

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: P228496

Luminaire Tested: **ISS-AF-1200-LED-E1-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228496
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-8030
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4478 lumens
Efficiency: N/A
Efficacy: 67.8 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 - G2

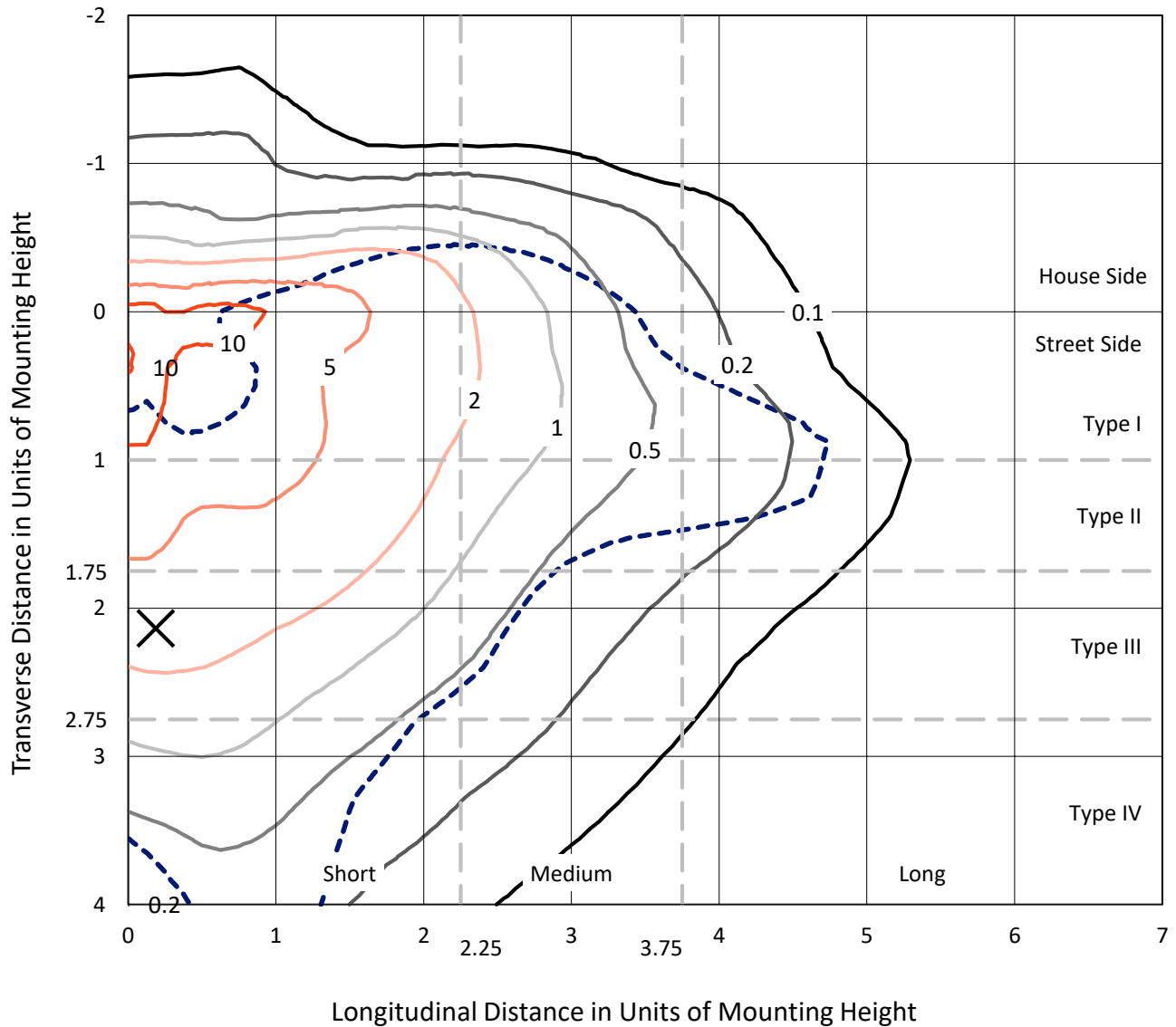
Input Watts (W): 66
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

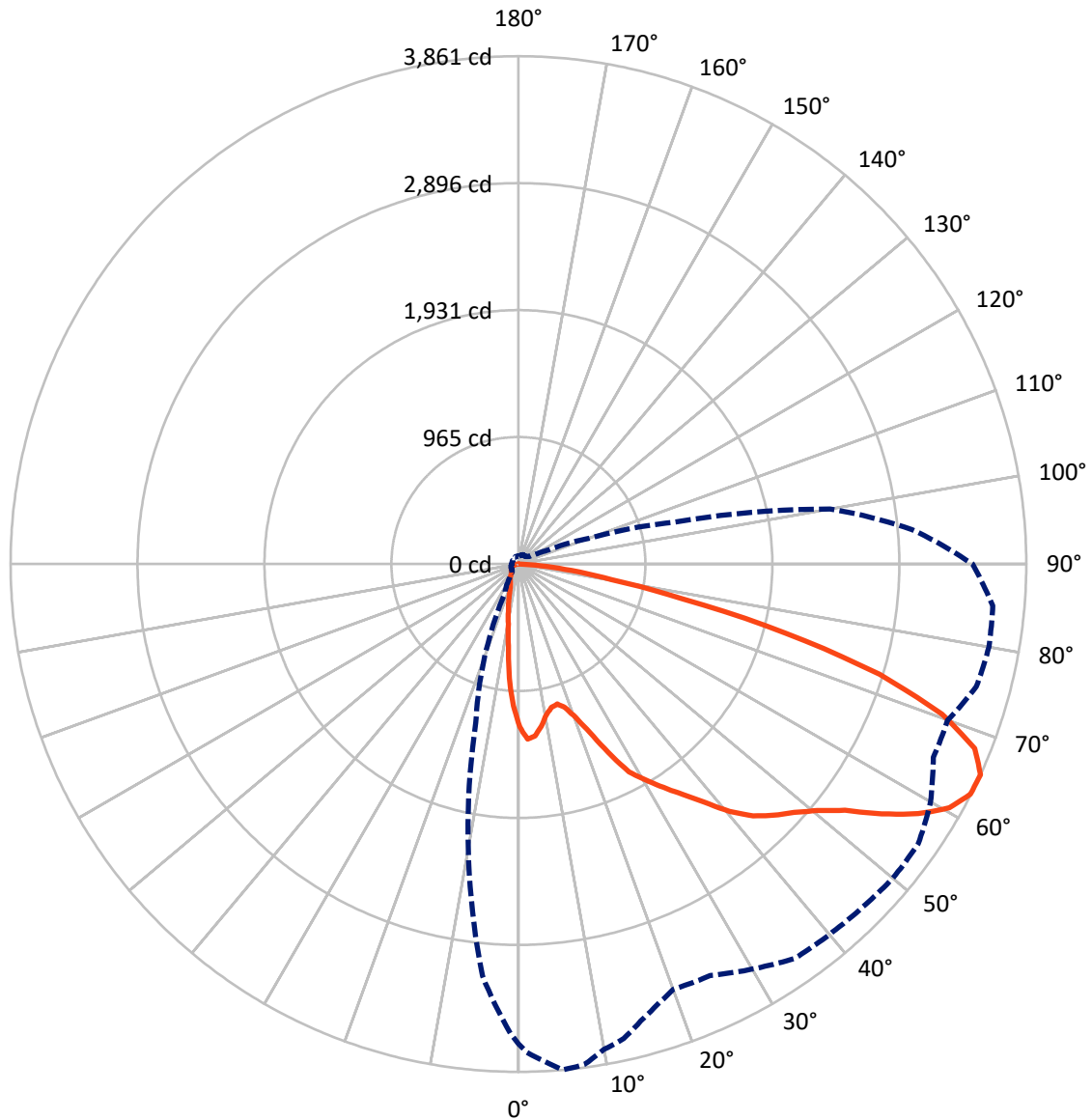
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.8 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
House Side	Lumens	744.6	0.0	744.6
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	3733.4	0.0	3733.4
	% Fixture	83.4	0.0	83.4
Total	Lumens	4478.0	0.0	4478.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	2.1
10°-20°	196.1	4.4
20°-30°	285.0	6.4
30°-40°	421.6	9.4
40°-50°	614.2	13.7
50°-60°	920.8	20.6
60°-70°	1147.4	25.6
70°-80°	672.1	15.0
80°-90°	125.7	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°	4478.0	100.0
0°-180°	4478.0	100.0



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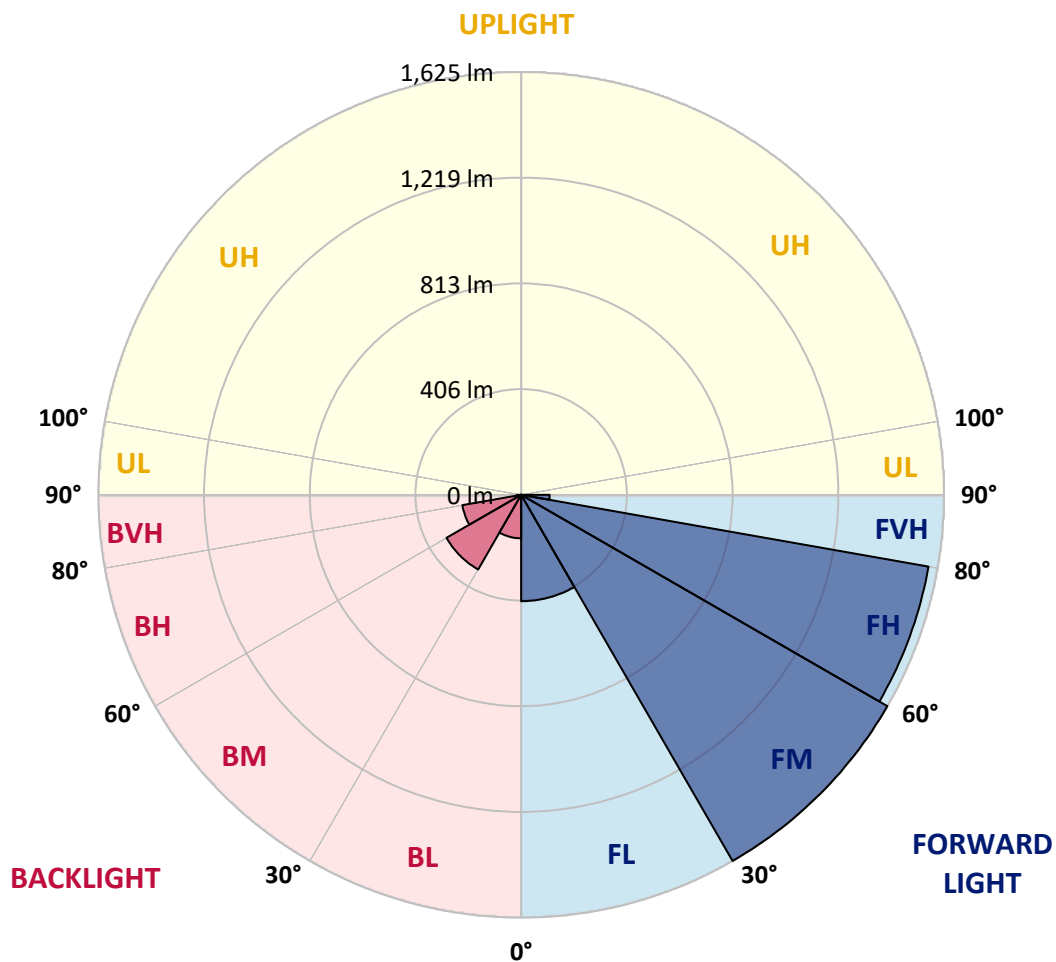
CATALOG NUMBER: ISS-AF-1200-LED-E1-SLL-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	409.1	9.1			
FM	(30°-60°)	1625.2	36.3			
FH	(60°-80°)	1589.7	35.5			G1/1800
FVH	(80°-90°)	109.5	2.4			G2/225
BL	(0°-30°)	167.2	3.7	B1/500		
BM	(30°-60°)	331.4	7.4	B1/1000		
BH	(60°-80°)	229.8	5.1	B1/500		G1/500
BVH	(80°-90°)	16.2	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°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2
2.5°	1315.5	1311.9	1333.2	1336.7	1350.9	1350.9	1366.9	1381.1	1386.4	1398.8	1430.7
5°	1272.9	1283.6	1313.7	1343.8	1365.1	1386.4	1409.4	1437.8	1460.8	1499.9	1581.4
7.5°	1179.0	1194.9	1246.3	1276.5	1310.2	1347.4	1375.8	1409.4	1444.9	1510.5	1655.9
10°	1086.8	1099.2	1164.8	1202.0	1249.9	1288.9	1329.7	1366.9	1405.9	1487.4	1655.9
12.5°	1028.3	1044.2	1118.7	1154.1	1209.1	1249.9	1299.5	1343.8	1389.9	1476.8	1639.9
15°	1015.9	1033.6	1104.5	1148.8	1196.7	1235.7	1280.0	1326.1	1372.2	1457.3	1602.7
17.5°	1049.5	1070.8	1147.1	1196.7	1233.9	1278.2	1310.2	1354.5	1384.6	1452.0	1521.1
20°	1129.3	1154.1	1244.6	1292.4	1322.6	1350.9	1375.8	1402.3	1414.8	1430.7	1418.3
22.5°	1257.0	1287.1	1389.9	1444.9	1466.2	1487.4	1489.2	1492.8	1483.9	1441.3	1345.6
25°	1439.6	1469.7	1586.7	1639.9	1639.9	1639.9	1620.4	1606.2	1565.4	1485.7	1326.1
27.5°	1609.8	1648.8	1788.8	1822.5	1811.9	1795.9	1758.7	1723.2	1664.7	1531.8	1324.3
