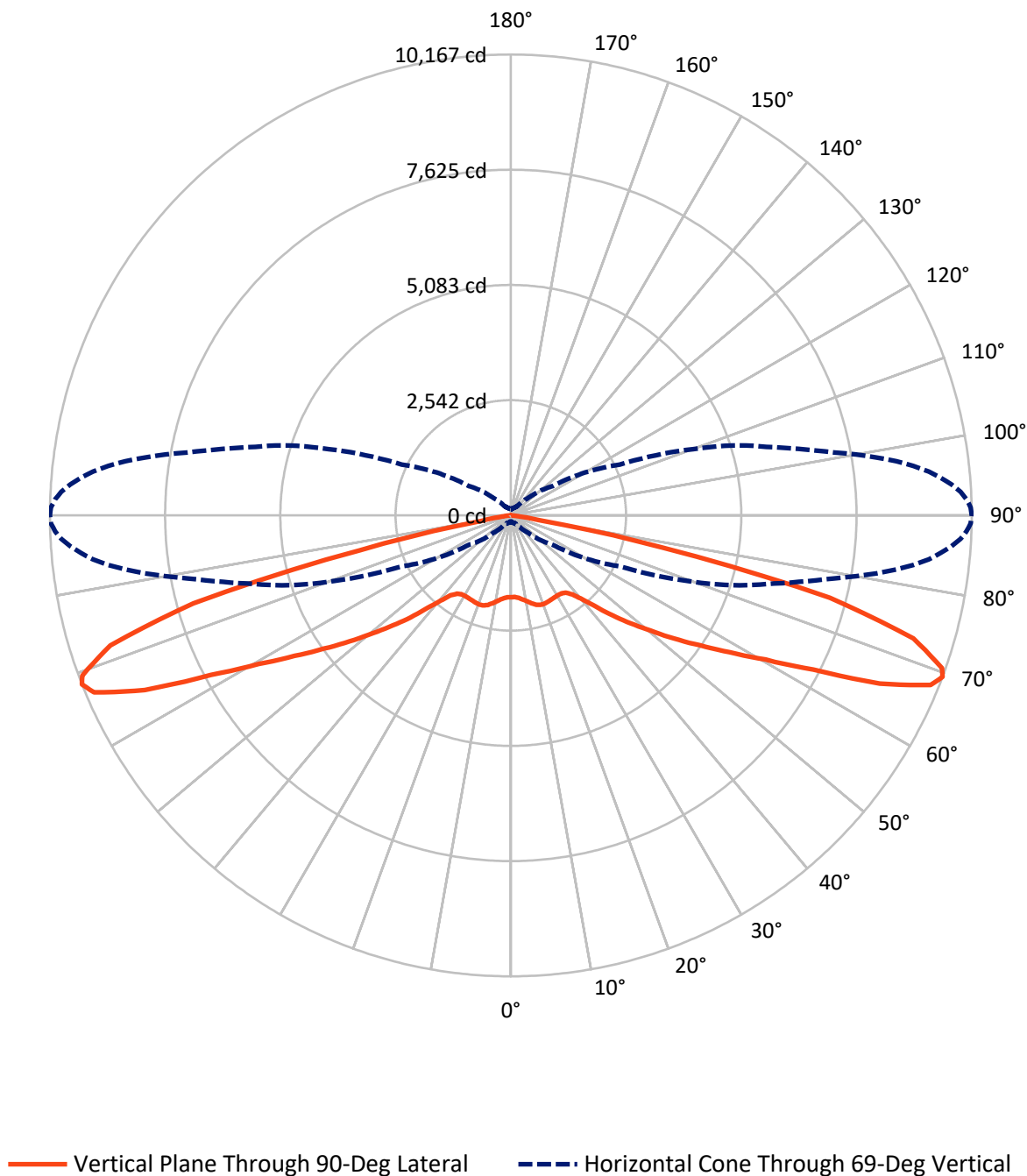


Based on 10 foot mounting height. Maximum calculated value = 18.4 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



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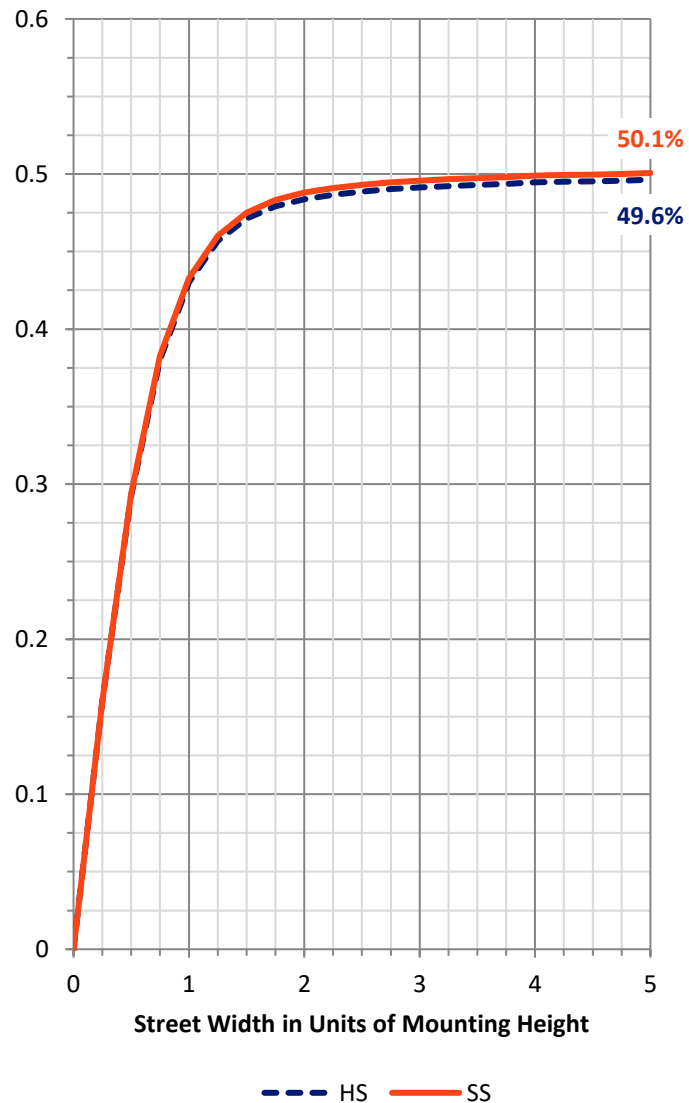
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4808.2	0.0	4808.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4808.2	0.0	4808.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	9616.5	0.0	9616.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	1.8
10°-20°	557.5	5.8
20°-30°	903.3	9.4
30°-40°	1125.7	11.7
40°-50°	1406.7	14.6
50°-60°	1737.0	18.1
60°-70°	2158.3	22.4
70°-80°	1432.8	14.9
80°-90°	118.3	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°	9616.5	100.0
0°-180°	9616.5	100.0

Coefficient of Utilization



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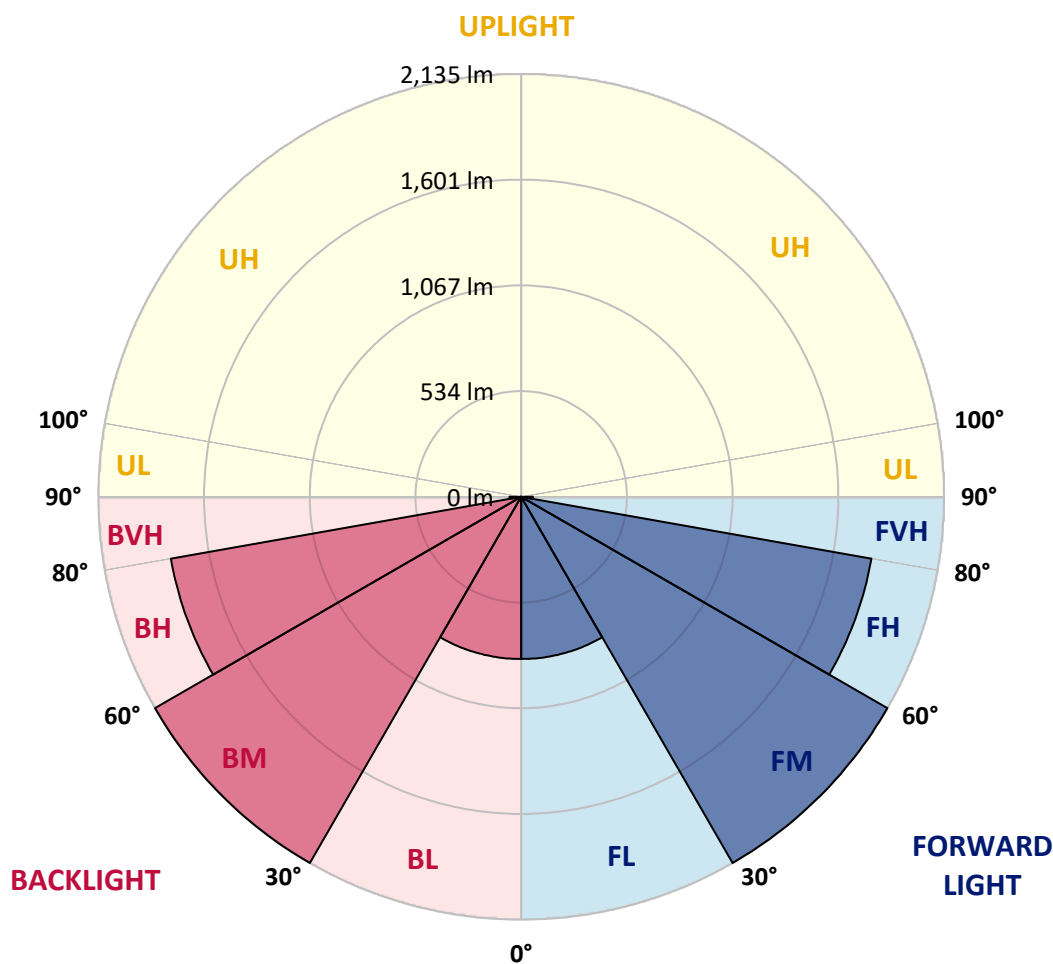
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	818.8	8.5			
FM	(30°-60°)	2134.7	22.2			
FH	(60°-80°)	1795.6	18.7			G1/1800
FVH	(80°-90°)	59.1	0.6			G1/100
BL	(0°-30°)	818.8	8.5	B2/1000		
BM	(30°-60°)	2134.7	22.2	B2/2500		
BH	(60°-80°)	1795.6	18.7	B3/2500		G3/2500
BVH	(80°-90°)	59.1	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°	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8
2.5°	1810.0	1811.6	1810.6	1812.6	1812.1	1812.1	1811.0	1809.0	1808.8	1808.5	1808.3
5°	1827.5	1825.4	1828.5	1831.6	1830.6	1831.1	1830.6	1830.6	1830.4	1830.2	1830.0
7.5°	1846.0	1845.4	1847.5	1855.7	1856.7	1859.8	1863.4	1866.0	1866.1	1866.2	1866.3
10°	1861.9	1862.4	1867.5	1879.3	1885.4	1895.2	1905.0	1912.6	1913.2	1913.8	1914.4
12.5°	1874.7	1875.2	1882.9	1901.4	1916.2	1934.7	1955.8	1967.6	1968.6	1969.6	1970.6
