

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: P144859

Luminaire Tested: **LDRL-SL2-E05-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144859
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-E05-E-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13371.4 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

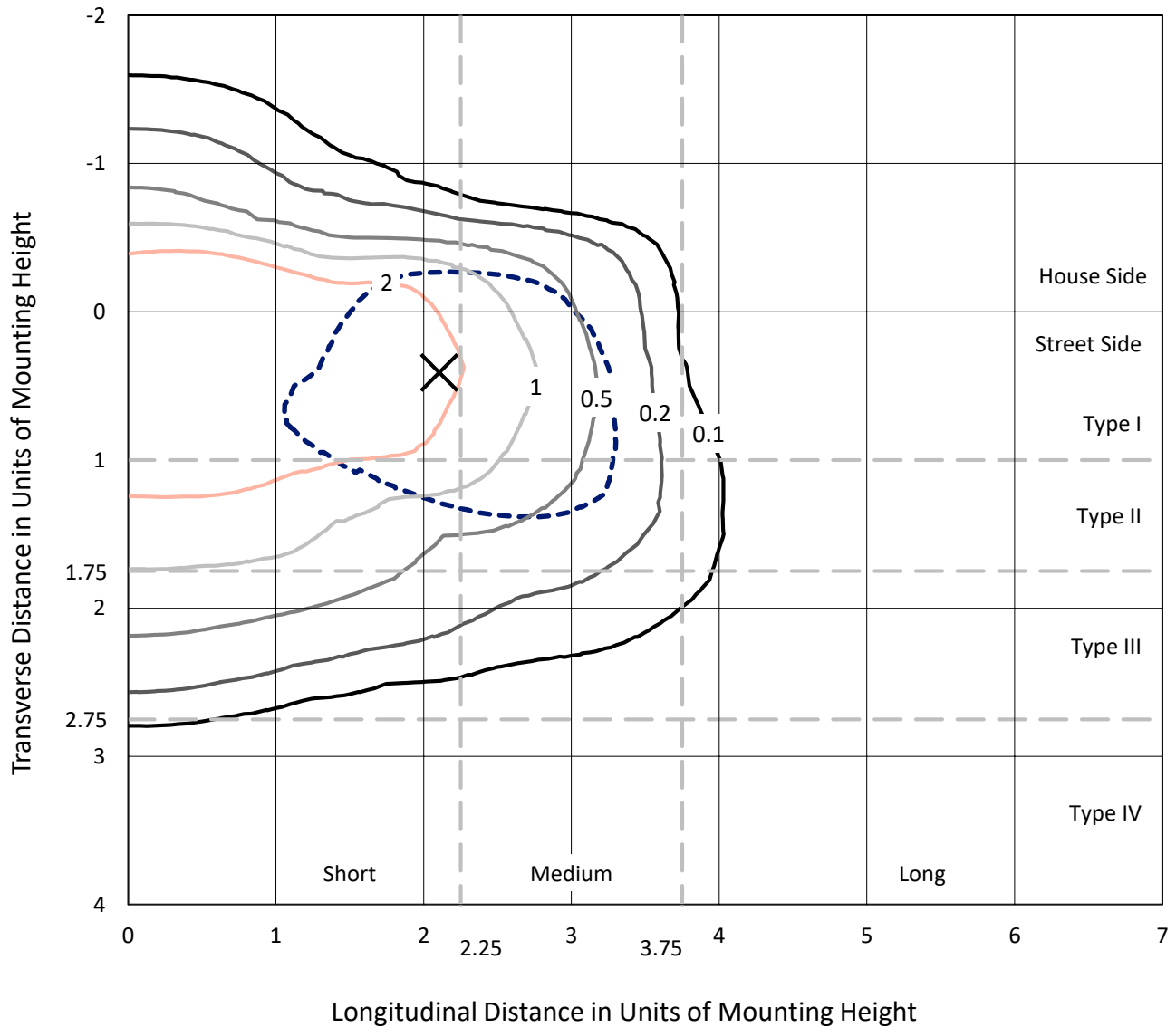
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

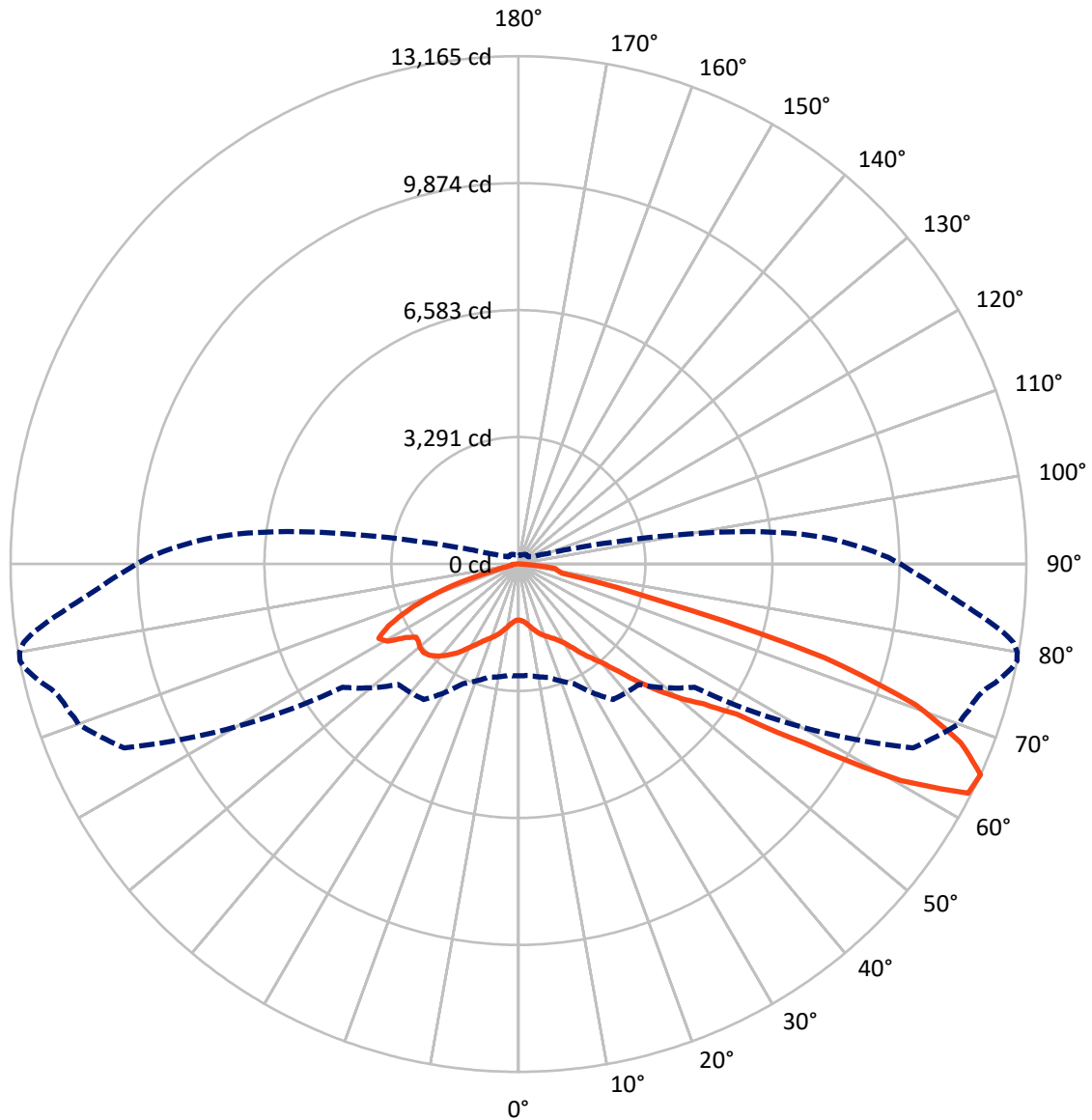
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - Non-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
House Side	Lumens	3035.1	0.0	3035.1
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	10336.2	0.0	10336.2
	% Fixture	77.3	0.0	77.3
Total	Lumens	13371.4	0.0	13371.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.3	1.1
10°-20°	469.5	3.5
20°-30°	809.5	6.1
30°-40°	1320.0	9.9
40°-50°	2203.7	16.5
50°-60°	2979.8	22.3
60°-70°	3701.8	27.7
70°-80°	1482.3	11.1
80°-90°	260.5	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°	13371.4	100.0
0°-180°	13371.4	100.0



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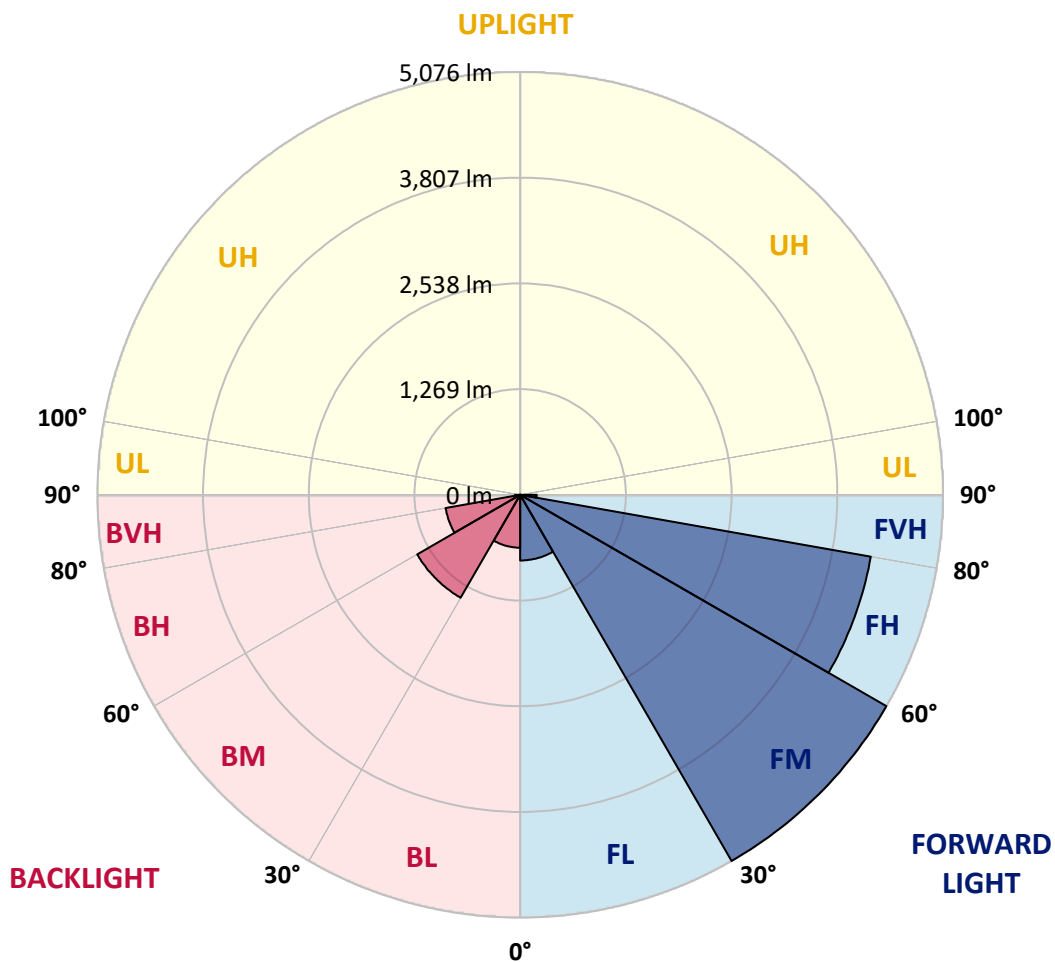
CATALOG NUMBER: LDRL-SL2-E05-E-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	788.5	5.9			
FM	(30°-60°)	5076.0	38.0			
FH	(60°-80°)	4274.2	32.0			G2/5000
FVH	(80°-90°)	197.6	1.5			G2/225
BL	(0°-30°)	634.8	4.7	B2/1000		
BM	(30°-60°)	1427.5	10.7	B2/2500		
BH	(60°-80°)	909.9	6.8	B2/1000		G2/1000
BVH	(80°-90°)	62.9	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°	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1
2.5°	1464.1	1463.2	1467.8	1471.4	1471.4	1473.2	1472.3	1466.8	1467.8	1469.6	1467.8
5°	1480.5	1476.9	1481.5	1486.9	1490.6	1495.2	1499.7	1500.6	1504.3	1504.3	1503.4
7.5°	1516.2	1513.4	1519.8	1521.6	1529.9	1537.2	1546.3	1552.7	1556.3	1558.2	1560.9
10°	1577.4	1575.5	1577.4	1581.0	1584.7	1592.9	1608.4	1622.1	1630.3	1630.3	1634.0
12.5°	1651.3	1644.0	1645.9	1638.6	1640.4	1657.7	1676.0	1698.8	1712.5	1714.4	1716.2
15°	1708.9	1705.2	1702.5	1692.4	1699.7	1722.6	1750.9	1783.8	1795.6	1805.7	1804.8