30°	1737.4	1776.4	1905.8	1932.4	1905.8	1866.8	1808.3	1756.9	1687.8	1554.8	1336.7
32.5°	1854.4	1900.5	2024.6	2028.2	1980.3	1936.0	1870.4	1811.9	1739.2	1597.4	1374.0
35°	1978.5	2024.6	2150.5	2125.7	2056.5	1996.3	1928.9	1877.5	1804.8	1652.3	1434.3
37.5°	2150.5	2191.3	2297.6	2239.1	2150.5	2072.5	1999.8	1932.4	1859.7	1726.8	1535.3
40°	2317.1	2375.7	2473.2	2379.2	2271.1	2166.5	2086.7	2015.8	1936.0	1827.8	1664.7
42.5°	2473.2	2528.1	2618.5	2498.0	2372.1	2267.5	2184.2	2107.9	2031.7	1943.1	1820.7
45°	2591.9	2648.7	2724.9	2597.3	2453.7	2345.5	2255.1	2187.7	2120.4	2060.1	2017.5
47.5°	2707.2	2763.9	2822.4	2684.1	2542.3	2432.4	2326.0	2264.0	2210.8	2178.9	2230.3
50°	2856.1	2895.1	2944.7	2795.8	2645.1	2519.3	2412.9	2365.0	2315.4	2326.0	2498.0
52.5°	3058.2	3091.9	3109.6	2964.2	2795.8	2652.2	2535.2	2469.6	2428.8	2490.9	2781.6
55°	3343.6	3391.5	3352.5	3208.9	2996.2	2833.1	2689.5	2611.4	2586.6	2669.9	3065.3
57.5°	3590.1	3611.3	3583.0	3441.2	3223.1	3040.5	2888.0	2806.5	2778.1	2888.0	3324.1
60°	3698.2	3724.8	3763.8	3641.5	3437.6	3256.8	3125.6	3045.8	2997.9	3125.6	3531.6
62.5°	3715.9	3760.3	3856.0	3794.0	3632.6	3497.9	3379.1	3269.2	3232.0	3329.5	3668.1
65°	3646.8	3714.2	3861.3	3838.3	3747.9	3696.4	3597.2	3512.1	3441.2	3451.8	3661.0
67.5°	3490.8	3568.8	3740.8	3730.1	3740.8	3740.8	3653.9	3583.0	3490.8	3359.6	3391.5
70°	3114.9	3217.8	3416.3	3467.7	3558.2	3558.2	3481.9	3373.8	3267.4	2997.9	2834.8
72.5°	2496.2	2565.3	2870.3	3120.3	3235.5	3189.4	3114.9	2934.1	2700.1	2404.0	2182.4
75°	1689.5	1730.3	2104.4	2561.8	2771.0	2732.0	2609.7	2384.5	2143.4	1813.7	1533.5
77.5°	941.4	994.6	1274.7	1632.8	1914.7	1909.4	1893.4	1749.8	1558.4	1285.3	1140.0
80°	553.1	570.9	718.0	978.6	1221.5	1163.0	1122.2	1008.8	911.3	787.2	898.8
82.5°	338.6	320.9	407.8	595.7	721.6	696.7	627.6	585.0	539.0	505.3	597.5
85°	92.2	83.3	166.7	250.0	306.7	331.5	331.5	328.0	294.3	221.6	265.9
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°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2
2.5°	1443.1	1444.9	1439.6	1452.0	1437.8	1430.7	1409.4	1409.4	1391.7	1377.5	1361.6
5°	1611.5	1622.2	1613.3	1615.1	1586.7	1558.4	1515.8	1491.0	1446.7	1398.8	1349.2
7.5°	1725.0	1742.7	1735.6	1705.5	1661.2	1600.9	1530.0	1462.6	1389.9	1311.9	1239.2
10°	1755.1	1774.6	1758.7	1702.0	1629.3	1544.2	1459.1	1368.7	1280.0	1196.7	1118.7
12.5°	1712.6	1726.8	1693.1	1631.0	1560.1	1475.0	1386.4	1308.4	1203.8	1115.1	1024.7
15°	1604.5	1595.6	1592.0	1547.7	1498.1	1428.9	1345.6	1265.8	1168.3	1077.9	982.2
17.5°	1487.4	1476.8	1480.4	1462.6	1455.5	1423.6	1361.6	1294.2	1207.3	1097.4	994.6
