

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: LUMARK

Report Number: P144874

Luminaire Tested: **LDRL-SL2-F06-E-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P144874  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33701)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: LDRL-SL2-F06-E-7030  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL  
Light Source: (42) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13246.1 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 156.5  
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

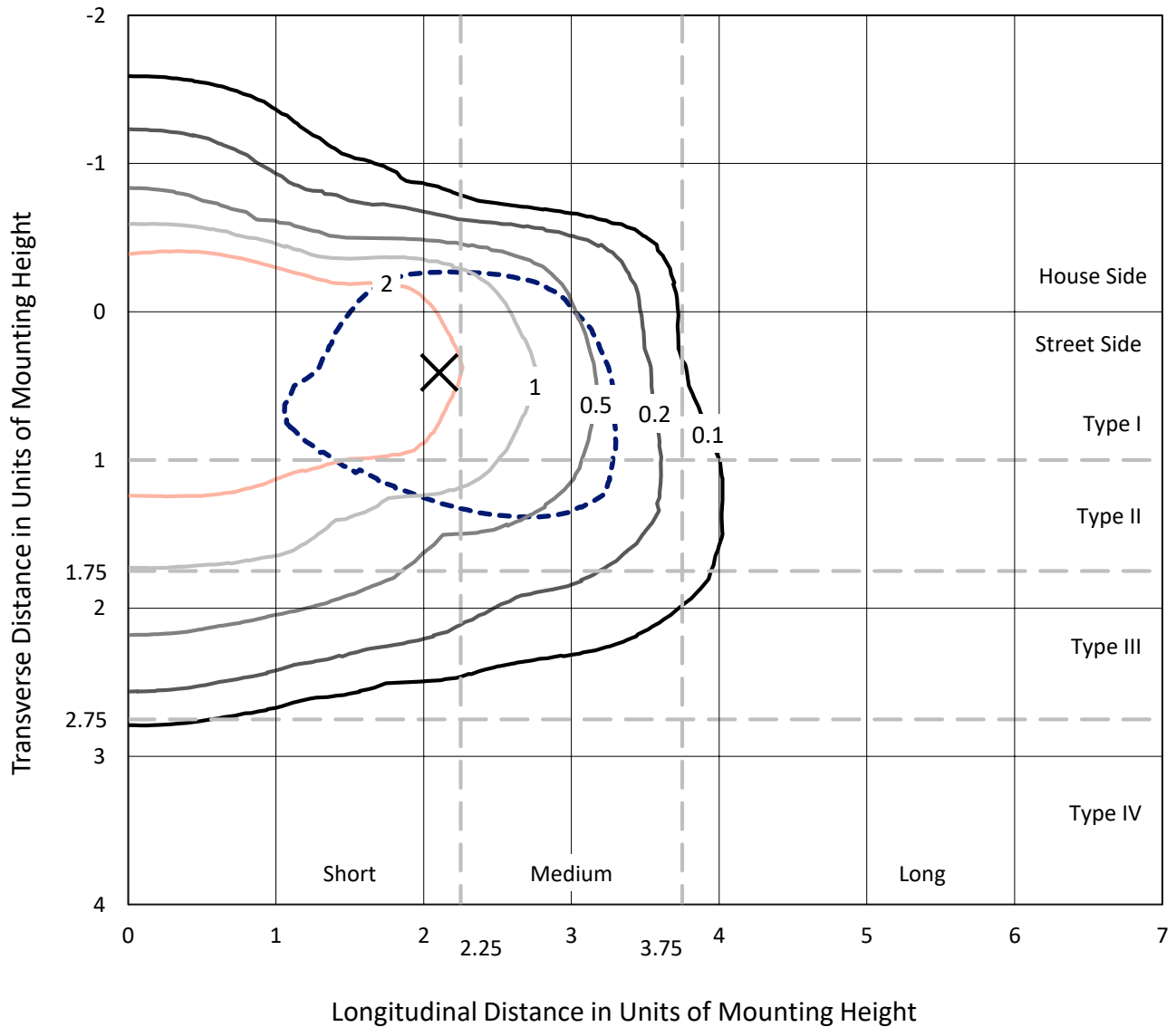


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### Iso-Footcandle Lines of Horizontal Illumination

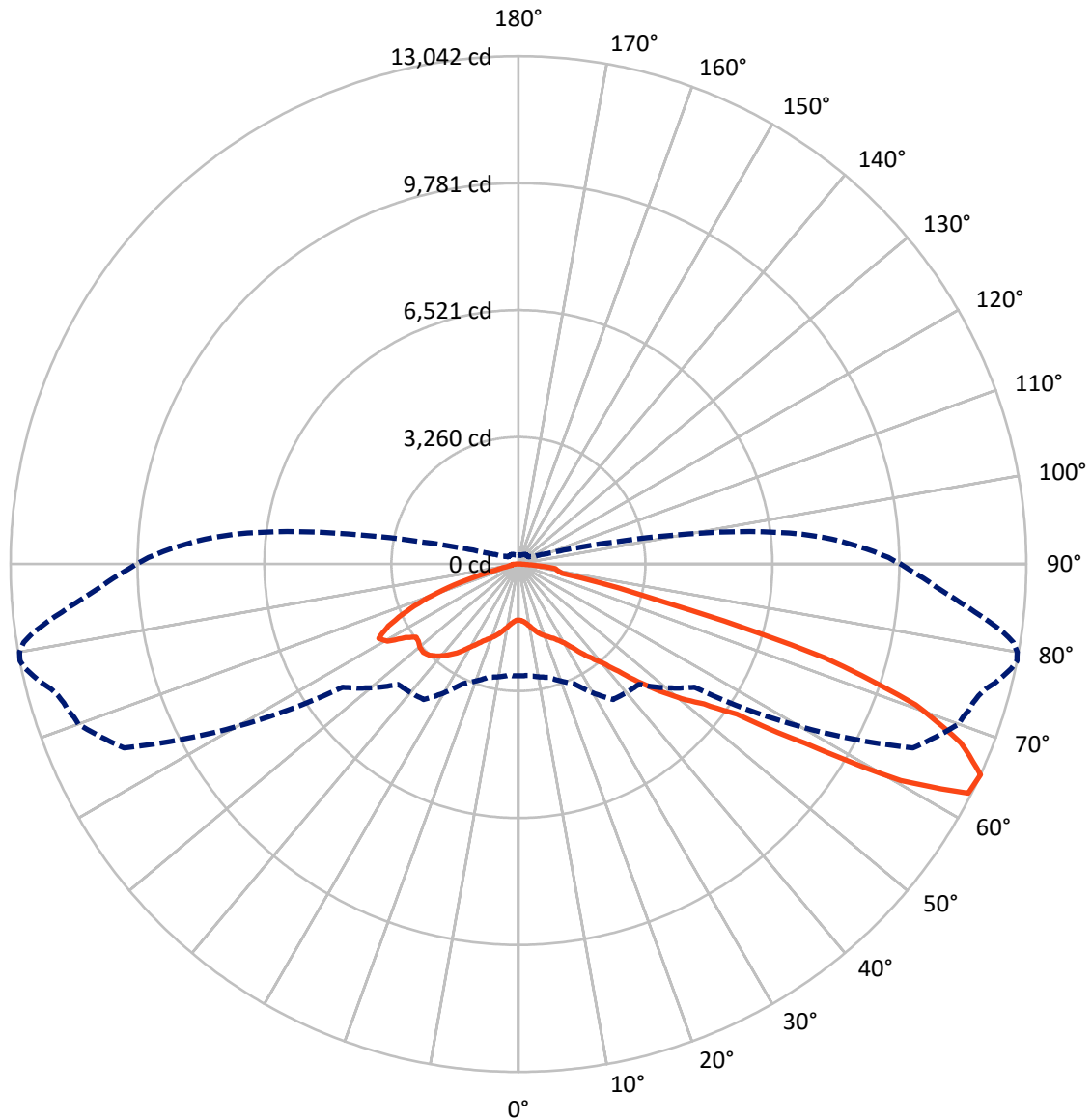
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3006.7	0.0	3006.7
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	10239.4	0.0	10239.4
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	13246.1	0.0	13246.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.9	1.1
10°-20°	465.1	3.5
20°-30°	801.9	6.1
30°-40°	1307.7	9.9
40°-50°	2183.0	16.5
50°-60°	2951.9	22.3
60°-70°	3667.1	27.7
70°-80°	1468.4	11.1
80°-90°	258.0	1.9
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°	13246.1	100.0
0°-180°	13246.1	100.0



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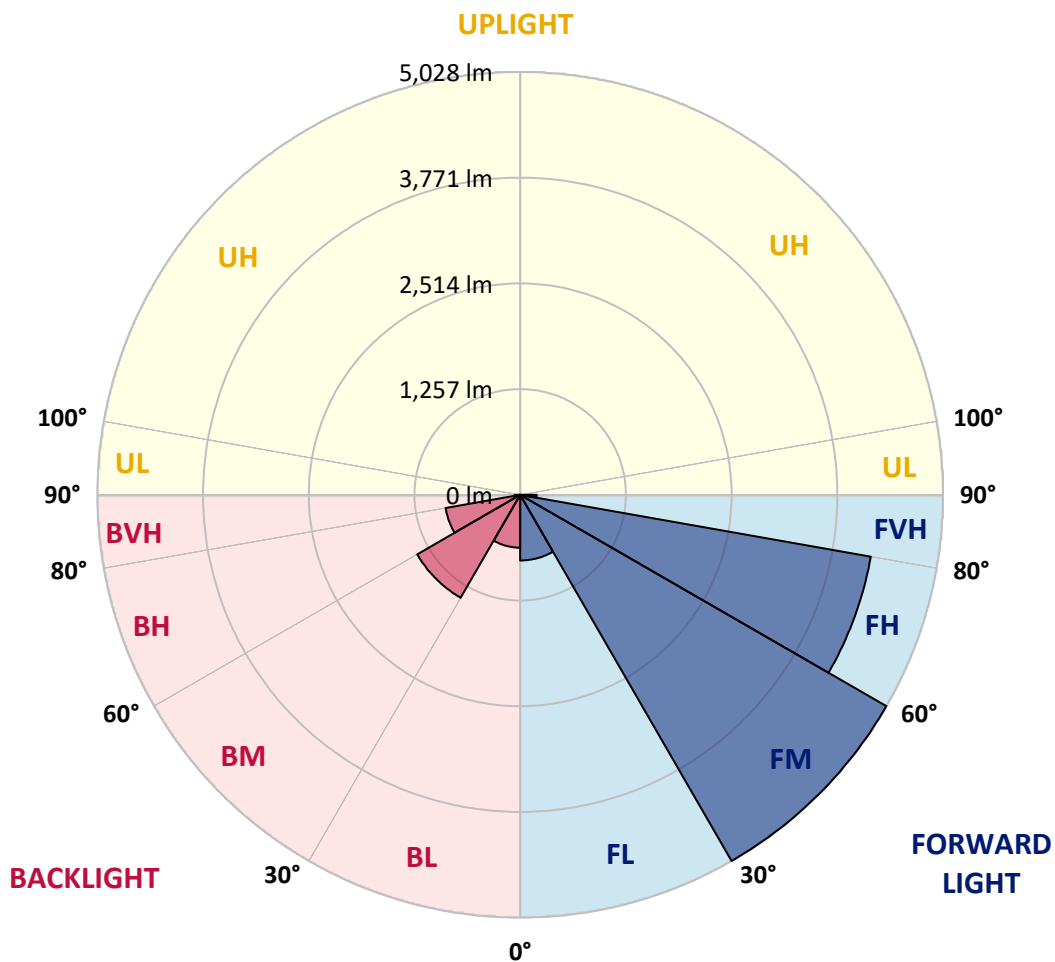
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	781.1	5.9			
FM	(30°-60°)	5028.4	38.0			
FH	(60°-80°)	4234.2	32.0			G2/5000
FVH	(80°-90°)	195.7	1.5			G2/225
BL	(0°-30°)	628.9	4.7	B2/1000		
BM	(30°-60°)	1414.2	10.7	B2/2500		
BH	(60°-80°)	901.4	6.8	B2/1000		G2/1000
BVH	(80°-90°)	62.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5
2.5°	1450.4	1449.5	1454.0	1457.6	1457.6	1459.4	1458.5	1453.1	1454.0	1455.8	1454.0
5°	1466.7	1463.0	1467.6	1473.0	1476.6	1481.1	1485.7	1486.6	1490.2	1490.2	1489.3
7.5°	1502.0	1499.2	1505.6	1507.4	1515.5	1522.8	1531.8	1538.1	1541.8	1543.6	1546.3
10°	1562.6	1560.8	1562.6	1566.2	1569.8	1578.0	1593.3	1606.9	1615.1	1615.1	1618.7
12.5°	1635.9	1628.6	1630.4	1623.2	1625.0	1642.2	1660.3	1682.9	1696.5	1698.3	1700.1
