

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: P228503

Luminaire Tested: **ISS-AF-1000-LED-E1-SLL-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228503  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29764)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISS-AF-1000-LED-E1-SLL-7050  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (16) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

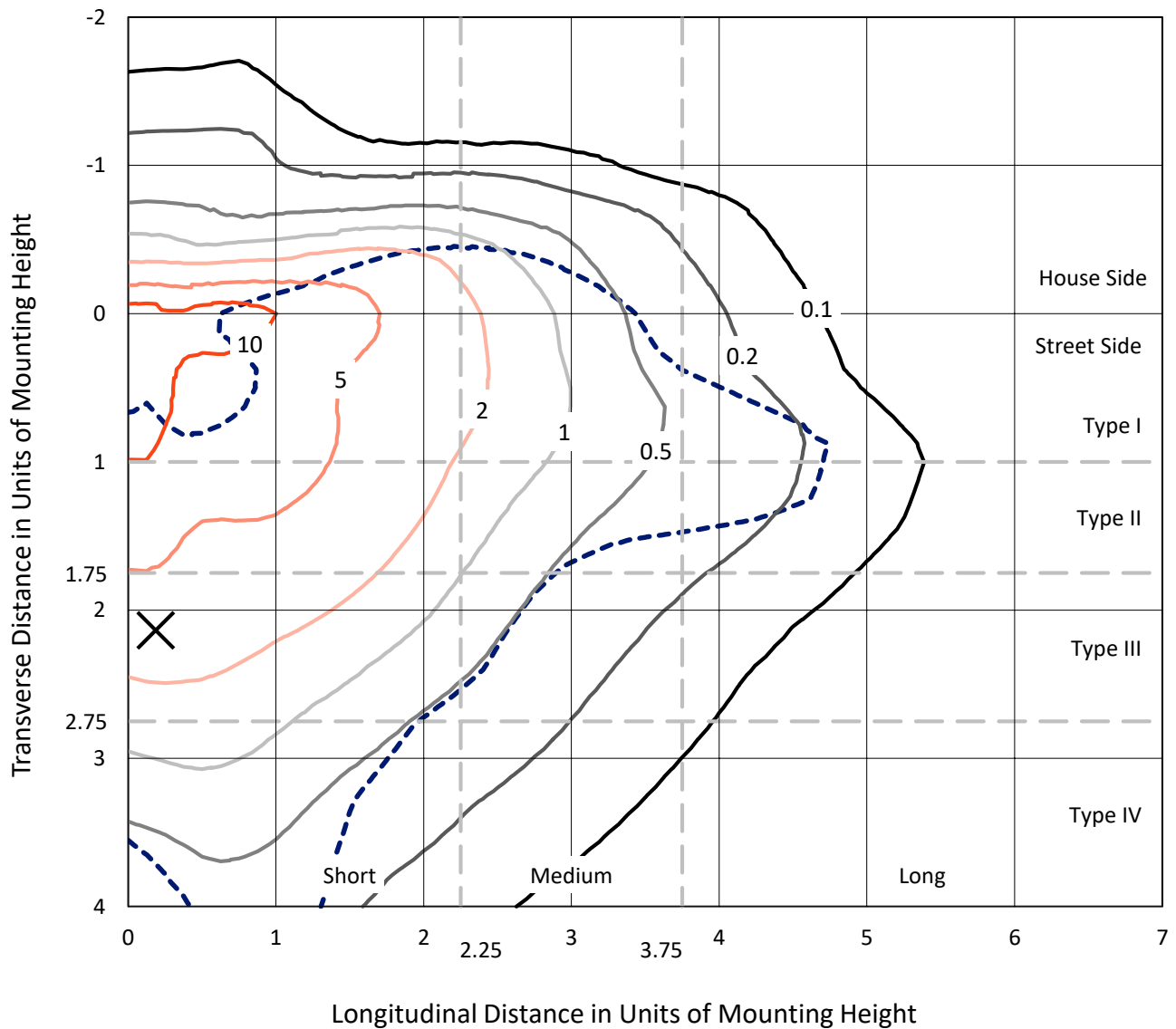
Lumens per Lamp: N/A  
Luminaire Lumens: 4823 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.6  
Input Voltage (V): 120  
Input Current (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

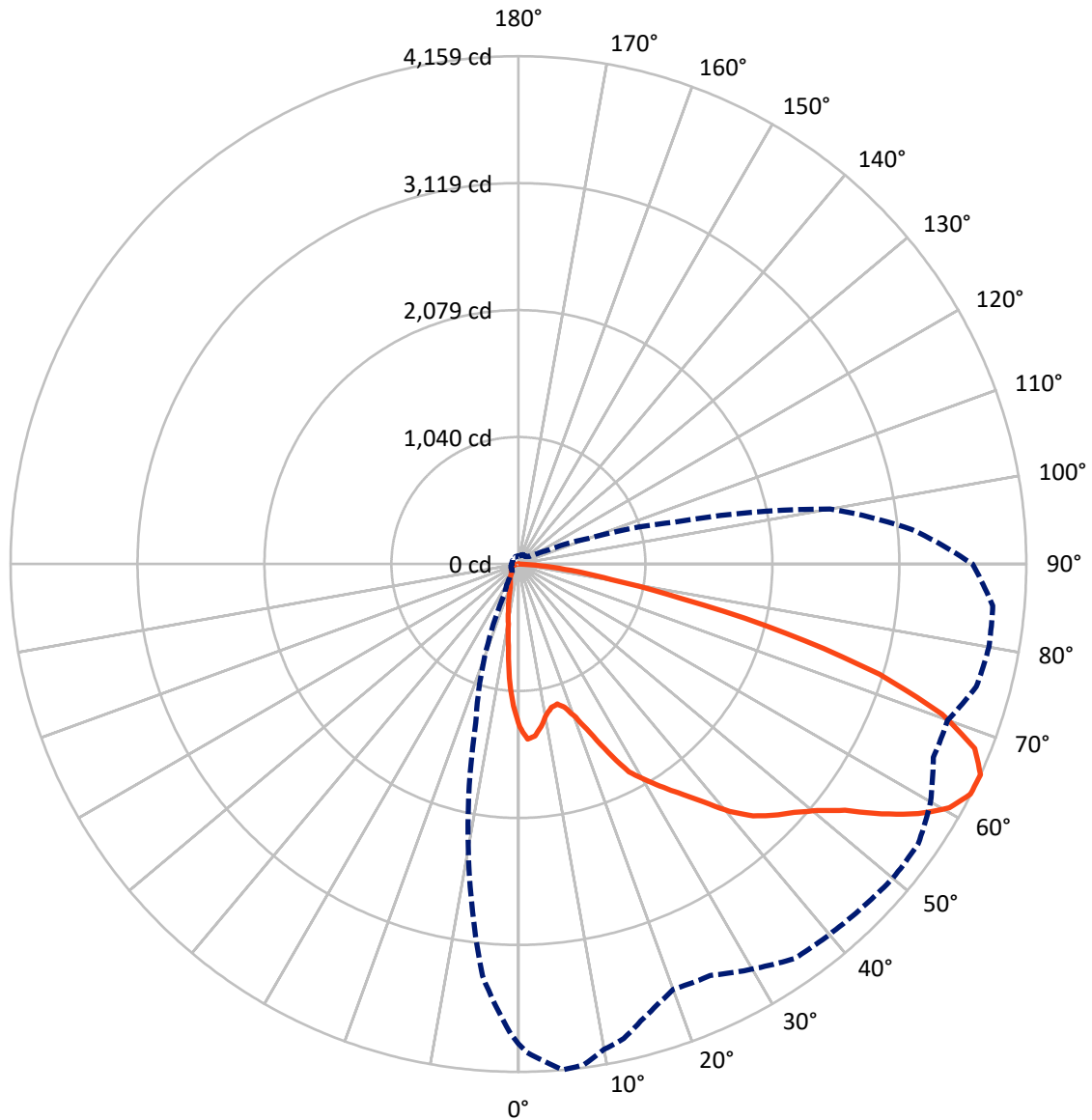
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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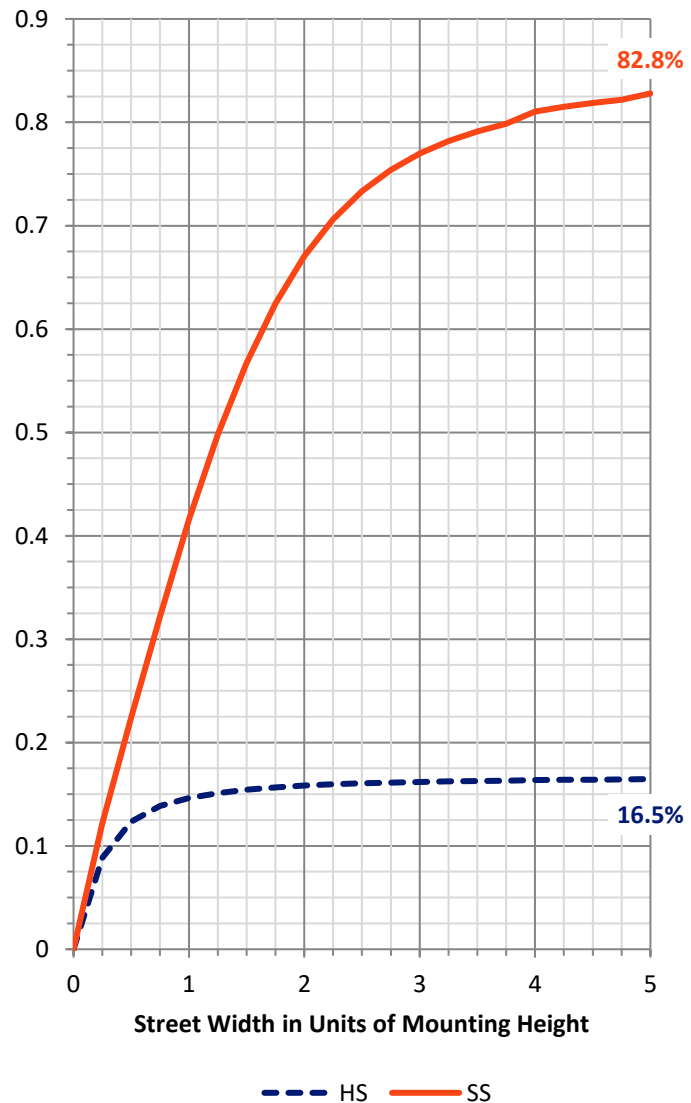
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	802.0	0.0	802.0
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	4021.0	0.0	4021.0
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	4823.0	0.0	4823.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.5	2.1
10°-20°	211.2	4.4
20°-30°	307.0	6.4
30°-40°	454.0	9.4
40°-50°	661.6	13.7
50°-60°	991.7	20.6
60°-70°	1235.8	25.6
70°-80°	723.9	15.0
80°-90°	135.4	2.8
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°	4823.0	100.0
0°-180°	4823.0	100.0



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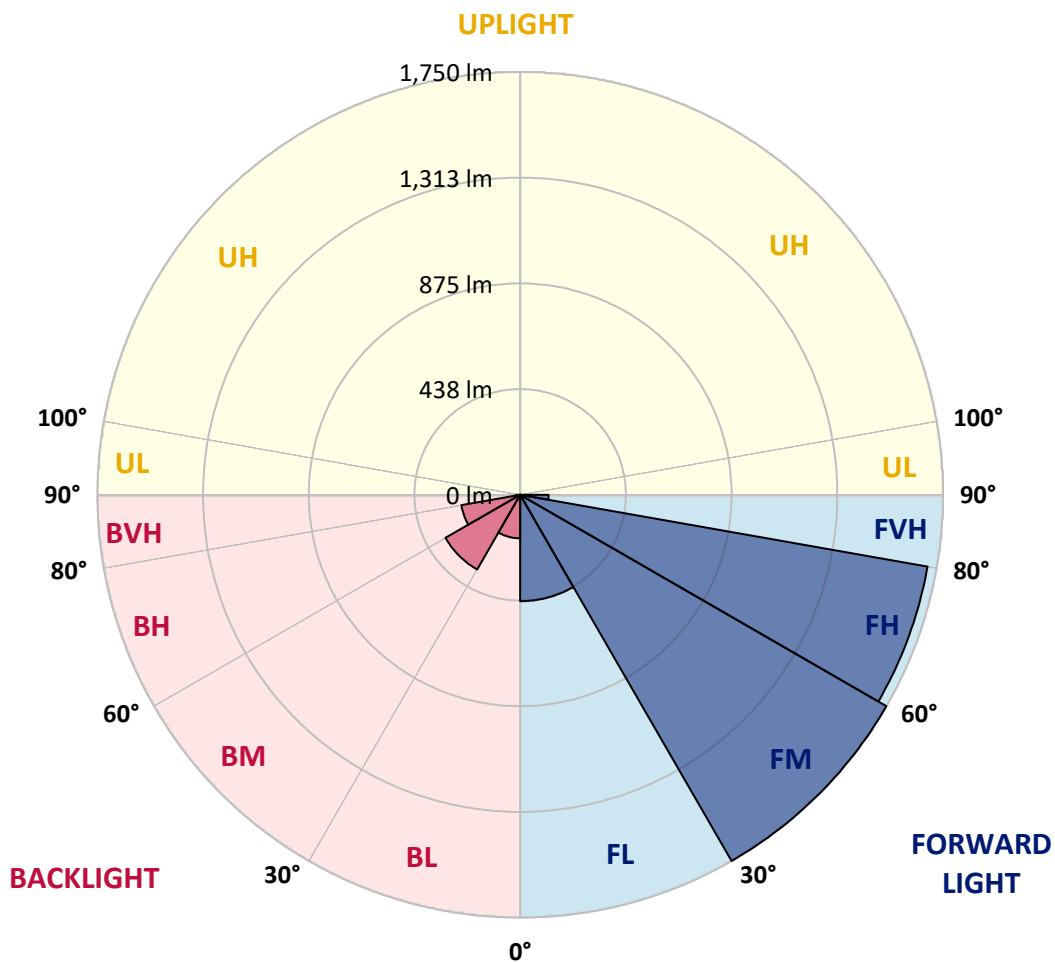
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	440.6	9.1			
FM	(30°-60°)	1750.4	36.3			
FH	(60°-80°)	1712.2	35.5			G1/1800
FVH	(80°-90°)	117.9	2.4			G2/225
BL	(0°-30°)	180.1	3.7	B1/500		
BM	(30°-60°)	356.9	7.4	B1/1000		
BH	(60°-80°)	247.5	5.1	B1/500		G1/500
BVH	(80°-90°)	17.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	7.5°	10°	12.5°	15°	17.5°	20°	25°	35°
0°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7
2.5°	1416.8	1413.0	1435.9	1439.7	1455.0	1455.0	1472.2	1487.5	1493.2	1506.6	1540.9
5°	1371.0	1382.5	1414.9	1447.4	1470.3	1493.2	1518.0	1548.6	1573.4	1615.4	1703.2
7.5°	1269.8	1287.0	1342.4	1374.8	1411.1	1451.2	1481.7	1518.0	1556.2	1626.9	1783.4
10°	1170.5	1183.9	1254.5	1294.6	1346.2	1388.2	1432.1	1472.2	1514.2	1602.0	1783.4
12.5°	1107.5	1124.7	1204.9	1243.1	1302.3	1346.2	1399.6	1447.4	1497.0	1590.6	1766.3
15°	1094.1	1113.2	1189.6	1237.3	1288.9	1330.9	1378.6	1428.3	1477.9	1569.6	1726.2
17.5°	1130.4	1153.3	1235.4	1288.9	1329.0	1376.7	1411.1	1458.8	1491.3	1563.9	1638.3
20°	1216.3	1243.1	1340.4	1392.0	1424.5	1455.0	1481.7	1510.4	1523.8	1540.9	1527.6
22.5°	1353.8	1386.3	1497.0	1556.2	1579.1	1602.0	1603.9	1607.8	1598.2	1552.4	1449.3
