

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: P271505

Luminaire Tested: **ISS-AF-450-LED-E1-SLL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271505
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-450-LED-E1-SLL-7027
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2171 lumens
Efficiency: N/A
Efficacy: 85.8 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

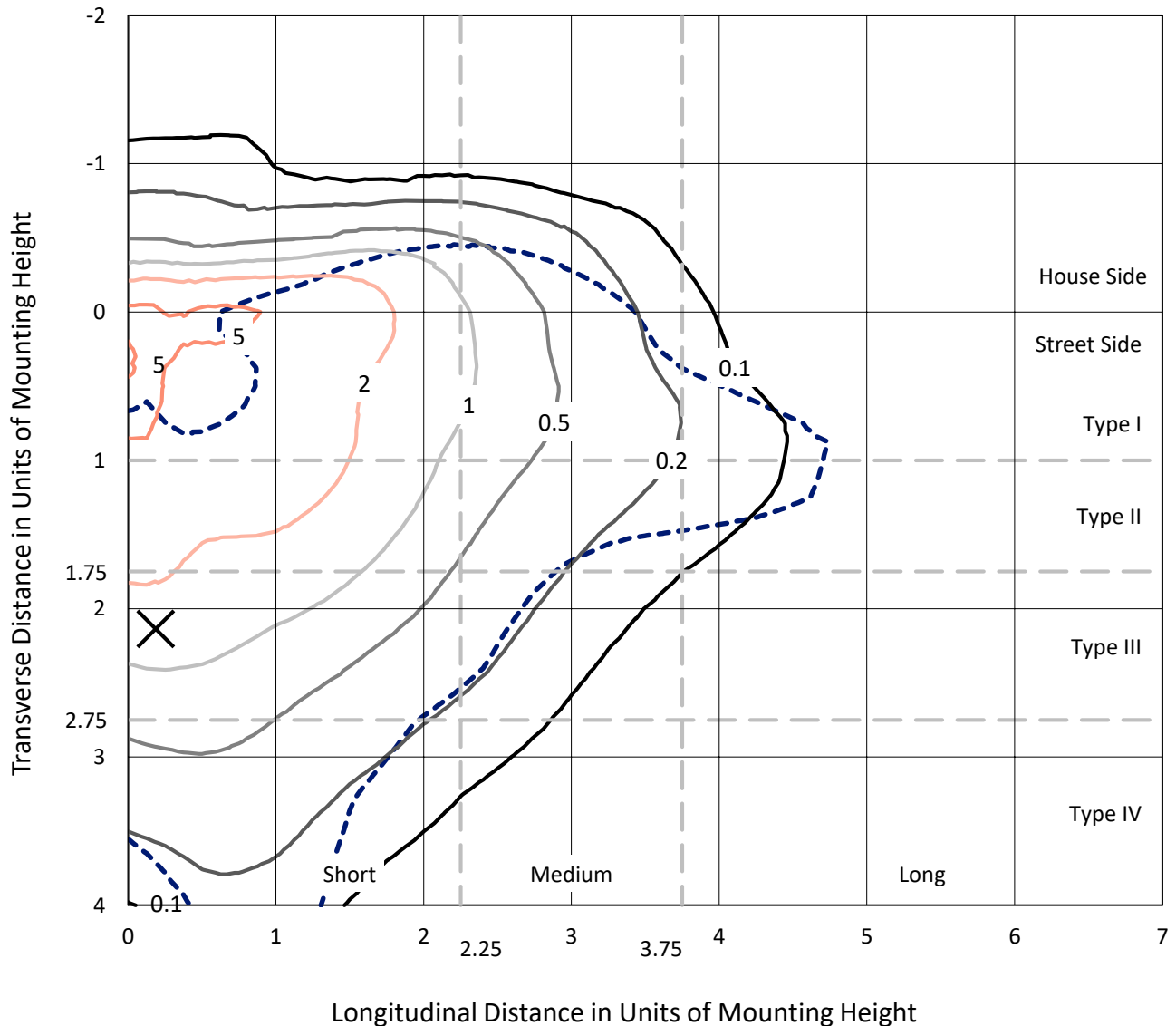
Input Watts (W): 25.31
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

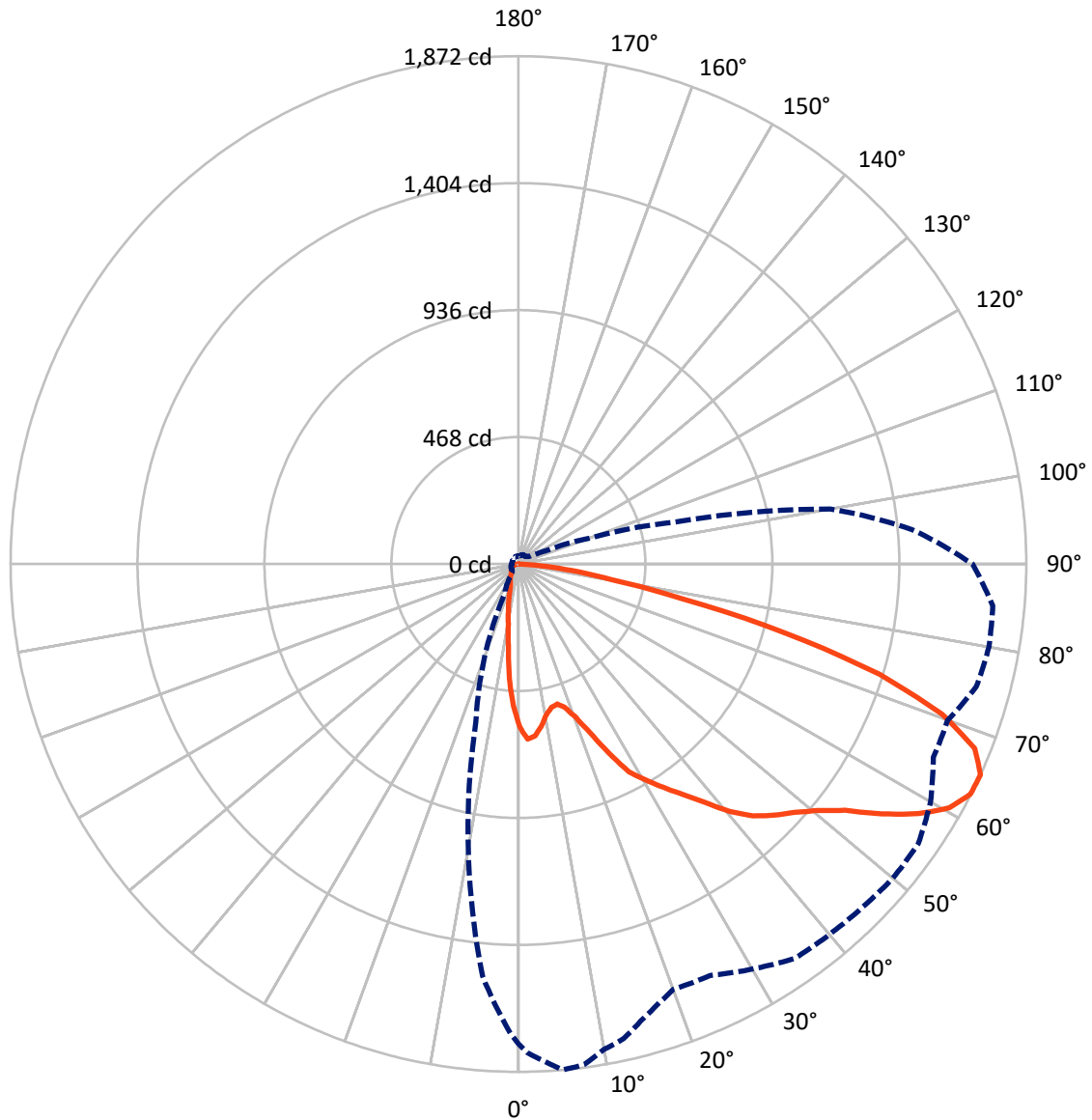
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.1 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	361.0	0.0	361.0
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	1810.0	0.0	1810.0
	% Fixture	83.4	0.0	83.4
Total	Lumens	2171.0	0.0	2171.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	2.1
10°-20°	95.1	4.4
20°-30°	138.2	6.4
30°-40°	204.4	9.4
40°-50°	297.8	13.7
50°-60°	446.4	20.6
60°-70°	556.3	25.6
70°-80°	325.9	15.0
80°-90°	60.9	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°	2171.0	100.0
0°-180°	2171.0	100.0



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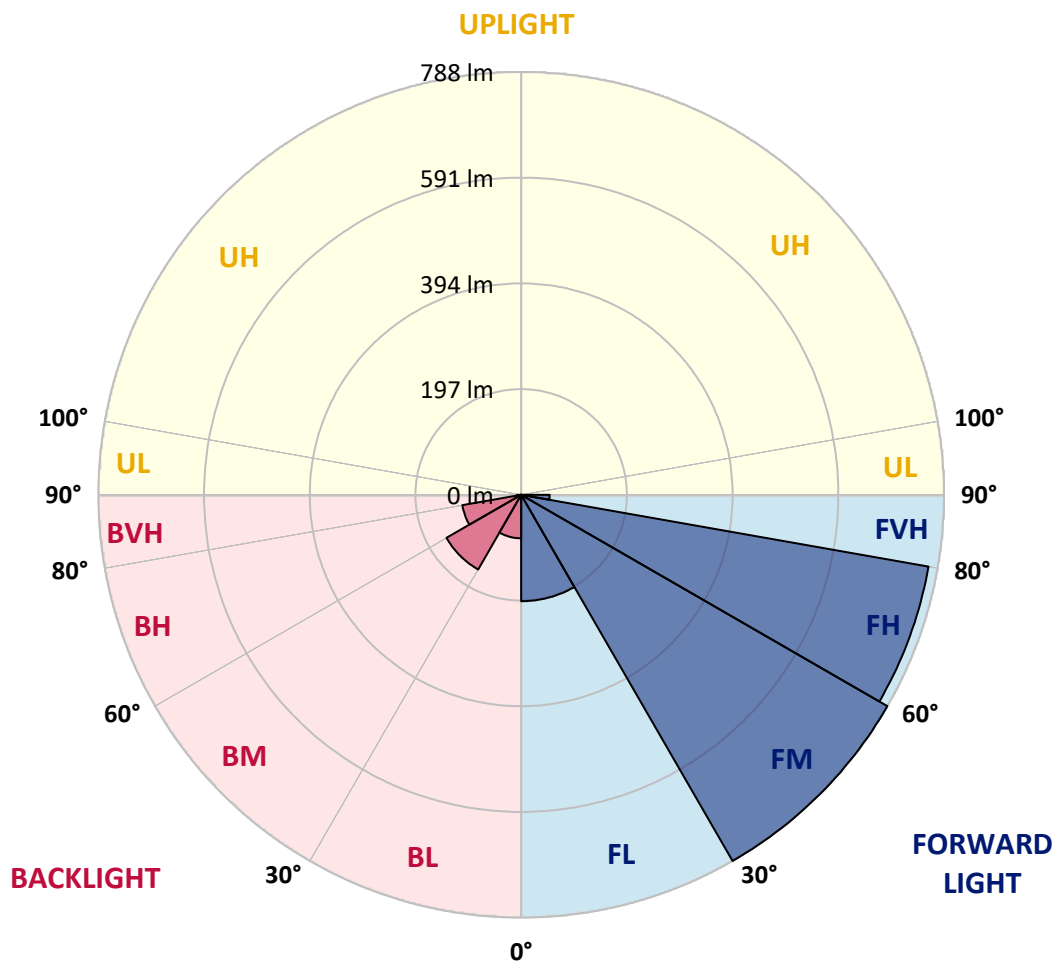
CATALOG NUMBER: ISS-AF-450-LED-E1-SLL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	198.3	9.1			
FM	(30°-60°)	787.9	36.3			
FH	(60°-80°)	770.7	35.5			G1/1800
FVH	(80°-90°)	53.1	2.4			G1/100
BL	(0°-30°)	81.1	3.7	B0/110		
BM	(30°-60°)	160.7	7.4	B0/220		
BH	(60°-80°)	111.4	5.1	B1/500		G1/500
BVH	(80°-90°)	7.8	0.4			G0/10
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°	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8
2.5°	637.8	636.1	646.4	648.0	655.0	655.0	662.7	669.6	672.1	678.2	693.6
5°	617.1	622.3	636.9	651.5	661.8	672.1	683.3	697.1	708.2	727.2	766.7
7.5°	571.6	579.4	604.3	618.8	635.2	653.2	667.0	683.3	700.5	732.3	802.7
10°	526.9	533.0	564.8	582.8	606.0	625.0	644.6	662.7	681.6	721.2	802.7
12.5°	498.5	506.3	542.4	559.6	586.2	606.0	630.0	651.5	673.9	715.9	795.1
15°	492.5	501.2	535.5	556.9	580.1	599.1	620.5	643.0	665.3	706.6	777.0
17.5°	508.8	519.2	556.1	580.1	598.2	619.7	635.2	656.8	671.3	703.9	737.5
20°	547.6	559.6	603.4	626.6	641.2	655.0	667.0	679.8	685.9	693.6	687.7