15°	1875.7	1877.2	1890.6	1920.9	1950.6	1980.9	2006.0	2021.9	2022.7	2023.6	2024.4
17.5°	1862.4	1863.4	1886.0	1930.6	1980.4	2027.6	2053.8	2060.9	2061.2	2061.5	2061.8
20°	1827.4	1830.0	1861.9	1928.0	2004.0	2065.6	2092.8	2083.0	2082.0	2081.0	2080.1
22.5°	1771.0	1770.6	1812.1	1901.4	2008.6	2095.3	2119.4	2093.8	2090.7	2087.7	2084.7
25°	1679.8	1685.8	1734.6	1841.4	1982.4	2102.0	2138.4	2099.4	2095.0	2090.7	2086.3
27.5°	1580.7	1584.3	1636.1	1750.6	1921.4	2078.9	2147.6	2110.7	2105.8	2101.0	2096.1
30°	1465.2	1469.9	1525.3	1644.8	1823.4	2019.4	2145.0	2136.4	2130.7	2125.0	2119.3
32.5°	1352.4	1357.6	1407.4	1538.2	1720.3	1937.8	2129.6	2172.8	2166.9	2161.1	2155.2
35°	1235.4	1243.1	1303.7	1436.1	1620.8	1847.0	2106.1	2219.5	2216.3	2213.0	2209.8
37.5°	1138.5	1140.0	1198.5	1337.6	1528.4	1760.2	2074.8	2278.4	2280.8	2283.2	2285.5
40°	1030.2	1040.0	1098.4	1245.2	1444.8	1686.9	2045.0	2358.6	2370.8	2383.1	2395.3
42.5°	933.2	934.2	993.8	1145.2	1354.0	1627.9	2028.6	2455.0	2481.2	2507.4	2533.6
45°	831.2	835.2	889.2	1035.4	1249.3	1558.2	2028.1	2566.3	2608.2	2650.0	2691.9
47.5°	734.7	736.2	793.2	929.2	1129.2	1460.6	2024.5	2685.8	2742.8	2799.8	2856.8
50°	642.3	640.8	696.7	827.6	1010.7	1332.9	1993.2	2821.3	2893.3	2965.2	3037.2
52.5°	536.6	543.8	601.8	727.0	903.0	1203.1	1901.9	2969.6	3055.6	3141.7	3227.8
55°	433.0	436.1	498.2	615.2	793.7	1082.0	1742.8	3106.0	3207.5	3309.0	3410.5
57.5°	319.1	328.4	382.7	498.2	682.9	979.9	1540.7	3176.8	3300.3	3423.8	3547.3
60°	225.2	232.4	280.6	377.6	561.3	872.7	1366.8	3137.4	3297.8	3458.3	3618.8
62.5°	175.4	181.2	219.6	282.6	437.6	765.5	1242.1	3009.6	3228.0	3446.3	3664.6
65°	153.9	159.0	194.0	226.2	326.8	656.2	1173.9	2874.6	3163.3	3451.9	3740.6
