

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: McGRAW-EDISON

Report Number: P144736

Luminaire Tested: **VPL-F04-LED-E1-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144736
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33700)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VPL-F04-LED-E1-RW-7050
Description: VALET LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (28) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10177.3 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 102.2
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

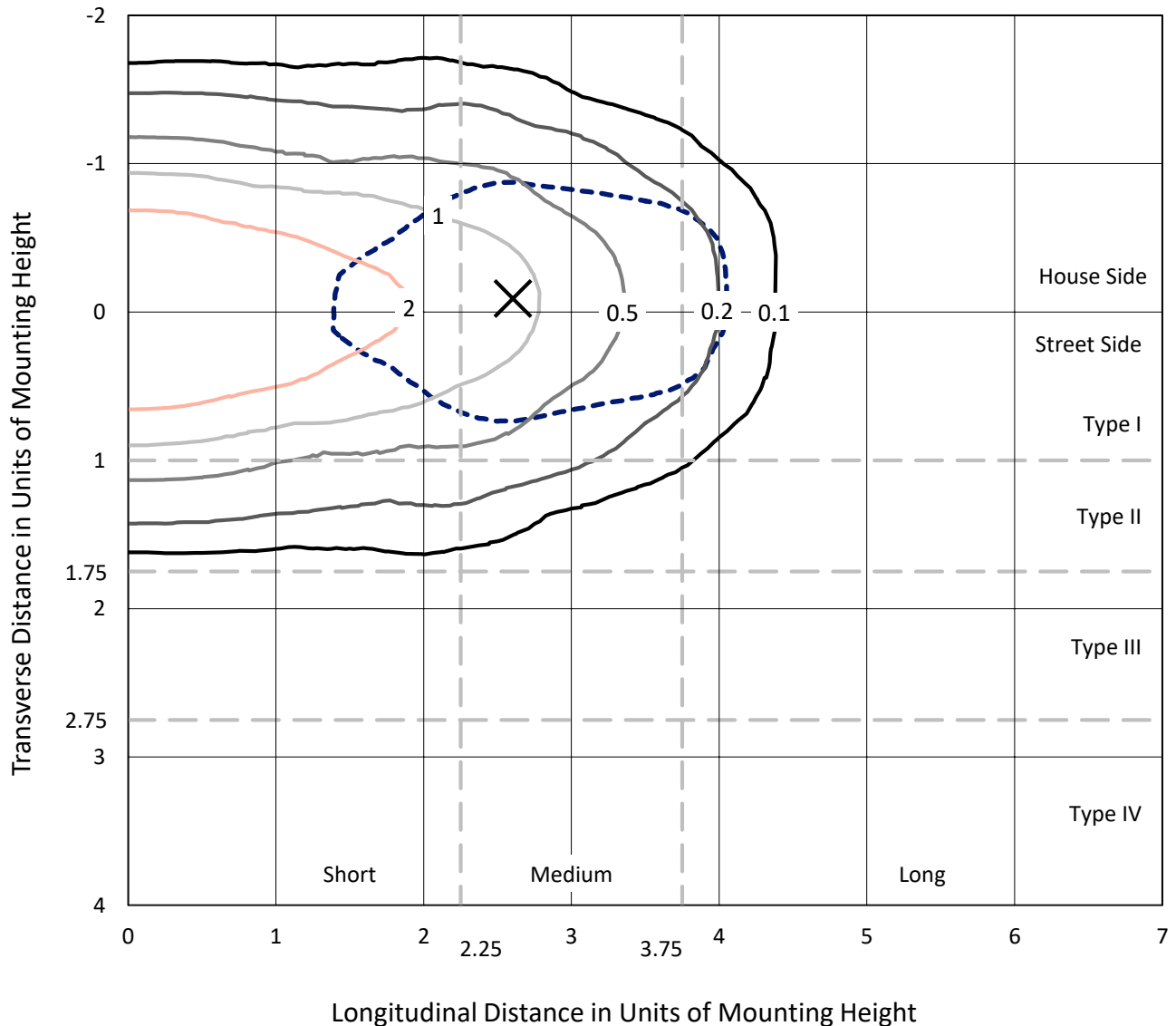


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

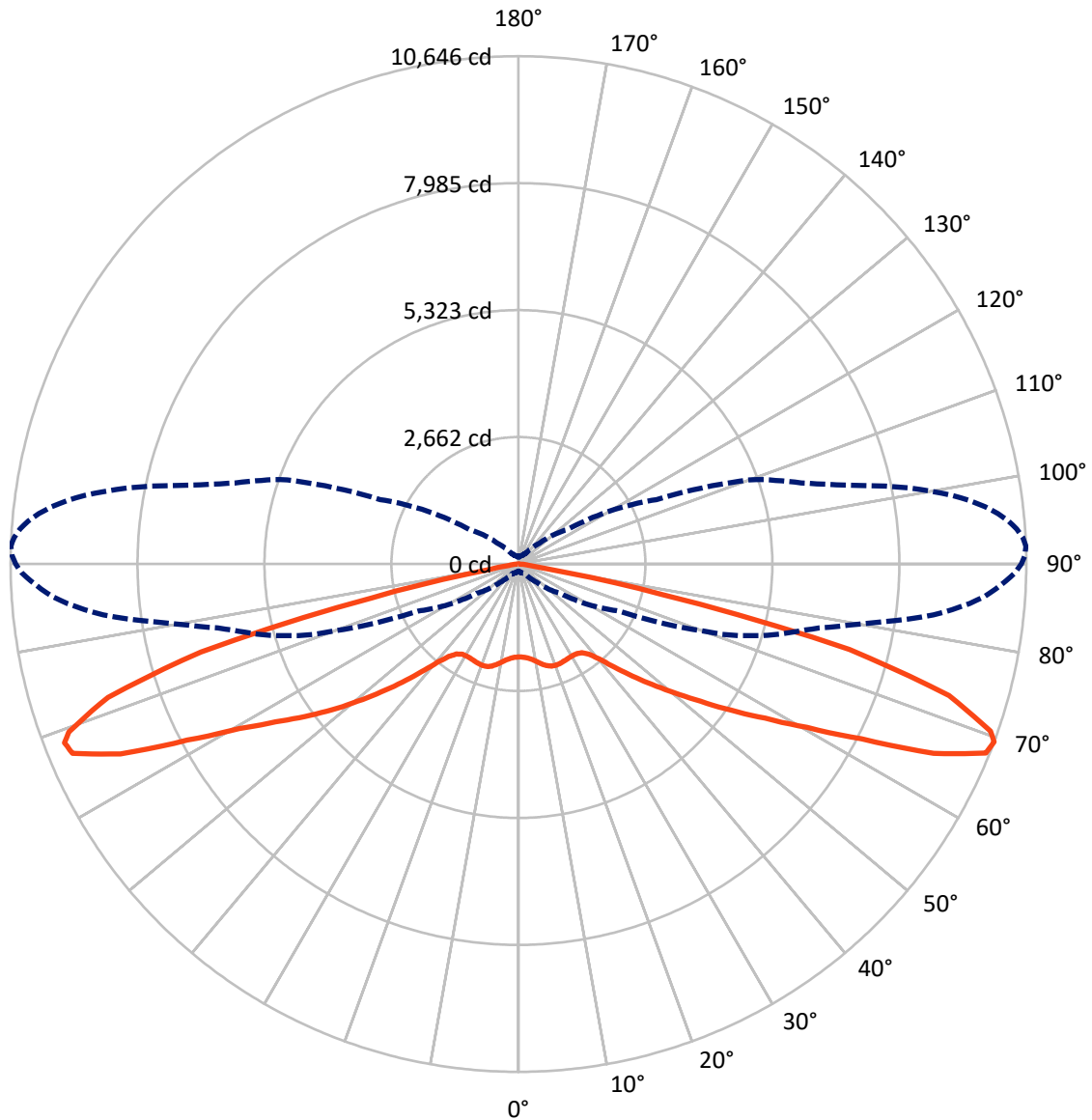


Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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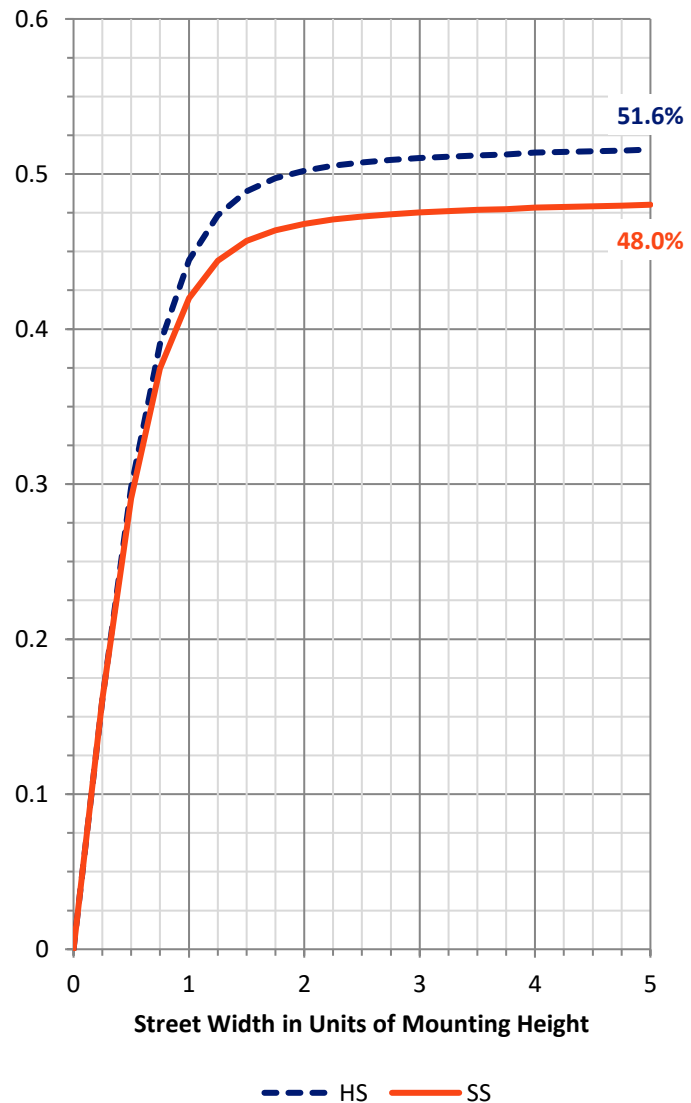
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5293.8	0.0	5293.8
	% Fixture	52.0	0.0	52.0
Street Side	Lumens	4883.5	0.0	4883.5
	% Fixture	48.0	0.0	48.0
Total	Lumens	10177.3	0.0	10177.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.7	1.9
10°-20°	600.5	5.9
20°-30°	972.6	9.6
30°-40°	1211.6	11.9
40°-50°	1508.4	14.8
50°-60°	1850.8	18.2
60°-70°	2282.6	22.4
70°-80°	1419.0	13.9
80°-90°	141.0	1.4
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°	10177.3	100.0
0°-180°	10177.3	100.0



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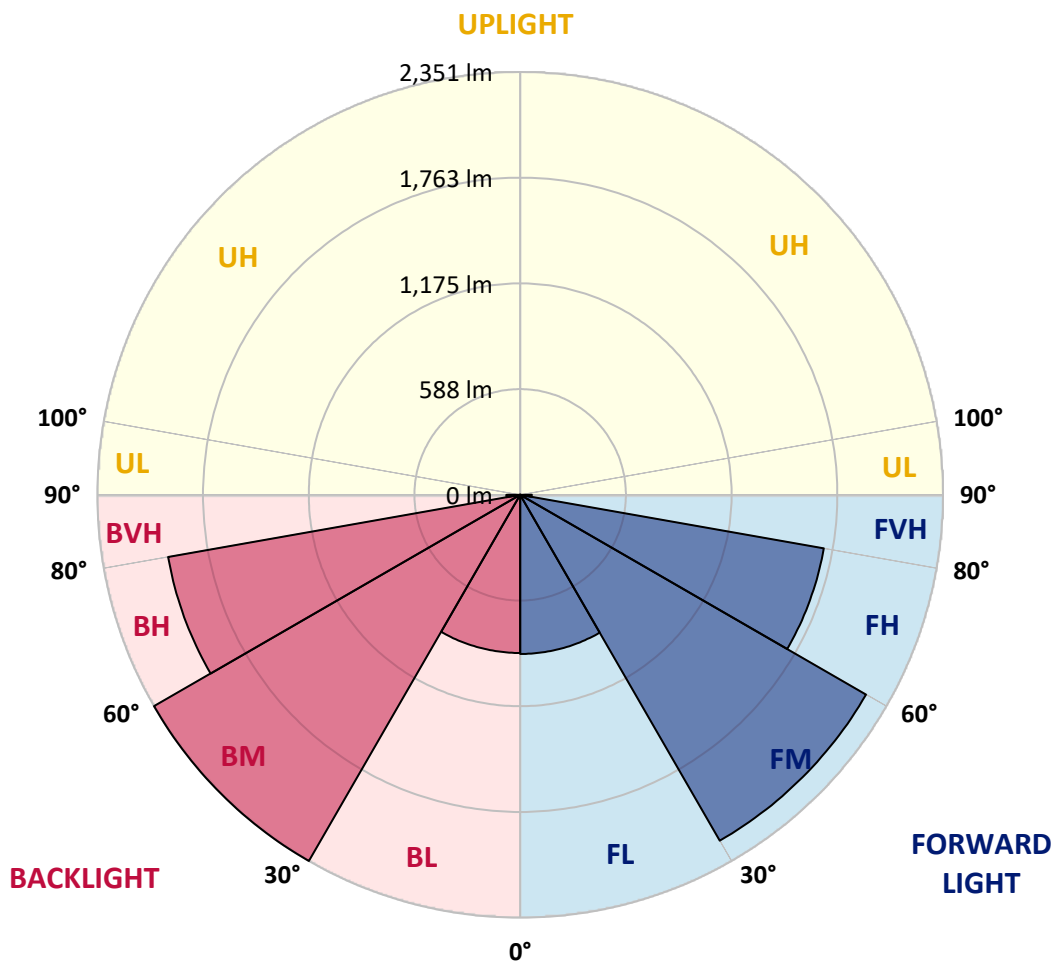
CATALOG NUMBER: VPL-F04-LED-E1-RW-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	884.7	8.7			
FM	(30°-60°)	2220.2	21.8			
FH	(60°-80°)	1714.2	16.8			G1/1800
FVH	(80°-90°)	64.5	0.6			G1/100
BL	(0°-30°)	879.2	8.6	B2/1000		
BM	(30°-60°)	2350.7	23.1	B2/2500		
BH	(60°-80°)	1987.5	19.5	B3/2500		G3/2500
BVH	(80°-90°)	76.5	0.8			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°	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0
2.5°	1982.8	1980.8	1985.5	1987.6	1983.5	1981.5	1976.1	1969.3	1969.3	1967.2	1965.2
5°	2011.3	2007.9	2012.7	2014.0	2012.0	2010.6	2005.9	1997.1	1998.4	1996.4	1992.3
7.5°	2034.3	2028.9	2035.0	2037.7	2043.1	2044.5	2042.5	2038.4	2037.7	2036.4	2037.0