25°	1550.5	1582.9	1709.0	1766.3	1766.3	1766.3	1745.2	1730.0	1686.1	1600.1	1428.3
27.5°	1733.8	1775.8	1926.6	1962.9	1951.5	1934.3	1894.2	1856.0	1793.0	1649.8	1426.4
30°	1871.3	1913.3	2052.7	2081.3	2052.7	2010.7	1947.7	1892.3	1817.8	1674.6	1439.7
32.5°	1997.3	2046.9	2180.6	2184.4	2132.9	2085.1	2014.5	1951.5	1873.2	1720.4	1479.8
35°	2131.0	2180.6	2316.2	2289.4	2215.0	2150.1	2077.5	2022.1	1943.8	1779.6	1544.8
37.5°	2316.2	2360.1	2474.7	2411.7	2316.2	2232.2	2153.9	2081.3	2003.0	1859.8	1653.6
40°	2495.7	2558.7	2663.7	2562.5	2446.0	2333.4	2247.4	2171.1	2085.1	1968.7	1793.0
42.5°	2663.7	2722.9	2820.3	2690.4	2554.9	2442.2	2352.5	2270.4	2188.2	2092.8	1961.0
45°	2791.6	2852.7	2934.8	2797.4	2642.7	2526.2	2428.8	2356.3	2283.7	2218.8	2173.0
47.5°	2915.8	2976.9	3039.9	2890.9	2738.2	2619.8	2505.2	2438.4	2381.1	2346.7	2402.1
50°	3076.1	3118.2	3171.6	3011.2	2848.9	2713.3	2598.8	2547.2	2493.8	2505.2	2690.4
52.5°	3293.8	3330.1	3349.2	3192.6	3011.2	2856.6	2730.5	2659.9	2616.0	2682.8	2995.9
55°	3601.2	3652.8	3610.8	3456.1	3227.0	3051.3	2896.7	2812.6	2785.9	2875.7	3301.5
57.5°	3866.7	3889.6	3859.0	3706.3	3471.4	3274.7	3110.5	3022.7	2992.1	3110.5	3580.2
60°	3983.1	4011.8	4053.8	3922.0	3702.4	3507.7	3366.4	3280.5	3228.9	3366.4	3803.7
62.5°	4002.2	4050.0	4153.1	4086.3	3912.5	3767.4	3639.4	3521.0	3481.0	3586.0	3950.7
65°	3927.8	4000.3	4158.8	4134.0	4036.6	3981.2	3874.3	3782.6	3706.3	3717.7	3943.0
67.5°	3759.7	3843.7	4029.0	4017.5	4029.0	4029.0	3935.4	3859.0	3759.7	3618.4	3652.8
70°	3354.9	3465.7	3679.5	3734.9	3832.3	3832.3	3750.2	3633.7	3519.1	3228.9	3053.2
72.5°	2688.5	2763.0	3091.4	3360.7	3484.8	3435.1	3354.9	3160.2	2908.1	2589.2	2350.5
75°	1819.7	1863.6	2266.5	2759.2	2984.5	2942.5	2810.7	2568.2	2308.5	1953.4	1651.7
77.5°	1013.9	1071.2	1372.9	1758.6	2062.2	2056.5	2039.3	1884.6	1678.4	1384.4	1227.8
80°	595.8	614.8	773.3	1054.0	1315.6	1252.6	1208.7	1086.5	981.5	847.8	968.1
82.5°	364.7	345.6	439.2	641.6	777.2	750.4	675.9	630.1	580.5	544.2	643.5
85°	99.3	89.7	179.5	269.2	330.3	357.1	357.1	353.3	317.0	238.7	286.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
0°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7
2.5°	1554.3	1556.2	1550.5	1563.9	1548.6	1540.9	1518.0	1518.0	1498.9	1483.7	1466.5
5°	1735.7	1747.2	1737.6	1739.5	1709.0	1678.4	1632.6	1605.9	1558.1	1506.6	1453.1
7.5°	1857.9	1877.0	1869.4	1836.9	1789.2	1724.2	1647.9	1575.3	1497.0	1413.0	1334.7
10°	1890.4	1911.4	1894.2	1833.1	1754.8	1663.1	1571.5	1474.1	1378.6	1288.9	1204.9
12.5°	1844.5	1859.8	1823.5	1756.7	1680.3	1588.7	1493.2	1409.2	1296.5	1201.1	1103.7
15°	1728.1	1718.5	1714.7	1667.0	1613.5	1539.0	1449.3	1363.4	1258.3	1161.0	1057.8