17.5°	1762.8	1758.2	1751.8	1738.1	1745.4	1781.9	1824.9	1861.4	1881.5	1883.3	1885.2
20°	1826.7	1821.2	1809.3	1781.0	1779.2	1830.4	1887.9	1927.2	1945.4	1953.7	1956.4
22.5°	1908.0	1900.7	1878.8	1824.0	1809.3	1869.6	1938.1	1986.5	2005.7	2013.9	2018.5
25°	2012.1	1997.5	1962.8	1876.9	1846.8	1909.8	1992.0	2050.5	2077.0	2085.2	2090.7
27.5°	2106.2	2095.2	2053.2	1951.8	1899.8	1963.7	2057.8	2132.7	2169.2	2179.3	2187.5
30°	2215.8	2200.3	2166.5	2058.7	1989.3	2045.9	2165.6	2260.5	2305.3	2306.2	2324.5
32.5°	2473.4	2463.3	2432.3	2313.5	2196.6	2200.3	2311.7	2442.3	2487.1	2494.4	2510.8
35°	2855.1	2851.5	2850.6	2784.8	2698.0	2608.5	2616.7	2716.3	2746.4	2758.3	2763.8
37.5°	3106.3	3138.3	3215.9	3263.4	3241.5	3260.7	3160.2	3038.7	3021.4	3008.6	3014.1
40°	3322.8	3351.1	3508.2	3727.4	3860.7	3954.8	3866.2	3493.6	3354.7	3314.5	3299.0
42.5°	3450.6	3482.6	3707.3	4058.0	4397.8	4620.6	4644.4	4126.5	3774.0	3769.4	3710.9
45°	3520.1	3552.0	3820.5	4292.7	4773.2	5175.0	5383.3	4905.6	4387.7	4349.4	4268.1
47.5°	3506.4	3536.5	3816.0	4379.5	4995.1	5543.1	5959.6	5692.9	5095.6	5003.3	4891.0
50°	3339.2	3361.1	3654.3	4237.9	4935.7	5696.6	6354.2	6415.4	5896.6	5771.5	5603.4
52.5°	3166.6	3205.9	3448.8	3986.8	4666.3	5601.6	6589.8	7073.0	6644.6	6558.8	6343.2
55°	3073.4	3104.5	3302.7	3762.1	4382.3	5277.3	6687.6	7693.1	7553.4	7518.7	7366.2
57.5°	3069.8	3099.9	3257.9	3626.0	4151.2	4939.4	6715.9	8651.3	9061.3	9070.5	9026.6
60°	3219.6	3250.6	3383.0	3691.8	4079.9	4649.9	6614.5	10010.3	10916.4	10996.7	11131.0
62.5°	3240.6	3255.2	3415.0	3831.5	4339.3	4433.4	6197.1	11142.0	12191.4	12265.4	12339.4
65°	2899.0	2898.1	3039.6	3423.2	4285.4	4411.5	5569.6	11280.8	12140.3	12185.0	12277.3
67.5°	2161.9	2143.6	2224.0	2574.7	3400.4	4417.0	4826.1	10233.2	11194.0	11279.0	11310.0
70°	1114.3	1142.6	1197.4	1412.0	2159.2	3555.7	4145.7	8633.9	9826.7	9858.7	9969.2
72.5°	457.6	445.7	483.2	593.7	1080.5	2350.1	3429.6	6813.6	8116.0	8094.1	8114.2
75°	254.8	258.5	269.4	309.6	525.2	1180.0	2946.5	4823.4	5519.4	5141.2	5027.1
77.5°	204.6	206.4	207.3	214.6	286.8	629.3	2261.5	3176.6	2775.7	2577.5	2501.7
80°	149.8	159.8	170.8	172.6	197.3	357.1	1240.3	2674.3	2342.7	2178.3	2043.2