10°	2052.6	2047.9	2057.4	2064.8	2074.3	2079.1	2087.2	2089.9	2089.9	2091.3	2094.0
12.5°	2062.1	2057.4	2072.3	2087.2	2106.2	2123.1	2136.0	2146.2	2150.9	2150.2	2149.5
15°	2053.3	2049.9	2070.9	2102.1	2138.7	2173.3	2191.6	2201.0	2205.1	2206.5	2206.5
17.5°	2022.8	2018.8	2047.2	2098.7	2162.4	2217.3	2248.5	2247.8	2243.7	2244.4	2242.4
20°	1961.8	1960.5	1997.7	2069.6	2169.9	2255.9	2292.5	2278.3	2262.7	2260.0	2257.3
22.5°	1873.7	1874.4	1918.5	2009.3	2150.2	2272.2	2321.7	2299.3	2270.8	2265.4	2261.4
25°	1764.0	1766.0	1812.7	1923.2	2088.5	2258.0	2333.2	2314.2	2281.7	2274.9	2268.1
27.5°	1646.0	1642.0	1698.9	1809.4	1992.3	2200.4	2326.4	2336.6	2305.4	2298.6	2289.8
30°	1515.9	1518.0	1578.3	1695.5	1881.2	2104.8	2303.4	2361.6	2342.0	2337.3	2327.1
32.5°	1393.9	1396.0	1450.2	1584.4	1773.4	1996.4	2265.4	2388.8	2391.5	2386.7	2381.3
35°	1268.6	1276.7	1335.7	1475.3	1671.1	1893.4	2216.6	2424.7	2453.8	2457.2	2458.6
37.5°	1158.8	1165.6	1222.5	1370.9	1577.6	1816.1	2163.1	2473.5	2547.3	2557.5	2566.3
40°	1045.0	1051.1	1110.7	1265.2	1486.1	1753.1	2122.4	2539.2	2659.1	2686.9	2705.9
42.5°	944.7	948.0	1002.3	1149.3	1376.3	1682.6	2101.4	2619.8	2803.5	2839.4	2865.1
45°	841.0	841.0	892.5	1029.4	1254.3	1585.0	2093.3	2711.3	2958.7	2999.3	3046.1
47.5°	734.6	740.0	795.6	930.4	1122.9	1445.4	2064.8	2817.0	3133.5	3180.3	3245.3
50°	630.2	639.7	697.3	825.4	1007.0	1307.2	1978.1	2938.3	3326.0	3389.7	3459.5
52.5°	523.2	533.3	588.2	714.9	895.2	1170.3	1806.0	3067.1	3529.9	3609.2	3685.8
55°	417.4	418.1	473.0	597.0	778.0	1062.6	1605.4	3155.2	3729.8	3827.4	3901.3
57.5°	300.9	307.0	358.5	473.7	662.8	959.6	1430.5	3147.7	3893.8	3997.5	4097.1
60°	220.2	225.7	271.7	354.4	523.8	851.1	1303.1	2975.6	3992.8	4129.7	4260.5
62.5°	186.4	193.1	231.1	275.8	401.2	734.6	1200.8	2710.6	4129.7	4312.0	4494.2
65°	168.7	174.8	214.8	237.9	314.4	616.7	1137.1	2515.5	4299.1	4581.7	4834.4
67.5°	155.9	162.0	196.5	214.1	269.7	554.3	1113.4	2467.4	4332.3	4711.1	5037.7
69°	149.1	155.2	185.7	203.3	259.5	536.7	1073.4	2333.9	4082.2	4522.7	4850.0
70°	145.0	150.4	178.2	195.8	254.8	518.4	1011.1	2145.5	3775.2	4238.1	4566.1
72.5°	133.5	137.6	160.6	176.2	233.1	408.6	749.5	1460.4	2756.0	3184.3	3522.5
75°	117.2	122.7	141.0	155.9	178.2	239.9	470.3	840.3	1648.1	1955.1	2274.9