22.5°	609.4	624.1	673.9	700.5	710.8	721.2	722.0	723.8	719.5	698.8	652.3
25°	697.9	712.5	769.3	795.1	795.1	795.1	785.6	778.7	759.0	720.4	643.0
27.5°	780.4	799.3	867.2	883.7	878.5	870.6	852.6	835.4	807.0	742.6	642.1
30°	842.3	861.3	924.0	936.9	924.0	905.1	876.7	851.9	818.3	753.8	648.0
32.5°	899.0	921.4	981.6	983.4	960.1	938.5	906.7	878.5	843.1	774.4	666.1
35°	959.2	981.6	1042.7	1030.5	997.1	967.8	935.1	910.3	874.9	801.1	695.4
37.5°	1042.7	1062.3	1114.0	1085.6	1042.7	1004.8	969.5	936.9	901.7	837.2	744.3
40°	1123.4	1151.8	1199.1	1153.5	1101.1	1050.4	1011.7	977.3	938.5	886.2	807.0
42.5°	1199.1	1225.6	1269.6	1211.1	1150.1	1099.3	1058.9	1022.0	985.0	942.1	882.8
45°	1256.5	1284.1	1321.0	1259.2	1189.5	1137.2	1093.3	1060.7	1028.0	998.7	978.2
47.5°	1312.5	1340.0	1368.4	1301.4	1232.6	1179.3	1127.7	1097.5	1071.9	1056.4	1081.3
50°	1384.6	1403.6	1427.7	1355.5	1282.4	1221.3	1169.9	1146.6	1122.5	1127.7	1211.1
52.5°	1482.7	1499.0	1507.6	1437.2	1355.5	1285.8	1229.2	1197.4	1177.6	1207.6	1348.5
55°	1621.1	1644.3	1625.3	1555.8	1452.6	1373.5	1303.9	1266.1	1254.0	1294.5	1486.2
57.5°	1740.6	1750.9	1737.1	1668.3	1562.6	1474.1	1400.2	1360.7	1346.9	1400.2	1611.6
60°	1792.9	1805.9	1824.7	1765.5	1666.6	1579.0	1515.4	1476.6	1453.5	1515.4	1712.2
62.5°	1801.6	1823.1	1869.6	1839.4	1761.1	1695.9	1638.3	1585.0	1566.9	1614.3	1778.4
65°	1768.0	1800.7	1872.1	1860.9	1817.0	1792.1	1744.0	1702.7	1668.3	1673.5	1774.9
67.5°	1692.4	1730.2	1813.6	1808.5	1813.6	1813.6	1771.5	1737.1	1692.4	1628.8	1644.3
70°	1510.2	1560.1	1656.4	1681.3	1725.0	1725.0	1688.2	1635.6	1584.1	1453.5	1374.4
72.5°	1210.3	1243.7	1391.6	1512.7	1568.6	1546.3	1510.2	1422.6	1309.1	1165.6	1058.0
75°	819.2	838.8	1020.3	1242.1	1343.4	1324.6	1265.3	1156.1	1039.2	879.4	743.4
77.5°	456.4	482.2	618.0	791.7	928.3	925.7	918.0	848.4	755.6	623.2	552.6
80°	268.1	276.8	348.1	474.5	592.3	563.9	544.0	489.0	441.8	381.6	435.8
82.5°	164.2	155.6	197.6	288.9	349.8	337.9	304.3	283.7	261.2	245.0	289.6
85°	44.6	40.4	80.8	121.2	148.7	160.8	160.8	159.0	142.7	107.4	129.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8
2.5°	699.7	700.5	697.9	703.9	697.1	693.6	683.3	683.3	674.8	667.9	660.2
5°	781.3	786.5	782.2	783.1	769.3	755.6	734.9	722.9	701.4	678.2	654.1
