

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: P228499

Luminaire Tested: **ISS-AF-1200-LED-E1-SLL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228499
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-7030
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4858 lumens
Efficiency: N/A
Efficacy: 73.6 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

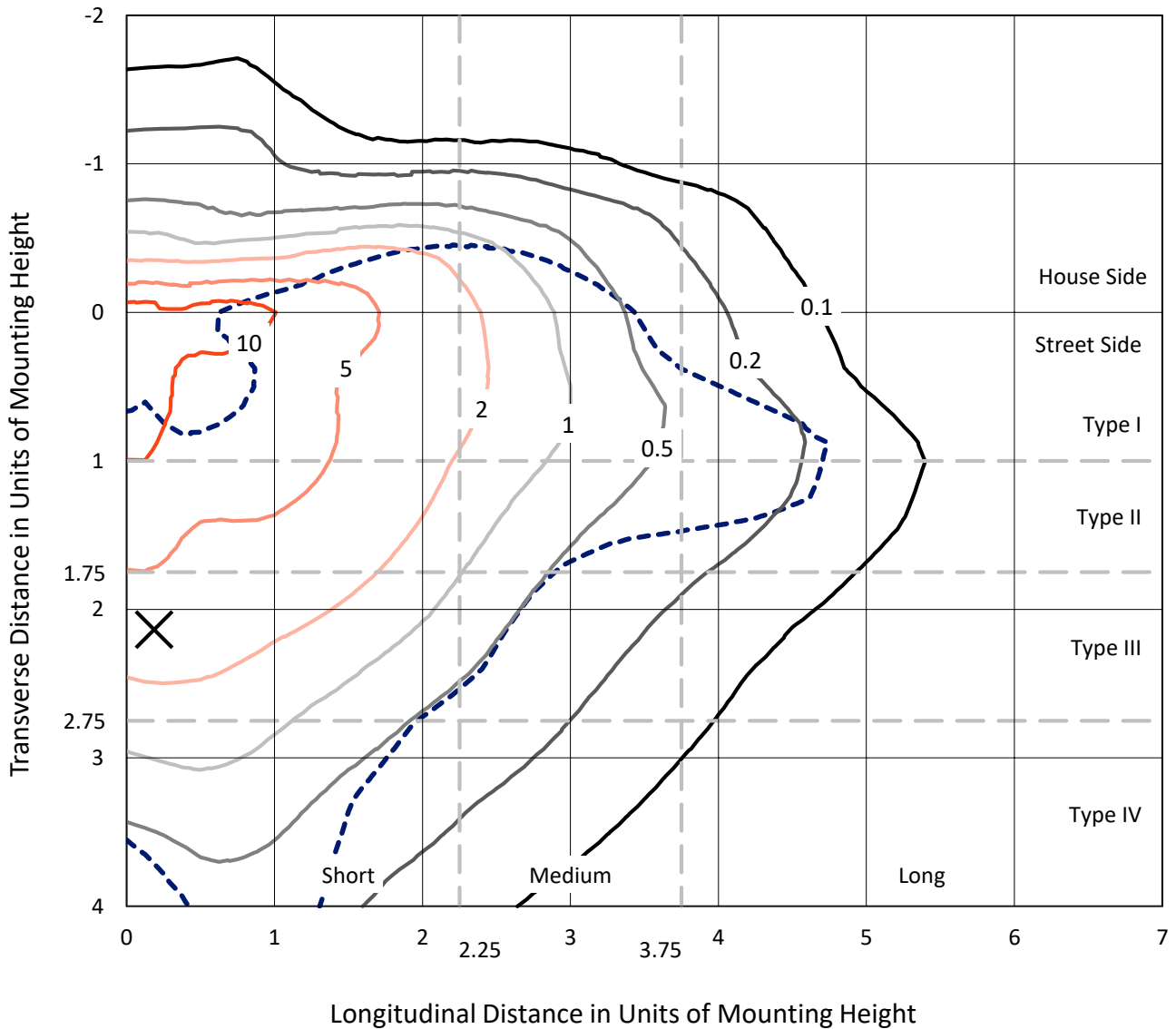
Input Watts (W): 66
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

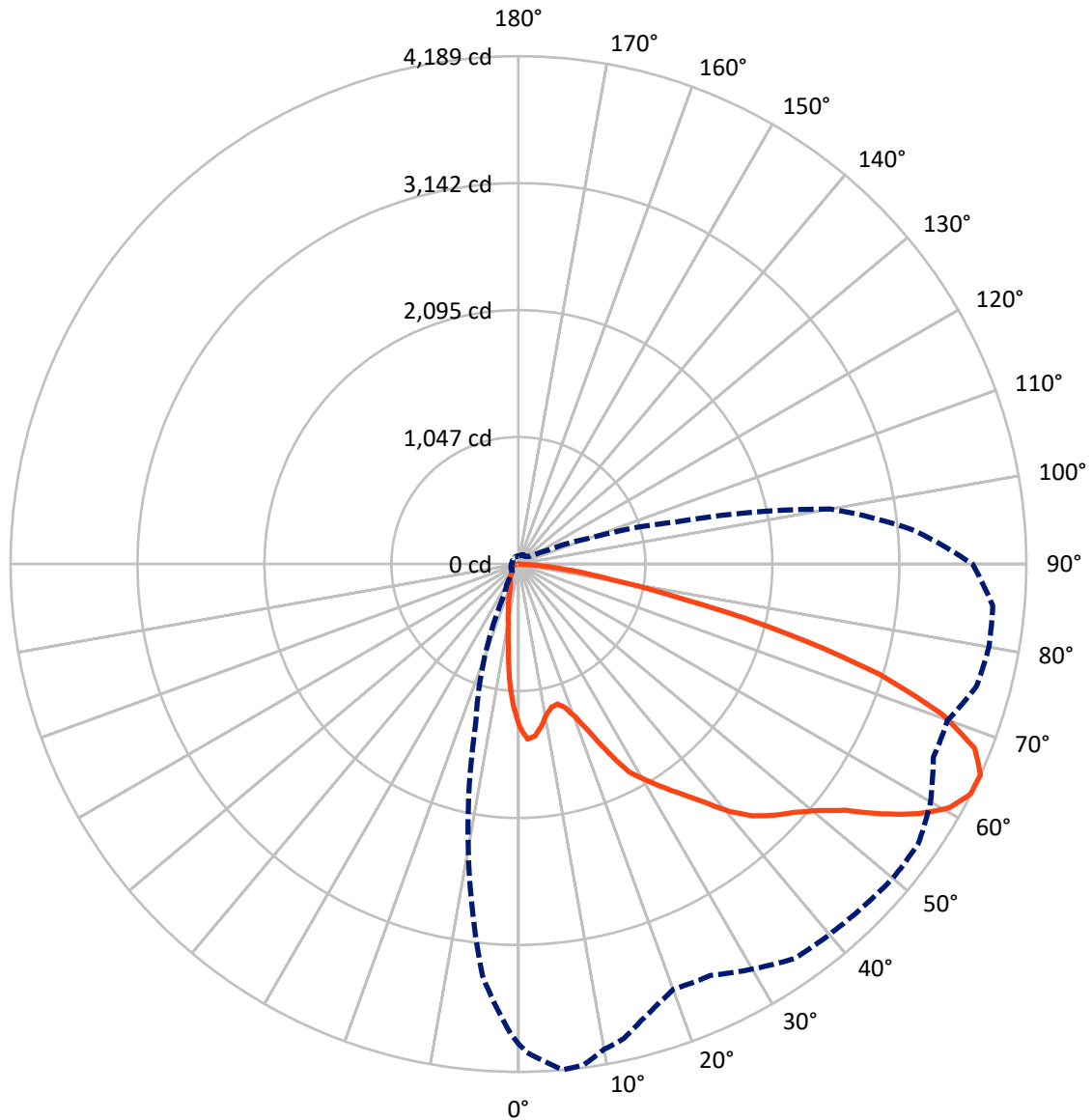
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.2 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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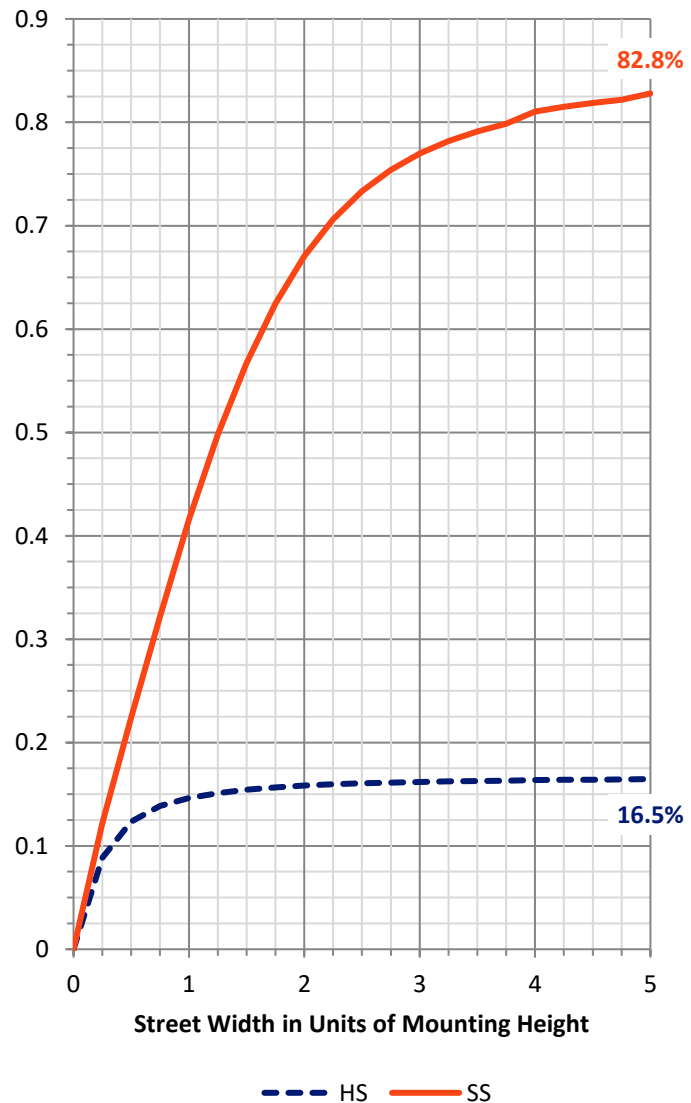
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	807.8	0.0	807.8
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	4050.2	0.0	4050.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	4858.0	0.0	4858.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	2.1
10°-20°	212.7	4.4
20°-30°	309.2	6.4
30°-40°	457.3	9.4
40°-50°	666.4	13.7
50°-60°	998.9	20.6
60°-70°	1244.8	25.6
70°-80°	729.2	15.0
80°-90°	136.3	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°	4858.0	100.0
0°-180°	4858.0	100.0



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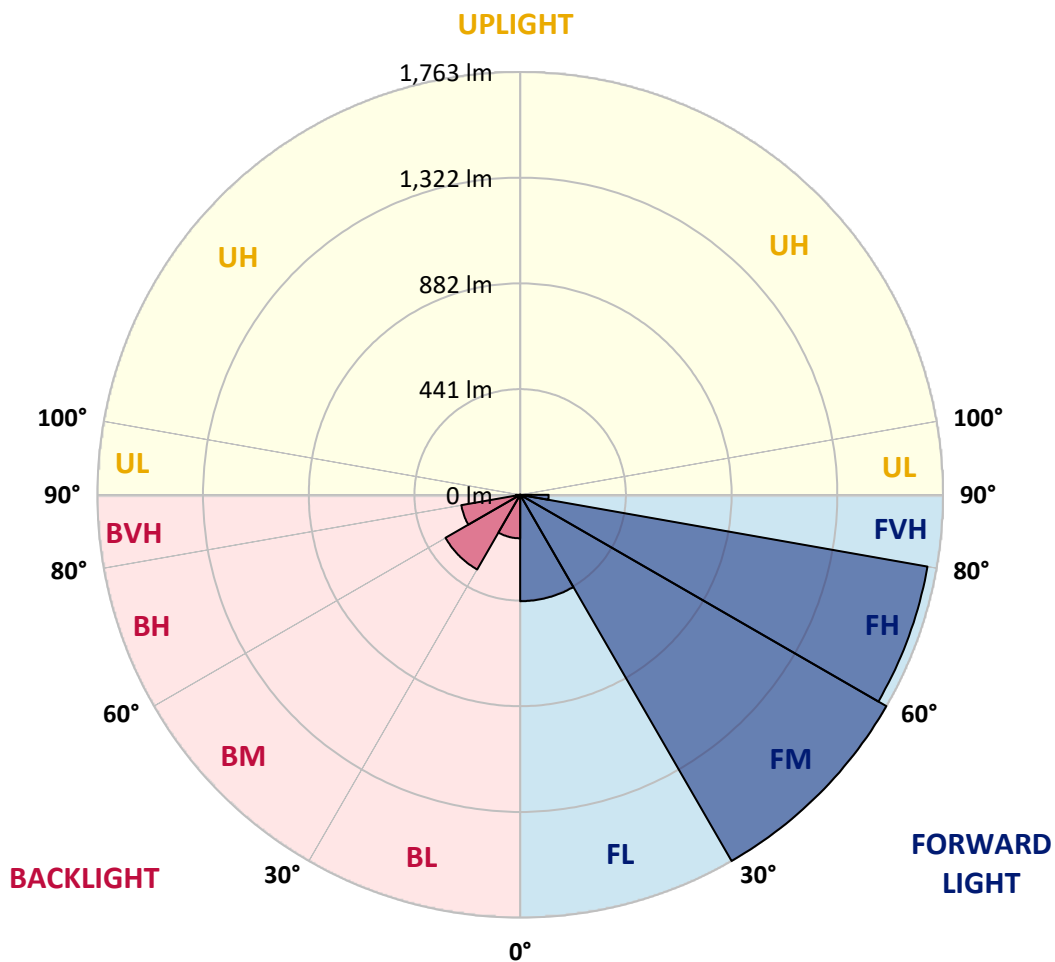
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	443.8	9.1			
FM	(30°-60°)	1763.1	36.3			
FH	(60°-80°)	1724.6	35.5			G1/1800
FVH	(80°-90°)	118.8	2.4			G2/225
BL	(0°-30°)	181.4	3.7	B1/500		
BM	(30°-60°)	359.5	7.4	B1/1000		
BH	(60°-80°)	249.3	5.1	B1/500		G1/500
BVH	(80°-90°)	17.6	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°	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4
2.5°	1427.1	1423.3	1446.3	1450.2	1465.6	1465.6	1482.9	1498.3	1504.0	1517.5	1552.1
5°	1380.9	1392.5	1425.2	1457.9	1481.0	1504.0	1529.0	1559.8	1584.8	1627.1	1715.6
7.5°	1279.0	1296.3	1352.1	1384.8	1421.3	1461.7	1492.5	1529.0	1567.5	1638.7	1796.4
10°	1179.0	1192.5	1263.6	1304.0	1355.9	1398.3	1442.5	1482.9	1525.2	1613.7	1796.4
12.5°	1115.5	1132.8	1213.6	1252.1	1311.7	1355.9	1409.8	1457.9	1507.9	1602.1	1779.1
15°	1102.1	1121.3	1198.2	1246.3	1298.2	1340.6	1388.6	1438.6	1488.6	1581.0	1738.7
17.5°	1138.6	1161.7	1244.4	1298.2	1338.6	1386.7	1421.3	1469.4	1502.1	1575.2	1650.2
20°	1225.2	1252.1	1350.2	1402.1	1434.8	1465.6	1492.5	1521.3	1534.8	1552.1	1538.7
22.5°	1363.6	1396.3	1507.9	1567.5	1590.6	1613.7	1615.6	1619.4	1609.8	1563.7	1459.8
25°	1561.7	1594.4	1721.4	1779.1	1779.1	1779.1	1757.9	1742.5	1698.3	1611.7	1438.6
