

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: P228478

Luminaire Tested: **ISS-AF-800-LED-E1-SLL-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228478  
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-800-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**

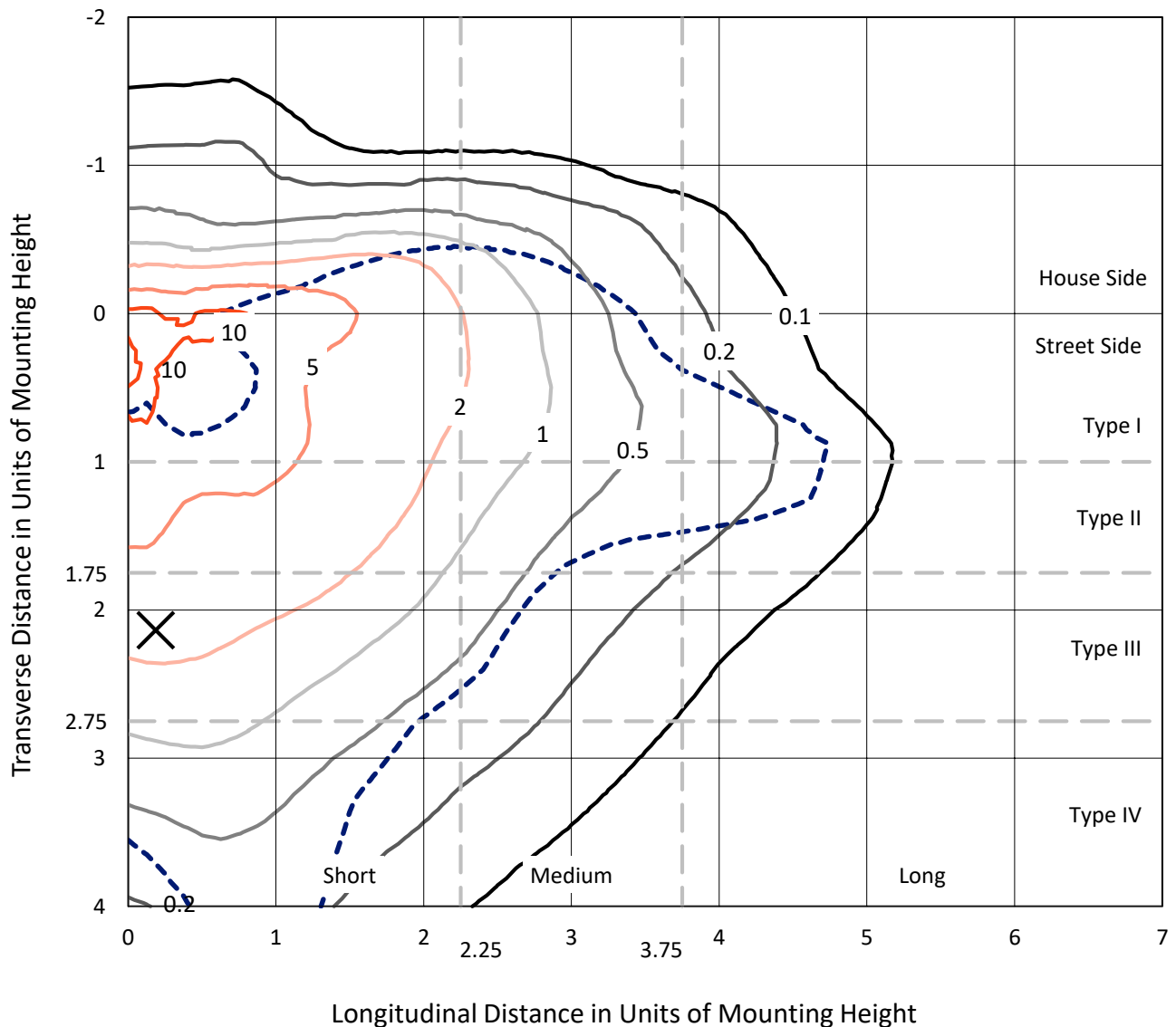
Lumens per Lamp: N/A  
Luminaire Lumens: 4080 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 43.5  
Input Voltage (V): 120  
Input Current (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

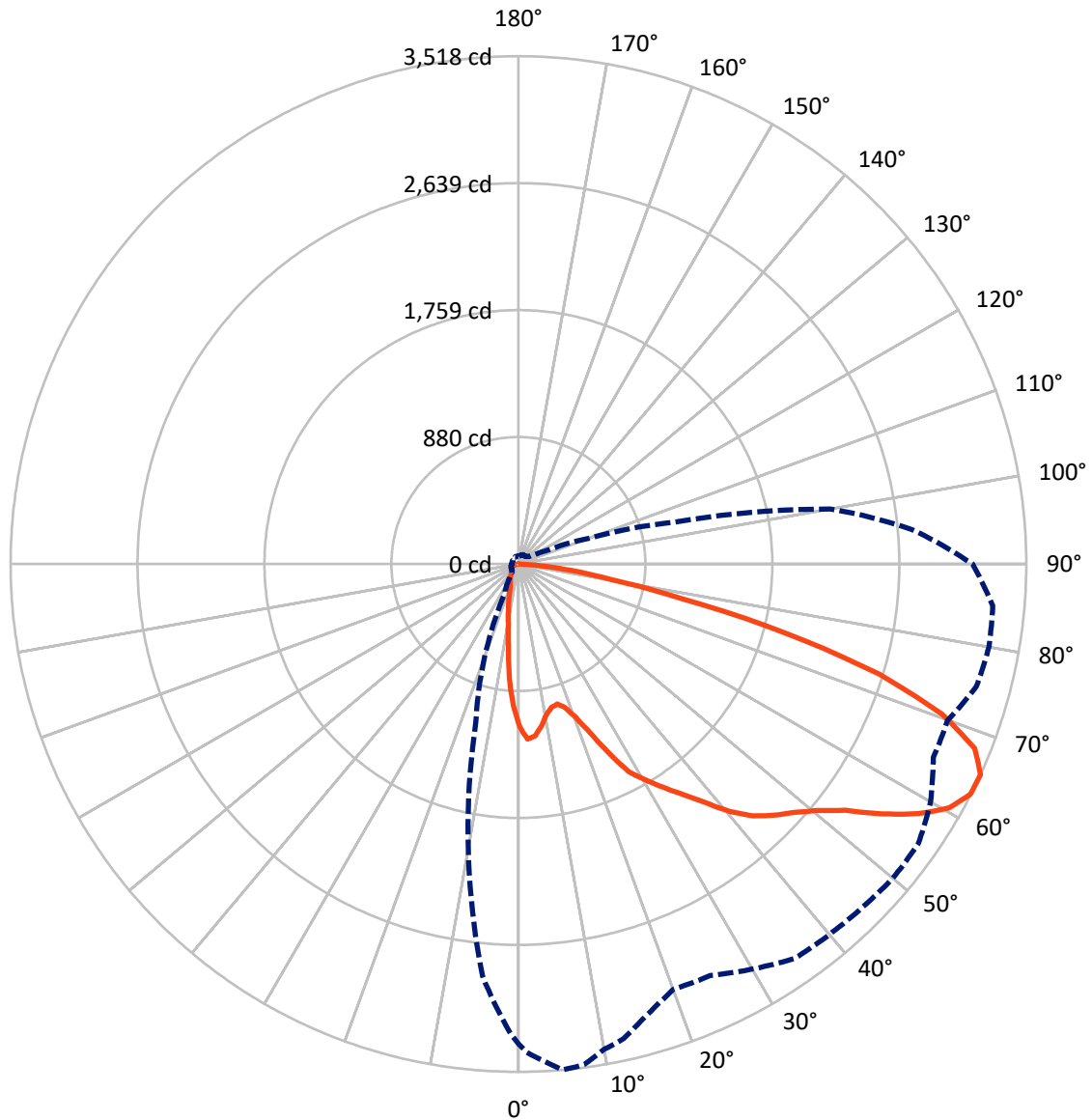
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.3 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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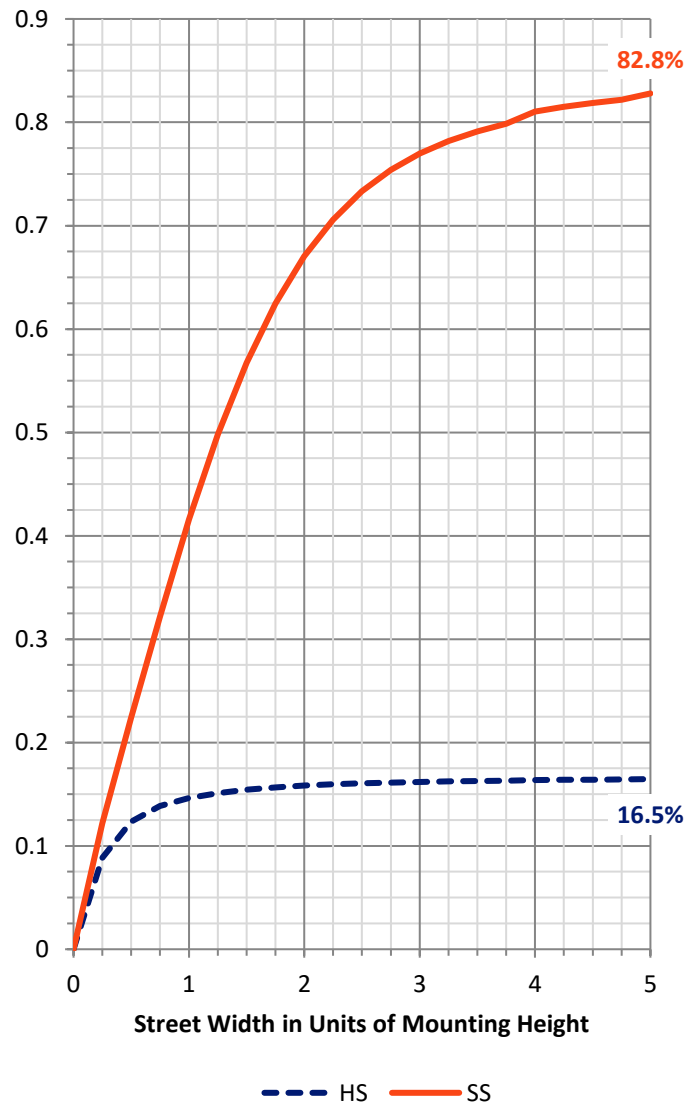
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	678.4	0.0	678.4
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	3401.6	0.0	3401.6
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	4080.0	0.0	4080.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.7	2.1
10°-20°	178.7	4.4
20°-30°	259.7	6.4
30°-40°	384.1	9.4
40°-50°	559.6	13.7
50°-60°	838.9	20.6
60°-70°	1045.4	25.6
70°-80°	612.4	15.0
80°-90°	114.5	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°	4080.0	100.0
0°-180°	4080.0	100.0



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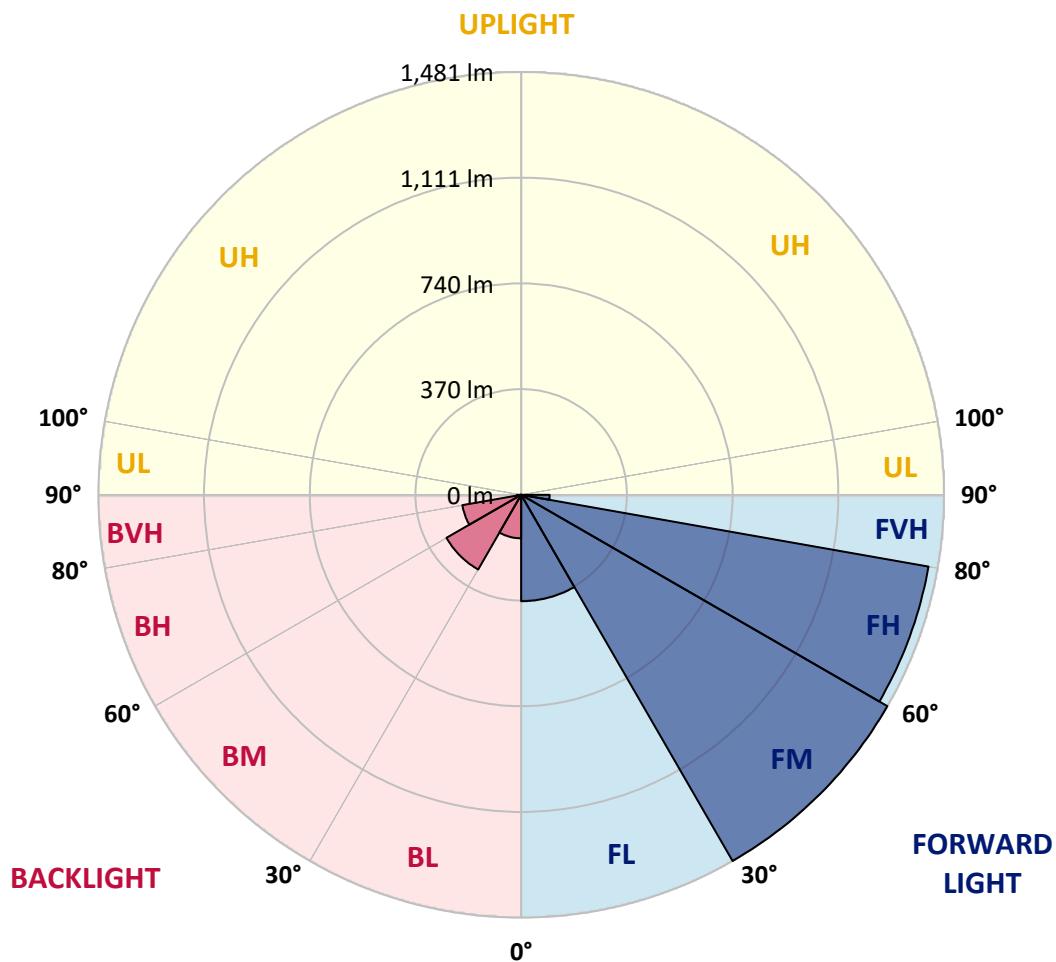
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	372.7	9.1			
FM	(30°-60°)	1480.7	36.3			
FH	(60°-80°)	1448.4	35.5			G1/1800
FVH	(80°-90°)	99.8	2.4			G1/100
BL	(0°-30°)	152.3	3.7	B1/500		
BM	(30°-60°)	301.9	7.4	B1/1000		
BH	(60°-80°)	209.4	5.1	B1/500		G1/500
BVH	(80°-90°)	14.8	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-G1**

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°	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1
2.5°	1198.6	1195.3	1214.7	1217.9	1230.9	1230.9	1245.4	1258.3	1263.2	1274.5	1303.6
5°	1159.8	1169.5	1196.9	1224.4	1243.8	1263.2	1284.2	1310.0	1331.0	1366.5	1440.9
7.5°	1074.2	1088.7	1135.6	1163.0	1193.7	1227.6	1253.5	1284.2	1316.5	1376.2	1508.7
10°	990.2	1001.5	1061.3	1095.2	1138.8	1174.3	1211.5	1245.4	1280.9	1355.2	1508.7
12.5°	936.9	951.4	1019.3	1051.6	1101.6	1138.8	1184.0	1224.4	1266.4	1345.5	1494.2
15°	925.6	941.7	1006.3	1046.7	1090.3	1125.9	1166.2	1208.2	1250.2	1327.8	1460.2
17.5°	956.3	975.6	1045.1	1090.3	1124.3	1164.6	1193.7	1234.1	1261.6	1322.9	1385.9
20°	1028.9	1051.6	1133.9	1177.6	1205.0	1230.9	1253.5	1277.7	1289.0	1303.6	1292.2
22.5°	1145.3	1172.7	1266.4	1316.5	1335.9	1355.2	1356.9	1360.1	1352.0	1313.2	1226.0