77.5°	100.3	105.7	120.6	147.7	145.7	164.7	294.8	518.4	851.8	1005.6	1205.6
80°	86.1	90.1	104.4	141.0	120.6	131.5	221.6	403.9	555.0	603.1	642.4
82.5°	66.4	70.5	86.7	114.5	96.9	97.6	166.0	374.1	483.2	521.1	544.2
85°	42.7	43.4	63.7	77.3	69.1	56.9	103.0	273.8	360.5	388.3	391.0
87.5°	14.2	17.6	26.4	22.4	25.8	21.7	29.8	84.0	133.5	139.6	140.3
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0
2.5°	1965.2	1964.5	1964.5	1965.2	1964.5	1963.9	1963.2	1960.5	1959.1	1957.8	1957.8
5°	1993.0	1993.0	1993.0	1991.0	1991.0	1991.6	1988.9	1987.6	1984.9	1984.9	1982.8
7.5°	2035.0	2036.4	2035.0	2033.7	2032.3	2032.3	2029.6	2030.9	2030.3	2028.9	2028.9
10°	2089.2	2091.3	2092.6	2091.9	2088.5	2087.9	2088.5	2089.2	2087.2	2085.8	2087.9
12.5°	2148.2	2150.9	2152.9	2152.9	2151.6	2155.0	2152.9	2152.2	2152.2	2151.6	2152.9
15°	2207.8	2207.1	2207.8	2207.8	2208.5	2207.1	2208.5	2209.9	2210.5	2209.2	2211.9
17.5°	2243.7	2241.7	2241.7	2242.4	2240.3	2240.3	2240.3	2243.1	2243.1	2244.4	2243.7
20°	2254.6	2253.9	2250.5	2249.8	2245.1	2246.4	2246.4	2247.8	2247.8	2247.8	2249.8
22.5°	2255.9	2249.8	2245.8	2241.7	2234.9	2234.2	2234.2	2233.6	2233.6	2234.2	2234.9
25°	2260.7	2251.2	2243.7	2236.3	2228.8	2223.4	2220.7	2217.3	2215.3	2215.3	2213.9
27.5°	2281.0	2269.5	2258.6	2248.5	2236.3	2228.1	2220.7	2214.6	2208.5	2205.8	2202.4
30°	2316.9	2305.4	2293.9	2282.4	2265.4	2254.6	2242.4	2230.9	2222.7	2216.6	2209.9
32.5°	2372.5	2365.0	2352.2	2339.3	2324.4	2308.1	2297.3	2279.6	2267.5	2260.0	2245.1
35°	2452.5	2449.7	2444.3	2434.2	2417.9	2405.7	2394.2	2377.9	2361.6	2344.7	2337.9
37.5°	2569.0	2574.4	2567.0	2566.3	2563.6	2552.7	2547.3	2527.7	2516.8	2503.3	2493.1
40°	2713.4	2730.3	2743.2	2750.6	2758.8	2767.6	2766.9	2760.1	2750.6	2751.3	2742.5
42.5°	2893.6	2923.4	2951.2	2966.8	3002.7	3031.2	3055.6	3071.2	3077.9	3092.8	3099.6
45°	3086.1	3133.5	3174.8	3212.8	3274.5	3321.9	3381.5	3426.9	3452.0	3496.7	3495.4
47.5°	3300.2	3350.4	3405.9	3475.7	3534.0	3613.3	3694.6	3786.8	3841.7	3902.0	3944.0
50°	3522.5	3589.6	3658.0	3723.1	3813.9	3918.9	4025.3	4131.7	4227.9	4320.8	4387.2
52.5°	3758.3	3834.2	3904.7	3992.1	4093.7	4225.9	4344.5	4475.9	4607.4	4738.9	4825.6
55°	3990.7	4071.4	4145.9	4248.9	4374.3	4507.8	4648.8	4812.7	4978.8	5150.9	5264.1