82.5°	120.6	125.1	148.9	152.5	157.1	212.8	561.7	2511.7	2333.6	2165.6	1979.2
85°	72.2	80.4	121.5	122.4	124.2	129.7	310.5	1023.0	1272.3	1124.3	1029.3
87.5°	25.6	32.9	60.3	50.2	63.9	53.0	136.1	342.5	422.0	401.0	355.3
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°	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1
2.5°	1466.8	1466.8	1468.7	1467.8	1467.8	1467.8	1467.8	1465.9	1465.9	1463.2	1465.0
5°	1503.4	1502.5	1503.4	1504.3	1503.4	1505.2	1504.3	1503.4	1504.3	1503.4	1504.3
7.5°	1561.8	1557.3	1563.7	1560.0	1559.1	1564.6	1561.8	1564.6	1565.5	1564.6	1563.7
10°	1635.8	1638.6	1638.6	1638.6	1636.7	1642.2	1643.1	1644.9	1645.9	1649.5	1649.5
12.5°	1720.8	1721.7	1725.3	1724.4	1726.2	1732.6	1737.2	1738.1	1739.0	1741.8	1738.1
15°	1812.1	1813.9	1813.9	1822.1	1819.4	1828.5	1831.3	1831.3	1832.2	1843.1	1844.1
17.5°	1893.4	1893.4	1900.7	1900.7	1908.0	1909.8	1918.0	1918.9	1922.6	1932.6	1933.6
20°	1961.9	1965.5	1970.1	1975.6	1978.3	1983.8	1989.3	1994.8	1999.3	2007.5	2008.5
22.5°	2026.7	2030.4	2037.7	2041.3	2047.7	2051.4	2056.0	2062.3	2069.7	2080.6	2083.4
25°	2101.6	2105.3	2113.5	2119.0	2126.3	2131.8	2140.0	2148.2	2152.8	2163.7	2171.9
27.5°	2196.6	2207.6	2218.5	2221.3	2226.7	2239.5	2250.5	2261.5	2271.5	2277.0	2287.0
30°	2335.4	2335.4	2358.3	2358.3	2368.3	2380.2	2387.5	2399.4	2417.6	2423.1	2435.9
32.5°	2521.8	2526.3	2534.5	2559.2	2577.5	2583.0	2588.4	2605.8	2616.7	2630.4	2646.0
35°	2787.5	2792.1	2796.7	2820.4	2841.4	2846.9	2852.4	2863.4	2881.6	2905.4	2898.1
37.5°	3025.9	3028.7	3043.3	3069.8	3081.6	3096.3	3100.8	3120.9	3131.0	3152.9	3153.8
40°	3312.7	3306.3	3314.5	3344.7	3363.0	3362.0	3376.7	3413.2	3420.5	3430.5	3456.1
42.5°	3712.8	3689.0	3714.6	3724.6	3752.0	3769.4	3798.6	3823.3	3840.6	3879.0	3897.3
45°	4229.7	4205.1	4226.1	4230.6	4287.3	4304.6	4348.5	4381.3	4418.8	4462.6	4475.4
47.5°	4818.8	4773.2	4747.6	4775.9	4843.5	4871.8	4914.7	4945.8	4985.1	5007.9	5000.6
50°	5501.1	5391.5	5340.4	5325.7	5374.2	5414.3	5481.0	5495.6	5513.9	5513.0	5513.9
52.5°	6261.9	6147.8	6040.9	5966.9	5959.6	6013.5	6029.9	6033.6	6028.1	5987.0	5961.4
55°	7255.7	7247.4	7135.1	6981.6	6971.6	6965.2	6869.3	6857.4	6835.5	6772.5	6685.7