25°	1311.6	1339.1	1445.7	1494.2	1494.2	1494.2	1476.4	1463.5	1426.3	1353.6	1208.2
27.5°	1466.7	1502.2	1629.8	1660.5	1650.8	1636.3	1602.4	1570.1	1516.8	1395.6	1206.6
30°	1583.0	1618.5	1736.5	1760.7	1736.5	1700.9	1647.6	1600.8	1537.8	1416.6	1217.9
32.5°	1689.6	1731.6	1844.7	1847.9	1804.3	1763.9	1704.1	1650.8	1584.6	1455.4	1251.9
35°	1802.7	1844.7	1959.4	1936.7	1873.8	1818.8	1757.5	1710.6	1644.4	1505.5	1306.8
37.5°	1959.4	1996.5	2093.4	2040.1	1959.4	1888.3	1822.1	1760.7	1694.5	1573.3	1398.9
40°	2111.2	2164.5	2253.3	2167.7	2069.2	1973.9	1901.2	1836.6	1763.9	1665.4	1516.8
42.5°	2253.3	2303.4	2385.8	2276.0	2161.3	2066.0	1990.1	1920.6	1851.1	1770.4	1658.9
45°	2361.6	2413.3	2482.7	2366.4	2235.6	2137.0	2054.7	1993.3	1931.9	1877.0	1838.2
47.5°	2466.6	2518.3	2571.6	2445.6	2316.3	2216.2	2119.3	2062.7	2014.3	1985.2	2032.1
50°	2602.3	2637.8	2683.0	2547.3	2410.0	2295.3	2198.4	2154.8	2109.6	2119.3	2276.0
52.5°	2786.4	2817.1	2833.2	2700.8	2547.3	2416.5	2309.9	2250.1	2213.0	2269.5	2534.4
55°	3046.5	3090.1	3054.5	2923.7	2729.9	2581.3	2450.4	2379.3	2356.7	2432.6	2792.9
57.5°	3271.0	3290.4	3264.5	3135.3	2936.6	2770.2	2631.3	2557.0	2531.2	2631.3	3028.7
60°	3369.5	3393.8	3429.3	3317.8	3132.1	2967.3	2847.8	2775.1	2731.5	2847.8	3217.7
62.5°	3385.7	3426.1	3513.3	3456.7	3309.8	3187.0	3078.8	2978.6	2944.7	3033.5	3342.1
65°	3322.7	3384.1	3518.1	3497.1	3414.8	3367.9	3277.5	3199.9	3135.3	3145.0	3335.6
67.5°	3180.5	3251.6	3408.3	3398.6	3408.3	3408.3	3329.1	3264.5	3180.5	3061.0	3090.1
70°	2838.1	2931.8	3112.7	3159.5	3241.9	3241.9	3172.5	3073.9	2977.0	2731.5	2582.9
72.5°	2274.3	2337.3	2615.2	2842.9	2947.9	2905.9	2838.1	2673.3	2460.1	2190.4	1988.4
75°	1539.4	1576.5	1917.4	2334.1	2524.7	2489.2	2377.7	2172.6	1952.9	1652.5	1397.2
77.5°	857.7	906.2	1161.4	1487.7	1744.5	1739.7	1725.1	1594.3	1419.9	1171.1	1038.6
80°	504.0	520.1	654.2	891.6	1112.9	1059.6	1022.5	919.1	830.3	717.2	819.0
82.5°	308.5	292.4	371.5	542.7	657.4	634.8	571.8	533.1	491.1	460.4	544.4
85°	84.0	75.9	151.8	227.8	279.4	302.1	302.1	298.8	268.1	201.9	242.3
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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**CANDELA DISTRIBUTION (continued):**

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
0°	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1
2.5°	1314.9	1316.5	1311.6	1322.9	1310.0	1303.6	1284.2	1284.2	1268.0	1255.1	1240.6
5°	1468.3	1478.0	1469.9	1471.5	1445.7	1419.9	1381.1	1358.5	1318.1	1274.5	1229.2
7.5°	1571.7	1587.8	1581.4	1553.9	1513.5	1458.6	1394.0	1332.6	1266.4	1195.3	1129.1