15°	1692.9	1689.2	1686.5	1676.6	1683.8	1706.4	1734.5	1767.1	1778.8	1788.8	1787.9
17.5°	1746.2	1741.7	1735.4	1721.8	1729.1	1765.2	1807.8	1844.0	1863.9	1865.7	1867.5
20°	1809.6	1804.2	1792.4	1764.3	1762.5	1813.2	1870.2	1909.1	1927.2	1935.4	1938.1
22.5°	1890.1	1882.9	1861.2	1806.9	1792.4	1852.1	1920.0	1967.9	1986.9	1995.1	1999.6
25°	1993.3	1978.8	1944.4	1859.3	1829.5	1891.9	1973.4	2031.3	2057.5	2065.6	2071.1
27.5°	2086.5	2075.6	2034.0	1933.5	1882.0	1945.3	2038.5	2112.7	2148.9	2158.8	2167.0
30°	2195.0	2179.6	2146.2	2039.4	1970.6	2026.7	2145.3	2239.4	2283.7	2284.6	2302.7
32.5°	2450.2	2440.2	2409.5	2291.8	2176.0	2179.6	2290.0	2419.4	2463.7	2471.0	2487.3
35°	2828.4	2824.8	2823.9	2758.7	2672.8	2584.1	2592.2	2690.9	2720.7	2732.5	2737.9
37.5°	3077.2	3108.9	3185.8	3232.8	3211.1	3230.1	3130.6	3010.2	2993.1	2980.4	2985.8
40°	3291.6	3319.7	3475.3	3692.5	3824.6	3917.8	3830.0	3460.8	3323.3	3283.5	3268.1
42.5°	3418.3	3450.0	3672.6	4020.0	4356.6	4577.3	4600.9	4087.9	3738.6	3734.1	3676.2
45°	3487.1	3518.7	3784.7	4252.5	4728.4	5126.6	5332.8	4859.6	4346.6	4308.6	4228.1
47.5°	3473.5	3503.4	3780.2	4338.5	4948.3	5491.2	5903.8	5639.6	5047.8	4956.5	4845.2
50°	3307.9	3329.6	3620.1	4198.2	4889.5	5643.2	6294.6	6355.3	5841.3	5717.4	5550.9
52.5°	3136.9	3175.8	3416.5	3949.4	4622.6	5549.1	6528.1	7006.7	6582.4	6497.3	6283.8
55°	3044.6	3075.4	3271.7	3726.8	4341.2	5227.9	6624.9	7621.1	7482.6	7448.2	7297.1
57.5°	3041.0	3070.9	3227.4	3592.0	4112.3	4893.1	6652.9	8570.2	8976.4	8985.5	8942.1
60°	3189.4	3220.2	3351.4	3657.2	4041.7	4606.3	6552.5	9916.5	10814.1	10893.7	11026.7
62.5°	3210.2	3224.7	3383.0	3795.6	4298.7	4391.9	6139.0	11037.6	12077.2	12150.5	12223.7
65°	2871.8	2870.9	3011.1	3391.2	4245.3	4370.1	5517.4	11175.1	12026.5	12070.8	12162.2
67.5°	2141.6	2123.5	2203.2	2550.6	3368.5	4375.6	4780.9	10137.3	11089.1	11173.3	11204.0
70°	1103.8	1131.9	1186.2	1398.8	2138.9	3522.4	4106.9	8553.0	9734.7	9766.3	9875.8
72.5°	453.3	441.5	478.6	588.1	1070.4	2328.0	3397.5	6749.7	8040.0	8018.3	8038.2
75°	252.4	256.1	266.9	306.7	520.3	1169.0	2918.9	4778.2	5467.7	5093.1	4980.0