67.5°	139.0	145.2	175.5	198.0	266.3	572.6	1155.9	2789.4	3116.4	3443.3	3770.2
69°	132.4	138.6	165.7	184.7	247.3	542.8	1125.1	2655.5	2980.6	3305.6	3630.6
70°	128.2	133.4	158.6	178.0	241.1	522.3	1073.8	2488.3	2807.5	3126.6	3445.8
72.5°	119.0	121.6	143.6	162.6	223.7	422.2	826.0	1848.0	2124.7	2401.4	2678.1
75°	105.2	108.2	128.8	147.2	174.4	262.2	522.8	1143.1	1349.6	1556.2	1762.8
77.5°	90.8	93.4	111.3	140.6	135.4	163.6	312.5	636.2	756.0	875.8	995.6
80°	72.8	76.0	91.9	139.6	111.8	127.2	224.7	444.8	477.2	509.5	541.8
82.5°	53.4	55.9	71.8	112.8	85.7	96.0	171.4	377.1	388.3	399.6	410.8
85°	27.2	27.7	45.6	68.8	54.4	49.8	96.4	258.0	265.2	272.4	279.6
87.5°	4.6	4.6	10.2	11.8	13.4	8.2	12.3	44.2	45.5	46.9	48.3
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°	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8
2.5°	1808.0	1807.8	1806.9	1807.0	1807.7	1807.3	1808.0	1808.1	1808.8	1806.8	1806.4
5°	1829.8	1829.6	1829.5	1829.3	1829.7	1829.6	1830.0	1830.9	1830.7	1829.4	1829.2
7.5°	1866.4	1866.5	1867.0	1866.5	1867.5	1867.0	1866.0	1867.6	1868.8	1868.8	1870.0
10°	1914.9	1915.5	1917.3	1917.0	1918.8	1918.6	1918.8	1920.6	1921.8	1922.0	1923.2
12.5°	1971.6	1972.7	1973.6	1974.5	1976.5	1975.4	1977.8	1978.9	1980.4	1983.5	1981.9
15°	2025.2	2026.0	2028.8	2029.0	2030.8	2031.5	2033.8	2034.7	2035.1	2037.6	2037.9
17.5°	2062.1	2062.4	2063.5	2063.0	2064.5	2064.0	2065.6	2066.4	2067.7	2069.0	2071.4
20°	2079.1	2078.1	2077.6	2077.0	2075.9	2074.3	2074.8	2075.5	2075.7	2076.9	2078.7
22.5°	2081.6	2078.6	2075.5	2073.4	2070.2	2067.6	2065.0	2065.2	2065.4	2065.2	2066.4
25°	2082.0	2077.6	2072.7	2066.8	2062.5	2056.6	2051.7	2051.3	2049.8	2050.0	2050.6
27.5°	2091.2	2086.4	2079.5	2072.7	2063.3	2055.4	2047.6	2044.8	2042.1	2040.3	2039.6