10°	1599.2	1616.9	1602.4	1550.7	1484.5	1406.9	1329.4	1247.0	1166.2	1090.3	1019.3
12.5°	1560.4	1573.3	1542.6	1486.1	1421.5	1343.9	1263.2	1192.1	1096.8	1016.0	933.6
15°	1461.8	1453.8	1450.5	1410.2	1364.9	1301.9	1226.0	1153.3	1064.5	982.1	894.9
17.5°	1355.2	1345.5	1348.8	1332.6	1326.2	1297.1	1240.6	1179.2	1100.0	999.9	906.2
20°	1261.6	1251.9	1256.7	1264.8	1289.0	1290.6	1280.9	1240.6	1182.4	1077.4	962.7
22.5°	1180.8	1182.4	1198.6	1221.2	1261.6	1313.2	1353.6	1361.7	1321.3	1198.6	1054.8
25°	1156.6	1148.5	1166.2	1203.4	1271.2	1371.4	1461.8	1507.1	1484.5	1361.7	1185.6
27.5°	1148.5	1137.2	1156.6	1205.0	1313.2	1453.8	1583.0	1650.8	1658.9	1532.9	1326.2
30°	1148.5	1143.6	1163.0	1226.0	1340.7	1481.2	1625.0	1726.8	1759.1	1654.1	1448.9
32.5°	1163.0	1166.2	1200.2	1280.9	1398.9	1542.6	1691.2	1801.1	1859.2	1780.1	1547.5
35°	1195.3	1201.8	1250.2	1343.9	1471.5	1616.9	1752.6	1864.1	1957.7	1915.8	1639.5
37.5°	1264.8	1274.5	1334.2	1429.5	1545.8	1676.7	1809.1	1928.7	2064.4	2046.6	1736.5
40°	1387.5	1387.5	1447.3	1529.7	1625.0	1725.1	1856.0	1996.5	2162.9	2187.1	1856.0
42.5°	1542.6	1536.2	1574.9	1634.7	1700.9	1784.9	1902.8	2059.5	2255.0	2308.3	1946.4
45°	1755.8	1723.5	1744.5	1759.1	1791.4	1843.1	1948.1	2119.3	2329.3	2398.7	2014.3
47.5°	2006.2	1961.0	1943.2	1915.8	1904.4	1923.8	2014.3	2166.1	2400.3	2476.3	2124.1
50°	2282.4	2238.8	2192.0	2117.7	2053.1	2033.7	2088.6	2229.1	2476.3	2573.2	2245.3
52.5°	2569.9	2539.3	2477.9	2361.6	2238.8	2169.4	2195.2	2334.1	2597.4	2723.4	2389.0
55°	2833.2	2842.9	2768.6	2632.9	2456.9	2350.3	2381.0	2519.9	2817.1	2965.7	2629.7
57.5°	3115.9	3090.1	3031.9	2891.4	2699.2	2584.5	2597.4	2765.4	3062.6	3175.7	2868.8
60°	3303.3	3303.3	3240.3	3133.7	2951.2	2844.5	2863.9	3019.0	3259.7	3271.0	2975.4
62.5°	3424.4	3442.2	3392.1	3316.2	3138.5	3049.7	3115.9	3225.8	3356.6	3262.9	2922.1
65°	3366.3	3385.7	3380.8	3296.8	3170.8	3164.4	3283.9	3309.8	3298.4	3145.0	2737.9
67.5°	3103.0	3064.2	3062.6	3019.0	2993.2	3127.2	3279.1	3287.1	3096.5	2914.0	2447.2
70°	2602.3	2536.0	2510.2	2523.1	2641.0	2891.4	3107.8	3046.5	2742.8	2586.1	2083.7
72.5°	2006.2	1927.1	1910.9	1961.0	2143.5	2495.6	2791.2	2705.6	2255.0	2072.4	1613.7
75°	1423.1	1389.2	1390.8	1489.3	1686.4	2025.6	2369.7	2361.6	1670.2	1429.5	1111.3
77.5°	1035.4	1041.9	1070.9	1109.7	1279.3	1607.2	1930.3	1909.3	1188.9	982.1	777.0
80°	854.5	864.2	864.2	843.2	886.8	1061.3	1311.6	1400.5	796.3	660.7	542.7
82.5°	613.8	662.3	689.7	655.8	639.7	699.4	822.2	880.3	495.9	416.7	379.6
85°	292.4	334.4	344.1	336.0	386.1	441.0	470.1	481.4	271.4	193.8	248.8
87.5°	0.0	0.0	1.6	12.9	35.5	61.4	61.4	93.7	14.5	4.8	11.3
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):**