77.5°	202.7	204.5	205.4	212.6	284.1	623.4	2240.3	3146.9	2749.7	2553.3	2478.2
80°	148.4	158.3	169.2	171.0	195.4	353.8	1228.7	2649.2	2320.8	2157.9	2024.0
82.5°	119.4	124.0	147.5	151.1	155.6	210.8	556.4	2488.2	2311.7	2145.3	1960.7
85°	71.5	79.6	120.3	121.2	123.1	128.5	307.6	1013.4	1260.4	1113.8	1019.7
87.5°	25.3	32.6	59.7	49.8	63.3	52.5	134.8	339.3	418.0	397.2	352.0
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°	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5
2.5°	1453.1	1453.1	1454.9	1454.0	1454.0	1454.0	1454.0	1452.2	1452.2	1449.5	1451.3
5°	1489.3	1488.4	1489.3	1490.2	1489.3	1491.1	1490.2	1489.3	1490.2	1489.3	1490.2
7.5°	1547.2	1542.7	1549.0	1545.4	1544.5	1549.9	1547.2	1549.9	1550.8	1549.9	1549.0
10°	1620.5	1623.2	1623.2	1623.2	1621.4	1626.8	1627.7	1629.5	1630.4	1634.1	1634.1
12.5°	1704.6	1705.5	1709.2	1708.2	1710.1	1716.4	1720.9	1721.8	1722.7	1725.4	1721.8
15°	1795.1	1796.9	1796.9	1805.1	1802.3	1811.4	1814.1	1814.1	1815.0	1825.9	1826.8
17.5°	1875.6	1875.6	1882.9	1882.9	1890.1	1891.9	1900.1	1901.0	1904.6	1914.5	1915.4
20°	1943.5	1947.1	1951.6	1957.1	1959.8	1965.2	1970.6	1976.1	1980.6	1988.7	1989.6
22.5°	2007.7	2011.4	2018.6	2022.2	2028.5	2032.2	2036.7	2043.0	2050.3	2061.1	2063.8
25°	2081.9	2085.5	2093.7	2099.1	2106.4	2111.8	2119.9	2128.1	2132.6	2143.5	2151.6
27.5°	2176.0	2186.9	2197.7	2200.5	2205.9	2218.6	2229.4	2240.3	2250.2	2255.6	2265.6
30°	2313.6	2313.6	2336.2	2336.2	2346.1	2357.9	2365.1	2376.9	2395.0	2400.4	2413.1
32.5°	2498.1	2502.7	2510.8	2535.2	2553.3	2558.8	2564.2	2581.4	2592.2	2605.8	2621.2
35°	2761.4	2765.9	2770.5	2794.0	2814.8	2820.2	2825.7	2836.5	2854.6	2878.1	2870.9
37.5°	2997.6	3000.3	3014.8	3041.0	3052.8	3067.2	3071.8	3091.7	3101.6	3123.3	3124.2
40°	3281.7	3275.3	3283.5	3313.3	3331.4	3330.5	3345.0	3381.2	3388.4	3398.4	3423.7
42.5°	3678.0	3654.5	3679.8	3689.7	3716.9	3734.1	3763.0	3787.5	3804.7	3842.7	3860.7
45°	4190.1	4165.7	4186.5	4191.0	4247.1	4264.3	4307.7	4340.3	4377.4	4420.8	4433.5
47.5°	4773.7	4728.4	4703.1	4731.2	4798.1	4826.2	4868.7	4899.4	4938.4	4961.0	4953.7
50°	5449.6	5341.0	5290.3	5275.8	5323.8	5363.6	5429.7	5444.1	5462.2	5461.3	5462.2
