

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: P228498

Luminaire Tested: **ISS-AF-1200-LED-E1-SLL-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228498  
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-1200-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**

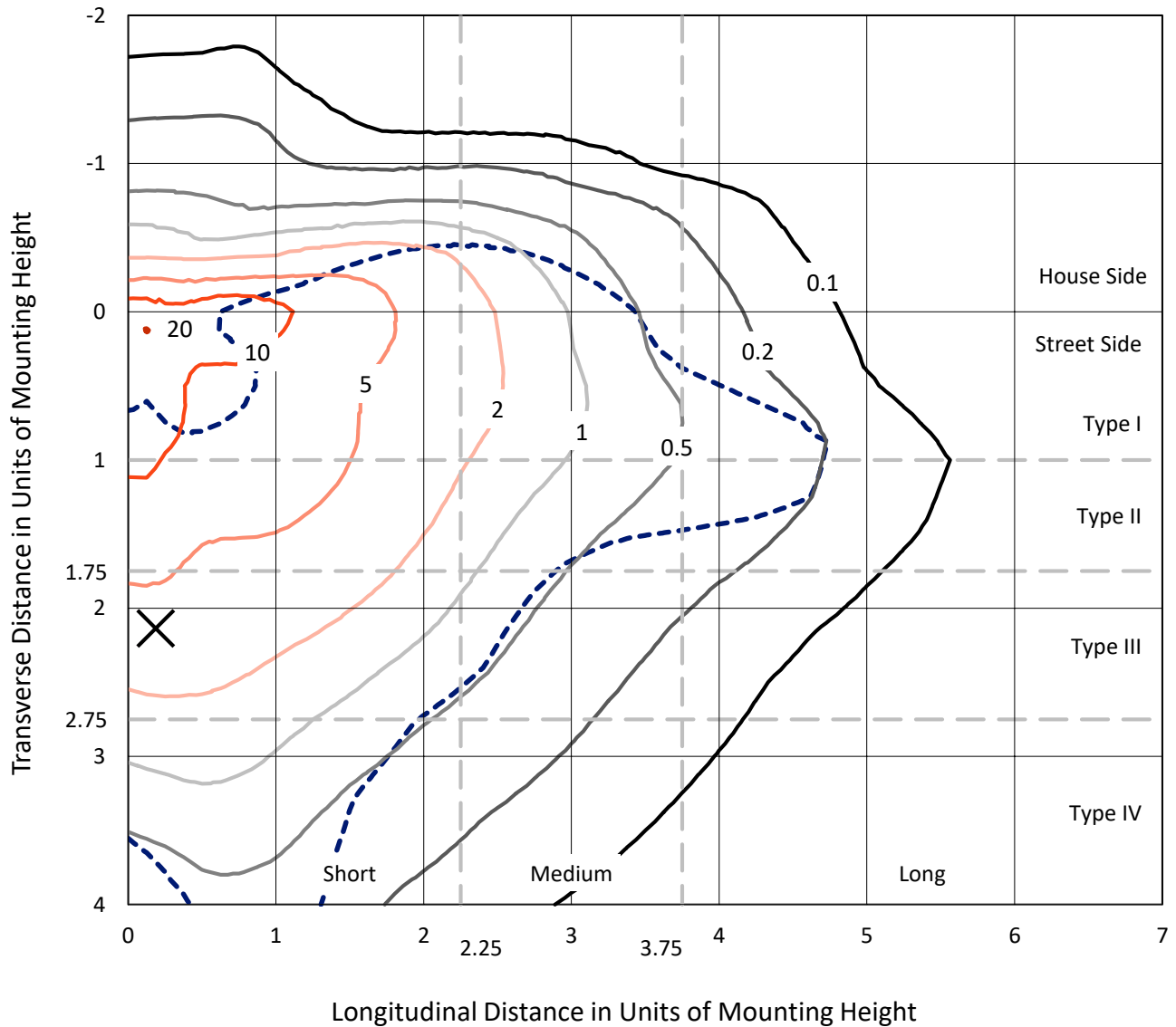
Lumens per Lamp: N/A  
Luminaire Lumens: 5488 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 66  
Input Voltage (V): 120  
Input Current (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

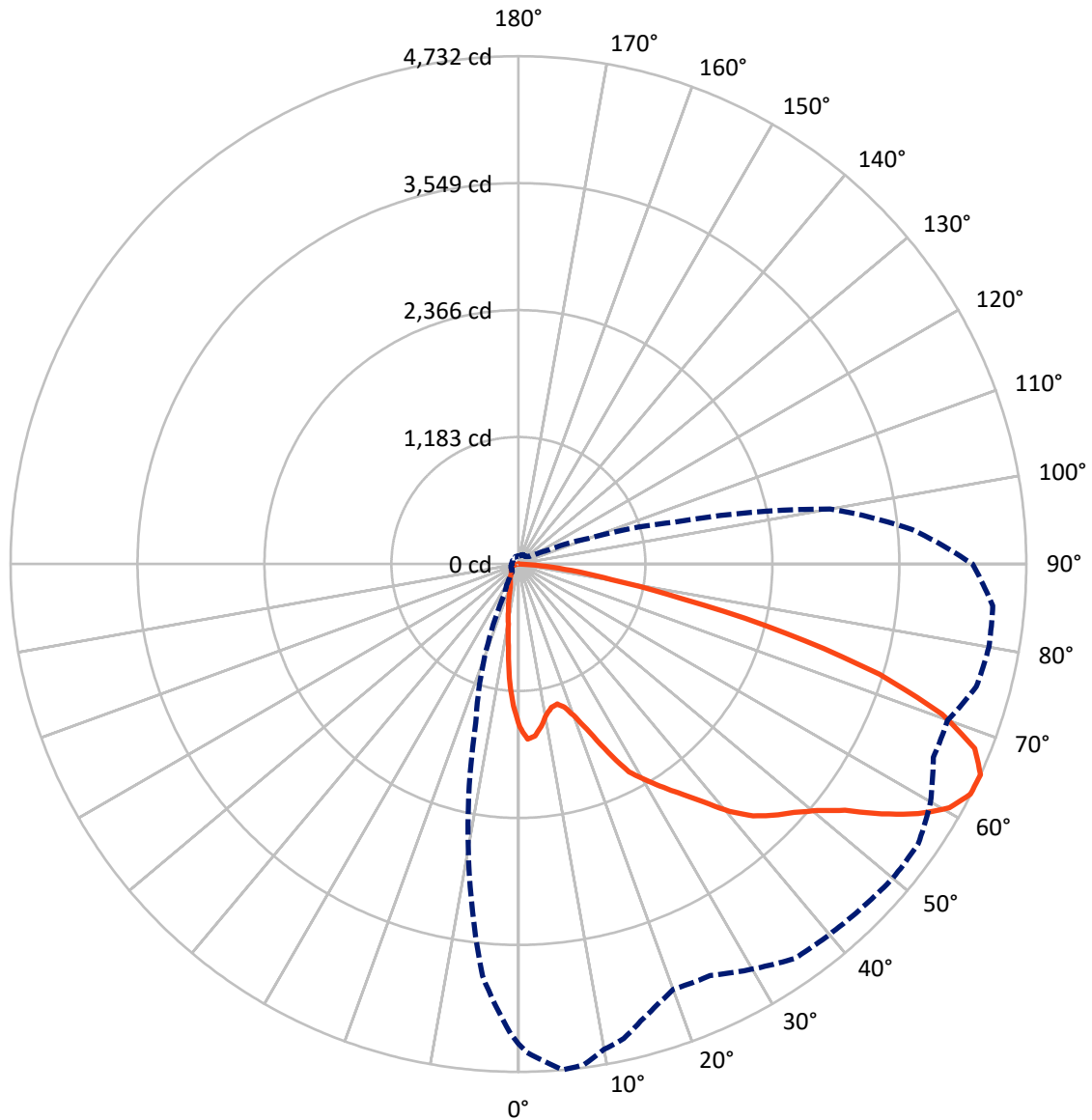
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.5 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	912.5	0.0	912.5
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	4575.5	0.0	4575.5
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	5488.0	0.0	5488.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.6	2.1
10°-20°	240.3	4.4
20°-30°	349.3	6.4
30°-40°	516.6	9.4
40°-50°	752.8	13.7
50°-60°	1128.4	20.6
60°-70°	1406.2	25.6
70°-80°	823.7	15.0
80°-90°	154.0	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°	5488.0	100.0
0°-180°	5488.0	100.0



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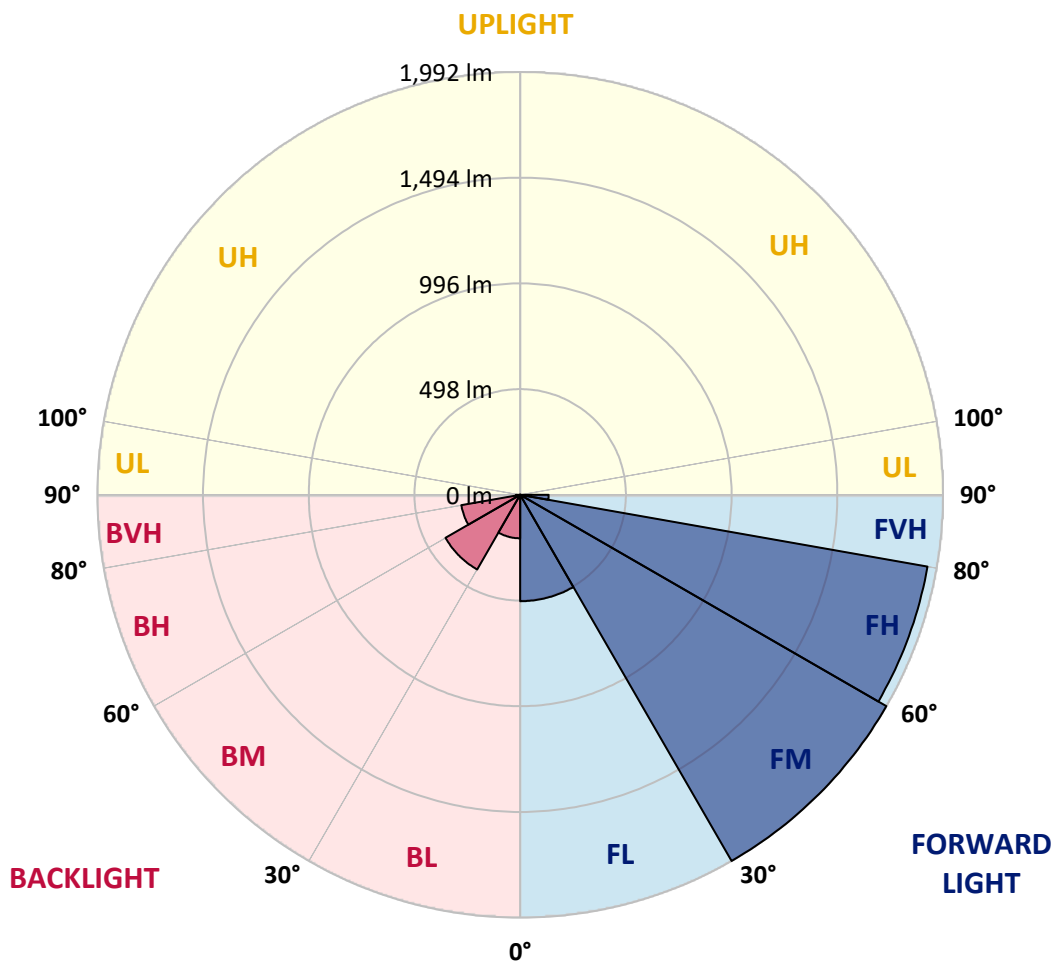
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	501.3	9.1			
FM	(30°-60°)	1991.7	36.3			
FH	(60°-80°)	1948.2	35.5			G2/5000
FVH	(80°-90°)	134.2	2.4			G2/225
BL	(0°-30°)	204.9	3.7	B1/500		
BM	(30°-60°)	406.1	7.4	B1/1000		
BH	(60°-80°)	281.7	5.1	B1/500		G1/500
BVH	(80°-90°)	19.8	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°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7
2.5°	1612.2	1607.8	1633.9	1638.2	1655.6	1655.6	1675.2	1692.6	1699.1	1714.3	1753.4
5°	1560.0	1573.1	1610.0	1646.9	1673.0	1699.1	1727.3	1762.1	1790.3	1838.1	1938.1
7.5°	1444.9	1464.4	1527.4	1564.4	1605.7	1651.3	1686.0	1727.3	1770.8	1851.2	2029.3
10°	1331.9	1347.1	1427.5	1473.1	1531.8	1579.6	1629.6	1675.2	1723.0	1822.9	2029.3
12.5°	1260.2	1279.7	1371.0	1414.5	1481.8	1531.8	1592.6	1646.9	1703.4	1809.9	2009.8
15°	1245.0	1266.7	1353.6	1407.9	1466.6	1514.4	1568.7	1625.2	1681.7	1786.0	1964.2
17.5°	1286.3	1312.3	1405.8	1466.6	1512.2	1566.5	1605.7	1660.0	1696.9	1779.5	1864.2
20°	1384.0	1414.5	1525.3	1583.9	1620.9	1655.6	1686.0	1718.6	1733.8	1753.4	1738.2
22.5°	1540.5	1577.4	1703.4	1770.8	1796.9	1822.9	1825.1	1829.4	1818.6	1766.4	1649.1
25°	1764.3	1801.2	1944.6	2009.8	2009.8	2009.8	1985.9	1968.5	1918.5	1820.8	1625.2
27.5°	1972.8	2020.6	2192.3	2233.6	2220.5	2201.0	2155.4	2111.9	2040.2	1877.2	1623.0
30°	2129.3	2177.1	2335.7	2368.3	2335.7	2287.9	2216.2	2153.2	2068.5	1905.5	1638.2