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°
0°	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1
2.5°	1221.2	1200.2	1184.0	1164.6	1148.5	1132.3	1121.0	1096.8	1077.4	1033.8	1022.5
5°	1192.1	1146.9	1116.2	1087.1	1049.9	1024.1	996.6	962.7	925.6	862.6	843.2
7.5°	1077.4	1020.9	978.9	936.9	888.4	844.8	804.4	759.2	694.6	626.7	600.9
10°	953.0	893.3	835.1	785.0	726.9	678.4	642.9	610.6	558.9	507.2	473.3
12.5°	851.3	783.4	717.2	667.1	636.4	612.2	586.4	560.5	505.6	447.4	407.1
15°	804.4	725.3	667.1	625.1	597.7	568.6	537.9	508.8	444.2	376.4	327.9
17.5°	810.9	720.4	646.1	589.6	552.4	512.1	476.5	439.4	368.3	287.5	243.9
20°	846.4	725.3	623.5	557.3	504.0	452.3	407.1	360.2	273.0	210.0	179.3
22.5°	891.6	741.4	610.6	525.0	458.7	394.1	336.0	281.1	201.9	164.8	150.2
25°	969.2	778.6	607.4	495.9	415.1	337.6	277.8	219.7	163.1	145.4	137.3
27.5°	1066.1	820.6	610.6	474.9	378.0	292.4	226.1	182.5	147.0	137.3	130.8
30°	1163.0	864.2	596.0	442.6	334.4	250.4	193.8	166.4	145.4	134.1	122.8
32.5°	1248.6	896.5	571.8	408.7	295.6	213.2	164.8	142.1	127.6	114.7	111.5
35°	1310.0	911.0	544.4	387.7	269.8	190.6	145.4	127.6	113.1	100.1	93.7
37.5°	1368.2	912.6	515.3	368.3	260.1	180.9	134.1	117.9	105.0	93.7	87.2
40°	1427.9	906.2	499.1	348.9	245.5	176.1	129.2	109.8	101.8	88.8	82.4
42.5°	1471.5	894.9	492.7	337.6	232.6	163.1	126.0	108.2	96.9	87.2	79.1
45°	1511.9	883.6	492.7	327.9	222.9	155.1	119.5	109.8	93.7	85.6	75.9
47.5°	1560.4	888.4	494.3	319.8	214.8	147.0	113.1	106.6	95.3	84.0	74.3
50°	1642.8	943.3	502.4	315.0	208.4	140.5	108.2	101.8	105.0	82.4	72.7
52.5°	1784.9	1030.6	515.3	311.8	201.9	135.7	101.8	98.5	106.6	82.4	71.1
55°	1970.7	1119.4	528.2	303.7	192.2	126.0	98.5	92.1	98.5	82.4	69.5
57.5°	2151.6	1185.6	539.5	292.4	176.1	116.3	93.7	87.2	90.5	80.8	66.2
60°	2256.6	1237.3	550.8	273.0	156.7	105.0	88.8	82.4	80.8	80.8	64.6
62.5°	2285.7	1217.9	544.4	248.8	140.5	96.9	84.0	77.5	72.7	82.4	64.6
65°	2193.6	1116.2	520.1	227.8	129.2	93.7	79.1	74.3	69.5	71.1	61.4
67.5°	1910.9	938.5	453.9	208.4	127.6	92.1	75.9	71.1	64.6	63.0	58.2
70°	1558.8	736.6	376.4	193.8	126.0	92.1	72.7	66.2	61.4	56.5	53.3
72.5°	1198.6	550.8	316.6	187.4	127.6	90.5	67.8	59.8	54.9	51.7	48.5
75°	843.2	389.3	263.3	168.0	119.5	85.6	63.0	53.3	48.5	45.2	42.0
77.5°	610.6	264.9	195.5	135.7	101.8	74.3	54.9	45.2	40.4	38.8	35.5
80°	389.3	163.1	130.8	100.1	74.3	58.2	42.0	35.5	32.3	29.1	27.5
82.5°	224.5	95.3	79.1	67.8	48.5	38.8	30.7	27.5	21.0	19.4	17.8
85°	137.3	59.8	43.6	35.5	30.7	24.2	17.8	16.2	11.3	9.7	8.1