52.5°	6203.3	6090.2	5984.3	5911.0	5903.8	5957.2	5973.4	5977.1	5971.6	5930.9	5905.6
55°	7187.7	7179.5	7068.2	6916.2	6906.3	6899.9	6804.9	6793.2	6771.5	6709.0	6623.1
57.5°	8973.7	9064.2	8990.9	8987.3	8907.7	8855.2	8680.6	8593.7	8502.3	8333.1	8198.3
60°	11038.5	11169.7	11242.0	11273.7	11429.3	11429.3	11286.4	11163.3	11014.9	10757.1	10505.5
62.5°	12281.6	12396.6	12503.3	12670.7	12868.9	12956.6	12963.9	12854.4	12667.1	12373.0	12017.4
65°	12202.9	12288.0	12417.4	12614.6	12778.4	12935.8	13041.7	13008.2	12865.2	12571.2	12183.9
67.5°	11311.7	11435.7	11603.1	11784.9	11936.9	12085.3	12256.3	12269.0	12231.0	11951.4	11601.2
70°	9936.4	10095.7	10201.5	10430.4	10499.2	10649.4	10821.3	10903.7	10842.1	10626.8	10421.4
72.5°	8072.6	8198.3	8216.4	8116.9	8151.3	8188.4	8230.0	8037.3	7963.1	7675.4	7543.3
75°	4894.9	4729.3	4590.0	4451.6	4038.1	3891.5	3666.2	3222.0	3171.3	2866.4	2654.7
77.5°	2328.0	2258.4	2132.6	1921.8	1641.3	1372.6	1139.1	925.6	846.0	696.7	593.5
80°	1948.9	1865.7	1752.6	1596.1	1399.7	1204.3	1019.7	861.4	702.1	571.8	456.9
82.5°	1787.9	1643.1	1483.9	1349.0	1210.6	1077.6	953.7	810.7	726.5	586.3	478.6
85°	903.9	791.7	641.5	540.2	456.0	371.0	321.2	274.2	244.3	194.5	169.2
87.5°	303.1	247.9	184.6	156.5	141.1	121.2	111.3	105.9	103.1	91.4	81.4
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°	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5
2.5°	1451.3	1451.3	1451.3	1451.3	1450.4	1450.4	1450.4	1450.4	1450.4	1450.4	1451.3
5°	1488.4	1488.4	1489.3	1492.0	1486.6	1488.4	1490.2	1487.5	1490.2	1487.5	1491.1
7.5°	1548.1	1550.8	1549.0	1552.6	1550.8	1556.2	1552.6	1549.9	1551.7	1551.7	1552.6
10°	1632.2	1635.9	1633.1	1635.0	1635.0	1638.6	1634.1	1635.0	1635.9	1634.1	1635.0
12.5°	1725.4	1727.2	1726.3	1731.8	1729.1	1731.8	1729.1	1732.7	1734.5	1736.3	1736.3
15°	1826.8	1828.6	1834.0	1833.1	1838.5	1836.7	1837.6	1833.1	1842.2	1836.7	1838.5
17.5°	1920.0	1919.1	1926.3	1929.0	1929.9	1930.8	1933.5	1929.9	1930.8	1933.5	1931.7
20°	1992.4	1998.7	2000.5	2007.7	2013.2	2015.0	2014.1	2016.8	2020.4	2016.8	2016.8
22.5°	2069.3	2078.3	2081.0	2085.5	2091.0	2091.9	2097.3	2100.0	2101.8	2100.9	2101.8
25°	2161.5	2167.9	2174.2	2183.3	2189.6	2190.5	2195.0	2198.6	2199.5	2198.6	2204.1