17.5°	1602.0	1590.6	1594.4	1575.3	1567.7	1533.3	1466.5	1393.9	1300.3	1182.0	1071.2
20°	1491.3	1479.8	1485.6	1495.1	1523.8	1525.7	1514.2	1466.5	1397.7	1273.6	1138.0
22.5°	1395.8	1397.7	1416.8	1443.6	1491.3	1552.4	1600.1	1609.7	1561.9	1416.8	1246.9
25°	1367.2	1357.6	1378.6	1422.5	1502.7	1621.1	1728.1	1781.5	1754.8	1609.7	1401.5
27.5°	1357.6	1344.3	1367.2	1424.5	1552.4	1718.5	1871.3	1951.5	1961.0	1812.1	1567.7
30°	1357.6	1351.9	1374.8	1449.3	1584.9	1751.0	1920.9	2041.2	2079.4	1955.3	1712.8
32.5°	1374.8	1378.6	1418.7	1514.2	1653.6	1823.5	1999.2	2129.1	2197.8	2104.2	1829.3
35°	1413.0	1420.6	1477.9	1588.7	1739.5	1911.4	2071.8	2203.5	2314.3	2264.6	1938.1
37.5°	1495.1	1506.6	1577.2	1689.9	1827.4	1982.0	2138.6	2279.9	2440.3	2419.3	2052.7
40°	1640.2	1640.2	1710.9	1808.3	1920.9	2039.3	2194.0	2360.1	2556.8	2585.4	2194.0
42.5°	1823.5	1815.9	1861.7	1932.4	2010.7	2110.0	2249.3	2434.6	2665.6	2728.6	2300.9
45°	2075.6	2037.4	2062.2	2079.4	2117.6	2178.7	2302.8	2505.2	2753.4	2835.6	2381.1
47.5°	2371.6	2318.1	2297.1	2264.6	2251.3	2274.2	2381.1	2560.6	2837.5	2927.2	2510.9
50°	2698.1	2646.5	2591.1	2503.3	2426.9	2404.0	2468.9	2635.1	2927.2	3041.8	2654.2
52.5°	3038.0	3001.7	2929.1	2791.6	2646.5	2564.4	2595.0	2759.2	3070.4	3219.4	2824.1
55°	3349.2	3360.7	3272.8	3112.4	2904.3	2778.3	2814.5	2978.8	3330.1	3505.8	3108.6
57.5°	3683.4	3652.8	3584.1	3417.9	3190.7	3055.1	3070.4	3269.0	3620.3	3754.0	3391.2
60°	3904.9	3904.9	3830.4	3704.4	3488.6	3362.6	3385.5	3568.8	3853.3	3866.7	3517.2
62.5°	4048.1	4069.1	4009.9	3920.1	3710.1	3605.1	3683.4	3813.2	3967.9	3857.1	3454.2
65°	3979.3	4002.2	3996.5	3897.2	3748.3	3740.6	3881.9	3912.5	3899.1	3717.7	3236.5
67.5°	3668.1	3622.3	3620.3	3568.8	3538.2	3696.7	3876.2	3885.8	3660.4	3444.7	2892.8
70°	3076.1	2997.9	2967.3	2982.6	3122.0	3417.9	3673.8	3601.2	3242.3	3057.1	2463.2
72.5°	2371.6	2278.0	2258.9	2318.1	2533.9	2950.1	3299.6	3198.4	2665.6	2449.8	1907.6
75°	1682.2	1642.1	1644.0	1760.5	1993.5	2394.5	2801.2	2791.6	1974.4	1689.9	1313.7
77.5°	1224.0	1231.6	1266.0	1311.8	1512.3	1899.9	2281.8	2257.0	1405.4	1161.0	918.5
80°	1010.1	1021.6	1021.6	996.7	1048.3	1254.5	1550.5	1655.5	941.4	781.0	641.6
82.5°	725.6	782.9	815.3	775.2	756.1	826.8	971.9	1040.7	586.2	492.6	448.7
85°	345.6	395.3	406.7	397.2	456.4	521.3	555.7	569.0	320.8	229.1	294.1
87.5°	0.0	0.0	1.9	15.3	42.0	72.6	72.6	110.7	17.2	5.7	13.4
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):**

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°
0°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7
2.5°	1443.6	1418.7	1399.6	1376.7	1357.6	1338.5	1325.2	1296.5	1273.6	1222.1	1208.7
5°	1409.2	1355.7	1319.4	1285.1	1241.2	1210.6	1178.1	1138.0	1094.1	1019.7	996.7