30°	2113.6	2107.9	2099.7	2091.0	2080.8	2068.6	2057.3	2053.9	2049.8	2046.4	2043.4
32.5°	2149.4	2143.5	2134.5	2125.5	2111.8	2099.7	2088.6	2083.0	2077.3	2071.2	2065.6
35°	2206.5	2203.3	2195.4	2187.4	2177.4	2167.9	2157.9	2151.5	2142.1	2137.3	2130.4
37.5°	2287.9	2290.2	2290.3	2291.3	2288.2	2283.6	2276.4	2269.8	2266.6	2253.8	2245.6
40°	2407.6	2419.8	2431.1	2439.7	2447.4	2455.0	2461.6	2457.7	2459.0	2455.6	2450.6
42.5°	2559.8	2586.0	2610.0	2633.9	2651.3	2678.3	2697.1	2703.0	2718.2	2724.2	2735.2
45°	2733.8	2775.6	2815.9	2853.0	2887.6	2926.2	2963.9	2991.9	3022.5	3057.1	3091.9
47.5°	2913.8	2970.8	3030.1	3078.6	3128.6	3185.8	3235.8	3278.0	3333.0	3383.9	3439.9
50°	3109.2	3181.2	3248.6	3308.4	3372.8	3438.7	3507.2	3569.2	3643.5	3725.0	3813.1
52.5°	3313.9	3400.0	3478.1	3553.1	3628.6	3704.1	3777.0	3864.6	3956.3	4063.8	4173.9
55°	3511.9	3613.4	3702.0	3785.4	3871.9	3956.4	4031.6	4148.7	4261.1	4389.5	4533.2
57.5°	3670.8	3794.3	3896.4	3995.5	4093.1	4182.9	4275.3	4407.3	4550.7	4700.7	4883.0
60°	3779.2	3939.7	4070.1	4189.3	4308.9	4421.9	4528.2	4700.8	4871.3	5057.8	5284.7
62.5°	3883.0	4101.4	4271.5	4433.9	4595.3	4740.3	4872.5	5089.6	5312.4	5542.8	5812.8
65°	4029.2	4317.8	4568.4	4794.9	5018.3	5231.4	5429.1	5704.2	5985.5	6288.8	6611.1
67.5°	4097.1	4424.0	4750.4	5055.6	5339.3	5609.2	5863.2	6195.7	6526.7	6878.3	7267.8
69°	3955.7	4280.7	4629.5	4962.9	5276.4	5562.6	5837.5	6177.1	6521.2	6880.2	7273.1
70°	3765.0	4084.2	4436.3	4784.8	5084.5	5382.8	5667.7	6004.6	6353.2	6713.2	7124.5
72.5°	2954.8	3231.4	3574.9	3913.1	4213.9	4513.2	4789.9	5134.6	5485.6	5863.7	6253.1
75°	1969.3	2175.8	2431.7	2745.5	3021.2	3285.8	3553.9	3845.5	4188.0	4499.6	4855.8