7.5°	836.3	844.9	841.5	826.9	805.4	776.1	741.8	709.1	673.9	636.1	600.8
10°	851.0	860.4	852.6	825.1	789.9	748.6	707.3	663.6	620.5	580.1	542.4
12.5°	830.3	837.2	820.8	790.8	756.5	715.1	672.1	634.3	583.6	540.6	496.9
15°	777.9	773.6	771.8	750.4	726.3	692.9	652.3	613.7	566.4	522.6	476.2
17.5°	721.2	715.9	717.7	709.1	705.7	690.2	660.2	627.5	585.3	532.1	482.2
20°	671.3	666.1	668.7	673.0	685.9	686.8	681.6	660.2	629.2	573.3	512.2
22.5°	628.4	629.2	637.8	649.8	671.3	698.8	720.4	724.7	703.1	637.8	561.4
25°	615.4	611.2	620.5	640.3	676.4	729.7	777.9	802.0	789.9	724.7	630.9
27.5°	611.2	605.1	615.4	641.2	698.8	773.6	842.3	878.5	882.8	815.8	705.7
30°	611.2	608.5	618.8	652.3	713.4	788.3	864.7	918.9	936.0	880.2	770.9
32.5°	618.8	620.5	638.7	681.6	744.3	820.8	899.9	958.4	989.3	947.3	823.5
35°	636.1	639.5	665.3	715.1	783.1	860.4	932.6	991.9	1041.8	1019.4	872.4
37.5°	673.0	678.2	710.0	760.7	822.6	892.2	962.6	1026.2	1098.4	1089.0	924.0
40°	738.4	738.4	770.2	814.0	864.7	918.0	987.6	1062.3	1150.9	1163.8	987.6
42.5°	820.8	817.4	838.1	869.9	905.1	949.8	1012.5	1095.9	1199.9	1228.3	1035.7
45°	934.2	917.1	928.3	936.0	953.2	980.7	1036.6	1127.7	1239.4	1276.4	1071.9
47.5°	1067.5	1043.5	1033.9	1019.4	1013.4	1023.7	1071.9	1152.6	1277.3	1317.6	1130.2
50°	1214.5	1191.3	1166.4	1126.8	1092.5	1082.2	1111.3	1186.1	1317.6	1369.3	1194.7
52.5°	1367.5	1351.2	1318.5	1256.5	1191.3	1154.3	1168.1	1242.1	1382.1	1449.1	1271.2
55°	1507.6	1512.7	1473.2	1401.1	1307.3	1250.6	1267.0	1340.9	1499.0	1578.1	1399.3
57.5°	1658.0	1644.3	1613.4	1538.5	1436.3	1375.2	1382.1	1471.5	1629.6	1689.8	1526.5
60°	1757.7	1757.7	1724.3	1667.5	1570.3	1513.6	1524.0	1606.5	1734.5	1740.6	1583.3
62.5°	1822.2	1831.6	1805.1	1764.6	1670.1	1622.8	1658.0	1716.5	1786.1	1736.2	1554.9
65°	1791.3	1801.6	1798.9	1754.3	1687.3	1683.9	1747.5	1761.1	1755.2	1673.5	1456.9
67.5°	1651.2	1630.5	1629.6	1606.5	1592.8	1664.0	1744.9	1749.1	1647.7	1550.6	1302.3
70°	1384.6	1349.4	1335.7	1342.6	1405.3	1538.5	1653.7	1621.1	1459.5	1376.1	1108.8
72.5°	1067.5	1025.4	1016.8	1043.5	1140.6	1328.0	1485.3	1439.7	1199.9	1102.8	858.7
75°	757.2	739.1	740.0	792.5	897.4	1077.9	1261.0	1256.5	888.7	760.7	591.4
77.5°	551.0	554.4	569.9	590.5	680.7	855.3	1027.1	1015.9	632.7	522.6	413.4