7.5°	1273.6	1206.8	1157.1	1107.5	1050.2	998.6	950.9	897.4	821.1	740.9	710.3
10°	1126.6	1055.9	987.2	928.0	859.3	802.0	760.0	721.8	660.7	599.6	559.5
12.5°	1006.3	926.1	847.8	788.6	752.3	723.7	693.1	662.6	597.7	528.9	481.2
15°	950.9	857.3	788.6	739.0	706.5	672.1	635.9	601.5	525.1	444.9	387.6
17.5°	958.6	851.6	763.8	697.0	653.0	605.3	563.3	519.4	435.4	339.9	288.3
20°	1000.6	857.3	737.1	658.8	595.8	534.6	481.2	425.8	322.7	248.2	212.0
22.5°	1054.0	876.4	721.8	620.6	542.3	465.9	397.2	332.2	238.7	194.8	177.6
25°	1145.7	920.4	718.0	586.2	490.7	399.1	328.4	259.7	192.9	171.9	162.3
27.5°	1260.2	970.0	721.8	561.4	446.8	345.6	267.3	215.8	173.8	162.3	154.7
30°	1374.8	1021.6	704.6	523.2	395.3	296.0	229.1	196.7	171.9	158.5	145.1
32.5°	1476.0	1059.8	675.9	483.1	349.4	252.0	194.8	168.0	150.8	135.6	131.8
35°	1548.6	1076.9	643.5	458.3	318.9	225.3	171.9	150.8	133.7	118.4	110.7
37.5°	1617.3	1078.8	609.1	435.4	307.4	213.9	158.5	139.4	124.1	110.7	103.1
40°	1688.0	1071.2	590.0	412.4	290.2	208.1	152.8	129.8	120.3	105.0	97.4
42.5°	1739.5	1057.8	582.4	399.1	275.0	192.9	148.9	127.9	114.6	103.1	93.6
45°	1787.3	1044.5	582.4	387.6	263.5	183.3	141.3	129.8	110.7	101.2	89.7
47.5°	1844.5	1050.2	584.3	378.1	254.0	173.8	133.7	126.0	112.7	99.3	87.8
50°	1941.9	1115.1	593.8	372.3	246.3	166.1	127.9	120.3	124.1	97.4	85.9
52.5°	2110.0	1218.2	609.1	368.5	238.7	160.4	120.3	116.5	126.0	97.4	84.0
55°	2329.5	1323.3	624.4	359.0	227.2	148.9	116.5	108.8	116.5	97.4	82.1
57.5°	2543.4	1401.5	637.8	345.6	208.1	137.5	110.7	103.1	106.9	95.5	78.3
60°	2667.5	1462.6	651.1	322.7	185.2	124.1	105.0	97.4	95.5	95.5	76.4
62.5°	2701.9	1439.7	643.5	294.1	166.1	114.6	99.3	91.7	85.9	97.4	76.4
65°	2593.1	1319.4	614.8	269.2	152.8	110.7	93.6	87.8	82.1	84.0	72.6
67.5°	2258.9	1109.4	536.6	246.3	150.8	108.8	89.7	84.0	76.4	74.5	68.7
70°	1842.6	870.7	444.9	229.1	148.9	108.8	85.9	78.3	72.6	66.8	63.0
72.5°	1416.8	651.1	374.3	221.5	150.8	106.9	80.2	70.7	64.9	61.1	57.3
75°	996.7	460.2	311.2	198.6	141.3	101.2	74.5	63.0	57.3	53.5	49.6
77.5°	721.8	313.2	231.0	160.4	120.3	87.8	64.9	53.5	47.7	45.8	42.0
80°	460.2	192.9	154.7	118.4	87.8	68.7	49.6	42.0	38.2	34.4	32.5
82.5°	265.4	112.7	93.6	80.2	57.3	45.8	36.3	32.5	24.8	22.9	21.0
85°	162.3	70.7	51.6	42.0	36.3	28.6	21.0	19.1	13.4	11.5	9.5
87.5°	36.3	15.3	13.4	9.5	11.5	9.5	5.7	3.8	0.0	0.0	0.0
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):**

	175°	180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°
0°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7
2.5°	1187.7	1159.0	1161.0	1155.2	1139.9	1115.1	1107.5	1094.1	1096.0	1103.7	1096.0
5°	970.0	935.6	939.5	937.5	922.3	905.1	891.7	874.5	868.8	874.5	865.0