87.5°	30.7	12.9	11.3	8.1	9.7	8.1	4.8	3.2	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°	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1
2.5°	1004.7	980.5	982.1	977.3	964.3	943.3	936.9	925.6	927.2	933.6	927.2
5°	820.6	791.5	794.7	793.1	780.2	765.7	754.3	739.8	735.0	739.8	731.7
7.5°	581.5	562.1	568.6	583.1	581.5	573.4	563.7	547.6	544.4	546.0	531.4
10°	444.2	424.8	420.0	418.4	415.1	410.3	397.4	384.4	379.6	381.2	371.5
12.5°	371.5	355.4	336.0	318.2	302.1	295.6	279.4	271.4	269.8	269.8	264.9
15°	294.0	281.1	269.8	252.0	239.1	229.4	218.1	211.6	210.0	211.6	211.6
17.5°	219.7	213.2	208.4	206.8	200.3	193.8	187.4	184.1	182.5	182.5	184.1
20°	168.0	166.4	166.4	166.4	174.5	180.9	182.5	177.7	176.1	174.5	172.8
22.5°	145.4	143.8	145.4	155.1	150.2	145.4	145.4	145.4	145.4	145.4	147.0
25°	134.1	135.7	137.3	132.5	127.6	124.4	122.8	122.8	121.1	121.1	122.8
27.5°	127.6	126.0	124.4	121.1	117.9	113.1	111.5	109.8	109.8	109.8	109.8
30°	119.5	117.9	116.3	113.1	108.2	101.8	100.1	100.1	98.5	100.1	100.1
32.5°	109.8	108.2	106.6	103.4	98.5	95.3	93.7	90.5	90.5	90.5	92.1
35°	88.8	87.2	87.2	88.8	88.8	87.2	87.2	84.0	84.0	84.0	84.0
37.5°	82.4	80.8	80.8	79.1	80.8	82.4	80.8	79.1	79.1	77.5	77.5
40°	77.5	77.5	75.9	74.3	74.3	77.5	75.9	74.3	72.7	72.7	72.7
42.5°	74.3	72.7	72.7	71.1	71.1	71.1	69.5	67.8	66.2	66.2	66.2
45°	71.1	71.1	69.5	67.8	66.2	66.2	63.0	61.4	61.4	61.4	63.0
47.5°	69.5	67.8	67.8	66.2	64.6	61.4	59.8	58.2	58.2	58.2	58.2
50°	67.8	66.2	64.6	64.6	61.4	59.8	58.2	56.5	56.5	56.5	56.5
52.5°	66.2	64.6	63.0	61.4	59.8	58.2	56.5	54.9	54.9	54.9	54.9
55°	63.0	61.4	61.4	59.8	59.8	58.2	56.5	54.9	54.9	54.9	53.3
57.5°	61.4	59.8	58.2	58.2	58.2	56.5	54.9	53.3	53.3	53.3	53.3
60°	59.8	58.2	58.2	56.5	56.5	54.9	54.9	53.3	51.7	51.7	50.1
62.5°	58.2	56.5	56.5	54.9	56.5	54.9	53.3	51.7	50.1	50.1	48.5
65°	56.5	54.9	54.9	54.9	53.3	53.3	51.7	48.5	48.5	48.5	46.8
67.5°	53.3	51.7	51.7	53.3	51.7	50.1	50.1	46.8	46.8	45.2	45.2
70°	48.5	48.5	48.5	50.1	48.5	46.8	46.8	45.2	43.6	42.0	42.0
72.5°	45.2	43.6	45.2	45.2	45.2	43.6	45.2	42.0	40.4	38.8	38.8
75°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	37.2	35.5	33.9
77.5°	30.7	32.3	32.3	32.3	32.3	33.9	32.3	32.3	32.3	30.7	29.1
80°	22.6	22.6	24.2	25.8	24.2	25.8	24.2	25.8	24.2	24.2	24.2
82.5°	12.9	12.9	14.5	16.2	16.2	17.8	14.5	16.2	16.2	17.8	16.2
85°	4.8	4.8	4.8	4.8	6.5	6.5	4.8	6.5	6.5	8.1	8.1
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°	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1
2.5°	940.1	940.1	920.7	924.0	927.2	933.6	930.4	928.8	927.2	936.9	941.7
5°	738.2	736.6	712.3	710.7	715.6	717.2	712.3	704.3	699.4	701.0	705.9
7.5°	536.3	531.4	508.8	505.6	504.0	505.6	500.7	492.7	486.2	487.8	492.7