77.5°	1115.4	1235.2	1383.8	1587.8	1785.8	1944.2	2135.4	2272.5	2471.3	2642.9	2824.2
80°	574.1	606.4	650.8	699.7	727.6	723.2	751.6	723.6	729.8	706.8	682.2
82.5°	422.0	433.3	453.3	463.2	462.2	429.9	395.6	348.0	306.0	261.9	221.5
85°	286.8	294.0	299.0	306.6	304.4	290.5	259.6	218.2	177.9	142.8	114.2
87.5°	49.7	51.0	50.7	54.9	55.1	51.2	42.0	35.9	30.2	22.6	15.9
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°	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8
2.5°	1806.0	1806.0	1807.0	1805.9	1805.9	1806.0	1805.4	1806.4	1805.9	1804.4	1802.9
5°	1829.6	1828.0	1827.5	1828.5	1829.6	1827.5	1829.0	1830.6	1828.0	1828.5	1827.5
7.5°	1869.0	1868.6	1868.0	1869.0	1869.0	1868.6	1869.0	1867.6	1866.5	1868.0	1869.6
10°	1921.9	1921.4	1922.4	1922.4	1924.4	1923.4	1922.9	1924.4	1923.4	1922.4	1922.9
12.5°	1984.0	1982.4	1985.0	1985.0	1986.6	1986.6	1986.0	1986.6	1986.0	1984.5	1983.5
15°	2039.4	2037.3	2037.8	2042.0	2041.4	2042.4	2042.5	2041.4	2040.9	2040.4	2040.9
17.5°	2072.8	2071.7	2071.8	2073.8	2075.3	2074.8	2074.8	2074.8	2074.2	2074.8	2075.8
20°	2078.9	2078.9	2079.4	2081.4	2084.0	2082.5	2082.5	2083.5	2082.4	2083.5	2084.0
22.5°	2067.1	2068.1	2069.2	2071.7	2072.2	2072.2	2072.2	2072.8	2073.8	2073.8	2074.8
25°	2050.7	2051.7	2053.2	2055.3	2057.4	2057.4	2057.4	2058.4	2058.4	2058.9	2059.4
27.5°	2038.4	2039.4	2040.9	2043.0	2045.6	2045.5	2045.6	2046.6	2046.6	2047.1	2048.1
30°	2039.9	2037.8	2039.4	2040.4	2042.0	2042.0	2041.4	2042.0	2042.5	2042.5	2043.0
32.5°	2062.0	2057.4	2055.8	2055.3	2055.8	2054.3	2053.8	2052.7	2051.7	2051.7	2051.2
35°	2120.4	2113.2	2112.8	2108.6	2104.6	2100.4	2101.0	2097.9	2098.9	2096.4	2094.3
37.5°	2240.5	2232.3	2237.4	2228.7	2223.1	2219.0	2214.4	2208.1	2204.6	2209.2	2209.2