20°	1384.6	1374.0	1379.3	1388.2	1414.8	1416.5	1405.9	1361.6	1297.7	1182.5	1056.6
22.5°	1296.0	1297.7	1315.5	1340.3	1384.6	1441.3	1485.7	1494.5	1450.2	1315.5	1157.7
25°	1269.4	1260.5	1280.0	1320.8	1395.3	1505.2	1604.5	1654.1	1629.3	1494.5	1301.3
27.5°	1260.5	1248.1	1269.4	1322.6	1441.3	1595.6	1737.4	1811.9	1820.7	1682.5	1455.5
30°	1260.5	1255.2	1276.5	1345.6	1471.5	1625.7	1783.5	1895.2	1930.7	1815.4	1590.3
32.5°	1276.5	1280.0	1317.2	1405.9	1535.3	1693.1	1856.2	1976.8	2040.6	1953.7	1698.4
35°	1311.9	1319.0	1372.2	1475.0	1615.1	1774.6	1923.6	2045.9	2148.7	2102.6	1799.5
37.5°	1388.2	1398.8	1464.4	1569.0	1696.6	1840.2	1985.6	2116.8	2265.7	2246.2	1905.8
40°	1522.9	1522.9	1588.5	1678.9	1783.5	1893.4	2037.0	2191.3	2373.9	2400.5	2037.0
42.5°	1693.1	1686.0	1728.6	1794.1	1866.8	1959.0	2088.4	2260.4	2474.9	2533.4	2136.3
45°	1927.1	1891.7	1914.7	1930.7	1966.1	2022.9	2138.1	2326.0	2556.5	2632.7	2210.8
47.5°	2201.9	2152.3	2132.8	2102.6	2090.2	2111.5	2210.8	2377.4	2634.5	2717.8	2331.3
50°	2505.1	2457.2	2405.8	2324.2	2253.3	2232.0	2292.3	2446.6	2717.8	2824.2	2464.3
52.5°	2820.6	2787.0	2719.6	2591.9	2457.2	2381.0	2409.3	2561.8	2850.8	2989.1	2622.1
55°	3109.6	3120.3	3038.7	2889.8	2696.5	2579.5	2613.2	2765.7	3091.9	3255.0	2886.2
57.5°	3419.9	3391.5	3327.7	3173.4	2962.5	2836.6	2850.8	3035.2	3361.4	3485.5	3148.6
60°	3625.5	3625.5	3556.4	3439.4	3239.0	3122.0	3143.3	3313.5	3577.7	3590.1	3265.6
62.5°	3758.5	3778.0	3723.0	3639.7	3444.7	3347.2	3419.9	3540.4	3684.0	3581.2	3207.1
65°	3694.7	3715.9	3710.6	3618.4	3480.2	3473.1	3604.3	3632.6	3620.2	3451.8	3005.0
67.5°	3405.7	3363.1	3361.4	3313.5	3285.1	3432.3	3598.9	3607.8	3398.6	3198.3	2685.9
70°	2856.1	2783.4	2755.0	2769.2	2898.7	3173.4	3411.0	3343.6	3010.3	2838.4	2287.0
72.5°	2201.9	2115.0	2097.3	2152.3	2352.6	2739.1	3063.5	2969.6	2474.9	2274.6	1771.1
75°	1561.9	1524.7	1526.4	1634.6	1850.9	2223.2	2600.8	2591.9	1833.2	1569.0	1219.7
77.5°	1136.4	1143.5	1175.4	1218.0	1404.1	1764.0	2118.6	2095.5	1304.8	1077.9	852.8
80°	937.9	948.5	948.5	925.4	973.3	1164.8	1439.6	1537.1	874.0	725.1	595.7
82.5°	673.7	726.9	757.0	719.8	702.1	767.7	902.4	966.2	544.3	457.4	416.6
85°	320.9	367.0	377.6	368.8	423.7	484.0	515.9	528.3	297.8	212.7	273.0
87.5°	0.0	0.0	1.8	14.2	39.0	67.4	67.4	102.8	16.0	5.3	12.4
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°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2
2.5°	1340.3	1317.2	1299.5	1278.2	1260.5	1242.8	1230.4	1203.8	1182.5	1134.6	1122.2
5°	1308.4	1258.7	1225.1	1193.1	1152.4	1124.0	1093.9	1056.6	1015.9	946.7	925.4