57.5°	4193.4	4267.2	4372.3	4465.8	4603.3	4751.8	4922.5	5119.0	5325.1	5537.8	5693.7
60°	4380.4	4479.3	4588.4	4698.2	4864.9	5034.3	5251.2	5484.3	5747.2	5989.2	6228.4
62.5°	4648.1	4776.2	4945.6	5076.4	5270.8	5461.9	5716.1	6017.6	6344.3	6668.9	6920.3
65°	5050.6	5243.1	5453.8	5620.5	5850.2	6109.8	6422.9	6802.4	7223.2	7624.4	7970.0
67.5°	5314.2	5569.7	5794.0	6023.0	6278.5	6574.0	6928.4	7368.9	7850.0	8315.6	8777.7
69°	5132.6	5426.7	5679.5	5904.5	6151.1	6446.6	6835.6	7246.9	7747.7	8274.2	8762.8
70°	4849.3	5160.4	5434.8	5652.4	5897.0	6191.1	6589.6	6988.0	7493.6	8049.9	8503.3
72.5°	3813.9	4151.3	4433.9	4635.2	4879.8	5163.1	5528.4	5973.6	6494.7	6988.7	7486.8
75°	2523.6	2812.3	3098.9	3283.3	3505.5	3799.0	4082.9	4471.9	4896.8	5319.0	5624.6
77.5°	1345.8	1508.5	1712.4	1819.5	1991.6	2129.2	2218.7	2531.7	2600.9	2740.5	2753.3
80°	637.7	607.9	595.0	563.1	588.9	582.1	542.1	563.8	553.6	523.2	515.0
82.5°	532.6	471.7	387.6	323.9	283.9	244.0	205.3	191.1	188.4	182.3	189.1
85°	392.4	370.0	302.2	229.0	182.3	136.2	117.9	107.1	103.7	101.0	104.4
87.5°	148.4	147.1	125.4	103.0	71.2	46.8	42.7	38.6	39.3	37.9	37.9
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0
2.5°	1956.4	1957.8	1956.4	1955.7	1953.7	1953.0	1953.7	1953.0	1954.4	1954.4	1953.0
5°	1982.8	1982.8	1982.8	1981.5	1979.4	1979.4	1978.1	1976.1	1978.1	1977.4	1976.1
7.5°	2026.2	2024.2	2024.8	2023.5	2020.1	2022.1	2020.8	2018.8	2020.1	2018.1	2017.4
10°	2084.5	2083.8	2084.5	2081.8	2080.4	2081.1	2079.7	2077.7	2078.4	2080.4	2076.4
12.5°	2153.6	2151.6	2150.9	2150.2	2148.9	2148.2	2146.8	2149.5	2148.2	2144.1	2142.8
15°	2208.5	2211.9	2211.9	2210.5	2209.9	2210.5	2208.5	2210.5	2208.5	2208.5	2207.1
17.5°	2243.1	2246.4	2247.1	2247.1	2247.1	2247.1	2248.5	2249.2	2249.2	2247.8	2246.4
20°	2249.8	2253.2	2253.9	2255.9	2257.3	2258.0	2260.0	2261.4	2263.4	2263.4	2263.4
22.5°	2235.6	2239.7	2241.7	2243.7	2247.1	2250.5	2252.5	2256.6	2258.6	2260.7	2260.7
25°	2215.3	2218.0	2221.4	2226.1	2230.9	2234.9	2239.0	2242.4	2245.8	2249.2	2249.2
27.5°	2201.7	2204.4	2207.8	2211.9	2216.6	2221.4	2226.1	2230.9	2234.9	2239.0	2239.7
30°	2205.1	2205.8	2206.5	2209.2	2213.9	2218.0	2222.7	2226.8	2230.9	2234.2	2234.9
32.5°	2239.7	2234.2	2228.8	2229.5	2229.5	2232.2	2234.2	2239.0	2241.0	2242.4	2241.0