27.5°	2274.6	2282.8	2290.9	2301.8	2309.0	2310.8	2320.8	2320.8	2326.2	2328.9	2330.7
30°	2420.3	2423.0	2443.8	2454.7	2452.0	2464.7	2478.2	2477.3	2483.7	2485.5	2490.0
32.5°	2632.0	2632.0	2650.1	2663.7	2678.2	2673.7	2694.5	2690.9	2700.8	2706.2	2703.5
35°	2889.0	2898.0	2911.6	2919.8	2935.1	2943.3	2957.8	2965.9	2970.4	2969.5	2959.6
37.5°	3154.1	3168.6	3174.0	3193.9	3209.3	3222.9	3224.7	3215.6	3219.3	3201.2	3195.7
40°	3457.2	3478.0	3490.7	3520.5	3518.7	3535.9	3537.7	3511.5	3507.0	3483.4	3459.0
42.5°	3880.7	3909.6	3919.6	3942.2	3924.1	3932.2	3887.0	3876.1	3839.9	3801.9	3746.7
45°	4451.6	4437.1	4443.4	4437.1	4389.1	4353.9	4316.8	4263.4	4210.0	4136.7	4058.0
47.5°	4953.7	4961.0	4913.9	4884.1	4806.3	4756.5	4688.6	4595.4	4530.3	4431.7	4327.6
50°	5441.4	5360.9	5294.8	5226.1	5157.3	5065.9	4963.7	4881.4	4786.4	4663.3	4535.7
52.5°	5837.7	5733.7	5654.0	5556.3	5463.1	5361.8	5255.0	5135.6	5010.7	4887.7	4730.3
55°	6539.8	6388.7	6286.5	6115.5	6009.6	5867.6	5784.3	5629.6	5455.9	5293.0	5125.6
57.5°	8046.3	7820.1	7703.4	7606.6	7441.9	7208.5	7060.1	6805.8	6557.9	6384.2	6105.5
60°	10315.5	10085.7	9892.1	9663.2	9410.7	9094.1	8952.9	8653.4	8298.8	8011.9	7643.7
62.5°	11729.7	11412.1	11098.2	10777.0	10523.6	10275.7	9983.5	9681.3	9330.2	8940.3	8537.6
65°	11786.7	11405.8	11030.3	10702.8	10406.0	10083.9	9809.8	9503.0	9133.9	8732.1	8314.1
67.5°	11195.0	10768.8	10366.2	10007.0	9667.7	9369.1	9082.3	8793.7	8398.3	8061.7	7633.7
70°	10016.0	9627.0	9262.4	8853.4	8593.7	8258.0	7978.5	7674.4	7391.2	7076.4	6675.6
72.5°	7356.9	7063.7	6647.5	6473.8	6334.4	5978.9	5770.8	5745.4	5564.5	5187.2	4887.7
75°	2736.1	2328.9	2205.9	2279.2	2157.0	2197.7	2182.4	2095.5	2099.1	2034.9	1958.9
77.5°	535.6	497.6	467.8	475.9	442.4	428.0	458.7	449.7	433.4	437.9	430.7
80°	364.6	308.5	279.6	268.7	255.2	248.8	247.0	244.3	238.9	236.2	228.0
82.5°	359.2	266.9	210.8	181.0	170.1	164.7	160.1	159.2	157.4	156.5	159.2
85°	143.0	115.8	105.9	96.8	94.1	91.4	91.4	90.5	89.6	91.4	95.0
87.5°	69.7	58.8	53.4	48.9	47.0	46.1	46.1	47.0	48.0	51.6	58.8
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):**

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5