27.5°	1746.4	1788.7	1940.6	1977.2	1965.6	1948.3	1907.9	1869.5	1806.0	1661.7	1436.7
30°	1884.9	1927.2	2067.6	2096.4	2067.6	2025.3	1961.8	1906.0	1831.0	1686.8	1450.2
32.5°	2011.8	2061.8	2196.4	2200.3	2148.3	2100.3	2029.1	1965.6	1886.8	1732.9	1490.6
35°	2146.4	2196.4	2333.0	2306.1	2231.1	2165.7	2092.6	2036.8	1957.9	1792.5	1556.0
37.5°	2333.0	2377.2	2492.6	2429.2	2333.0	2248.4	2169.5	2096.4	2017.6	1873.3	1665.6
40°	2513.8	2577.2	2683.0	2581.1	2463.8	2350.3	2263.7	2186.8	2100.3	1982.9	1806.0
42.5°	2683.0	2742.7	2840.7	2710.0	2573.4	2459.9	2369.5	2286.8	2204.1	2108.0	1975.2
45°	2811.9	2873.4	2956.1	2817.7	2661.9	2544.6	2446.5	2373.4	2300.3	2234.9	2188.7
47.5°	2936.9	2998.5	3061.9	2911.9	2758.0	2638.8	2523.4	2456.1	2398.4	2363.8	2419.5
50°	3098.5	3140.8	3194.6	3033.1	2869.6	2733.0	2617.6	2565.7	2511.9	2523.4	2710.0
52.5°	3317.7	3354.3	3373.5	3215.8	3033.1	2877.3	2750.3	2679.2	2634.9	2702.3	3017.7
55°	3627.4	3679.3	3637.0	3481.2	3250.4	3073.5	2917.7	2833.1	2806.1	2896.5	3325.4
57.5°	3894.7	3917.8	3887.0	3733.2	3496.6	3298.5	3133.1	3044.6	3013.8	3133.1	3606.2
60°	4012.0	4040.9	4083.2	3950.5	3729.3	3533.1	3390.8	3304.3	3252.3	3390.8	3831.3
62.5°	4031.3	4079.4	4183.2	4115.9	3940.9	3794.7	3665.8	3546.6	3506.2	3612.0	3979.3
65°	3956.3	4029.4	4189.0	4164.0	4065.9	4010.1	3902.4	3810.1	3733.2	3744.7	3971.7
67.5°	3787.0	3871.6	4058.2	4046.7	4058.2	4058.2	3964.0	3887.0	3787.0	3644.7	3679.3
70°	3379.3	3490.8	3706.2	3762.0	3860.1	3860.1	3777.4	3660.1	3544.7	3252.3	3075.4
72.5°	2708.0	2783.0	3113.9	3385.0	3510.1	3460.1	3379.3	3183.1	2929.2	2608.0	2367.6
75°	1832.9	1877.2	2283.0	2779.2	3006.1	2963.8	2831.1	2586.9	2325.3	1967.6	1663.7
77.5°	1021.3	1079.0	1382.9	1771.4	2077.2	2071.4	2054.1	1898.3	1690.6	1394.4	1236.7
80°	600.1	619.3	778.9	1061.7	1325.2	1261.7	1217.5	1094.4	988.6	854.0	975.1
82.5°	367.4	348.1	442.4	646.2	782.8	755.9	680.9	634.7	584.7	548.1	648.2
85°	100.0	90.4	180.8	271.2	332.7	359.7	359.7	355.8	319.3	240.4	288.5
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):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
0°	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4
2.5°	1565.6	1567.5	1561.7	1575.2	1559.8	1552.1	1529.0	1529.0	1509.8	1494.4	1477.1
5°	1748.3	1759.8	1750.2	1752.1	1721.4	1690.6	1644.4	1617.5	1569.4	1517.5	1463.6
7.5°	1871.4	1890.6	1882.9	1850.2	1802.2	1736.8	1659.8	1586.7	1507.9	1423.3	1344.4
10°	1904.1	1925.2	1907.9	1846.4	1767.5	1675.2	1582.9	1484.8	1388.6	1298.2	1213.6
12.5°	1857.9	1873.3	1836.8	1769.5	1692.5	1600.2	1504.0	1419.4	1305.9	1209.8	1111.7