32.5°	2272.7	2329.2	2481.3	2485.6	2427.0	2372.6	2292.2	2220.5	2131.5	1957.6	1683.9
35°	2424.8	2481.3	2635.5	2605.1	2520.4	2446.5	2363.9	2300.9	2211.9	2025.0	1757.7
37.5°	2635.5	2685.5	2815.9	2744.2	2635.5	2539.9	2450.9	2368.3	2279.2	2116.3	1881.6
40°	2839.8	2911.5	3031.0	2915.8	2783.3	2655.1	2557.3	2470.4	2372.6	2240.1	2040.2
42.5°	3031.0	3098.3	3209.1	3061.4	2907.1	2778.9	2676.8	2583.4	2490.0	2381.3	2231.4
45°	3176.5	3246.1	3339.5	3183.1	3007.1	2874.5	2763.7	2681.2	2598.6	2524.7	2472.6
47.5°	3317.8	3387.3	3459.0	3289.5	3115.7	2981.0	2850.6	2774.6	2709.4	2670.3	2733.3
50°	3500.3	3548.1	3608.9	3426.4	3241.7	3087.5	2957.1	2898.4	2837.6	2850.6	3061.4
52.5°	3748.0	3789.3	3811.0	3632.8	3426.4	3250.4	3107.0	3026.6	2976.7	3052.7	3409.0
55°	4097.8	4156.5	4108.7	3932.7	3671.9	3472.0	3296.0	3200.4	3170.0	3272.1	3756.7
57.5°	4399.8	4425.9	4391.1	4217.3	3950.0	3726.3	3539.4	3439.5	3404.7	3539.4	4073.9
60°	4532.3	4564.9	4612.7	4462.8	4212.9	3991.3	3830.5	3732.8	3674.1	3830.5	4328.1
62.5°	4554.1	4608.4	4725.7	4649.7	4451.9	4286.8	4141.2	4006.5	3960.9	4080.4	4495.4
65°	4469.3	4551.9	4732.2	4704.0	4593.2	4530.2	4408.5	4304.2	4217.3	4230.3	4486.7
67.5°	4278.1	4373.7	4584.5	4571.4	4584.5	4584.5	4478.0	4391.1	4278.1	4117.3	4156.5
70°	3817.5	3943.5	4186.9	4249.9	4360.7	4360.7	4267.3	4134.7	4004.4	3674.1	3474.2
72.5°	3059.2	3144.0	3517.7	3824.0	3965.3	3908.8	3817.5	3595.9	3309.1	2946.2	2674.6
75°	2070.6	2120.6	2579.0	3139.6	3396.0	3348.2	3198.3	2922.3	2626.8	2222.7	1879.4
77.5°	1153.7	1218.9	1562.2	2001.1	2346.6	2340.0	2320.5	2144.5	1909.8	1575.2	1397.1
80°	677.9	699.6	880.0	1199.4	1497.0	1425.3	1375.3	1236.3	1116.8	964.7	1101.6
82.5°	415.0	393.3	499.7	730.0	884.3	853.9	769.2	717.0	660.5	619.2	732.2
85°	113.0	102.1	204.2	306.4	375.9	406.3	406.3	402.0	360.7	271.6	325.9
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°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7
2.5°	1768.6	1770.8	1764.3	1779.5	1762.1	1753.4	1727.3	1727.3	1705.6	1688.2	1668.7
5°	1975.0	1988.1	1977.2	1979.4	1944.6	1909.8	1857.7	1827.3	1773.0	1714.3	1653.5
7.5°	2114.1	2135.8	2127.1	2090.2	2035.9	1962.0	1875.1	1792.5	1703.4	1607.8	1518.7
10°	2151.0	2174.9	2155.4	2085.8	1996.7	1892.5	1788.2	1677.4	1568.7	1466.6	1371.0
12.5°	2098.9	2116.3	2075.0	1998.9	1912.0	1807.7	1699.1	1603.5	1475.3	1366.7	1255.8
15°	1966.3	1955.5	1951.1	1896.8	1836.0	1751.2	1649.1	1551.3	1431.8	1321.0	1203.7
17.5°	1822.9	1809.9	1814.2	1792.5	1783.8	1744.7	1668.7	1586.1	1479.6	1344.9	1218.9
20°	1696.9	1683.9	1690.4	1701.3	1733.8	1736.0	1723.0	1668.7	1590.4	1449.2	1295.0