35°	2321.0	2302.0	2300.7	2295.2	2287.1	2286.4	2286.4	2284.4	2283.0	2282.4	2280.3
37.5°	2480.2	2454.5	2449.7	2432.1	2423.3	2419.9	2404.3	2406.4	2396.9	2392.8	2392.1
40°	2726.2	2716.7	2708.6	2689.0	2666.6	2670.7	2655.1	2638.8	2618.5	2623.2	2619.8
42.5°	3092.8	3087.4	3082.0	3064.4	3042.7	3027.1	3011.5	2990.5	2952.6	2960.7	2938.3
45°	3523.2	3533.3	3521.1	3512.3	3473.0	3445.2	3414.7	3378.1	3347.6	3335.4	3323.2
47.5°	3975.8	3986.0	3982.6	3962.3	3931.1	3891.8	3855.2	3818.6	3773.2	3740.0	3732.6
50°	4438.7	4436.0	4457.0	4442.1	4429.2	4364.8	4330.9	4286.9	4239.4	4218.4	4201.5
52.5°	4879.8	4954.4	4952.3	4949.6	4959.1	4897.5	4862.2	4806.6	4776.2	4764.6	4730.7
55°	5351.5	5422.6	5477.5	5497.2	5501.9	5499.2	5464.0	5442.3	5409.1	5423.3	5362.3
57.5°	5810.3	5924.8	6015.6	6065.1	6069.1	6138.9	6103.7	6117.9	6100.3	6095.6	6056.9
60°	6376.1	6511.0	6666.1	6775.2	6796.9	6930.4	6926.4	6971.8	6955.5	6944.0	6908.7
62.5°	7211.0	7368.9	7581.0	7747.0	7863.6	7938.8	8023.5	8038.4	8076.4	8056.7	8004.5
65°	8352.8	8541.9	8831.9	9059.6	9242.6	9290.0	9446.6	9496.1	9565.2	9487.2	9389.7
67.5°	9162.0	9469.0	9752.2	9994.1	10153.4	10322.8	10467.8	10549.8	10570.8	10497.0	10387.2
69°	9142.3	9494.7	9786.8	10018.5	10227.9	10415.0	10541.0	10620.3	10646.0	10588.4	10473.9
70°	8909.9	9296.1	9597.0	9849.1	10064.6	10270.6	10381.1	10464.4	10494.3	10455.6	10322.1
72.5°	7778.9	8207.1	8405.7	8735.7	9042.0	9212.1	9293.4	9376.8	9439.8	9414.7	9267.0
75°	6045.4	6288.7	6395.8	6630.2	6900.6	6993.5	7020.6	7073.4	7169.6	7164.9	7059.2
77.5°	3004.7	2969.5	2934.3	2958.7	3154.5	2923.4	3013.6	3006.1	3077.3	3117.2	3088.1
80°	541.5	556.4	569.2	533.3	584.8	561.8	523.2	556.4	550.3	563.8	566.5
82.5°	188.4	191.8	193.1	197.9	198.6	196.5	193.8	200.6	199.9	201.3	201.3
85°	101.6	102.3	99.6	99.6	96.9	96.2	95.6	97.6	101.6	99.6	101.6
87.5°	34.6	33.9	31.2	28.5	26.4	24.4	22.4	23.7	26.4	27.8	33.2
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):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0
2.5°	1953.0	1953.0	1951.7	1949.6	1947.6	1946.9	1946.9	1947.6	1946.9	1946.9	1945.6
5°	1972.7	1974.0	1974.0	1970.6	1969.3	1967.9	1966.6	1966.6	1965.9	1965.2	1964.5