80°	454.7	459.8	459.8	448.6	471.9	564.8	697.9	745.2	423.7	351.6	288.9
82.5°	326.6	352.5	367.0	349.0	340.4	372.2	437.6	468.5	263.9	221.7	202.0
85°	155.6	178.0	183.1	178.9	205.4	234.6	250.1	256.2	144.4	103.1	132.4
87.5°	0.0	0.0	0.9	6.8	19.0	32.7	32.7	49.9	7.7	2.5	6.0
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):

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°
0°	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8
2.5°	649.8	638.7	630.0	619.7	611.2	602.5	596.6	583.6	573.3	550.1	544.0
5°	634.3	610.3	593.9	578.5	558.7	544.9	530.3	512.2	492.5	458.9	448.6
7.5°	573.3	543.3	520.8	498.5	472.8	449.5	428.0	404.0	369.7	333.5	319.8
10°	507.1	475.3	444.4	417.7	386.8	361.0	342.1	324.8	297.4	269.9	251.9
12.5°	452.9	416.8	381.6	355.0	338.6	325.7	312.0	298.2	269.0	238.1	216.6
15°	428.0	385.9	355.0	332.6	318.0	302.5	286.2	270.7	236.3	200.2	174.5
17.5°	431.5	383.4	343.8	313.7	293.9	272.5	253.5	233.8	196.0	153.0	129.7
20°	450.4	385.9	331.7	296.5	268.1	240.7	216.6	191.7	145.3	111.7	95.4
22.5°	474.5	394.5	324.8	279.4	244.1	209.8	178.9	149.6	107.4	87.7	79.9
25°	515.6	414.3	323.2	263.9	220.9	179.6	147.8	116.9	86.9	77.3	73.0
27.5°	567.3	436.7	324.8	252.7	201.1	155.6	120.4	97.2	78.2	73.0	69.6
30°	618.8	459.8	317.2	235.5	178.0	133.2	103.1	88.6	77.3	71.3	65.4
32.5°	664.5	477.0	304.3	217.5	157.3	113.5	87.7	75.6	67.9	61.1	59.3
35°	697.1	484.7	289.6	206.3	143.5	101.4	77.3	67.9	60.2	53.3	49.9
37.5°	728.1	485.6	274.3	196.0	138.4	96.3	71.3	62.7	55.9	49.9	46.4
40°	759.9	482.2	265.6	185.7	130.6	93.7	68.8	58.5	54.2	47.3	43.8
42.5°	783.1	476.2	262.1	179.6	123.8	86.9	67.0	57.6	51.6	46.4	42.1
45°	804.5	470.2	262.1	174.5	118.7	82.6	63.6	58.5	49.9	45.5	40.4
47.5°	830.3	472.8	263.0	170.2	114.4	78.2	60.2	56.8	50.8	44.6	39.5
50°	874.1	502.0	267.3	167.6	110.9	74.8	57.6	54.2	55.9	43.8	38.6
52.5°	949.8	548.3	274.3	165.8	107.4	72.2	54.2	52.4	56.8	43.8	37.8
55°	1048.6	595.7	281.1	161.5	102.2	67.0	52.4	49.0	52.4	43.8	37.0
57.5°	1144.9	630.9	287.1	155.6	93.7	61.9	49.9	46.4	48.1	43.0	35.2
60°	1200.8	658.4	293.0	145.3	83.4	55.9	47.3	43.8	43.0	43.0	34.3
62.5°	1216.2	648.0	289.6	132.4	74.8	51.6	44.6	41.2	38.6	43.8	34.3
65°	1167.3	593.9	276.8	121.2	68.8	49.9	42.1	39.5	37.0	37.8	32.7