7.5°	1182.5	1120.5	1074.4	1028.3	975.1	927.2	882.9	833.3	762.3	687.9	659.5
10°	1046.0	980.4	916.6	861.6	797.8	744.6	705.6	670.1	613.4	556.7	519.5
12.5°	934.3	859.8	787.2	732.2	698.5	671.9	643.6	615.2	554.9	491.1	446.8
15°	882.9	796.0	732.2	686.1	656.0	624.1	590.4	558.5	487.5	413.1	359.9
17.5°	890.0	790.7	709.1	647.1	606.3	562.0	523.0	482.2	404.2	315.6	267.7
20°	929.0	796.0	684.3	611.6	553.1	496.4	446.8	395.4	299.6	230.5	196.8
22.5°	978.6	813.7	670.1	576.2	503.5	432.6	368.8	308.5	221.6	180.8	164.9
25°	1063.7	854.5	666.6	544.3	455.6	370.5	304.9	241.1	179.1	159.6	150.7
27.5°	1170.1	900.6	670.1	521.2	414.9	320.9	248.2	200.3	161.3	150.7	143.6
30°	1276.5	948.5	654.2	485.8	367.0	274.8	212.7	182.6	159.6	147.1	134.7
32.5°	1370.4	983.9	627.6	448.5	324.4	234.0	180.8	156.0	140.1	125.9	122.3
35°	1437.8	999.9	597.5	425.5	296.1	209.2	159.6	140.1	124.1	109.9	102.8
37.5°	1501.6	1001.7	565.5	404.2	285.4	198.6	147.1	129.4	115.2	102.8	95.7
40°	1567.2	994.6	547.8	382.9	269.5	193.2	141.8	120.6	111.7	97.5	90.4
42.5°	1615.1	982.2	540.7	370.5	255.3	179.1	138.3	118.8	106.4	95.7	86.9
45°	1659.4	969.8	540.7	359.9	244.7	170.2	131.2	120.6	102.8	94.0	83.3
47.5°	1712.6	975.1	542.5	351.0	235.8	161.3	124.1	117.0	104.6	92.2	81.6
50°	1803.0	1035.4	551.4	345.7	228.7	154.2	118.8	111.7	115.2	90.4	79.8
52.5°	1959.0	1131.1	565.5	342.2	221.6	148.9	111.7	108.1	117.0	90.4	78.0
55°	2162.9	1228.6	579.7	333.3	211.0	138.3	108.1	101.1	108.1	90.4	76.2
57.5°	2361.5	1301.3	592.1	320.9	193.2	127.6	102.8	95.7	99.3	88.6	72.7
60°	2476.7	1358.0	604.6	299.6	172.0	115.2	97.5	90.4	88.6	88.6	70.9
62.5°	2508.6	1336.7	597.5	273.0	154.2	106.4	92.2	85.1	79.8	90.4	70.9
65°	2407.6	1225.1	570.9	250.0	141.8	102.8	86.9	81.6	76.2	78.0	67.4
67.5°	2097.3	1030.0	498.2	228.7	140.1	101.1	83.3	78.0	70.9	69.1	63.8
70°	1710.8	808.4	413.1	212.7	138.3	101.1	79.8	72.7	67.4	62.1	58.5
72.5°	1315.5	604.6	347.5	205.7	140.1	99.3	74.5	65.6	60.3	56.7	53.2
75°	925.4	427.3	289.0	184.4	131.2	94.0	69.1	58.5	53.2	49.6	46.1
77.5°	670.1	290.8	214.5	148.9	111.7	81.6	60.3	49.6	44.3	42.5	39.0
80°	427.3	179.1	143.6	109.9	81.6	63.8	46.1	39.0	35.5	31.9	30.1
82.5°	246.4	104.6	86.9	74.5	53.2	42.5	33.7	30.1	23.0	21.3	19.5
85°	150.7	65.6	47.9	39.0	33.7	26.6	19.5	17.7	12.4	10.6	8.9
87.5°	33.7	14.2	12.4	8.9	10.6	8.9	5.3	3.5	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°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2
2.5°	1102.7	1076.1	1077.9	1072.6	1058.4	1035.4	1028.3	1015.9	1017.6	1024.7	1017.6
5°	900.6	868.7	872.3	870.5	856.3	840.3	827.9	812.0	806.7	812.0	803.1