7.5°	2014.0	2011.3	2014.7	2007.9	2008.6	2007.2	2005.2	2005.9	2001.1	2001.8	2001.8
10°	2072.3	2067.5	2070.3	2068.2	2065.5	2064.2	2060.8	2062.8	2057.4	2057.4	2056.7
12.5°	2141.4	2136.0	2136.7	2135.3	2134.0	2128.5	2127.2	2127.9	2123.8	2121.1	2119.7
15°	2201.7	2200.4	2200.4	2200.4	2196.3	2192.9	2188.8	2188.8	2184.8	2183.4	2180.7
17.5°	2243.7	2243.1	2241.7	2241.7	2238.3	2234.9	2234.2	2232.2	2228.8	2224.8	2223.4
20°	2261.4	2260.7	2259.3	2258.6	2255.9	2253.9	2249.2	2246.4	2244.4	2241.0	2237.6
22.5°	2260.0	2258.0	2258.0	2256.6	2251.9	2249.2	2244.4	2240.3	2236.3	2234.2	2228.8
25°	2249.2	2246.4	2246.4	2243.1	2237.6	2232.9	2226.8	2220.7	2215.3	2211.2	2205.1
27.5°	2238.3	2234.9	2233.6	2227.5	2220.7	2213.2	2205.8	2198.3	2191.6	2186.1	2182.7
30°	2232.9	2228.1	2224.1	2216.6	2205.8	2197.7	2187.5	2181.4	2176.0	2171.9	2169.9
32.5°	2236.3	2231.5	2225.4	2216.6	2205.1	2195.6	2186.8	2181.4	2178.7	2178.7	2180.7
35°	2271.5	2266.1	2258.6	2249.2	2238.3	2229.5	2224.1	2218.0	2225.4	2226.1	2233.6
37.5°	2382.7	2375.9	2361.0	2356.9	2336.6	2333.2	2332.5	2330.5	2335.9	2344.7	2355.5
40°	2607.0	2592.1	2572.4	2569.0	2556.8	2550.7	2549.4	2546.0	2541.2	2559.5	2564.9
42.5°	2916.7	2919.4	2894.3	2884.1	2886.8	2863.1	2882.1	2883.4	2871.9	2869.2	2864.5
45°	3298.9	3305.0	3302.9	3290.0	3296.8	3289.4	3271.1	3287.3	3265.6	3234.5	3208.7
47.5°	3722.4	3726.5	3727.1	3738.0	3753.6	3748.8	3727.8	3696.0	3667.5	3612.6	3555.7
50°	4198.8	4223.9	4221.8	4226.6	4240.1	4208.9	4181.2	4135.1	4068.7	3981.9	3885.7
52.5°	4769.4	4745.0	4766.7	4749.7	4748.4	4711.1	4633.2	4566.8	4440.7	4329.6	4183.9
55°	5401.6	5372.5	5354.2	5316.9	5275.6	5201.0	5091.3	4951.7	4802.6	4657.6	4484.8
57.5°	6044.1	6005.4	5970.2	5903.1	5810.9	5680.8	5542.6	5362.3	5163.8	4958.4	4769.4
60°	6884.4	6791.5	6714.9	6622.1	6471.7	6266.3	6092.2	5831.9	5581.2	5319.0	5071.6
62.5°	7867.0	7784.3	7575.6	7437.3	7260.5	7015.8	6783.4	6437.1	6144.3	5787.9	5507.3
65°	9275.1	9074.6	8895.6	8617.8	8357.6	8034.3	7712.5	7272.7	6863.3	6462.8	6115.2
67.5°	10205.6	10011.1	9790.8	9505.5	9174.8	8807.6	8371.1	7898.8	7389.2	6934.5	6555.0
69°	10313.3	10105.3	9861.3	9551.6	9199.9	8789.9	8347.4	7860.2	7320.1	6867.4	6478.4
70°	10162.2	9933.1	9704.1	9374.1	9014.9	8584.6	8131.2	7643.3	7076.8	6652.6	6250.1