15°	1740.6	1731.0	1727.1	1679.1	1625.2	1550.2	1459.8	1373.3	1267.5	1169.4	1065.5
17.5°	1613.7	1602.1	1606.0	1586.7	1579.0	1544.4	1477.1	1404.0	1309.8	1190.5	1079.0
20°	1502.1	1490.6	1496.3	1506.0	1534.8	1536.7	1525.2	1477.1	1407.9	1282.9	1146.3
22.5°	1405.9	1407.9	1427.1	1454.0	1502.1	1563.7	1611.7	1621.4	1573.3	1427.1	1255.9
25°	1377.1	1367.5	1388.6	1432.9	1513.7	1632.9	1740.6	1794.5	1767.5	1621.4	1411.7
27.5°	1367.5	1354.0	1377.1	1434.8	1563.7	1731.0	1884.9	1965.6	1975.2	1825.2	1579.0
30°	1367.5	1361.7	1384.8	1459.8	1596.4	1763.7	1934.9	2056.0	2094.5	1969.5	1725.2
32.5°	1384.8	1388.6	1429.0	1525.2	1665.6	1836.8	2013.7	2144.5	2213.7	2119.5	1842.5
35°	1423.3	1430.9	1488.6	1600.2	1752.1	1925.2	2086.8	2219.5	2331.1	2281.1	1952.2
37.5°	1506.0	1517.5	1588.7	1702.1	1840.6	1996.4	2154.1	2296.4	2458.0	2436.8	2067.6
40°	1652.1	1652.1	1723.3	1821.4	1934.9	2054.1	2209.9	2377.2	2575.3	2604.2	2209.9
42.5°	1836.8	1829.1	1875.2	1946.4	2025.3	2125.3	2265.7	2452.2	2685.0	2748.4	2317.6
45°	2090.6	2052.2	2077.2	2094.5	2133.0	2194.5	2319.5	2523.4	2773.4	2856.1	2398.4
47.5°	2388.8	2334.9	2313.8	2281.1	2267.6	2290.7	2398.4	2579.2	2858.1	2948.4	2529.2
50°	2717.7	2665.7	2609.9	2521.5	2444.5	2421.5	2486.9	2654.2	2948.4	3063.8	2673.4
52.5°	3060.0	3023.5	2950.4	2811.9	2665.7	2583.0	2613.8	2779.2	3092.7	3242.7	2844.6
55°	3373.5	3385.0	3296.6	3135.0	2925.4	2798.4	2835.0	3000.4	3354.3	3531.2	3131.2
57.5°	3710.1	3679.3	3610.1	3442.7	3213.9	3077.3	3092.7	3292.7	3646.6	3781.2	3415.8
60°	3933.2	3933.2	3858.2	3731.2	3513.9	3387.0	3410.0	3594.7	3881.3	3894.7	3542.8
62.5°	4077.4	4098.6	4039.0	3948.6	3737.0	3631.2	3710.1	3840.9	3996.7	3885.1	3479.3
65°	4008.2	4031.3	4025.5	3925.5	3775.5	3767.8	3910.1	3940.9	3927.4	3744.7	3260.0
67.5°	3694.7	3648.5	3646.6	3594.7	3563.9	3723.5	3904.3	3914.0	3687.0	3469.7	2913.8
70°	3098.5	3019.6	2988.8	3004.2	3144.6	3442.7	3700.5	3627.4	3265.8	3079.2	2481.1
72.5°	2388.8	2294.5	2275.3	2334.9	2552.2	2971.5	3323.5	3221.6	2685.0	2467.6	1921.4
75°	1694.4	1654.1	1656.0	1773.3	2007.9	2411.8	2821.5	2811.9	1988.7	1702.1	1323.2
77.5°	1232.8	1240.5	1275.2	1321.3	1523.3	1913.7	2298.4	2273.4	1415.6	1169.4	925.1
80°	1017.4	1029.0	1029.0	1004.0	1055.9	1263.6	1561.7	1667.5	948.2	786.6	646.2
82.5°	730.9	788.6	821.3	780.9	761.6	832.8	979.0	1048.2	590.5	496.2	452.0
85°	348.1	398.1	409.7	400.1	459.7	525.1	559.7	573.1	323.1	230.8	296.2
87.5°	0.0	0.0	1.9	15.4	42.3	73.1	73.1	111.6	17.3	5.8	13.5
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°	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4
2.5°	1454.0	1429.0	1409.8	1386.7	1367.5	1348.2	1334.8	1305.9	1282.9	1230.9	1217.5