22.5°	1588.3	1590.4	1612.2	1642.6	1696.9	1766.4	1820.8	1831.6	1777.3	1612.2	1418.8
25°	1555.7	1544.8	1568.7	1618.7	1709.9	1844.7	1966.3	2027.2	1996.7	1831.6	1594.8
27.5°	1544.8	1529.6	1555.7	1620.9	1766.4	1955.5	2129.3	2220.5	2231.4	2061.9	1783.8
30°	1544.8	1538.3	1564.4	1649.1	1803.4	1992.4	2185.8	2322.7	2366.1	2224.9	1948.9
32.5°	1564.4	1568.7	1614.3	1723.0	1881.6	2075.0	2274.9	2422.6	2500.8	2394.4	2081.5
35°	1607.8	1616.5	1681.7	1807.7	1979.4	2174.9	2357.4	2507.3	2633.4	2576.9	2205.3
37.5°	1701.3	1714.3	1794.7	1922.9	2079.3	2255.3	2433.5	2594.3	2776.8	2752.9	2335.7
40°	1866.4	1866.4	1946.8	2057.6	2185.8	2320.5	2496.5	2685.5	2909.3	2941.9	2496.5
42.5°	2075.0	2066.3	2118.4	2198.8	2287.9	2400.9	2559.5	2770.2	3033.1	3104.8	2618.2
45°	2361.8	2318.3	2346.6	2366.1	2409.6	2479.1	2620.3	2850.6	3133.1	3226.5	2709.4
47.5°	2698.5	2637.7	2613.8	2576.9	2561.7	2587.7	2709.4	2913.6	3228.7	3330.8	2857.2
50°	3070.1	3011.4	2948.4	2848.5	2761.6	2735.5	2809.4	2998.4	3330.8	3461.2	3020.1
52.5°	3456.8	3415.6	3333.0	3176.5	3011.4	2918.0	2952.8	3139.6	3493.8	3663.2	3213.5
55°	3811.0	3824.0	3724.1	3541.6	3304.7	3161.3	3202.6	3389.5	3789.3	3989.2	3537.2
57.5°	4191.2	4156.5	4078.2	3889.2	3630.7	3476.4	3493.8	3719.7	4119.5	4271.6	3858.8
60°	4443.3	4443.3	4358.5	4215.1	3969.6	3826.2	3852.3	4060.9	4384.6	4399.8	4002.2
62.5°	4606.2	4630.1	4562.8	4460.6	4221.6	4102.1	4191.2	4339.0	4515.0	4388.9	3930.5
65°	4528.0	4554.1	4547.5	4434.6	4265.1	4256.4	4417.2	4451.9	4436.7	4230.3	3682.8
67.5°	4173.8	4121.7	4119.5	4060.9	4026.1	4206.4	4410.7	4421.5	4165.1	3919.6	3291.7
70°	3500.3	3411.2	3376.4	3393.8	3552.4	3889.2	4180.4	4097.8	3689.3	3478.6	2802.8
72.5°	2698.5	2592.1	2570.4	2637.7	2883.2	3356.9	3754.5	3639.3	3033.1	2787.6	2170.6
75°	1914.2	1868.6	1870.7	2003.3	2268.3	2724.6	3187.4	3176.5	2246.6	1922.9	1494.8
77.5°	1392.7	1401.4	1440.5	1492.7	1720.8	2161.9	2596.4	2568.2	1599.1	1321.0	1045.1
80°	1149.4	1162.4	1162.4	1134.2	1192.8	1427.5	1764.3	1883.8	1071.2	888.7	730.0
82.5°	825.6	890.8	927.8	882.1	860.4	940.8	1105.9	1184.1	667.0	560.6	510.6
85°	393.3	449.8	462.8	451.9	519.3	593.2	632.3	647.5	365.0	260.7	334.6
87.5°	0.0	0.0	2.2	17.4	47.8	82.6	82.6	126.0	19.6	6.5	15.2
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):**

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°
0°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7
2.5°	1642.6	1614.3	1592.6	1566.5	1544.8	1523.1	1507.9	1475.3	1449.2	1390.6	1375.3
5°	1603.5	1542.6	1501.4	1462.3	1412.3	1377.5	1340.6	1295.0	1245.0	1160.2	1134.2
7.5°	1449.2	1373.2	1316.7	1260.2	1195.0	1136.3	1082.0	1021.2	934.3	843.0	808.3