7.5°	638.2	617.0	624.1	640.0	638.2	629.4	618.7	601.0	597.5	599.2	583.3
10°	487.5	466.3	460.9	459.2	455.6	450.3	436.1	421.9	416.6	418.4	407.8
12.5°	407.8	390.0	368.8	349.3	331.5	324.4	306.7	297.8	296.1	296.1	290.8
15°	322.7	308.5	296.1	276.6	262.4	251.7	239.3	232.2	230.5	232.2	232.2
17.5°	241.1	234.0	228.7	226.9	219.8	212.7	205.7	202.1	200.3	200.3	202.1
20°	184.4	182.6	182.6	182.6	191.5	198.6	200.3	195.0	193.2	191.5	189.7
22.5°	159.6	157.8	159.6	170.2	164.9	159.6	159.6	159.6	159.6	159.6	161.3
25°	147.1	148.9	150.7	145.4	140.1	136.5	134.7	134.7	133.0	133.0	134.7
27.5°	140.1	138.3	136.5	133.0	129.4	124.1	122.3	120.6	120.6	120.6	120.6
30°	131.2	129.4	127.6	124.1	118.8	111.7	109.9	109.9	108.1	109.9	109.9
32.5°	120.6	118.8	117.0	113.5	108.1	104.6	102.8	99.3	99.3	99.3	101.1
35°	97.5	95.7	95.7	97.5	97.5	95.7	95.7	92.2	92.2	92.2	92.2
37.5°	90.4	88.6	88.6	86.9	88.6	90.4	88.6	86.9	86.9	85.1	85.1
40°	85.1	85.1	83.3	81.6	81.6	85.1	83.3	81.6	79.8	79.8	79.8
42.5°	81.6	79.8	79.8	78.0	78.0	78.0	76.2	74.5	72.7	72.7	72.7
45°	78.0	78.0	76.2	74.5	72.7	72.7	69.1	67.4	67.4	67.4	69.1
47.5°	76.2	74.5	74.5	72.7	70.9	67.4	65.6	63.8	63.8	63.8	63.8
50°	74.5	72.7	70.9	70.9	67.4	65.6	63.8	62.1	62.1	62.1	62.1
52.5°	72.7	70.9	69.1	67.4	65.6	63.8	62.1	60.3	60.3	60.3	60.3
55°	69.1	67.4	67.4	65.6	65.6	63.8	62.1	60.3	60.3	60.3	58.5
57.5°	67.4	65.6	63.8	63.8	63.8	62.1	60.3	58.5	58.5	58.5	58.5
60°	65.6	63.8	63.8	62.1	62.1	60.3	60.3	58.5	56.7	56.7	55.0
62.5°	63.8	62.1	62.1	60.3	62.1	60.3	58.5	56.7	55.0	55.0	53.2
65°	62.1	60.3	60.3	60.3	58.5	58.5	56.7	53.2	53.2	53.2	51.4
67.5°	58.5	56.7	56.7	58.5	56.7	55.0	55.0	51.4	51.4	49.6	49.6
70°	53.2	53.2	53.2	55.0	53.2	51.4	51.4	49.6	47.9	46.1	46.1
72.5°	49.6	47.9	49.6	49.6	49.6	47.9	49.6	46.1	44.3	42.5	42.5
75°	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	40.8	39.0	37.2
77.5°	33.7	35.5	35.5	35.5	35.5	37.2	35.5	35.5	35.5	33.7	31.9
80°	24.8	24.8	26.6	28.4	26.6	28.4	26.6	28.4	26.6	26.6	26.6
82.5°	14.2	14.2	16.0	17.7	17.7	19.5	16.0	17.7	17.7	19.5	17.7
85°	5.3	5.3	5.3	5.3	7.1	7.1	5.3	7.1	7.1	8.9	8.9
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°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2
2.5°	1031.8	1031.8	1010.5	1014.1	1017.6	1024.7	1021.2	1019.4	1017.6	1028.3	1033.6
5°	810.2	808.4	781.8	780.1	785.4	787.2	781.8	773.0	767.7	769.4	774.7
7.5°	588.6	583.3	558.5	554.9	553.1	554.9	549.6	540.7	533.6	535.4	540.7
10°	411.3	397.1	393.6	395.4	398.9	402.4	402.4	402.4	404.2	414.9	427.3
12.5°	297.8	292.5	296.1	299.6	306.7	312.0	317.3	319.1	320.9	335.1	345.7