57.5°	9058.6	9149.9	9076.0	9072.3	8991.9	8939.0	8762.7	8675.0	8582.8	8412.0	8275.9
60°	11142.9	11275.3	11348.4	11380.3	11537.4	11537.4	11393.1	11268.9	11119.1	10858.8	10604.9
62.5°	12397.8	12513.8	12621.6	12790.6	12990.6	13079.2	13086.5	12976.0	12786.9	12490.1	12131.1
65°	12318.4	12404.2	12534.8	12733.9	12899.2	13058.2	13165.0	13131.2	12986.9	12690.1	12299.2
67.5°	11418.7	11543.8	11712.8	11896.4	12049.8	12199.6	12372.2	12385.0	12346.7	12064.4	11711.0
70°	10030.4	10191.2	10298.0	10529.1	10598.5	10750.1	10923.7	11006.8	10944.7	10727.3	10520.0
72.5°	8148.9	8275.9	8294.1	8193.7	8228.4	8265.8	8307.8	8113.3	8038.4	7748.0	7614.6
75°	4941.2	4774.1	4633.4	4493.7	4076.3	3928.3	3700.9	3252.4	3201.3	2893.5	2679.8
77.5°	2350.1	2279.7	2152.8	1940.0	1656.8	1385.6	1149.9	934.4	854.0	703.3	599.2
80°	1967.4	1883.3	1769.2	1611.2	1413.0	1215.7	1029.3	869.5	708.8	577.2	461.2
82.5°	1804.8	1658.6	1497.9	1361.8	1222.1	1087.8	962.7	818.4	733.4	591.9	483.2
85°	912.4	799.2	647.6	545.3	460.3	374.5	324.2	276.7	246.6	196.4	170.8
87.5°	306.0	250.3	186.3	158.0	142.5	122.4	112.3	106.9	104.1	92.2	82.2
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°	91°	92°	93°	94°
0°	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1
2.5°	1465.0	1465.0	1465.0	1465.0	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1465.0
5°	1502.5	1502.5	1503.4	1506.1	1500.6	1502.5	1504.3	1501.5	1504.3	1501.5	1505.2
7.5°	1562.7	1565.5	1563.7	1567.3	1565.5	1571.0	1567.3	1564.6	1566.4	1566.4	1567.3
10°	1647.7	1651.3	1648.6	1650.4	1650.4	1654.1	1649.5	1650.4	1651.3	1649.5	1650.4
12.5°	1741.8	1743.6	1742.7	1748.2	1745.4	1748.2	1745.4	1749.1	1750.9	1752.7	1752.7
15°	1844.1	1845.9	1851.4	1850.4	1855.9	1854.1	1855.0	1850.4	1859.6	1854.1	1855.9
17.5°	1938.1	1937.2	1944.5	1947.3	1948.2	1949.1	1951.8	1948.2	1949.1	1951.8	1950.0
20°	2011.2	2017.6	2019.4	2026.7	2032.2	2034.0	2033.1	2035.9	2039.5	2035.9	2035.9
22.5°	2088.8	2098.0	2100.7	2105.3	2110.8	2111.7	2117.1	2119.9	2121.7	2120.8	2121.7
25°	2182.0	2188.4	2194.8	2203.9	2210.3	2211.2	2215.8	2219.4	2220.4	2219.4	2224.9