10°	1281.9	1201.5	1123.3	1056.0	977.7	912.6	864.8	821.3	751.8	682.2	636.6
12.5°	1145.0	1053.8	964.7	897.3	856.1	823.5	788.7	753.9	680.1	601.8	547.5
15°	1082.0	975.6	897.3	840.9	803.9	764.8	723.5	684.4	597.5	506.2	441.1
17.5°	1090.7	969.0	869.1	793.1	743.1	688.8	641.0	591.0	495.4	386.7	328.1
20°	1138.5	975.6	838.7	749.6	677.9	608.4	547.5	484.5	367.2	282.5	241.2
22.5°	1199.4	997.3	821.3	706.1	617.1	530.1	451.9	378.1	271.6	221.6	202.1
25°	1303.6	1047.3	817.0	667.0	558.4	454.1	373.7	295.5	219.4	195.5	184.7
27.5°	1434.0	1103.8	821.3	638.8	508.4	393.3	304.2	245.5	197.7	184.7	176.0
30°	1564.4	1162.4	801.7	595.3	449.8	336.8	260.7	223.8	195.5	180.3	165.1
32.5°	1679.5	1205.9	769.2	549.7	397.6	286.8	221.6	191.2	171.6	154.3	149.9
35°	1762.1	1225.4	732.2	521.5	362.8	256.4	195.5	171.6	152.1	134.7	126.0
37.5°	1840.3	1227.6	693.1	495.4	349.8	243.3	180.3	158.6	141.2	126.0	117.3
40°	1920.7	1218.9	671.4	469.3	330.3	236.8	173.8	147.7	136.9	119.5	110.8
42.5°	1979.4	1203.7	662.7	454.1	312.9	219.4	169.5	145.6	130.4	117.3	106.5
45°	2033.7	1188.5	662.7	441.1	299.8	208.6	160.8	147.7	126.0	115.2	102.1
47.5°	2098.9	1195.0	664.9	430.2	289.0	197.7	152.1	143.4	128.2	113.0	99.9
50°	2209.7	1268.9	675.7	423.7	280.3	189.0	145.6	136.9	141.2	110.8	97.8
52.5°	2400.9	1386.2	693.1	419.3	271.6	182.5	136.9	132.5	143.4	110.8	95.6
55°	2650.7	1505.7	710.5	408.5	258.6	169.5	132.5	123.8	132.5	110.8	93.4
57.5°	2894.1	1594.8	725.7	393.3	236.8	156.4	126.0	117.3	121.7	108.6	89.1
60°	3035.3	1664.3	740.9	367.2	210.8	141.2	119.5	110.8	108.6	108.6	86.9
62.5°	3074.4	1638.2	732.2	334.6	189.0	130.4	113.0	104.3	97.8	110.8	86.9
65°	2950.6	1501.4	699.6	306.4	173.8	126.0	106.5	99.9	93.4	95.6	82.6
67.5°	2570.4	1262.4	610.5	280.3	171.6	123.8	102.1	95.6	86.9	84.7	78.2
70°	2096.7	990.8	506.2	260.7	169.5	123.8	97.8	89.1	82.6	76.0	71.7
72.5°	1612.2	740.9	425.9	252.0	171.6	121.7	91.3	80.4	73.9	69.5	65.2
75°	1134.2	523.6	354.2	226.0	160.8	115.2	84.7	71.7	65.2	60.8	56.5
77.5°	821.3	356.3	262.9	182.5	136.9	99.9	73.9	60.8	54.3	52.1	47.8
80°	523.6	219.4	176.0	134.7	99.9	78.2	56.5	47.8	43.5	39.1	36.9
82.5°	302.0	128.2	106.5	91.3	65.2	52.1	41.3	36.9	28.2	26.1	23.9
85°	184.7	80.4	58.7	47.8	41.3	32.6	23.9	21.7	15.2	13.0	10.9
87.5°	41.3	17.4	15.2	10.9	13.0	10.9	6.5	4.3	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°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7
2.5°	1351.4	1318.9	1321.0	1314.5	1297.1	1268.9	1260.2	1245.0	1247.2	1255.8	1247.2
5°	1103.8	1064.6	1069.0	1066.8	1049.4	1029.9	1014.7	995.1	988.6	995.1	984.3
7.5°	782.2	756.1	764.8	784.4	782.2	771.3	758.3	736.6	732.2	734.4	714.8