72.5°	9175.5	8981.0	8661.2	8304.7	7988.9	7496.3	7030.0	6578.7	6033.9	5600.2	5263.4
75°	7029.4	6850.5	6723.7	6397.8	6108.4	5687.6	5411.1	4909.7	4616.2	4157.4	3832.2
77.5°	3222.3	3189.7	3272.4	3195.8	3069.1	2939.0	2887.5	2652.4	2450.4	2335.9	2166.5
80°	573.3	586.2	617.3	618.0	602.4	609.9	650.6	654.6	708.8	698.7	766.4
82.5°	204.0	203.3	207.4	207.4	210.8	217.5	243.3	283.9	334.8	389.7	460.1
85°	103.7	111.1	115.9	115.9	117.9	122.7	133.5	166.0	208.0	271.7	344.3
87.5°	34.6	40.0	44.7	48.1	47.4	48.8	52.2	61.7	89.5	122.7	166.7
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):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0
2.5°	1944.9	1946.2	1944.2	1944.2	1943.5	1942.2	1938.8	1936.1	1932.7	1930.7	1925.9
5°	1963.9	1963.2	1961.8	1961.8	1959.8	1956.4	1949.6	1943.5	1937.4	1933.4	1928.6
7.5°	1999.1	1999.8	1999.1	1997.7	1994.4	1990.3	1978.1	1967.9	1961.1	1951.0	1945.6
10°	2052.0	2052.0	2049.9	2046.5	2047.9	2039.1	2019.4	2004.5	1990.3	1974.7	1964.5
12.5°	2115.0	2115.7	2111.6	2111.6	2111.6	2098.7	2070.9	2044.5	2022.8	1998.4	1981.5
15°	2177.3	2175.3	2171.9	2170.5	2169.2	2156.3	2124.5	2094.6	2060.8	2022.8	1995.7
17.5°	2218.7	2218.0	2212.6	2212.6	2209.2	2199.0	2176.0	2144.8	2098.0	2045.2	2003.8
20°	2233.6	2231.5	2228.8	2228.1	2224.8	2219.3	2214.6	2192.2	2138.0	2062.8	1999.8
22.5°	2224.8	2222.7	2219.3	2220.0	2218.7	2222.7	2243.1	2231.5	2166.5	2059.4	1969.3
25°	2201.7	2199.0	2199.0	2200.4	2201.0	2219.3	2268.8	2262.0	2168.5	2022.8	1901.5
27.5°	2180.7	2178.7	2179.4	2184.1	2188.2	2220.7	2292.5	2265.4	2125.8	1944.9	1812.1
30°	2170.5	2171.2	2176.0	2182.7	2190.2	2241.7	2308.8	2234.9	2041.1	1834.4	1697.5
32.5°	2184.1	2191.6	2200.4	2209.9	2222.0	2284.4	2312.9	2167.8	1923.2	1713.8	1574.2
35°	2241.7	2258.0	2268.8	2280.3	2293.2	2348.1	2308.1	2071.6	1801.2	1600.0	1445.4
37.5°	2366.4	2377.9	2385.4	2401.6	2417.2	2432.8	2291.8	1966.6	1698.2	1489.5	1332.3
40°	2573.8	2565.6	2580.5	2578.5	2574.4	2535.1	2268.1	1873.7	1608.8	1385.1	1226.6
42.5°	2844.8	2838.0	2817.7	2801.4	2779.8	2657.8	2250.5	1809.4	1517.3	1280.8	1115.4
45°	3159.9	3114.5	3069.8	3030.5	2988.5	2794.7	2248.5	1749.7	1409.5	1162.9	995.5
47.5°	3453.4	3393.7	3326.0	3262.3	3210.1	2941.7	2262.0	1664.3	1278.7	1040.9	887.1