7.5°	687.4	664.5	672.1	689.3	687.4	677.9	666.4	647.3	643.5	645.4	628.2
10°	525.1	502.2	496.5	494.6	490.7	485.0	469.7	454.5	448.7	450.6	439.2
12.5°	439.2	420.1	397.2	376.2	357.1	349.4	330.3	320.8	318.9	318.9	313.2
15°	347.5	332.2	318.9	297.9	282.6	271.1	257.8	250.1	248.2	250.1	250.1
17.5°	259.7	252.0	246.3	244.4	236.8	229.1	221.5	217.7	215.8	215.8	217.7
20°	198.6	196.7	196.7	196.7	206.2	213.9	215.8	210.0	208.1	206.2	204.3
22.5°	171.9	169.9	171.9	183.3	177.6	171.9	171.9	171.9	171.9	171.9	173.8
25°	158.5	160.4	162.3	156.6	150.8	147.0	145.1	145.1	143.2	143.2	145.1
27.5°	150.8	148.9	147.0	143.2	139.4	133.7	131.8	129.8	129.8	129.8	129.8
30°	141.3	139.4	137.5	133.7	127.9	120.3	118.4	118.4	116.5	118.4	118.4
32.5°	129.8	127.9	126.0	122.2	116.5	112.7	110.7	106.9	106.9	106.9	108.8
35°	105.0	103.1	103.1	105.0	105.0	103.1	103.1	99.3	99.3	99.3	99.3
37.5°	97.4	95.5	95.5	93.6	95.5	97.4	95.5	93.6	93.6	91.7	91.7
40°	91.7	91.7	89.7	87.8	87.8	91.7	89.7	87.8	85.9	85.9	85.9
42.5°	87.8	85.9	85.9	84.0	84.0	84.0	82.1	80.2	78.3	78.3	78.3
45°	84.0	84.0	82.1	80.2	78.3	78.3	74.5	72.6	72.6	72.6	74.5
47.5°	82.1	80.2	80.2	78.3	76.4	72.6	70.7	68.7	68.7	68.7	68.7
50°	80.2	78.3	76.4	76.4	72.6	70.7	68.7	66.8	66.8	66.8	66.8
52.5°	78.3	76.4	74.5	72.6	70.7	68.7	66.8	64.9	64.9	64.9	64.9
55°	74.5	72.6	72.6	70.7	70.7	68.7	66.8	64.9	64.9	64.9	63.0
57.5°	72.6	70.7	68.7	68.7	68.7	66.8	64.9	63.0	63.0	63.0	63.0
60°	70.7	68.7	68.7	66.8	66.8	64.9	64.9	63.0	61.1	61.1	59.2
62.5°	68.7	66.8	66.8	64.9	66.8	64.9	63.0	61.1	59.2	59.2	57.3
65°	66.8	64.9	64.9	64.9	63.0	63.0	61.1	57.3	57.3	57.3	55.4
67.5°	63.0	61.1	61.1	63.0	61.1	59.2	59.2	55.4	55.4	53.5	53.5
70°	57.3	57.3	57.3	59.2	57.3	55.4	55.4	53.5	51.6	49.6	49.6
72.5°	53.5	51.6	53.5	53.5	53.5	51.6	53.5	49.6	47.7	45.8	45.8
75°	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	43.9	42.0	40.1
77.5°	36.3	38.2	38.2	38.2	38.2	40.1	38.2	38.2	38.2	36.3	34.4
80°	26.7	26.7	28.6	30.6	28.6	30.6	28.6	30.6	28.6	28.6	28.6
82.5°	15.3	15.3	17.2	19.1	19.1	21.0	17.2	19.1	19.1	21.0	19.1
85°	5.7	5.7	5.7	5.7	7.6	7.6	5.7	7.6	7.6	9.5	9.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	240°	242.5°	245°	247.5°	250°	252.5°	255°	257.5°	260°	265°	270°
0°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7
2.5°	1111.3	1111.3	1088.4	1092.2	1096.0	1103.7	1099.9	1097.9	1096.0	1107.5	1113.2
5°	872.6	870.7	842.1	840.2	845.9	847.8	842.1	832.5	826.8	828.7	834.4
7.5°	633.9	628.2	601.5	597.7	595.8	597.7	591.9	582.4	574.7	576.7	582.4
10°	443.0	427.7	423.9	425.8	429.6	433.4	433.4	433.4	435.4	446.8	460.2
12.5°	320.8	315.1	318.9	322.7	330.3	336.1	341.8	343.7	345.6	360.9	372.3
15°	254.0	254.0	257.8	259.7	263.5	267.3	271.1	271.1	273.1	278.8	288.3