67.5°	1016.8	499.4	241.6	110.9	67.9	49.0	40.4	37.8	34.3	33.6	30.9
70°	829.5	391.9	200.2	103.1	67.0	49.0	38.6	35.2	32.7	30.1	28.4
72.5°	637.8	293.0	168.4	99.7	67.9	48.1	36.1	31.8	29.3	27.5	25.8
75°	448.6	207.1	140.0	89.4	63.6	45.5	33.6	28.4	25.8	24.1	22.4
77.5°	324.8	140.9	104.0	72.2	54.2	39.5	29.3	24.1	21.5	20.6	19.0
80°	207.1	86.9	69.6	53.3	39.5	30.9	22.4	19.0	17.2	15.5	14.6
82.5°	119.5	50.8	42.1	36.1	25.8	20.6	16.3	14.6	11.2	10.3	9.4
85°	73.0	31.8	23.2	19.0	16.3	12.8	9.4	8.6	6.0	5.2	4.3
87.5°	16.3	6.8	6.0	4.3	5.2	4.3	2.5	1.8	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°	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8
2.5°	534.6	521.7	522.6	520.0	513.1	502.0	498.5	492.5	493.3	496.9	493.3
5°	436.7	421.1	422.9	422.0	415.2	407.4	401.5	393.6	391.1	393.6	389.3
7.5°	309.5	299.1	302.5	310.3	309.5	305.2	299.9	291.4	289.6	290.5	282.8
10°	236.3	226.0	223.5	222.6	220.9	218.3	211.4	204.5	202.0	202.8	197.6
12.5°	197.6	189.1	178.9	169.3	160.8	157.3	148.7	144.4	143.5	143.5	140.9
15°	156.5	149.6	143.5	134.0	127.2	122.1	116.0	112.6	111.7	112.6	112.6
17.5°	116.9	113.5	110.9	110.0	106.6	103.1	99.7	97.9	97.2	97.2	97.9
20°	89.4	88.6	88.6	88.6	92.9	96.3	97.2	94.5	93.7	92.9	92.0
22.5°	77.3	76.4	77.3	82.6	79.9	77.3	77.3	77.3	77.3	77.3	78.2
25°	71.3	72.2	73.0	70.4	67.9	66.1	65.4	65.4	64.5	64.5	65.4
27.5°	67.9	67.0	66.1	64.5	62.7	60.2	59.3	58.5	58.5	58.5	58.5
30°	63.6	62.7	61.9	60.2	57.6	54.2	53.3	53.3	52.4	53.3	53.3
32.5°	58.5	57.6	56.8	55.0	52.4	50.8	49.9	48.1	48.1	48.1	49.0
35°	47.3	46.4	46.4	47.3	47.3	46.4	46.4	44.6	44.6	44.6	44.6
37.5°	43.8	43.0	43.0	42.1	43.0	43.8	43.0	42.1	42.1	41.2	41.2
40°	41.2	41.2	40.4	39.5	39.5	41.2	40.4	39.5	38.6	38.6	38.6
42.5°	39.5	38.6	38.6	37.8	37.8	37.8	37.0	36.1	35.2	35.2	35.2
45°	37.8	37.8	37.0	36.1	35.2	35.2	33.6	32.7	32.7	32.7	33.6
47.5°	37.0	36.1	36.1	35.2	34.3	32.7	31.8	30.9	30.9	30.9	30.9
50°	36.1	35.2	34.3	34.3	32.7	31.8	30.9	30.1	30.1	30.1	30.1
52.5°	35.2	34.3	33.6	32.7	31.8	30.9	30.1	29.3	29.3	29.3	29.3
55°	33.6	32.7	32.7	31.8	31.8	30.9	30.1	29.3	29.3	29.3	28.4
57.5°	32.7	31.8	30.9	30.9	30.9	30.1	29.3	28.4	28.4	28.4	28.4
60°	31.8	30.9	30.9	30.1	30.1	29.3	29.3	28.4	27.5	27.5	26.6
62.5°	30.9	30.1	30.1	29.3	30.1	29.3	28.4	27.5	26.6	26.6	25.8