15°	235.8	235.8	239.3	241.1	244.7	248.2	251.7	251.7	253.5	258.8	267.7
17.5°	203.9	203.9	203.9	203.9	203.9	202.1	200.3	196.8	195.0	193.2	195.0
20°	187.9	186.2	182.6	180.8	177.3	173.7	172.0	166.7	164.9	159.6	157.8
22.5°	161.3	159.6	159.6	159.6	159.6	157.8	156.0	154.2	150.7	145.4	141.8
25°	133.0	133.0	133.0	134.7	134.7	136.5	140.1	140.1	140.1	140.1	134.7
27.5°	120.6	120.6	120.6	120.6	122.3	122.3	124.1	124.1	124.1	125.9	127.6
30°	109.9	111.7	111.7	113.5	113.5	115.2	115.2	117.0	117.0	118.8	118.8
32.5°	101.1	101.1	102.8	104.6	104.6	104.6	108.1	108.1	106.4	108.1	108.1
35°	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	86.9	85.1	86.9
37.5°	83.3	81.6	81.6	79.8	78.0	78.0	78.0	79.8	78.0	79.8	79.8
40°	76.2	76.2	74.5	74.5	74.5	74.5	74.5	74.5	74.5	76.2	78.0
42.5°	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	72.7	72.7
45°	67.4	67.4	67.4	67.4	69.1	69.1	69.1	69.1	69.1	69.1	70.9
47.5°	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	67.4	69.1
50°	62.1	62.1	63.8	63.8	63.8	63.8	63.8	63.8	63.8	65.6	67.4
52.5°	60.3	60.3	60.3	62.1	62.1	62.1	62.1	62.1	62.1	62.1	63.8
55°	58.5	60.3	60.3	60.3	60.3	60.3	58.5	58.5	58.5	58.5	60.3
57.5°	56.7	56.7	58.5	58.5	58.5	56.7	56.7	55.0	55.0	55.0	58.5
60°	55.0	55.0	55.0	55.0	55.0	53.2	53.2	53.2	53.2	55.0	55.0
62.5°	53.2	53.2	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
65°	51.4	51.4	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
67.5°	47.9	47.9	47.9	46.1	46.1	46.1	46.1	47.9	46.1	46.1	46.1
70°	44.3	44.3	44.3	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
72.5°	40.8	40.8	40.8	40.8	39.0	39.0	39.0	39.0	39.0	39.0	39.0
75°	37.2	35.5	35.5	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
77.5°	31.9	30.1	30.1	30.1	28.4	28.4	28.4	28.4	28.4	28.4	28.4
80°	26.6	24.8	24.8	23.0	23.0	23.0	23.0	23.0	23.0	21.3	21.3
82.5°	19.5	17.7	17.7	17.7	17.7	16.0	16.0	16.0	16.0	14.2	12.4
85°	8.9	8.9	7.1	8.9	8.9	10.6	8.9	8.9	8.9	7.1	3.5
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°	302.5°	
0°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	0°
2.5°	1030.0	1047.8	1049.5	1038.9	1060.2	1063.7	1058.4	1058.4	1062.0	1076.1	1076.1	2.5°
5°	767.7	790.7	788.9	774.7	803.1	812.0	806.7	808.4	815.5	831.5	840.3	5°
7.5°	542.5	562.0	560.2	558.5	576.2	583.3	586.8	592.1	613.4	615.2	625.8	7.5°
10°	439.7	457.4	462.7	475.1	480.4	491.1	498.2	507.0	524.8	533.6	546.0	10°
12.5°	356.3	377.6	382.9	397.1	404.2	416.6	423.7	441.4	452.1	462.7	478.7	12.5°
15°	274.8	292.5	297.8	308.5	315.6	329.8	336.8	347.5	368.8	379.4	400.7	15°
17.5°	202.1	212.7	216.3	223.4	228.7	234.0	248.2	265.9	278.3	296.1	306.7	17.5°