2.5°	1449.5	1450.4	1448.6	1449.5	1448.6	1446.8	1445.9	1448.6	1447.7	1446.8	1446.8
5°	1486.6	1490.2	1488.4	1486.6	1486.6	1485.7	1485.7	1485.7	1484.8	1485.7	1483.0
7.5°	1550.8	1549.9	1549.9	1548.1	1546.3	1548.1	1547.2	1544.5	1545.4	1543.6	1540.9
10°	1633.1	1630.4	1635.0	1635.0	1631.3	1630.4	1628.6	1625.9	1625.9	1623.2	1623.2
12.5°	1730.9	1728.2	1734.5	1730.0	1724.5	1723.6	1718.2	1716.4	1719.1	1718.2	1716.4
15°	1830.4	1831.3	1834.0	1833.1	1826.8	1826.8	1819.5	1820.4	1815.0	1813.2	1808.7
17.5°	1927.2	1928.1	1925.4	1925.4	1920.9	1918.2	1910.0	1910.9	1907.3	1900.1	1894.6
20°	2014.1	2013.2	2006.8	2012.3	2003.2	2001.4	1994.2	1986.9	1988.7	1981.5	1970.6
22.5°	2099.1	2097.3	2095.5	2092.8	2088.3	2086.5	2078.3	2077.4	2068.4	2057.5	2048.4
25°	2197.7	2196.8	2194.1	2195.0	2186.0	2186.9	2172.4	2168.8	2163.4	2151.6	2144.4
27.5°	2325.3	2325.3	2318.1	2315.4	2312.6	2309.0	2296.4	2287.3	2273.7	2260.2	2245.7
30°	2481.8	2480.0	2478.2	2471.0	2461.0	2455.6	2433.0	2418.5	2400.4	2375.1	2353.4
32.5°	2705.3	2689.9	2677.3	2661.0	2644.7	2627.5	2592.2	2567.8	2538.8	2498.1	2463.7
35°	2954.1	2927.9	2914.3	2880.9	2850.1	2815.7	2773.2	2723.4	2683.6	2630.2	2574.1
37.5°	3159.5	3139.6	3103.4	3065.4	3022.0	2956.9	2908.9	2855.5	2785.9	2727.0	2659.2
40°	3412.9	3367.6	3316.1	3252.7	3193.0	3119.7	3053.7	2976.8	2891.7	2806.7	2718.0
42.5°	3678.9	3609.2	3524.2	3450.9	3360.4	3264.5	3178.5	3074.5	2965.9	2851.9	2733.4
45°	3950.3	3864.4	3751.3	3647.2	3521.5	3401.1	3278.1	3136.0	2987.6	2835.6	2686.3
47.5°	4199.1	4073.4	3944.9	3804.7	3659.9	3505.2	3330.5	3144.2	2948.7	2748.8	2562.4
50°	4394.6	4237.1	4075.2	3913.2	3735.9	3535.0	3315.2	3071.8	2831.1	2591.3	2376.9
52.5°	4567.4	4391.0	4191.9	3991.0	3772.1	3525.1	3250.0	2963.2	2670.0	2404.9	2164.3
55°	4902.2	4680.5	4418.1	4159.3	3882.5	3571.2	3228.3	2877.2	2539.8	2251.1	1995.1
57.5°	5811.5	5512.0	5105.7	4746.5	4395.5	3942.2	3459.0	3026.5	2596.8	2255.6	1970.6
60°	7243.8	6756.1	6291.0	5743.6	5175.4	4553.8	3906.0	3323.3	2799.4	2371.5	2028.5
62.5°	8074.4	7559.5	6961.5	6298.3	5561.8	4804.4	4060.7	3380.3	2805.8	2339.8	1959.8