65°	30.1	29.3	29.3	29.3	28.4	28.4	27.5	25.8	25.8	25.8	25.0
67.5°	28.4	27.5	27.5	28.4	27.5	26.6	26.6	25.0	25.0	24.1	24.1
70°	25.8	25.8	25.8	26.6	25.8	25.0	25.0	24.1	23.2	22.4	22.4
72.5°	24.1	23.2	24.1	24.1	24.1	23.2	24.1	22.4	21.5	20.6	20.6
75°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	19.8	19.0	18.1
77.5°	16.3	17.2	17.2	17.2	17.2	18.1	17.2	17.2	17.2	16.3	15.5
80°	12.0	12.0	12.8	13.7	12.8	13.7	12.8	13.7	12.8	12.8	12.8
82.5°	6.8	6.8	7.7	8.6	8.6	9.4	7.7	8.6	8.6	9.4	8.6
85°	2.5	2.5	2.5	2.5	3.4	3.4	2.5	3.4	3.4	4.3	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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CANDELA DISTRIBUTION (continued):

	240°	242.5°	245°	247.5°	250°	252.5°	255°	257.5°	260°	265°	270°
0°	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8
2.5°	500.3	500.3	489.9	491.6	493.3	496.9	495.1	494.2	493.3	498.5	501.2
5°	392.8	391.9	379.1	378.2	380.8	381.6	379.1	374.8	372.2	373.1	375.6
7.5°	285.3	282.8	270.7	269.0	268.1	269.0	266.4	262.1	258.7	259.6	262.1
10°	199.4	192.6	190.8	191.7	193.3	195.1	195.1	195.1	196.0	201.1	207.1
12.5°	144.4	141.8	143.5	145.3	148.7	151.3	153.9	154.7	155.6	162.4	167.6
15°	114.4	114.4	116.0	116.9	118.7	120.4	122.1	122.1	122.9	125.5	129.7
17.5°	98.8	98.8	98.8	98.8	98.8	97.9	97.2	95.4	94.5	93.7	94.5
20°	91.1	90.3	88.6	87.7	86.0	84.2	83.4	80.8	79.9	77.3	76.4
22.5°	78.2	77.3	77.3	77.3	77.3	76.4	75.6	74.8	73.0	70.4	68.8
25°	64.5	64.5	64.5	65.4	65.4	66.1	67.9	67.9	67.9	67.9	65.4
27.5°	58.5	58.5	58.5	58.5	59.3	59.3	60.2	60.2	60.2	61.1	61.9
30°	53.3	54.2	54.2	55.0	55.0	55.9	55.9	56.8	56.8	57.6	57.6
32.5°	49.0	49.0	49.9	50.8	50.8	50.8	52.4	52.4	51.6	52.4	52.4
35°	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	42.1	41.2	42.1
37.5°	40.4	39.5	39.5	38.6	37.8	37.8	37.8	38.6	37.8	38.6	38.6
40°	37.0	37.0	36.1	36.1	36.1	36.1	36.1	36.1	36.1	37.0	37.8
42.5°	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	35.2	35.2
45°	32.7	32.7	32.7	32.7	33.6	33.6	33.6	33.6	33.6	33.6	34.3
47.5°	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	32.7	33.6
50°	30.1	30.1	30.9	30.9	30.9	30.9	30.9	30.9	30.9	31.8	32.7
52.5°	29.3	29.3	29.3	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.9