10°	597.5	571.4	564.9	562.7	558.4	551.9	534.5	517.1	510.6	512.8	499.7
12.5°	499.7	478.0	451.9	428.0	406.3	397.6	375.9	365.0	362.8	362.8	356.3
15°	395.4	378.1	362.8	338.9	321.6	308.5	293.3	284.6	282.5	284.6	284.6
17.5°	295.5	286.8	280.3	278.1	269.4	260.7	252.0	247.7	245.5	245.5	247.7
20°	226.0	223.8	223.8	223.8	234.7	243.3	245.5	239.0	236.8	234.7	232.5
22.5°	195.5	193.4	195.5	208.6	202.1	195.5	195.5	195.5	195.5	195.5	197.7
25°	180.3	182.5	184.7	178.2	171.6	167.3	165.1	165.1	163.0	163.0	165.1
27.5°	171.6	169.5	167.3	163.0	158.6	152.1	149.9	147.7	147.7	147.7	147.7
30°	160.8	158.6	156.4	152.1	145.6	136.9	134.7	134.7	132.5	134.7	134.7
32.5°	147.7	145.6	143.4	139.1	132.5	128.2	126.0	121.7	121.7	121.7	123.8
35°	119.5	117.3	117.3	119.5	119.5	117.3	117.3	113.0	113.0	113.0	113.0
37.5°	110.8	108.6	108.6	106.5	108.6	110.8	108.6	106.5	106.5	104.3	104.3
40°	104.3	104.3	102.1	99.9	99.9	104.3	102.1	99.9	97.8	97.8	97.8
42.5°	99.9	97.8	97.8	95.6	95.6	95.6	93.4	91.3	89.1	89.1	89.1
45°	95.6	95.6	93.4	91.3	89.1	89.1	84.7	82.6	82.6	82.6	84.7
47.5°	93.4	91.3	91.3	89.1	86.9	82.6	80.4	78.2	78.2	78.2	78.2
50°	91.3	89.1	86.9	86.9	82.6	80.4	78.2	76.0	76.0	76.0	76.0
52.5°	89.1	86.9	84.7	82.6	80.4	78.2	76.0	73.9	73.9	73.9	73.9
55°	84.7	82.6	82.6	80.4	80.4	78.2	76.0	73.9	73.9	73.9	71.7
57.5°	82.6	80.4	78.2	78.2	78.2	76.0	73.9	71.7	71.7	71.7	71.7
60°	80.4	78.2	78.2	76.0	76.0	73.9	73.9	71.7	69.5	69.5	67.4
62.5°	78.2	76.0	76.0	73.9	76.0	73.9	71.7	69.5	67.4	67.4	65.2
65°	76.0	73.9	73.9	73.9	71.7	71.7	69.5	65.2	65.2	65.2	63.0
67.5°	71.7	69.5	69.5	71.7	69.5	67.4	67.4	63.0	63.0	60.8	60.8
70°	65.2	65.2	65.2	67.4	65.2	63.0	63.0	60.8	58.7	56.5	56.5
72.5°	60.8	58.7	60.8	60.8	60.8	58.7	60.8	56.5	54.3	52.1	52.1
75°	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	50.0	47.8	45.6
77.5°	41.3	43.5	43.5	43.5	43.5	45.6	43.5	43.5	43.5	41.3	39.1
80°	30.4	30.4	32.6	34.8	32.6	34.8	32.6	34.8	32.6	32.6	32.6
82.5°	17.4	17.4	19.6	21.7	21.7	23.9	19.6	21.7	21.7	23.9	21.7
85°	6.5	6.5	6.5	6.5	8.7	8.7	6.5	8.7	8.7	10.9	10.9
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°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7
2.5°	1264.5	1264.5	1238.5	1242.8	1247.2	1255.8	1251.5	1249.3	1247.2	1260.2	1266.7
5°	992.9	990.8	958.2	956.0	962.5	964.7	958.2	947.3	940.8	943.0	949.5
7.5°	721.4	714.8	684.4	680.1	677.9	680.1	673.5	662.7	654.0	656.2	662.7
10°	504.1	486.7	482.3	484.5	488.9	493.2	493.2	493.2	495.4	508.4	523.6
12.5°	365.0	358.5	362.8	367.2	375.9	382.4	388.9	391.1	393.3	410.6	423.7
15°	289.0	289.0	293.3	295.5	299.8	304.2	308.5	308.5	310.7	317.2	328.1