5°	1419.4	1365.6	1329.0	1294.4	1250.2	1219.4	1186.7	1146.3	1102.1	1027.1	1004.0
7.5°	1282.9	1215.5	1165.5	1115.5	1057.8	1005.9	957.8	904.0	827.0	746.2	715.5
10°	1134.8	1063.6	994.4	934.7	865.5	807.8	765.5	727.0	665.5	603.9	563.5
12.5°	1013.6	932.8	854.0	794.3	757.8	728.9	698.2	667.4	602.0	532.8	484.7
15°	957.8	863.6	794.3	744.3	711.6	677.0	640.5	605.8	528.9	448.1	390.4
17.5°	965.5	857.8	769.3	702.0	657.8	609.7	567.4	523.1	438.5	342.4	290.4
20°	1007.8	863.6	742.4	663.5	600.1	538.5	484.7	428.9	325.0	250.0	213.5
22.5°	1061.7	882.8	727.0	625.1	546.2	469.3	400.1	334.7	240.4	196.2	178.9
25°	1154.0	927.0	723.2	590.5	494.3	402.0	330.8	261.6	194.3	173.1	163.5
27.5°	1269.4	977.0	727.0	565.5	450.1	348.1	269.3	217.3	175.0	163.5	155.8
30°	1384.8	1029.0	709.7	527.0	398.1	298.1	230.8	198.1	173.1	159.6	146.2
32.5°	1486.7	1067.4	680.9	486.6	352.0	253.9	196.2	169.3	151.9	136.6	132.7
35°	1559.8	1084.8	648.2	461.6	321.2	227.0	173.1	151.9	134.6	119.2	111.6
37.5°	1629.1	1086.7	613.5	438.5	309.7	215.4	159.6	140.4	125.0	111.6	103.9
40°	1700.2	1079.0	594.3	415.4	292.3	209.6	153.9	130.8	121.2	105.8	98.1
42.5°	1752.1	1065.5	586.6	402.0	277.0	194.3	150.0	128.9	115.4	103.9	94.2
45°	1800.2	1052.1	586.6	390.4	265.4	184.6	142.3	130.8	111.6	101.9	90.4
47.5°	1857.9	1057.8	588.5	380.8	255.8	175.0	134.6	126.9	113.5	100.0	88.5
50°	1956.0	1123.2	598.2	375.0	248.1	167.3	128.9	121.2	125.0	98.1	86.5
52.5°	2125.3	1227.1	613.5	371.2	240.4	161.6	121.2	117.3	126.9	98.1	84.6
55°	2346.5	1332.9	628.9	361.6	228.9	150.0	117.3	109.6	117.3	98.1	82.7
57.5°	2561.9	1411.7	642.4	348.1	209.6	138.5	111.6	103.9	107.7	96.2	78.9
60°	2686.9	1473.3	655.9	325.0	186.6	125.0	105.8	98.1	96.2	96.2	76.9
62.5°	2721.5	1450.2	648.2	296.2	167.3	115.4	100.0	92.3	86.5	98.1	76.9
65°	2611.9	1329.0	619.3	271.2	153.9	111.6	94.2	88.5	82.7	84.6	73.1
67.5°	2275.3	1117.4	540.5	248.1	151.9	109.6	90.4	84.6	76.9	75.0	69.2
70°	1856.0	877.0	448.1	230.8	150.0	109.6	86.5	78.9	73.1	67.3	63.5
72.5°	1427.1	655.9	377.0	223.1	151.9	107.7	80.8	71.2	65.4	61.5	57.7
75°	1004.0	463.5	313.5	200.0	142.3	101.9	75.0	63.5	57.7	53.9	50.0
77.5°	727.0	315.4	232.7	161.6	121.2	88.5	65.4	53.9	48.1	46.2	42.3
80°	463.5	194.3	155.8	119.2	88.5	69.2	50.0	42.3	38.5	34.6	32.7
82.5°	267.3	113.5	94.2	80.8	57.7	46.2	36.5	32.7	25.0	23.1	21.2
85°	163.5	71.2	51.9	42.3	36.5	28.8	21.2	19.2	13.5	11.5	9.6
87.5°	36.5	15.4	13.5	9.6	11.5	9.6	5.8	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°	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4
2.5°	1196.3	1167.5	1169.4	1163.6	1148.2	1123.2	1115.5	1102.1	1104.0	1111.7	1104.0