55°	28.4	29.3	29.3	29.3	29.3	29.3	28.4	28.4	28.4	28.4	29.3
57.5°	27.5	27.5	28.4	28.4	28.4	27.5	27.5	26.6	26.6	26.6	28.4
60°	26.6	26.6	26.6	26.6	26.6	25.8	25.8	25.8	25.8	26.6	26.6
62.5°	25.8	25.8	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
65°	25.0	25.0	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
67.5°	23.2	23.2	23.2	22.4	22.4	22.4	22.4	23.2	22.4	22.4	22.4
70°	21.5	21.5	21.5	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
72.5°	19.8	19.8	19.8	19.8	19.0	19.0	19.0	19.0	19.0	19.0	19.0
75°	18.1	17.2	17.2	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
77.5°	15.5	14.6	14.6	14.6	13.7	13.7	13.7	13.7	13.7	13.7	13.7
80°	12.8	12.0	12.0	11.2	11.2	11.2	11.2	11.2	11.2	10.3	10.3
82.5°	9.4	8.6	8.6	8.6	8.6	7.7	7.7	7.7	7.7	6.8	6.0
85°	4.3	4.3	3.4	4.3	4.3	5.2	4.3	4.3	4.3	3.4	1.8
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°	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	0°
2.5°	499.4	508.0	508.8	503.7	514.0	515.6	513.1	513.1	514.9	521.7	521.7	2.5°
5°	372.2	383.4	382.5	375.6	389.3	393.6	391.1	391.9	395.3	403.1	407.4	5°
7.5°	263.0	272.5	271.6	270.7	279.4	282.8	284.5	287.1	297.4	298.2	303.4	7.5°
10°	213.2	221.7	224.4	230.3	232.9	238.1	241.6	245.9	254.4	258.7	264.7	10°
12.5°	172.7	183.1	185.7	192.6	196.0	202.0	205.4	214.1	219.2	224.4	232.1	12.5°
15°	133.2	141.8	144.4	149.6	153.0	159.9	163.3	168.4	178.9	184.0	194.2	15°
17.5°	97.9	103.1	104.8	108.2	110.9	113.5	120.4	129.0	134.9	143.5	148.7	17.5°
20°	76.4	78.2	79.1	79.9	81.7	83.4	86.9	92.9	96.3	103.1	108.2	20°
22.5°	68.8	69.6	69.6	70.4	70.4	71.3	73.0	74.8	76.4	79.1	81.7	22.5°
25°	63.6	64.5	64.5	65.4	65.4	66.1	67.0	67.9	69.6	70.4	71.3	25°
27.5°	61.1	61.1	61.1	61.1	61.9	61.9	62.7	64.5	64.5	66.1	67.0	27.5°
30°	58.5	58.5	58.5	59.3	60.2	61.9	63.6	66.1	67.0	68.8	69.6	30°
32.5°	54.2	52.4	54.2	53.3	51.6	51.6	52.4	54.2	54.2	55.0	55.9	32.5°
35°	42.1	42.1	43.0	43.8	43.8	44.6	45.5	46.4	47.3	49.0	49.9	35°
37.5°	39.5	40.4	40.4	41.2	42.1	42.1	43.0	44.6	45.5	46.4	47.3	37.5°
40°	37.8	38.6	39.5	40.4	40.4	41.2	42.1	43.0	43.8	45.5	46.4	40°
42.5°	36.1	37.8	37.8	38.6	39.5	40.4	41.2	42.1	43.8	44.6	45.5	42.5°
45°	35.2	36.1	37.0	37.8	38.6	39.5	40.4	42.1	43.0	44.6	45.5	45°
47.5°	34.3	35.2	36.1	37.0	37.8	38.6	39.5	41.2	43.0	44.6	46.4	47.5°