20°	157.8	161.3	163.1	164.9	168.4	172.0	179.1	191.5	198.6	212.7	223.4	20°
22.5°	141.8	143.6	143.6	145.4	145.4	147.1	150.7	154.2	157.8	163.1	168.4	22.5°
25°	131.2	133.0	133.0	134.7	134.7	136.5	138.3	140.1	143.6	145.4	147.1	25°
27.5°	125.9	125.9	125.9	125.9	127.6	127.6	129.4	133.0	133.0	136.5	138.3	27.5°
30°	120.6	120.6	120.6	122.3	124.1	127.6	131.2	136.5	138.3	141.8	143.6	30°
32.5°	111.7	108.1	111.7	109.9	106.4	106.4	108.1	111.7	111.7	113.5	115.2	32.5°
35°	86.9	86.9	88.6	90.4	90.4	92.2	94.0	95.7	97.5	101.1	102.8	35°
37.5°	81.6	83.3	83.3	85.1	86.9	86.9	88.6	92.2	94.0	95.7	97.5	37.5°
40°	78.0	79.8	81.6	83.3	83.3	85.1	86.9	88.6	90.4	94.0	95.7	40°
42.5°	74.5	78.0	78.0	79.8	81.6	83.3	85.1	86.9	90.4	92.2	94.0	42.5°
45°	72.7	74.5	76.2	78.0	79.8	81.6	83.3	86.9	88.6	92.2	94.0	45°
47.5°	70.9	72.7	74.5	76.2	78.0	79.8	81.6	85.1	88.6	92.2	95.7	47.5°
50°	67.4	70.9	72.7	74.5	76.2	78.0	81.6	85.1	88.6	94.0	102.8	50°
52.5°	65.6	69.1	69.1	72.7	74.5	78.0	81.6	85.1	90.4	97.5	106.4	52.5°
55°	62.1	65.6	65.6	69.1	72.7	76.2	78.0	83.3	88.6	95.7	97.5	55°
57.5°	58.5	62.1	63.8	65.6	69.1	72.7	74.5	79.8	86.9	88.6	86.9	57.5°
60°	56.7	58.5	60.3	62.1	65.6	67.4	72.7	83.3	90.4	83.3	74.5	60°
62.5°	53.2	56.7	58.5	60.3	63.8	65.6	69.1	76.2	78.0	69.1	67.4	62.5°
65°	51.4	55.0	55.0	58.5	60.3	60.3	62.1	62.1	62.1	62.1	62.1	65°
67.5°	47.9	51.4	51.4	53.2	55.0	55.0	56.7	56.7	56.7	56.7	56.7	67.5°
70°	44.3	46.1	47.9	49.6	49.6	49.6	51.4	51.4	51.4	53.2	53.2	70°
72.5°	40.8	42.5	42.5	44.3	44.3	46.1	46.1	47.9	47.9	47.9	49.6	72.5°
75°	33.7	35.5	37.2	39.0	39.0	40.8	40.8	40.8	40.8	42.5	42.5	75°
77.5°	28.4	28.4	31.9	31.9	33.7	33.7	35.5	35.5	35.5	35.5	35.5	77.5°
80°	21.3	21.3	23.0	24.8	26.6	26.6	26.6	26.6	26.6	26.6	26.6	80°
82.5°	12.4	12.4	14.2	14.2	16.0	16.0	17.7	16.0	16.0	14.2	14.2	82.5°
85°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	1.8	1.8	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°
1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	0°	1239.2
1102.7	1102.7	1106.3	1120.5	1124.0	1132.9	1131.1	1147.1	1154.1	1196.7	1241.0	2.5°	1283.6
872.3	879.3	890.0	907.7	918.3	937.9	934.3	966.2	971.5	1049.5	1125.8	5°	1214.4
650.6	661.3	670.1	689.6	705.6	725.1	730.4	767.7	778.3	881.1	987.5	7.5°	1109.8
563.8	572.6	585.0	597.5	613.4	622.3	636.5	654.2	666.6	742.8	865.2	10°	1005.2
501.7	514.1	526.5	544.3	560.2	576.2	590.4	608.1	624.1	686.1	781.8	12.5°	943.2
425.5	439.7	453.9	473.4	496.4	512.4	528.3	547.8	567.3	643.6	755.2	15°	918.3
329.8	345.7	365.2	391.8	416.6	436.1	452.1	478.7	503.5	595.7	742.8	17.5°	943.2