65°	7850.0	7332.4	6674.7	5996.1	5212.5	4438.0	3699.7	3046.4	2489.1	2058.4	1694.7
67.5°	7184.0	6643.0	6025.0	5272.2	4523.1	3805.6	3132.4	2517.1	2024.0	1622.3	1301.1
70°	6215.0	5733.7	5138.3	4444.3	3717.8	3072.7	2505.4	1950.7	1533.6	1165.4	912.0
72.5°	4612.6	4186.5	3814.6	3234.6	2702.6	2196.8	1734.5	1357.2	998.0	754.6	580.9
75°	1936.3	1792.4	1731.8	1519.1	1321.0	1083.0	815.2	649.6	526.6	447.9	355.6
77.5°	469.6	469.6	441.5	413.5	380.0	343.8	304.0	271.4	255.2	240.7	228.9
80°	228.0	226.2	219.0	218.1	211.7	203.6	199.1	192.7	190.0	186.4	184.6
82.5°	160.1	159.2	156.5	160.1	159.2	162.9	164.7	165.6	165.6	166.5	167.4
85°	101.3	105.0	112.2	121.2	129.4	139.3	148.4	155.6	161.1	165.6	169.2
87.5°	64.2	73.3	78.7	92.3	105.9	121.2	138.4	145.7	152.0	152.9	147.5
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°	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5
2.5°	1446.8	1445.9	1447.7	1445.9	1445.9	1445.0	1442.2	1439.5	1436.8	1435.9	1433.2
5°	1482.0	1482.0	1483.9	1480.2	1481.1	1477.5	1469.4	1460.3	1452.2	1445.0	1436.8
7.5°	1541.8	1539.1	1540.0	1539.1	1537.2	1530.0	1511.9	1489.3	1467.6	1445.0	1426.9
10°	1621.4	1616.0	1616.0	1614.1	1611.4	1601.5	1563.5	1518.2	1473.0	1432.3	1402.4
12.5°	1710.1	1711.0	1703.7	1699.2	1694.7	1673.9	1616.9	1544.5	1473.0	1407.9	1359.9
15°	1802.3	1801.4	1793.3	1790.6	1780.6	1749.9	1663.9	1558.1	1455.8	1359.9	1288.4
17.5°	1885.6	1882.0	1873.8	1868.4	1857.5	1816.8	1695.6	1551.7	1410.6	1284.8	1195.2
20°	1961.6	1957.1	1949.8	1939.9	1929.0	1870.2	1707.3	1519.1	1339.1	1195.2	1104.8
22.5°	2040.3	2030.4	2022.2	2008.6	1996.9	1918.2	1699.2	1461.2	1257.7	1095.7	998.9
25°	2128.1	2116.3	2099.1	2082.8	2064.7	1957.1	1676.6	1388.9	1159.9	988.0	890.3
27.5°	2223.1	2205.9	2183.3	2162.5	2133.5	1986.0	1637.7	1308.3	1053.2	881.3	779.9
30°	2323.5	2291.8	2263.8	2232.1	2195.0	1999.6	1581.6	1208.8	935.6	772.7	671.4
32.5°	2421.2	2378.7	2337.1	2290.9	2240.3	1994.2	1502.0	1091.2	817.9	671.4	586.3
35°	2520.8	2459.2	2401.3	2338.9	2277.4	1967.0	1392.5	960.9	706.6	587.2	525.7
37.5°	2588.6	2511.7	2434.8	2359.7	2285.5	1908.2	1246.8	815.2	606.2	526.6	482.3
40°	2623.0	2528.9	2434.8	2341.6	2250.2	1810.5	1076.7	682.2	534.7	481.3	449.7