27.5°	2296.2	2304.4	2312.6	2323.6	2330.9	2332.7	2342.7	2342.7	2348.2	2351.0	2352.8
30°	2443.2	2446.0	2467.0	2477.9	2475.2	2488.0	2501.7	2500.8	2507.1	2509.0	2513.5
32.5°	2656.9	2656.9	2675.2	2688.9	2703.5	2699.0	2720.0	2716.3	2726.4	2731.8	2729.1
35°	2916.3	2925.5	2939.2	2947.4	2962.9	2971.1	2985.7	2994.0	2998.5	2997.6	2987.6
37.5°	3183.9	3198.6	3204.0	3224.1	3239.7	3253.4	3255.2	3246.0	3249.7	3231.4	3226.0
40°	3489.9	3510.9	3523.7	3553.8	3552.0	3569.4	3571.2	3544.7	3540.1	3516.4	3491.7
42.5°	3917.4	3946.6	3956.6	3979.5	3961.2	3969.4	3923.8	3912.8	3876.3	3837.9	3782.2
45°	4493.7	4479.1	4485.5	4479.1	4430.7	4395.0	4357.6	4303.7	4249.8	4175.8	4096.4
47.5°	5000.6	5007.9	4960.4	4930.3	4851.7	4801.5	4733.0	4638.9	4573.1	4473.6	4368.6
50°	5492.9	5411.6	5344.9	5275.5	5206.1	5113.8	5010.6	4927.5	4831.6	4707.4	4578.6
52.5°	5892.9	5787.9	5707.5	5608.9	5514.8	5412.5	5304.7	5184.2	5058.1	4933.9	4775.0
55°	6601.7	6449.2	6346.0	6173.3	6066.5	5923.1	5839.0	5682.9	5507.5	5343.1	5174.1
57.5°	8122.4	7894.1	7776.3	7678.5	7512.3	7276.7	7126.9	6870.2	6620.0	6444.6	6163.3
60°	10413.1	10181.1	9985.7	9754.6	9499.8	9180.1	9037.6	8735.3	8377.2	8087.7	7716.0
62.5°	11840.7	11520.1	11203.2	10878.9	10623.2	10372.9	10077.9	9772.8	9418.5	9024.8	8618.4
65°	11898.2	11513.7	11134.7	10804.0	10504.4	10179.3	9902.5	9592.9	9220.3	8814.7	8392.8
67.5°	11300.9	10870.7	10464.3	10101.7	9759.1	9457.7	9168.2	8876.9	8477.7	8138.0	7705.9
70°	10110.8	9718.0	9350.0	8937.1	8675.0	8336.1	8053.9	7747.0	7461.2	7143.3	6738.7
72.5°	7426.5	7130.5	6710.4	6535.0	6394.4	6035.4	5825.3	5799.8	5617.1	5236.2	4933.9
75°	2762.0	2351.0	2226.7	2300.7	2177.4	2218.5	2203.0	2115.3	2119.0	2054.1	1977.4
77.5°	540.7	502.3	472.2	480.4	446.6	432.0	463.1	453.9	437.5	442.1	434.8
80°	368.1	311.5	282.2	271.3	257.6	251.2	249.3	246.6	241.1	238.4	230.2
82.5°	362.6	269.4	212.8	182.7	171.7	166.2	161.7	160.7	158.9	158.0	160.7
85°	144.3	116.9	106.9	97.7	95.0	92.2	92.2	91.3	90.4	92.2	95.9
87.5°	70.3	59.4	53.9	49.3	47.5	46.6	46.6	47.5	48.4	52.1	59.4
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):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1