50°	3769.1	3664.1	3578.0	3490.6	3432.4	3107.1	2272.9	1535.6	1141.2	929.1	783.4
52.5°	4053.8	3942.6	3834.2	3749.5	3664.1	3279.2	2233.6	1371.6	1017.8	816.6	681.7
55°	4320.8	4194.0	4091.7	3996.8	3918.9	3466.9	2097.4	1227.2	899.9	704.8	566.5
57.5°	4578.3	4446.8	4336.3	4238.8	4150.7	3615.3	1843.9	1107.3	775.2	572.6	443.9
60°	4861.5	4711.1	4591.8	4473.2	4377.7	3684.4	1591.1	996.8	642.4	434.4	325.3
62.5°	5249.8	5078.4	4941.5	4791.1	4647.4	3666.8	1445.4	872.8	500.8	318.5	242.6
65°	5819.7	5604.3	5430.1	5234.2	5037.1	3582.1	1353.3	743.4	375.4	244.6	208.0
67.5°	6256.8	5992.6	5770.3	5543.3	5293.9	3418.8	1303.1	646.5	300.2	211.4	188.4
69°	6172.1	5911.2	5668.6	5436.2	5154.3	3194.5	1263.8	609.9	277.8	199.2	178.9
70°	5955.3	5690.3	5443.6	5210.5	4905.6	2957.3	1208.9	583.5	269.7	192.5	172.1
72.5°	4959.8	4715.2	4449.5	4194.7	3877.6	2140.1	925.0	471.0	246.7	176.2	156.5
75°	3568.6	3358.5	3159.3	2883.4	2520.2	1249.6	578.0	288.7	187.7	159.9	142.3
77.5°	2012.0	1931.3	1822.2	1595.2	1358.0	681.7	341.5	179.6	149.1	147.7	123.3
80°	785.4	855.2	885.0	832.2	746.8	491.3	252.8	141.0	126.0	151.1	106.4
82.5°	556.4	654.6	683.8	651.2	607.9	441.2	195.2	109.8	100.3	126.7	90.1
85°	443.9	500.8	504.2	481.8	467.6	353.7	129.4	68.4	71.2	89.5	65.1
87.5°	226.3	222.3	214.8	220.2	195.8	142.3	45.4	28.5	34.6	37.3	35.9
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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CATALOG NUMBER: VPL-F04-LED-E1-RW-7050

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	1949.0	1949.0
2.5°	1923.2	1925.2
5°	1926.6	1927.3
7.5°	1942.9	1940.8
10°	1959.8	1957.1
12.5°	1974.7	1970.0
15°	1983.5	1977.4
17.5°	1984.9	1980.1
20°	1970.0	1963.2
22.5°	1923.9	1917.8
25°	1851.4	1841.9
27.5°	1754.5	1745.0
30°	1638.6	1626.4
32.5°	1511.2	1501.0
35°	1383.8	1377.0
37.5°	1270.6	1267.9
40°	1162.2	1158.8
42.5°	1049.7	1045.0
45°	934.5	929.1
47.5°	826.7	819.3
50°	721.7	717.0
52.5°	617.3	613.3
55°	498.8	494.0
57.5°	374.1	361.9
60°	265.0	258.2
62.5°	198.6	191.8
65°	172.1	166.0
67.5°	156.5	149.8
69°	148.4	143.0
70°	144.3	139.6
72.5°	132.8	130.1
75°	119.3	116.6
77.5°	104.4	100.3
80°	90.1	86.1
82.5°	71.2	68.4
85°	44.0	42.0
87.5°	23.7	19.7
90°	0.0	0.0

(END OF REPORT)