17.5°	219.6	219.6	219.6	219.6	219.6	217.7	215.8	212.0	210.0	208.1	210.0
20°	202.4	200.5	196.7	194.8	190.9	187.1	185.2	179.5	177.6	171.9	169.9
22.5°	173.8	171.9	171.9	171.9	171.9	169.9	168.0	166.1	162.3	156.6	152.8
25°	143.2	143.2	143.2	145.1	145.1	147.0	150.8	150.8	150.8	150.8	145.1
27.5°	129.8	129.8	129.8	129.8	131.8	131.8	133.7	133.7	133.7	135.6	137.5
30°	118.4	120.3	120.3	122.2	122.2	124.1	124.1	126.0	126.0	127.9	127.9
32.5°	108.8	108.8	110.7	112.7	112.7	112.7	116.5	116.5	114.6	116.5	116.5
35°	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	93.6	91.7	93.6
37.5°	89.7	87.8	87.8	85.9	84.0	84.0	84.0	85.9	84.0	85.9	85.9
40°	82.1	82.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	82.1	84.0
42.5°	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	78.3	78.3
45°	72.6	72.6	72.6	72.6	74.5	74.5	74.5	74.5	74.5	74.5	76.4
47.5°	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	72.6	74.5
50°	66.8	66.8	68.7	68.7	68.7	68.7	68.7	68.7	68.7	70.7	72.6
52.5°	64.9	64.9	64.9	66.8	66.8	66.8	66.8	66.8	66.8	66.8	68.7
55°	63.0	64.9	64.9	64.9	64.9	64.9	63.0	63.0	63.0	63.0	64.9
57.5°	61.1	61.1	63.0	63.0	63.0	61.1	61.1	59.2	59.2	59.2	63.0
60°	59.2	59.2	59.2	59.2	59.2	57.3	57.3	57.3	57.3	59.2	59.2
62.5°	57.3	57.3	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
65°	55.4	55.4	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
67.5°	51.6	51.6	51.6	49.6	49.6	49.6	49.6	51.6	49.6	49.6	49.6
70°	47.7	47.7	47.7	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
72.5°	43.9	43.9	43.9	43.9	42.0	42.0	42.0	42.0	42.0	42.0	42.0
75°	40.1	38.2	38.2	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
77.5°	34.4	32.5	32.5	32.5	30.6	30.6	30.6	30.6	30.6	30.6	30.6
80°	28.6	26.7	26.7	24.8	24.8	24.8	24.8	24.8	24.8	22.9	22.9
82.5°	21.0	19.1	19.1	19.1	19.1	17.2	17.2	17.2	17.2	15.3	13.4
85°	9.5	9.5	7.6	9.5	9.5	11.5	9.5	9.5	9.5	7.6	3.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°	302.5°	
0°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	0°
2.5°	1109.4	1128.5	1130.4	1118.9	1141.9	1145.7	1139.9	1139.9	1143.8	1159.0	1159.0	2.5°
5°	826.8	851.6	849.7	834.4	865.0	874.5	868.8	870.7	878.4	895.5	905.1	5°
7.5°	584.3	605.3	603.4	601.5	620.6	628.2	632.0	637.8	660.7	662.6	674.0	7.5°
10°	473.5	492.6	498.4	511.7	517.5	528.9	536.6	546.1	565.2	574.7	588.1	10°
12.5°	383.8	406.7	412.4	427.7	435.4	448.7	456.4	475.5	486.9	498.4	515.6	12.5°
15°	296.0	315.1	320.8	332.2	339.9	355.2	362.8	374.3	397.2	408.6	431.5	15°
17.5°	217.7	229.1	233.0	240.6	246.3	252.0	267.3	286.4	299.8	318.9	330.3	17.5°
20°	169.9	173.8	175.7	177.6	181.4	185.2	192.9	206.2	213.9	229.1	240.6	20°