2.5°	1463.2	1464.1	1462.3	1463.2	1462.3	1460.4	1459.5	1462.3	1461.4	1460.4	1460.4
5°	1500.6	1504.3	1502.5	1500.6	1500.6	1499.7	1499.7	1499.7	1498.8	1499.7	1497.0
7.5°	1565.5	1564.6	1564.6	1562.7	1560.9	1562.7	1561.8	1559.1	1560.0	1558.2	1555.4
10°	1648.6	1645.9	1650.4	1650.4	1646.8	1645.9	1644.0	1641.3	1641.3	1638.6	1638.6
12.5°	1747.2	1744.5	1750.9	1746.3	1740.8	1739.9	1734.5	1732.6	1735.4	1734.5	1732.6
15°	1847.7	1848.6	1851.4	1850.4	1844.1	1844.1	1836.7	1837.7	1832.2	1830.4	1825.8
17.5°	1945.4	1946.3	1943.6	1943.6	1939.0	1936.3	1928.1	1929.0	1925.3	1918.0	1912.6
20°	2033.1	2032.2	2025.8	2031.3	2022.2	2020.3	2013.0	2005.7	2007.5	2000.2	1989.3
22.5°	2119.0	2117.1	2115.3	2112.6	2108.0	2106.2	2098.0	2097.1	2087.9	2077.0	2067.8
25°	2218.5	2217.6	2214.9	2215.8	2206.7	2207.6	2193.0	2189.3	2183.8	2171.9	2164.6
27.5°	2347.3	2347.3	2340.0	2337.3	2334.5	2330.9	2318.1	2308.9	2295.2	2281.5	2266.9
30°	2505.3	2503.5	2501.7	2494.4	2484.3	2478.8	2456.0	2441.4	2423.1	2397.5	2375.6
32.5°	2730.9	2715.4	2702.6	2686.2	2669.7	2652.4	2616.7	2592.1	2562.9	2521.8	2487.1
35°	2982.1	2955.6	2941.9	2908.1	2877.1	2842.3	2799.4	2749.2	2709.0	2655.1	2598.5
37.5°	3189.4	3169.3	3132.8	3094.4	3050.6	2984.8	2936.4	2882.5	2812.2	2752.8	2684.3
40°	3445.2	3399.5	3347.4	3283.5	3223.2	3149.2	3082.6	3004.9	2919.1	2833.2	2743.7
42.5°	3713.7	3643.4	3557.5	3483.5	3392.2	3295.4	3208.6	3103.6	2994.0	2878.9	2759.2
45°	3987.7	3900.9	3786.8	3681.7	3554.8	3433.3	3309.1	3165.7	3015.9	2862.4	2711.7
47.5°	4238.9	4111.9	3982.2	3840.6	3694.5	3538.3	3362.0	3173.9	2976.6	2774.8	2586.6
50°	4436.1	4277.2	4113.7	3950.2	3771.2	3568.5	3346.5	3100.8	2857.9	2615.8	2399.4
52.5°	4610.6	4432.5	4231.6	4028.8	3807.8	3558.4	3280.8	2991.2	2695.3	2427.7	2184.7
55°	4948.5	4724.8	4459.9	4198.7	3919.2	3605.0	3258.8	2904.5	2563.8	2272.4	2013.9
57.5°	5866.4	5564.1	5154.0	4791.4	4437.1	3979.5	3491.7	3055.2	2621.3	2277.0	1989.3
60°	7312.3	6820.0	6350.5	5797.9	5224.4	4596.9	3942.9	3354.7	2825.9	2393.9	2047.7
62.5°	8150.7	7631.0	7027.3	6357.8	5614.4	4849.9	4099.1	3412.3	2832.3	2361.9	1978.3
65°	7924.2	7401.8	6737.8	6052.8	5261.8	4480.0	3734.7	3075.3	2512.6	2077.9	1710.7