10°	374.8	361.8	358.6	360.2	363.4	366.7	366.7	366.7	368.3	378.0	389.3
12.5°	271.4	266.5	269.8	273.0	279.4	284.3	289.1	290.8	292.4	305.3	315.0
15°	214.8	214.8	218.1	219.7	222.9	226.1	229.4	229.4	231.0	235.8	243.9
17.5°	185.8	185.8	185.8	185.8	185.8	184.1	182.5	179.3	177.7	176.1	177.7
20°	171.2	169.6	166.4	164.8	161.5	158.3	156.7	151.8	150.2	145.4	143.8
22.5°	147.0	145.4	145.4	145.4	145.4	143.8	142.1	140.5	137.3	132.5	129.2
25°	121.1	121.1	121.1	122.8	122.8	124.4	127.6	127.6	127.6	127.6	122.8
27.5°	109.8	109.8	109.8	109.8	111.5	111.5	113.1	113.1	113.1	114.7	116.3
30°	100.1	101.8	101.8	103.4	103.4	105.0	105.0	106.6	106.6	108.2	108.2
32.5°	92.1	92.1	93.7	95.3	95.3	95.3	98.5	98.5	96.9	98.5	98.5
35°	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	79.1	77.5	79.1
37.5°	75.9	74.3	74.3	72.7	71.1	71.1	71.1	72.7	71.1	72.7	72.7
40°	69.5	69.5	67.8	67.8	67.8	67.8	67.8	67.8	67.8	69.5	71.1
42.5°	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	66.2	66.2
45°	61.4	61.4	61.4	61.4	63.0	63.0	63.0	63.0	63.0	63.0	64.6
47.5°	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	61.4	63.0
50°	56.5	56.5	58.2	58.2	58.2	58.2	58.2	58.2	58.2	59.8	61.4
52.5°	54.9	54.9	54.9	56.5	56.5	56.5	56.5	56.5	56.5	56.5	58.2
55°	53.3	54.9	54.9	54.9	54.9	54.9	53.3	53.3	53.3	53.3	54.9
57.5°	51.7	51.7	53.3	53.3	53.3	51.7	51.7	50.1	50.1	50.1	53.3
60°	50.1	50.1	50.1	50.1	50.1	48.5	48.5	48.5	48.5	50.1	50.1
62.5°	48.5	48.5	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
65°	46.8	46.8	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
67.5°	43.6	43.6	43.6	42.0	42.0	42.0	42.0	43.6	42.0	42.0	42.0
70°	40.4	40.4	40.4	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
72.5°	37.2	37.2	37.2	37.2	35.5	35.5	35.5	35.5	35.5	35.5	35.5
75°	33.9	32.3	32.3	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
77.5°	29.1	27.5	27.5	27.5	25.8	25.8	25.8	25.8	25.8	25.8	25.8
80°	24.2	22.6	22.6	21.0	21.0	21.0	21.0	21.0	21.0	19.4	19.4
82.5°	17.8	16.2	16.2	16.2	16.2	14.5	14.5	14.5	14.5	12.9	11.3
85°	8.1	8.1	6.5	8.1	8.1	9.7	8.1	8.1	8.1	6.5	3.2
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°	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	0°
2.5°	938.5	954.6	956.3	946.6	966.0	969.2	964.3	964.3	967.6	980.5	980.5	2.5°
5°	699.4	720.4	718.8	705.9	731.7	739.8	735.0	736.6	743.0	757.6	765.7	5°
7.5°	494.3	512.1	510.4	508.8	525.0	531.4	534.7	539.5	558.9	560.5	570.2	7.5°
10°	400.6	416.7	421.6	432.9	437.7	447.4	453.9	462.0	478.1	486.2	497.5	10°
12.5°	324.7	344.1	348.9	361.8	368.3	379.6	386.1	402.2	411.9	421.6	436.1	12.5°