22.5°	152.8	154.7	154.7	156.6	156.6	158.5	162.3	166.1	169.9	175.7	181.4	22.5°
25°	141.3	143.2	143.2	145.1	145.1	147.0	148.9	150.8	154.7	156.6	158.5	25°
27.5°	135.6	135.6	135.6	135.6	137.5	137.5	139.4	143.2	143.2	147.0	148.9	27.5°
30°	129.8	129.8	129.8	131.8	133.7	137.5	141.3	147.0	148.9	152.8	154.7	30°
32.5°	120.3	116.5	120.3	118.4	114.6	114.6	116.5	120.3	120.3	122.2	124.1	32.5°
35°	93.6	93.6	95.5	97.4	97.4	99.3	101.2	103.1	105.0	108.8	110.7	35°
37.5°	87.8	89.7	89.7	91.7	93.6	93.6	95.5	99.3	101.2	103.1	105.0	37.5°
40°	84.0	85.9	87.8	89.7	89.7	91.7	93.6	95.5	97.4	101.2	103.1	40°
42.5°	80.2	84.0	84.0	85.9	87.8	89.7	91.7	93.6	97.4	99.3	101.2	42.5°
45°	78.3	80.2	82.1	84.0	85.9	87.8	89.7	93.6	95.5	99.3	101.2	45°
47.5°	76.4	78.3	80.2	82.1	84.0	85.9	87.8	91.7	95.5	99.3	103.1	47.5°
50°	72.6	76.4	78.3	80.2	82.1	84.0	87.8	91.7	95.5	101.2	110.7	50°
52.5°	70.7	74.5	74.5	78.3	80.2	84.0	87.8	91.7	97.4	105.0	114.6	52.5°
55°	66.8	70.7	70.7	74.5	78.3	82.1	84.0	89.7	95.5	103.1	105.0	55°
57.5°	63.0	66.8	68.7	70.7	74.5	78.3	80.2	85.9	93.6	95.5	93.6	57.5°
60°	61.1	63.0	64.9	66.8	70.7	72.6	78.3	89.7	97.4	89.7	80.2	60°
62.5°	57.3	61.1	63.0	64.9	68.7	70.7	74.5	82.1	84.0	74.5	72.6	62.5°
65°	55.4	59.2	59.2	63.0	64.9	64.9	66.8	66.8	66.8	66.8	66.8	65°
67.5°	51.6	55.4	55.4	57.3	59.2	59.2	61.1	61.1	61.1	61.1	61.1	67.5°
70°	47.7	49.6	51.6	53.5	53.5	53.5	55.4	55.4	55.4	57.3	57.3	70°
72.5°	43.9	45.8	45.8	47.7	47.7	49.6	49.6	51.6	51.6	51.6	53.5	72.5°
75°	36.3	38.2	40.1	42.0	42.0	43.9	43.9	43.9	43.9	45.8	45.8	75°
77.5°	30.6	30.6	34.4	34.4	36.3	36.3	38.2	38.2	38.2	38.2	38.2	77.5°
80°	22.9	22.9	24.8	26.7	28.6	28.6	28.6	28.6	28.6	28.6	28.6	80°
82.5°	13.4	13.4	15.3	15.3	17.2	17.2	19.1	17.2	17.2	15.3	15.3	82.5°
85°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	1.9	1.9	0.0	0.0	85°
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



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**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	335°	345°		355°
1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	0°	1334.7
1187.7	1187.7	1191.5	1206.8	1210.6	1220.1	1218.2	1235.4	1243.1	1288.9	1336.6	2.5°	1382.5
939.5	947.1	958.6	977.6	989.1	1010.1	1006.3	1040.7	1046.4	1130.4	1212.5	5°	1308.0
700.8	712.2	721.8	742.8	760.0	781.0	786.7	826.8	838.3	949.0	1063.6	7.5°	1195.3
607.2	616.8	630.1	643.5	660.7	670.2	685.5	704.6	718.0	800.1	931.8	10°	1082.7
540.4	553.7	567.1	586.2	603.4	620.6	635.9	654.9	672.1	739.0	842.1	12.5°	1015.8
458.3	473.5	488.8	509.8	534.6	551.8	569.0	590.0	611.0	693.1	813.4	15°	989.1
355.2	372.3	393.3	422.0	448.7	469.7	486.9	515.6	542.3	641.6	800.1	17.5°	1015.8
261.6	276.9	296.0	320.8	339.9	376.2	395.3	429.6	462.1	586.2	781.0	20°	1067.4