40°	2455.4	2449.8	2448.3	2449.8	2444.6	2447.3	2436.0	2432.9	2426.2	2430.9	2437.0
42.5°	2752.5	2749.0	2768.4	2772.0	2774.1	2777.2	2779.2	2762.3	2761.8	2758.2	2747.9
45°	3119.4	3141.0	3139.9	3163.5	3164.5	3157.4	3160.4	3152.7	3149.6	3138.4	3152.2
47.5°	3496.4	3537.5	3552.9	3558.0	3577.6	3582.2	3563.6	3557.5	3568.2	3549.8	3552.4
50°	3901.2	3945.4	3981.3	4005.4	4019.2	4020.3	4006.4	4003.4	4013.1	3978.2	3994.6
52.5°	4299.4	4366.1	4433.8	4469.7	4495.4	4497.4	4508.2	4495.4	4500.5	4492.3	4508.7
55°	4691.9	4807.3	4886.8	4957.1	5001.8	5040.2	5043.8	5057.6	5058.7	5075.6	5058.7
57.5°	5075.6	5201.3	5339.8	5464.6	5533.8	5577.4	5618.5	5674.4	5686.7	5680.0	5690.8
60°	5528.6	5723.1	5911.4	6055.0	6174.5	6289.0	6350.6	6438.3	6452.2	6490.1	6457.3
62.5°	6101.2	6383.4	6638.9	6832.3	7014.0	7192.0	7326.4	7394.2	7435.2	7514.7	7488.5
65°	6979.6	7318.2	7656.3	7933.3	8187.8	8399.7	8603.9	8701.4	8809.2	8922.0	8942.5
67.5°	7702.9	8122.2	8503.3	8841.0	9149.2	9384.8	9597.2	9766.0	9897.3	9980.4	9987.1
69°	7735.8	8171.4	8585.4	8947.6	9269.3	9519.7	9743.3	9931.2	10058.9	10144.0	10166.7
70°	7578.8	8024.7	8465.9	8831.7	9161.0	9417.1	9654.1	9833.2	9975.8	10062.5	10092.8
72.5°	6695.8	7172.0	7643.4	7964.1	8300.6	8605.4	8795.2	8977.9	9179.0	9205.2	9288.3
75°	5278.3	5678.5	6044.2	6289.6	6570.6	6844.1	7030.4	7078.6	7183.8	7316.1	7268.9
77.5°	3058.8	3182.0	3418.0	3478.5	3427.2	3546.2	3585.7	3501.6	3497.5	3575.0	3421.0
80°	677.8	639.2	687.5	651.6	652.6	653.7	642.8	638.8	646.4	638.8	628.0
82.5°	187.8	181.6	182.6	180.6	184.2	181.6	180.0	184.2	183.6	183.2	186.8
85°	90.3	89.2	87.7	87.2	85.2	82.6	78.5	78.5	80.6	77.4	79.0
87.5°	11.8	11.3	11.3	13.3	11.8	9.8	9.8	9.8	9.2	9.2	9.2
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)