67.5°	7252.0	6705.8	6082.0	5322.1	4565.8	3841.6	3162.0	2540.9	2043.2	1637.6	1313.4
70°	6273.8	5787.9	5186.9	4486.4	3753.0	3101.7	2529.1	1969.2	1548.1	1176.4	920.7
72.5°	4656.3	4226.1	3850.7	3265.2	2728.2	2217.6	1750.9	1370.0	1007.4	761.7	586.4
75°	1954.6	1809.3	1748.2	1533.5	1333.5	1093.3	822.9	655.8	531.6	452.1	358.9
77.5°	474.0	474.0	445.7	417.4	383.6	347.1	306.9	274.0	257.6	243.0	231.1
80°	230.2	228.3	221.0	220.1	213.7	205.5	200.9	194.5	191.8	188.2	186.3
82.5°	161.7	160.7	158.0	161.7	160.7	164.4	166.2	167.1	167.1	168.1	169.0
85°	102.3	105.9	113.3	122.4	130.6	140.7	149.8	157.1	162.6	167.1	170.8
87.5°	64.8	74.0	79.5	93.2	106.9	122.4	139.7	147.0	153.4	154.4	148.9
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):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1	1453.1
2.5°	1460.4	1459.5	1461.4	1459.5	1459.5	1458.6	1455.9	1453.1	1450.4	1449.5	1446.7
5°	1496.1	1496.1	1497.9	1494.2	1495.2	1491.5	1483.3	1474.1	1465.9	1458.6	1450.4
7.5°	1556.3	1553.6	1554.5	1553.6	1551.8	1544.5	1526.2	1503.4	1481.5	1458.6	1440.4
10°	1636.7	1631.2	1631.2	1629.4	1626.7	1616.6	1578.3	1532.6	1486.9	1445.8	1415.7
12.5°	1726.2	1727.1	1719.8	1715.3	1710.7	1689.7	1632.2	1559.1	1486.9	1421.2	1372.8
15°	1819.4	1818.5	1810.3	1807.5	1797.5	1766.4	1679.7	1572.8	1469.6	1372.8	1300.6
17.5°	1903.4	1899.8	1891.5	1886.1	1875.1	1834.0	1711.6	1566.4	1423.9	1297.0	1206.5
20°	1980.1	1975.6	1968.3	1958.2	1947.3	1887.9	1723.5	1533.5	1351.8	1206.5	1115.2
22.5°	2059.6	2049.6	2041.3	2027.6	2015.8	1936.3	1715.3	1475.1	1269.6	1106.1	1008.3
25°	2148.2	2136.3	2119.0	2102.5	2084.3	1975.6	1692.4	1402.0	1170.9	997.4	898.7
27.5°	2244.1	2226.7	2203.9	2182.9	2153.7	2004.8	1653.2	1320.7	1063.1	889.6	787.3
30°	2345.5	2313.5	2285.2	2253.2	2215.8	2018.5	1596.5	1220.2	944.4	780.0	677.7
32.5°	2444.1	2401.2	2359.2	2312.6	2261.5	2013.0	1516.2	1101.5	825.7	677.7	591.9
35°	2544.6	2482.5	2424.0	2361.0	2298.9	1985.6	1405.6	970.0	713.3	592.8	530.7
37.5°	2613.1	2535.5	2457.8	2382.0	2307.1	1926.3	1258.6	822.9	611.9	531.6	486.8
40°	2647.8	2552.8	2457.8	2363.8	2271.5	1827.6	1086.9	688.7	539.8	485.9	453.9