17.5°	249.9	249.9	249.9	249.9	249.9	247.7	245.5	241.2	239.0	236.8	239.0
20°	230.3	228.1	223.8	221.6	217.3	212.9	210.8	204.2	202.1	195.5	193.4
22.5°	197.7	195.5	195.5	195.5	195.5	193.4	191.2	189.0	184.7	178.2	173.8
25°	163.0	163.0	163.0	165.1	165.1	167.3	171.6	171.6	171.6	171.6	165.1
27.5°	147.7	147.7	147.7	147.7	149.9	149.9	152.1	152.1	152.1	154.3	156.4
30°	134.7	136.9	136.9	139.1	139.1	141.2	141.2	143.4	143.4	145.6	145.6
32.5°	123.8	123.8	126.0	128.2	128.2	128.2	132.5	132.5	130.4	132.5	132.5
35°	110.8	110.8	110.8	110.8	110.8	110.8	110.8	110.8	106.5	104.3	106.5
37.5°	102.1	99.9	99.9	97.8	95.6	95.6	95.6	97.8	95.6	97.8	97.8
40°	93.4	93.4	91.3	91.3	91.3	91.3	91.3	91.3	91.3	93.4	95.6
42.5°	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	89.1	89.1
45°	82.6	82.6	82.6	82.6	84.7	84.7	84.7	84.7	84.7	84.7	86.9
47.5°	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	82.6	84.7
50°	76.0	76.0	78.2	78.2	78.2	78.2	78.2	78.2	78.2	80.4	82.6
52.5°	73.9	73.9	73.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	78.2
55°	71.7	73.9	73.9	73.9	73.9	73.9	71.7	71.7	71.7	71.7	73.9
57.5°	69.5	69.5	71.7	71.7	71.7	69.5	69.5	67.4	67.4	67.4	71.7
60°	67.4	67.4	67.4	67.4	67.4	65.2	65.2	65.2	65.2	67.4	67.4
62.5°	65.2	65.2	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
65°	63.0	63.0	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
67.5°	58.7	58.7	58.7	56.5	56.5	56.5	56.5	58.7	56.5	56.5	56.5
70°	54.3	54.3	54.3	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
72.5°	50.0	50.0	50.0	50.0	47.8	47.8	47.8	47.8	47.8	47.8	47.8
75°	45.6	43.5	43.5	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
77.5°	39.1	36.9	36.9	36.9	34.8	34.8	34.8	34.8	34.8	34.8	34.8
80°	32.6	30.4	30.4	28.2	28.2	28.2	28.2	28.2	28.2	26.1	26.1
82.5°	23.9	21.7	21.7	21.7	21.7	19.6	19.6	19.6	19.6	17.4	15.2
85°	10.9	10.9	8.7	10.9	10.9	13.0	10.9	10.9	10.9	8.7	4.3
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°	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	0°
2.5°	1262.4	1284.1	1286.3	1273.2	1299.3	1303.6	1297.1	1297.1	1301.5	1318.9	1318.9	2.5°
5°	940.8	969.0	966.9	949.5	984.3	995.1	988.6	990.8	999.5	1019.0	1029.9	5°
7.5°	664.9	688.8	686.6	684.4	706.1	714.8	719.2	725.7	751.8	753.9	767.0	7.5°
10°	538.8	560.6	567.1	582.3	588.8	601.8	610.5	621.4	643.1	654.0	669.2	10°
12.5°	436.7	462.8	469.3	486.7	495.4	510.6	519.3	541.0	554.0	567.1	586.6	12.5°
15°	336.8	358.5	365.0	378.1	386.7	404.1	412.8	425.9	451.9	465.0	491.0	15°
17.5°	247.7	260.7	265.1	273.8	280.3	286.8	304.2	325.9	341.1	362.8	375.9	17.5°
20°	193.4	197.7	199.9	202.1	206.4	210.8	219.4	234.7	243.3	260.7	273.8	20°