5°	977.0	942.4	946.3	944.4	929.0	911.7	898.2	880.9	875.1	880.9	871.3
7.5°	692.4	669.3	677.0	694.3	692.4	682.8	671.2	652.0	648.2	650.1	632.8
10°	528.9	505.8	500.1	498.1	494.3	488.5	473.1	457.8	452.0	453.9	442.4
12.5°	442.4	423.1	400.1	378.9	359.7	352.0	332.7	323.1	321.2	321.2	315.4
15°	350.0	334.7	321.2	300.0	284.7	273.1	259.6	252.0	250.0	252.0	252.0
17.5°	261.6	253.9	248.1	246.2	238.5	230.8	223.1	219.3	217.3	217.3	219.3
20°	200.0	198.1	198.1	198.1	207.7	215.4	217.3	211.6	209.6	207.7	205.8
22.5°	173.1	171.2	173.1	184.6	178.9	173.1	173.1	173.1	173.1	173.1	175.0
25°	159.6	161.6	163.5	157.7	151.9	148.1	146.2	146.2	144.2	144.2	146.2
27.5°	151.9	150.0	148.1	144.2	140.4	134.6	132.7	130.8	130.8	130.8	130.8
30°	142.3	140.4	138.5	134.6	128.9	121.2	119.2	119.2	117.3	119.2	119.2
32.5°	130.8	128.9	126.9	123.1	117.3	113.5	111.6	107.7	107.7	107.7	109.6
35°	105.8	103.9	103.9	105.8	105.8	103.9	103.9	100.0	100.0	100.0	100.0
37.5°	98.1	96.2	96.2	94.2	96.2	98.1	96.2	94.2	94.2	92.3	92.3
40°	92.3	92.3	90.4	88.5	88.5	92.3	90.4	88.5	86.5	86.5	86.5
42.5°	88.5	86.5	86.5	84.6	84.6	84.6	82.7	80.8	78.9	78.9	78.9
45°	84.6	84.6	82.7	80.8	78.9	78.9	75.0	73.1	73.1	73.1	75.0
47.5°	82.7	80.8	80.8	78.9	76.9	73.1	71.2	69.2	69.2	69.2	69.2
50°	80.8	78.9	76.9	76.9	73.1	71.2	69.2	67.3	67.3	67.3	67.3
52.5°	78.9	76.9	75.0	73.1	71.2	69.2	67.3	65.4	65.4	65.4	65.4
55°	75.0	73.1	73.1	71.2	71.2	69.2	67.3	65.4	65.4	65.4	63.5
57.5°	73.1	71.2	69.2	69.2	69.2	67.3	65.4	63.5	63.5	63.5	63.5
60°	71.2	69.2	69.2	67.3	67.3	65.4	65.4	63.5	61.5	61.5	59.6
62.5°	69.2	67.3	67.3	65.4	67.3	65.4	63.5	61.5	59.6	59.6	57.7
65°	67.3	65.4	65.4	65.4	63.5	63.5	61.5	57.7	57.7	57.7	55.8
67.5°	63.5	61.5	61.5	63.5	61.5	59.6	59.6	55.8	55.8	53.9	53.9
70°	57.7	57.7	57.7	59.6	57.7	55.8	55.8	53.9	51.9	50.0	50.0
72.5°	53.9	51.9	53.9	53.9	53.9	51.9	53.9	50.0	48.1	46.2	46.2
75°	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	44.2	42.3	40.4
77.5°	36.5	38.5	38.5	38.5	38.5	40.4	38.5	38.5	38.5	36.5	34.6
80°	26.9	26.9	28.8	30.8	28.8	30.8	28.8	30.8	28.8	28.8	28.8
82.5°	15.4	15.4	17.3	19.2	19.2	21.2	17.3	19.2	19.2	21.2	19.2
85°	5.8	5.8	5.8	5.8	7.7	7.7	5.8	7.7	7.7	9.6	9.6
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°	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4
2.5°	1119.4	1119.4	1096.3	1100.1	1104.0	1111.7	1107.8	1105.9	1104.0	1115.5	1121.3
5°	879.0	877.0	848.2	846.3	852.0	854.0	848.2	838.6	832.8	834.7	840.5
7.5°	638.5	632.8	605.8	602.0	600.1	602.0	596.2	586.6	578.9	580.8	586.6
10°	446.2	430.8	427.0	428.9	432.7	436.6	436.6	436.6	438.5	450.1	463.5