15°	250.4	266.5	271.4	281.1	287.5	300.4	306.9	316.6	336.0	345.7	365.1	15°
17.5°	184.1	193.8	197.1	203.5	208.4	213.2	226.1	242.3	253.6	269.8	279.4	17.5°
20°	143.8	147.0	148.6	150.2	153.5	156.7	163.1	174.5	180.9	193.8	203.5	20°
22.5°	129.2	130.8	130.8	132.5	132.5	134.1	137.3	140.5	143.8	148.6	153.5	22.5°
25°	119.5	121.1	121.1	122.8	122.8	124.4	126.0	127.6	130.8	132.5	134.1	25°
27.5°	114.7	114.7	114.7	114.7	116.3	116.3	117.9	121.1	121.1	124.4	126.0	27.5°
30°	109.8	109.8	109.8	111.5	113.1	116.3	119.5	124.4	126.0	129.2	130.8	30°
32.5°	101.8	98.5	101.8	100.1	96.9	96.9	98.5	101.8	101.8	103.4	105.0	32.5°
35°	79.1	79.1	80.8	82.4	82.4	84.0	85.6	87.2	88.8	92.1	93.7	35°
37.5°	74.3	75.9	75.9	77.5	79.1	79.1	80.8	84.0	85.6	87.2	88.8	37.5°
40°	71.1	72.7	74.3	75.9	75.9	77.5	79.1	80.8	82.4	85.6	87.2	40°
42.5°	67.8	71.1	71.1	72.7	74.3	75.9	77.5	79.1	82.4	84.0	85.6	42.5°
45°	66.2	67.8	69.5	71.1	72.7	74.3	75.9	79.1	80.8	84.0	85.6	45°
47.5°	64.6	66.2	67.8	69.5	71.1	72.7	74.3	77.5	80.8	84.0	87.2	47.5°
50°	61.4	64.6	66.2	67.8	69.5	71.1	74.3	77.5	80.8	85.6	93.7	50°
52.5°	59.8	63.0	63.0	66.2	67.8	71.1	74.3	77.5	82.4	88.8	96.9	52.5°
55°	56.5	59.8	59.8	63.0	66.2	69.5	71.1	75.9	80.8	87.2	88.8	55°
57.5°	53.3	56.5	58.2	59.8	63.0	66.2	67.8	72.7	79.1	80.8	79.1	57.5°
60°	51.7	53.3	54.9	56.5	59.8	61.4	66.2	75.9	82.4	75.9	67.8	60°
62.5°	48.5	51.7	53.3	54.9	58.2	59.8	63.0	69.5	71.1	63.0	61.4	62.5°
65°	46.8	50.1	50.1	53.3	54.9	54.9	56.5	56.5	56.5	56.5	56.5	65°
67.5°	43.6	46.8	46.8	48.5	50.1	50.1	51.7	51.7	51.7	51.7	51.7	67.5°
70°	40.4	42.0	43.6	45.2	45.2	45.2	46.8	46.8	46.8	48.5	48.5	70°
72.5°	37.2	38.8	38.8	40.4	40.4	42.0	42.0	43.6	43.6	43.6	45.2	72.5°
75°	30.7	32.3	33.9	35.5	35.5	37.2	37.2	37.2	37.2	38.8	38.8	75°
77.5°	25.8	25.8	29.1	29.1	30.7	30.7	32.3	32.3	32.3	32.3	32.3	77.5°
80°	19.4	19.4	21.0	22.6	24.2	24.2	24.2	24.2	24.2	24.2	24.2	80°
82.5°	11.3	11.3	12.9	12.9	14.5	14.5	16.2	14.5	14.5	12.9	12.9	82.5°
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	1.6	1.6	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°
1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	0°	1129.1
1004.7	1004.7	1007.9	1020.9	1024.1	1032.2	1030.6	1045.1	1051.6	1090.3	1130.7	2.5°	1169.5
794.7	801.2	810.9	827.0	836.7	854.5	851.3	880.3	885.2	956.3	1025.7	5°	1106.5
592.8	602.5	610.6	628.4	642.9	660.7	665.5	699.4	709.1	802.8	899.7	7.5°	1011.2
513.7	521.7	533.1	544.4	558.9	567.0	579.9	596.0	607.4	676.8	788.3	10°	915.9
457.1	468.4	479.7	495.9	510.4	525.0	537.9	554.0	568.6	625.1	712.3	12.5°	859.3
387.7	400.6	413.5	431.3	452.3	466.8	481.4	499.1	516.9	586.4	688.1	15°	836.7