22.5°	173.8	176.0	176.0	178.2	178.2	180.3	184.7	189.0	193.4	199.9	206.4	22.5°
25°	160.8	163.0	163.0	165.1	165.1	167.3	169.5	171.6	176.0	178.2	180.3	25°
27.5°	154.3	154.3	154.3	154.3	156.4	156.4	158.6	163.0	163.0	167.3	169.5	27.5°
30°	147.7	147.7	147.7	149.9	152.1	156.4	160.8	167.3	169.5	173.8	176.0	30°
32.5°	136.9	132.5	136.9	134.7	130.4	130.4	132.5	136.9	136.9	139.1	141.2	32.5°
35°	106.5	106.5	108.6	110.8	110.8	113.0	115.2	117.3	119.5	123.8	126.0	35°
37.5°	99.9	102.1	102.1	104.3	106.5	106.5	108.6	113.0	115.2	117.3	119.5	37.5°
40°	95.6	97.8	99.9	102.1	102.1	104.3	106.5	108.6	110.8	115.2	117.3	40°
42.5°	91.3	95.6	95.6	97.8	99.9	102.1	104.3	106.5	110.8	113.0	115.2	42.5°
45°	89.1	91.3	93.4	95.6	97.8	99.9	102.1	106.5	108.6	113.0	115.2	45°
47.5°	86.9	89.1	91.3	93.4	95.6	97.8	99.9	104.3	108.6	113.0	117.3	47.5°
50°	82.6	86.9	89.1	91.3	93.4	95.6	99.9	104.3	108.6	115.2	126.0	50°
52.5°	80.4	84.7	84.7	89.1	91.3	95.6	99.9	104.3	110.8	119.5	130.4	52.5°
55°	76.0	80.4	80.4	84.7	89.1	93.4	95.6	102.1	108.6	117.3	119.5	55°
57.5°	71.7	76.0	78.2	80.4	84.7	89.1	91.3	97.8	106.5	108.6	106.5	57.5°
60°	69.5	71.7	73.9	76.0	80.4	82.6	89.1	102.1	110.8	102.1	91.3	60°
62.5°	65.2	69.5	71.7	73.9	78.2	80.4	84.7	93.4	95.6	84.7	82.6	62.5°
65°	63.0	67.4	67.4	71.7	73.9	73.9	76.0	76.0	76.0	76.0	76.0	65°
67.5°	58.7	63.0	63.0	65.2	67.4	67.4	69.5	69.5	69.5	69.5	69.5	67.5°
70°	54.3	56.5	58.7	60.8	60.8	60.8	63.0	63.0	63.0	65.2	65.2	70°
72.5°	50.0	52.1	52.1	54.3	54.3	56.5	56.5	58.7	58.7	58.7	60.8	72.5°
75°	41.3	43.5	45.6	47.8	47.8	50.0	50.0	50.0	50.0	52.1	52.1	75°
77.5°	34.8	34.8	39.1	39.1	41.3	41.3	43.5	43.5	43.5	43.5	43.5	77.5°
80°	26.1	26.1	28.2	30.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	80°
82.5°	15.2	15.2	17.4	17.4	19.6	19.6	21.7	19.6	19.6	17.4	17.4	82.5°
85°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	2.2	2.2	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°
1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	1518.7	0°	1518.7
1351.4	1351.4	1355.8	1373.2	1377.5	1388.4	1386.2	1405.8	1414.5	1466.6	1520.9	2.5°	1573.1
1069.0	1077.7	1090.7	1112.4	1125.5	1149.4	1145.0	1184.1	1190.7	1286.3	1379.7	5°	1488.3
797.4	810.4	821.3	845.2	864.8	888.7	895.2	940.8	953.8	1079.9	1210.2	7.5°	1360.1
690.9	701.8	717.0	732.2	751.8	762.6	780.0	801.7	817.0	910.4	1060.3	10°	1231.9
614.9	630.1	645.3	667.0	686.6	706.1	723.5	745.3	764.8	840.9	958.2	12.5°	1155.9
521.5	538.8	556.2	580.1	608.4	627.9	647.5	671.4	695.3	788.7	925.6	15°	1125.5
404.1	423.7	447.6	480.2	510.6	534.5	554.0	586.6	617.1	730.0	910.4	17.5°	1155.9