12.5°	323.1	317.3	321.2	325.0	332.7	338.5	344.3	346.2	348.1	363.5	375.0
15°	255.8	255.8	259.6	261.6	265.4	269.3	273.1	273.1	275.0	280.8	290.4
17.5°	221.2	221.2	221.2	221.2	221.2	219.3	217.3	213.5	211.6	209.6	211.6
20°	203.9	201.9	198.1	196.2	192.3	188.5	186.6	180.8	178.9	173.1	171.2
22.5°	175.0	173.1	173.1	173.1	173.1	171.2	169.3	167.3	163.5	157.7	153.9
25°	144.2	144.2	144.2	146.2	146.2	148.1	151.9	151.9	151.9	151.9	146.2
27.5°	130.8	130.8	130.8	130.8	132.7	132.7	134.6	134.6	134.6	136.6	138.5
30°	119.2	121.2	121.2	123.1	123.1	125.0	125.0	126.9	126.9	128.9	128.9
32.5°	109.6	109.6	111.6	113.5	113.5	113.5	117.3	117.3	115.4	117.3	117.3
35°	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	94.2	92.3	94.2
37.5°	90.4	88.5	88.5	86.5	84.6	84.6	84.6	86.5	84.6	86.5	86.5
40°	82.7	82.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	82.7	84.6
42.5°	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	78.9	78.9
45°	73.1	73.1	73.1	73.1	75.0	75.0	75.0	75.0	75.0	75.0	76.9
47.5°	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	73.1	75.0
50°	67.3	67.3	69.2	69.2	69.2	69.2	69.2	69.2	69.2	71.2	73.1
52.5°	65.4	65.4	65.4	67.3	67.3	67.3	67.3	67.3	67.3	67.3	69.2
55°	63.5	65.4	65.4	65.4	65.4	65.4	63.5	63.5	63.5	63.5	65.4
57.5°	61.5	61.5	63.5	63.5	63.5	61.5	61.5	59.6	59.6	59.6	63.5
60°	59.6	59.6	59.6	59.6	59.6	57.7	57.7	57.7	57.7	59.6	59.6
62.5°	57.7	57.7	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
65°	55.8	55.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
67.5°	51.9	51.9	51.9	50.0	50.0	50.0	50.0	51.9	50.0	50.0	50.0
70°	48.1	48.1	48.1	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
72.5°	44.2	44.2	44.2	44.2	42.3	42.3	42.3	42.3	42.3	42.3	42.3
75°	40.4	38.5	38.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
77.5°	34.6	32.7	32.7	32.7	30.8	30.8	30.8	30.8	30.8	30.8	30.8
80°	28.8	26.9	26.9	25.0	25.0	25.0	25.0	25.0	25.0	23.1	23.1
82.5°	21.2	19.2	19.2	19.2	19.2	17.3	17.3	17.3	17.3	15.4	13.5
85°	9.6	9.6	7.7	9.6	9.6	11.5	9.6	9.6	9.6	7.7	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°	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	0°
2.5°	1117.4	1136.7	1138.6	1127.1	1150.1	1154.0	1148.2	1148.2	1152.1	1167.5	1167.5	2.5°
5°	832.8	857.8	855.9	840.5	871.3	880.9	875.1	877.0	884.7	902.0	911.7	5°
7.5°	588.5	609.7	607.8	605.8	625.1	632.8	636.6	642.4	665.5	667.4	678.9	7.5°
10°	477.0	496.2	502.0	515.4	521.2	532.8	540.5	550.1	569.3	578.9	592.4	10°
12.5°	386.6	409.7	415.4	430.8	438.5	452.0	459.7	478.9	490.4	502.0	519.3	12.5°
15°	298.1	317.3	323.1	334.7	342.4	357.7	365.4	377.0	400.1	411.6	434.7	15°