300.4	315.0	332.8	357.0	379.6	397.4	411.9	436.1	458.7	542.7	676.8	17.5°	859.3
221.3	234.2	250.4	271.4	287.5	318.2	334.4	363.4	390.9	495.9	660.7	20°	903.0
163.1	171.2	184.1	200.3	218.1	245.5	263.3	289.1	319.8	452.3	660.7	22.5°	977.3
137.3	140.5	145.4	155.1	166.4	185.8	203.5	229.4	260.1	413.5	678.4	25°	1098.4
127.6	129.2	132.5	137.3	143.8	153.5	166.4	187.4	218.1	382.8	704.3	27.5°	1227.6
134.1	134.1	134.1	135.7	138.9	143.8	150.2	163.1	182.5	337.6	722.0	30°	1340.7
108.2	109.8	109.8	113.1	114.7	121.1	127.6	137.3	155.1	310.1	733.3	32.5°	1421.5
96.9	98.5	100.1	101.8	105.0	106.6	113.1	124.4	142.1	292.4	731.7	35°	1516.8
92.1	93.7	95.3	95.3	96.9	100.1	105.0	116.3	137.3	285.9	731.7	37.5°	1626.6
90.5	90.5	90.5	90.5	93.7	96.9	105.0	116.3	134.1	279.4	736.6	40°	1747.8
87.2	87.2	87.2	88.8	93.7	100.1	103.4	109.8	124.4	276.2	744.7	42.5°	1857.6
87.2	87.2	88.8	95.3	96.9	96.9	98.5	103.4	117.9	276.2	760.8	45°	1943.2
90.5	93.7	95.3	93.7	92.1	92.1	92.1	98.5	113.1	281.1	791.5	47.5°	2041.7
98.5	96.9	90.5	88.8	88.8	85.6	87.2	93.7	111.5	281.1	854.5	50°	2177.4
96.9	90.5	88.8	85.6	82.4	80.8	82.4	92.1	109.8	277.8	945.0	52.5°	2376.1
87.2	85.6	80.8	77.5	75.9	77.5	80.8	88.8	106.6	274.6	1056.4	55°	2616.8
75.9	74.3	71.1	71.1	72.7	74.3	79.1	85.6	98.5	266.5	1145.3	57.5°	2838.1
66.2	66.2	66.2	67.8	69.5	71.1	75.9	80.8	90.5	252.0	1205.0	60°	2980.2
59.8	61.4	61.4	64.6	66.2	67.8	71.1	75.9	82.4	235.8	1217.9	62.5°	2981.9
56.5	58.2	59.8	59.8	61.4	63.0	67.8	72.7	82.4	222.9	1138.8	65°	2863.9
53.3	53.3	54.9	56.5	58.2	59.8	63.0	71.1	84.0	211.6	966.0	67.5°	2565.1
48.5	50.1	51.7	53.3	53.3	54.9	59.8	71.1	85.6	206.8	767.3	70°	2166.1
45.2	45.2	46.8	48.5	48.5	51.7	56.5	69.5	87.2	198.7	578.3	72.5°	1689.6
38.8	40.4	40.4	40.4	42.0	45.2	51.7	63.0	75.9	164.8	390.9	75°	1145.3
33.9	32.3	33.9	33.9	35.5	37.2	42.0	48.5	56.5	105.0	206.8	77.5°	728.5
24.2	22.6	22.6	24.2	24.2	24.2	27.5	29.1	32.3	64.6	114.7	80°	429.7
12.9	11.3	12.9	11.3	11.3	12.9	12.9	16.2	16.2	30.7	51.7	82.5°	266.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	11.3	85°	108.2
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°
1129.1	1129.1
1188.9	1198.6
1146.9	1159.8
1056.4	1074.2
972.4	990.2
927.2	936.9
906.2	925.6
936.9	956.3
998.3	1028.9
1106.5	1145.3
1277.7	1311.6
1413.4	1466.7
1539.4	1583.0
1639.5	1689.6
1754.2	1802.7
1893.1	1959.4
2036.9	2111.2
2171.0	2253.3
2297.0	2361.6
2393.9	2466.6
2516.6	2602.3
2725.0	2786.4
2977.0	3046.5
3211.2	3271.0
3319.4	3369.5
3322.7	3385.7
3251.6	3322.7
3070.7	3180.5
2715.3	2838.1
2133.8	2274.3
1416.6	1539.4
817.3	857.7
483.0	504.0
287.5	308.5
77.5	84.0
0.0	0.0
0.0	0.0

(END OF REPORT)