297.7	315.0	336.8	365.0	386.7	428.0	449.8	488.9	525.8	667.0	888.7	20°	1214.6
219.4	230.3	247.7	269.4	293.3	330.3	354.2	388.9	430.2	608.4	888.7	22.5°	1314.5
184.7	189.0	195.5	208.6	223.8	249.9	273.8	308.5	349.8	556.2	912.6	25°	1477.5
171.6	173.8	178.2	184.7	193.4	206.4	223.8	252.0	293.3	514.9	947.3	27.5°	1651.3
180.3	180.3	180.3	182.5	186.9	193.4	202.1	219.4	245.5	454.1	971.2	30°	1803.4
145.6	147.7	147.7	152.1	154.3	163.0	171.6	184.7	208.6	417.2	986.4	32.5°	1912.0
130.4	132.5	134.7	136.9	141.2	143.4	152.1	167.3	191.2	393.3	984.3	35°	2040.2
123.8	126.0	128.2	128.2	130.4	134.7	141.2	156.4	184.7	384.6	984.3	37.5°	2188.0
121.7	121.7	121.7	121.7	126.0	130.4	141.2	156.4	180.3	375.9	990.8	40°	2350.9
117.3	117.3	117.3	119.5	126.0	134.7	139.1	147.7	167.3	371.5	1001.6	42.5°	2498.7
117.3	117.3	119.5	128.2	130.4	130.4	132.5	139.1	158.6	371.5	1023.4	45°	2613.8
121.7	126.0	128.2	126.0	123.8	123.8	123.8	132.5	152.1	378.1	1064.6	47.5°	2746.3
132.5	130.4	121.7	119.5	119.5	115.2	117.3	126.0	149.9	378.1	1149.4	50°	2928.9
130.4	121.7	119.5	115.2	110.8	108.6	110.8	123.8	147.7	373.7	1271.1	52.5°	3196.1
117.3	115.2	108.6	104.3	102.1	104.3	108.6	119.5	143.4	369.4	1421.0	55°	3519.8
102.1	99.9	95.6	95.6	97.8	99.9	106.5	115.2	132.5	358.5	1540.5	57.5°	3817.5
89.1	89.1	89.1	91.3	93.4	95.6	102.1	108.6	121.7	338.9	1620.9	60°	4008.7
80.4	82.6	82.6	86.9	89.1	91.3	95.6	102.1	110.8	317.2	1638.2	62.5°	4010.9
76.0	78.2	80.4	80.4	82.6	84.7	91.3	97.8	110.8	299.8	1531.8	65°	3852.3
71.7	71.7	73.9	76.0	78.2	80.4	84.7	95.6	113.0	284.6	1299.3	67.5°	3450.3
65.2	67.4	69.5	71.7	71.7	73.9	80.4	95.6	115.2	278.1	1032.1	70°	2913.6
60.8	60.8	63.0	65.2	65.2	69.5	76.0	93.4	117.3	267.2	777.8	72.5°	2272.7
52.1	54.3	54.3	54.3	56.5	60.8	69.5	84.7	102.1	221.6	525.8	75°	1540.5
45.6	43.5	45.6	45.6	47.8	50.0	56.5	65.2	76.0	141.2	278.1	77.5°	979.9
32.6	30.4	30.4	32.6	32.6	32.6	36.9	39.1	43.5	86.9	154.3	80°	577.9
17.4	15.2	17.4	15.2	15.2	17.4	17.4	21.7	21.7	41.3	69.5	82.5°	358.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	15.2	85°	145.6
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°
1518.7	1518.7
1599.1	1612.2
1542.6	1560.0
1421.0	1444.9
1308.0	1331.9
1247.2	1260.2
1218.9	1245.0
1260.2	1286.3
1342.8	1384.0
1488.3	1540.5
1718.6	1764.3
1901.1	1972.8
2070.6	2129.3
2205.3	2272.7
2359.6	2424.8
2546.5	2635.5
2739.8	2839.8
2920.2	3031.0
3089.6	3176.5
3220.0	3317.8
3385.1	3500.3
3665.4	3748.0
4004.4	4097.8
4319.4	4399.8
4465.0	4532.3
4469.3	4554.1
4373.7	4469.3
4130.4	4278.1
3652.4	3817.5
2870.2	3059.2
1905.5	2070.6
1099.4	1153.7
649.6	677.9
386.7	415.0
104.3	113.0
0.0	0.0
0.0	0.0

(END OF REPORT)