17.5°	219.3	230.8	234.6	242.3	248.1	253.9	269.3	288.5	302.0	321.2	332.7	17.5°
20°	171.2	175.0	176.9	178.9	182.7	186.6	194.3	207.7	215.4	230.8	242.3	20°
22.5°	153.9	155.8	155.8	157.7	157.7	159.6	163.5	167.3	171.2	176.9	182.7	22.5°
25°	142.3	144.2	144.2	146.2	146.2	148.1	150.0	151.9	155.8	157.7	159.6	25°
27.5°	136.6	136.6	136.6	136.6	138.5	138.5	140.4	144.2	144.2	148.1	150.0	27.5°
30°	130.8	130.8	130.8	132.7	134.6	138.5	142.3	148.1	150.0	153.9	155.8	30°
32.5°	121.2	117.3	121.2	119.2	115.4	115.4	117.3	121.2	121.2	123.1	125.0	32.5°
35°	94.2	94.2	96.2	98.1	98.1	100.0	101.9	103.9	105.8	109.6	111.6	35°
37.5°	88.5	90.4	90.4	92.3	94.2	94.2	96.2	100.0	101.9	103.9	105.8	37.5°
40°	84.6	86.5	88.5	90.4	90.4	92.3	94.2	96.2	98.1	101.9	103.9	40°
42.5°	80.8	84.6	84.6	86.5	88.5	90.4	92.3	94.2	98.1	100.0	101.9	42.5°
45°	78.9	80.8	82.7	84.6	86.5	88.5	90.4	94.2	96.2	100.0	101.9	45°
47.5°	76.9	78.9	80.8	82.7	84.6	86.5	88.5	92.3	96.2	100.0	103.9	47.5°
50°	73.1	76.9	78.9	80.8	82.7	84.6	88.5	92.3	96.2	101.9	111.6	50°
52.5°	71.2	75.0	75.0	78.9	80.8	84.6	88.5	92.3	98.1	105.8	115.4	52.5°
55°	67.3	71.2	71.2	75.0	78.9	82.7	84.6	90.4	96.2	103.9	105.8	55°
57.5°	63.5	67.3	69.2	71.2	75.0	78.9	80.8	86.5	94.2	96.2	94.2	57.5°
60°	61.5	63.5	65.4	67.3	71.2	73.1	78.9	90.4	98.1	90.4	80.8	60°
62.5°	57.7	61.5	63.5	65.4	69.2	71.2	75.0	82.7	84.6	75.0	73.1	62.5°
65°	55.8	59.6	59.6	63.5	65.4	65.4	67.3	67.3	67.3	67.3	67.3	65°
67.5°	51.9	55.8	55.8	57.7	59.6	59.6	61.5	61.5	61.5	61.5	61.5	67.5°
70°	48.1	50.0	51.9	53.9	53.9	53.9	55.8	55.8	55.8	57.7	57.7	70°
72.5°	44.2	46.2	46.2	48.1	48.1	50.0	50.0	51.9	51.9	51.9	53.9	72.5°
75°	36.5	38.5	40.4	42.3	42.3	44.2	44.2	44.2	44.2	46.2	46.2	75°
77.5°	30.8	30.8	34.6	34.6	36.5	36.5	38.5	38.5	38.5	38.5	38.5	77.5°
80°	23.1	23.1	25.0	26.9	28.8	28.8	28.8	28.8	28.8	28.8	28.8	80°
82.5°	13.5	13.5	15.4	15.4	17.3	17.3	19.2	17.3	17.3	15.4	15.4	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°
1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	1344.4	0°	1344.4
1196.3	1196.3	1200.2	1215.5	1219.4	1229.0	1227.1	1244.4	1252.1	1298.2	1346.3	2.5°	1392.5
946.3	954.0	965.5	984.7	996.3	1017.4	1013.6	1048.2	1054.0	1138.6	1221.3	5°	1317.5
705.9	717.4	727.0	748.2	765.5	786.6	792.4	832.8	844.3	955.9	1071.3	7.5°	1204.0
611.6	621.2	634.7	648.2	665.5	675.1	690.5	709.7	723.2	805.9	938.6	10°	1090.5
544.3	557.8	571.2	590.5	607.8	625.1	640.5	659.7	677.0	744.3	848.2	12.5°	1023.2
461.6	477.0	492.4	513.5	538.5	555.8	573.1	594.3	615.5	698.2	819.3	15°	996.3
357.7	375.0	396.2	425.1	452.0	473.1	490.4	519.3	546.2	646.2	805.9	17.5°	1023.2