42.5°	2637.8	2519.9	2402.1	2290.7	2177.4	1670.5	900.6	578.2	489.6	450.3	422.0
45°	2554.6	2414.0	2279.7	2161.9	2020.3	1468.7	739.8	509.6	451.2	421.1	394.6
47.5°	2398.5	2241.4	2077.0	1943.6	1811.2	1234.8	615.6	466.7	417.4	392.7	366.3
50°	2199.3	2017.6	1853.2	1708.9	1579.2	1016.6	530.7	430.2	390.0	369.0	340.7
52.5°	1980.1	1784.7	1634.9	1483.3	1356.3	848.5	471.3	390.0	363.5	341.6	318.8
55°	1798.4	1617.5	1465.0	1312.5	1184.6	742.6	422.0	358.9	338.9	316.0	297.8
57.5°	1750.0	1543.6	1377.3	1233.0	1101.5	677.7	386.3	330.6	316.9	299.6	279.5
60°	1770.1	1542.6	1356.3	1198.3	1060.4	625.6	359.9	311.5	300.5	285.0	264.0
62.5°	1697.9	1457.7	1269.6	1101.5	970.9	559.9	340.7	302.3	295.0	274.0	250.3
65°	1446.7	1226.6	1045.8	900.6	788.2	471.3	325.2	310.5	303.2	266.7	241.1
67.5°	1101.5	917.9	772.7	664.0	582.7	390.0	321.5	337.9	323.3	270.4	238.4
70°	761.7	622.9	529.7	464.0	412.8	328.8	333.4	368.1	347.1	282.2	253.9
72.5°	483.2	403.7	358.0	333.4	308.7	277.7	330.6	364.4	336.1	284.1	253.9
75°	309.6	276.7	261.2	252.1	244.8	242.0	291.4	299.6	270.4	246.6	236.6
77.5°	219.2	213.7	211.0	210.1	211.0	217.4	241.1	225.6	196.4	197.3	202.8
80°	185.4	185.4	183.6	184.5	186.3	189.1	192.7	166.2	150.7	162.6	180.8
82.5°	169.9	172.6	174.4	176.3	179.0	175.4	163.5	126.0	121.5	158.0	177.2
85°	172.6	172.6	173.5	175.4	176.3	158.0	136.1	95.0	93.2	177.2	167.1
87.5°	148.0	146.1	139.7	135.2	128.8	108.7	90.4	53.0	54.8	109.6	116.9
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):

	175°	180°
0°	1453.1	1453.1
2.5°	1445.8	1445.8
5°	1445.8	1445.8
7.5°	1434.0	1430.3
10°	1399.3	1394.7
12.5°	1346.3	1341.7
15°	1265.0	1259.5
17.5°	1163.6	1154.5
20°	1057.7	1044.9
22.5°	951.7	941.7
25°	843.0	833.9
27.5°	736.2	727.0
30°	637.5	633.9
32.5°	564.5	560.8
35°	510.6	508.7
37.5°	474.0	472.2
40°	442.1	440.2
42.5°	412.8	410.1
45°	383.6	384.5
47.5°	354.4	353.5
50°	328.8	328.8
52.5°	307.8	306.9
55°	288.6	287.7
57.5°	269.4	268.5
60°	253.0	250.3
62.5°	237.5	235.6
65°	227.4	226.5
67.5°	220.1	217.4
70°	218.3	211.0
72.5°	212.8	203.7
75°	200.0	195.5
77.5°	176.3	170.8
80°	136.1	126.0
82.5°	114.2	98.6
85°	84.0	77.6
87.5°	61.2	48.4
90°	0.0	0.0

(END OF REPORT)