242.9	257.1	274.8	297.8	315.6	349.3	367.0	398.9	429.0	544.3	725.1	20°	991.0
179.1	187.9	202.1	219.8	239.3	269.5	289.0	317.3	351.0	496.4	725.1	22.5°	1072.6
150.7	154.2	159.6	170.2	182.6	203.9	223.4	251.7	285.4	453.9	744.6	25°	1205.6
140.1	141.8	145.4	150.7	157.8	168.4	182.6	205.7	239.3	420.2	773.0	27.5°	1347.4
147.1	147.1	147.1	148.9	152.5	157.8	164.9	179.1	200.3	370.5	792.5	30°	1471.5
118.8	120.6	120.6	124.1	125.9	133.0	140.1	150.7	170.2	340.4	804.9	32.5°	1560.1
106.4	108.1	109.9	111.7	115.2	117.0	124.1	136.5	156.0	320.9	803.1	35°	1664.7
101.1	102.8	104.6	104.6	106.4	109.9	115.2	127.6	150.7	313.8	803.1	37.5°	1785.3
99.3	99.3	99.3	99.3	102.8	106.4	115.2	127.6	147.1	306.7	808.4	40°	1918.3
95.7	95.7	95.7	97.5	102.8	109.9	113.5	120.6	136.5	303.2	817.3	42.5°	2038.8
95.7	95.7	97.5	104.6	106.4	106.4	108.1	113.5	129.4	303.2	835.0	45°	2132.8
99.3	102.8	104.6	102.8	101.1	101.1	101.1	108.1	124.1	308.5	868.7	47.5°	2240.9
108.1	106.4	99.3	97.5	97.5	94.0	95.7	102.8	122.3	308.5	937.9	50°	2389.8
106.4	99.3	97.5	94.0	90.4	88.6	90.4	101.1	120.6	304.9	1037.1	52.5°	2607.9
95.7	94.0	88.6	85.1	83.3	85.1	88.6	97.5	117.0	301.4	1159.5	55°	2872.1
83.3	81.6	78.0	78.0	79.8	81.6	86.9	94.0	108.1	292.5	1257.0	57.5°	3114.9
72.7	72.7	72.7	74.5	76.2	78.0	83.3	88.6	99.3	276.6	1322.6	60°	3271.0
65.6	67.4	67.4	70.9	72.7	74.5	78.0	83.3	90.4	258.8	1336.7	62.5°	3272.7
62.1	63.8	65.6	65.6	67.4	69.1	74.5	79.8	90.4	244.7	1249.9	65°	3143.3
58.5	58.5	60.3	62.1	63.8	65.6	69.1	78.0	92.2	232.2	1060.2	67.5°	2815.3
53.2	55.0	56.7	58.5	58.5	60.3	65.6	78.0	94.0	226.9	842.1	70°	2377.4
49.6	49.6	51.4	53.2	53.2	56.7	62.1	76.2	95.7	218.1	634.7	72.5°	1854.4
42.5	44.3	44.3	44.3	46.1	49.6	56.7	69.1	83.3	180.8	429.0	75°	1257.0
37.2	35.5	37.2	37.2	39.0	40.8	46.1	53.2	62.1	115.2	226.9	77.5°	799.6
26.6	24.8	24.8	26.6	26.6	26.6	30.1	31.9	35.5	70.9	125.9	80°	471.6
14.2	12.4	14.2	12.4	12.4	14.2	14.2	17.7	17.7	33.7	56.7	82.5°	292.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	12.4	85°	118.8
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°
1239.2	1239.2
1304.8	1315.5
1258.7	1272.9
1159.5	1179.0
1067.3	1086.8
1017.6	1028.3
994.6	1015.9
1028.3	1049.5
1095.6	1129.3
1214.4	1257.0
1402.3	1439.6
1551.3	1609.8
1689.5	1737.4
1799.5	1854.4
1925.3	1978.5
2077.8	2150.5
2235.6	2317.1
2382.7	2473.2
2521.0	2591.9
2627.4	2707.2
2762.1	2856.1
2990.8	3058.2
3267.4	3343.6
3524.5	3590.1
3643.3	3698.2
3646.8	3715.9
3568.8	3646.8
3370.2	3490.8
2980.2	3114.9
2342.0	2496.2
1554.8	1689.5
897.1	941.4
530.1	553.1
315.6	338.6
85.1	92.2
0.0	0.0
0.0	0.0

(END OF REPORT)