263.5	278.9	298.1	323.1	342.4	378.9	398.1	432.7	465.4	590.5	786.6	20°	1075.1
194.3	203.9	219.3	238.5	259.6	292.3	313.5	344.3	380.8	538.5	786.6	22.5°	1163.6
163.5	167.3	173.1	184.6	198.1	221.2	242.3	273.1	309.7	492.4	807.8	25°	1307.9
151.9	153.9	157.7	163.5	171.2	182.7	198.1	223.1	259.6	455.8	838.6	27.5°	1461.7
159.6	159.6	159.6	161.6	165.4	171.2	178.9	194.3	217.3	402.0	859.7	30°	1596.4
128.9	130.8	130.8	134.6	136.6	144.2	151.9	163.5	184.6	369.3	873.2	32.5°	1692.5
115.4	117.3	119.2	121.2	125.0	126.9	134.6	148.1	169.3	348.1	871.3	35°	1806.0
109.6	111.6	113.5	113.5	115.4	119.2	125.0	138.5	163.5	340.4	871.3	37.5°	1936.8
107.7	107.7	107.7	107.7	111.6	115.4	125.0	138.5	159.6	332.7	877.0	40°	2081.0
103.9	103.9	103.9	105.8	111.6	119.2	123.1	130.8	148.1	328.9	886.7	42.5°	2211.8
103.9	103.9	105.8	113.5	115.4	115.4	117.3	123.1	140.4	328.9	905.9	45°	2313.8
107.7	111.6	113.5	111.6	109.6	109.6	109.6	117.3	134.6	334.7	942.4	47.5°	2431.1
117.3	115.4	107.7	105.8	105.8	101.9	103.9	111.6	132.7	334.7	1017.4	50°	2592.6
115.4	107.7	105.8	101.9	98.1	96.2	98.1	109.6	130.8	330.8	1125.1	52.5°	2829.2
103.9	101.9	96.2	92.3	90.4	92.3	96.2	105.8	126.9	327.0	1257.9	55°	3115.8
90.4	88.5	84.6	84.6	86.5	88.5	94.2	101.9	117.3	317.3	1363.6	57.5°	3379.3
78.9	78.9	78.9	80.8	82.7	84.6	90.4	96.2	107.7	300.0	1434.8	60°	3548.5
71.2	73.1	73.1	76.9	78.9	80.8	84.6	90.4	98.1	280.8	1450.2	62.5°	3550.4
67.3	69.2	71.2	71.2	73.1	75.0	80.8	86.5	98.1	265.4	1355.9	65°	3410.0
63.5	63.5	65.4	67.3	69.2	71.2	75.0	84.6	100.0	252.0	1150.1	67.5°	3054.2
57.7	59.6	61.5	63.5	63.5	65.4	71.2	84.6	101.9	246.2	913.6	70°	2579.2
53.9	53.9	55.8	57.7	57.7	61.5	67.3	82.7	103.9	236.6	688.5	72.5°	2011.8
46.2	48.1	48.1	48.1	50.0	53.9	61.5	75.0	90.4	196.2	465.4	75°	1363.6
40.4	38.5	40.4	40.4	42.3	44.2	50.0	57.7	67.3	125.0	246.2	77.5°	867.4
28.8	26.9	26.9	28.8	28.8	28.8	32.7	34.6	38.5	76.9	136.6	80°	511.6
15.4	13.5	15.4	13.5	13.5	15.4	15.4	19.2	19.2	36.5	61.5	82.5°	317.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	13.5	85°	128.9
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°
1344.4	1344.4
1415.6	1427.1
1365.6	1380.9
1257.9	1279.0
1157.8	1179.0
1104.0	1115.5
1079.0	1102.1
1115.5	1138.6
1188.6	1225.2
1317.5	1363.6
1521.3	1561.7
1682.9	1746.4
1832.9	1884.9
1952.2	2011.8
2088.7	2146.4
2254.1	2333.0
2425.3	2513.8
2584.9	2683.0
2735.0	2811.9
2850.4	2936.9
2996.5	3098.5
3244.6	3317.7
3544.7	3627.4
3823.6	3894.7
3952.4	4012.0
3956.3	4031.3
3871.6	3956.3
3656.2	3787.0
3233.1	3379.3
2540.7	2708.0
1686.8	1832.9
973.2	1021.3
575.1	600.1
342.4	367.4
92.3	100.0
0.0	0.0
0.0	0.0

(END OF REPORT)