192.9	202.4	217.7	236.8	257.8	290.2	311.2	341.8	378.1	534.6	781.0	22.5°	1155.2
162.3	166.1	171.9	183.3	196.7	219.6	240.6	271.1	307.4	488.8	802.0	25°	1298.4
150.8	152.8	156.6	162.3	169.9	181.4	196.7	221.5	257.8	452.5	832.5	27.5°	1451.2
158.5	158.5	158.5	160.4	164.2	169.9	177.6	192.9	215.8	399.1	853.5	30°	1584.9
127.9	129.8	129.8	133.7	135.6	143.2	150.8	162.3	183.3	366.6	866.9	32.5°	1680.3
114.6	116.5	118.4	120.3	124.1	126.0	133.7	147.0	168.0	345.6	865.0	35°	1793.0
108.8	110.7	112.7	112.7	114.6	118.4	124.1	137.5	162.3	338.0	865.0	37.5°	1922.8
106.9	106.9	106.9	106.9	110.7	114.6	124.1	137.5	158.5	330.3	870.7	40°	2066.0
103.1	103.1	103.1	105.0	110.7	118.4	122.2	129.8	147.0	326.5	880.3	42.5°	2195.9
103.1	103.1	105.0	112.7	114.6	114.6	116.5	122.2	139.4	326.5	899.4	45°	2297.1
106.9	110.7	112.7	110.7	108.8	108.8	108.8	116.5	133.7	332.2	935.6	47.5°	2413.6
116.5	114.6	106.9	105.0	105.0	101.2	103.1	110.7	131.8	332.2	1010.1	50°	2574.0
114.6	106.9	105.0	101.2	97.4	95.5	97.4	108.8	129.8	328.4	1117.0	52.5°	2808.8
103.1	101.2	95.5	91.7	89.7	91.7	95.5	105.0	126.0	324.6	1248.8	55°	3093.3
89.7	87.8	84.0	84.0	85.9	87.8	93.6	101.2	116.5	315.1	1353.8	57.5°	3354.9
78.3	78.3	78.3	80.2	82.1	84.0	89.7	95.5	106.9	297.9	1424.5	60°	3523.0
70.7	72.6	72.6	76.4	78.3	80.2	84.0	89.7	97.4	278.8	1439.7	62.5°	3524.9
66.8	68.7	70.7	70.7	72.6	74.5	80.2	85.9	97.4	263.5	1346.2	65°	3385.5
63.0	63.0	64.9	66.8	68.7	70.7	74.5	84.0	99.3	250.1	1141.9	67.5°	3032.2
57.3	59.2	61.1	63.0	63.0	64.9	70.7	84.0	101.2	244.4	907.0	70°	2560.6
53.5	53.5	55.4	57.3	57.3	61.1	66.8	82.1	103.1	234.9	683.6	72.5°	1997.3
45.8	47.7	47.7	47.7	49.6	53.5	61.1	74.5	89.7	194.8	462.1	75°	1353.8
40.1	38.2	40.1	40.1	42.0	43.9	49.6	57.3	66.8	124.1	244.4	77.5°	861.2
28.6	26.7	26.7	28.6	28.6	28.6	32.5	34.4	38.2	76.4	135.6	80°	507.9
15.3	13.4	15.3	13.4	13.4	15.3	15.3	19.1	19.1	36.3	61.1	82.5°	315.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	13.4	85°	127.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.5°	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°	0.0



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**TION (continued):**

359°	360°
1334.7	1334.7
1405.4	1416.8
1355.7	1371.0
1248.8	1269.8
1149.5	1170.5
1096.0	1107.5
1071.2	1094.1
1107.5	1130.4
1180.0	1216.3
1308.0	1353.8
1510.4	1550.5
1670.8	1733.8
1819.7	1871.3
1938.1	1997.3
2073.7	2131.0
2237.9	2316.2
2407.8	2495.7
2566.3	2663.7
2715.3	2791.6
2829.8	2915.8
2974.9	3076.1
3221.3	3293.8
3519.1	3601.2
3796.0	3866.7
3923.9	3983.1
3927.8	4002.2
3843.7	3927.8
3629.9	3759.7
3209.8	3354.9
2522.4	2688.5
1674.6	1819.7
966.2	1013.9
570.9	595.8
339.9	364.7
91.7	99.3
0.0	0.0
0.0	0.0

(END OF REPORT)