42.5°	2613.0	2496.3	2379.6	2269.2	2157.0	1654.9	892.1	572.7	485.0	446.1	418.0
45°	2530.7	2391.4	2258.4	2141.6	2001.4	1454.9	732.9	504.9	447.0	417.1	390.9
47.5°	2376.0	2220.4	2057.5	1925.4	1794.2	1223.3	609.8	462.3	413.5	389.1	362.8
50°	2178.7	1998.7	1835.8	1692.9	1564.4	1007.0	525.7	426.2	386.3	365.5	337.5
52.5°	1961.6	1768.0	1619.6	1469.4	1343.6	840.6	466.9	386.3	360.1	338.4	315.8
55°	1781.5	1602.4	1451.3	1300.2	1173.5	735.6	418.0	355.6	335.7	313.1	295.0
57.5°	1733.6	1529.1	1364.4	1221.5	1091.2	671.4	382.7	327.5	314.0	296.8	276.9
60°	1753.5	1528.2	1343.6	1187.1	1050.5	619.8	356.5	308.5	297.7	282.3	261.5
62.5°	1682.0	1444.0	1257.7	1091.2	961.8	554.6	337.5	299.5	292.2	271.4	247.9
65°	1433.2	1215.1	1036.0	892.1	780.8	466.9	322.1	307.6	300.4	264.2	238.9
67.5°	1091.2	909.3	765.5	657.8	577.3	386.3	318.5	334.8	320.3	267.8	236.2
70°	754.6	617.1	524.8	459.6	409.0	325.7	330.2	364.6	343.8	279.6	251.5
72.5°	478.6	399.9	354.7	330.2	305.8	275.1	327.5	361.0	333.0	281.4	251.5
75°	306.7	274.2	258.8	249.7	242.5	239.8	288.6	296.8	267.8	244.3	234.3
77.5°	217.2	211.7	209.0	208.1	209.0	215.3	238.9	223.5	194.5	195.4	200.9
80°	183.7	183.7	181.9	182.8	184.6	187.3	190.9	164.7	149.3	161.1	179.1
82.5°	168.3	171.0	172.8	174.6	177.3	173.7	162.0	124.9	120.3	156.5	175.5
85°	171.0	171.0	171.9	173.7	174.6	156.5	134.8	94.1	92.3	175.5	165.6
87.5°	146.6	144.8	138.4	133.9	127.6	107.7	89.6	52.5	54.3	108.6	115.8
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):**

	175°	180°
0°	1439.5	1439.5
2.5°	1432.3	1432.3
5°	1432.3	1432.3
7.5°	1420.5	1416.9
10°	1386.1	1381.6
12.5°	1333.7	1329.1
15°	1253.1	1247.7
17.5°	1152.7	1143.7
20°	1047.7	1035.1
22.5°	942.8	932.8
25°	835.1	826.1
27.5°	729.3	720.2
30°	631.5	627.9
32.5°	559.2	555.5
35°	505.8	504.0
37.5°	469.6	467.8
40°	437.9	436.1
42.5°	409.0	406.3
45°	380.0	380.9
47.5°	351.1	350.2
50°	325.7	325.7
52.5°	304.9	304.0
55°	285.9	285.0
57.5°	266.9	266.0
60°	250.6	247.9
62.5°	235.2	233.4
65°	225.3	224.4
67.5°	218.1	215.3
70°	216.2	209.0
72.5°	210.8	201.8
75°	198.1	193.6
77.5°	174.6	169.2
80°	134.8	124.9
82.5°	113.1	97.7
85°	83.2	76.9
87.5°	60.6	48.0
90°	0.0	0.0

(END OF REPORT)