50°	32.7	34.3	35.2	36.1	37.0	37.8	39.5	41.2	43.0	45.5	49.9	50°
52.5°	31.8	33.6	33.6	35.2	36.1	37.8	39.5	41.2	43.8	47.3	51.6	52.5°
55°	30.1	31.8	31.8	33.6	35.2	37.0	37.8	40.4	43.0	46.4	47.3	55°
57.5°	28.4	30.1	30.9	31.8	33.6	35.2	36.1	38.6	42.1	43.0	42.1	57.5°
60°	27.5	28.4	29.3	30.1	31.8	32.7	35.2	40.4	43.8	40.4	36.1	60°
62.5°	25.8	27.5	28.4	29.3	30.9	31.8	33.6	37.0	37.8	33.6	32.7	62.5°
65°	25.0	26.6	26.6	28.4	29.3	29.3	30.1	30.1	30.1	30.1	30.1	65°
67.5°	23.2	25.0	25.0	25.8	26.6	26.6	27.5	27.5	27.5	27.5	27.5	67.5°
70°	21.5	22.4	23.2	24.1	24.1	24.1	25.0	25.0	25.0	25.8	25.8	70°
72.5°	19.8	20.6	20.6	21.5	21.5	22.4	22.4	23.2	23.2	23.2	24.1	72.5°
75°	16.3	17.2	18.1	19.0	19.0	19.8	19.8	19.8	19.8	20.6	20.6	75°
77.5°	13.7	13.7	15.5	15.5	16.3	16.3	17.2	17.2	17.2	17.2	17.2	77.5°
80°	10.3	10.3	11.2	12.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8	80°
82.5°	6.0	6.0	6.8	6.8	7.7	7.7	8.6	7.7	7.7	6.8	6.8	82.5°
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.9	0.9	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°
600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	600.8	0°	600.8
534.6	534.6	536.4	543.3	544.9	549.2	548.3	556.1	559.6	580.1	601.7	2.5°	622.3
422.9	426.3	431.5	440.1	445.2	454.7	452.9	468.5	471.0	508.8	545.8	5°	588.7
315.5	320.7	324.8	334.3	342.1	351.6	354.1	372.2	377.4	427.1	478.8	7.5°	538.1
273.4	277.7	283.7	289.6	297.4	301.7	308.6	317.2	323.2	360.1	419.5	10°	487.3
243.2	249.3	255.3	263.9	271.6	279.4	286.2	294.8	302.5	332.6	379.1	12.5°	457.2
206.3	213.2	220.1	229.4	240.7	248.4	256.2	265.6	275.0	312.0	366.1	15°	445.2
159.9	167.6	177.1	189.9	202.0	211.4	219.2	232.1	244.1	288.9	360.1	17.5°	457.2
117.8	124.7	133.2	144.4	153.0	169.3	178.0	193.3	208.0	263.9	351.6	20°	480.4
86.9	91.1	97.9	106.6	116.0	130.6	140.0	153.9	170.2	240.7	351.6	22.5°	520.0
73.0	74.8	77.3	82.6	88.6	98.8	108.2	122.1	138.4	220.1	361.0	25°	584.4
67.9	68.8	70.4	73.0	76.4	81.7	88.6	99.7	116.0	203.7	374.8	27.5°	653.2
71.3	71.3	71.3	72.2	73.9	76.4	79.9	86.9	97.2	179.6	384.3	30°	713.4
57.6	58.5	58.5	60.2	61.1	64.5	67.9	73.0	82.6	165.0	390.2	32.5°	756.5
51.6	52.4	53.3	54.2	55.9	56.8	60.2	66.1	75.6	155.6	389.3	35°	807.0
49.0	49.9	50.8	50.8	51.6	53.3	55.9	61.9	73.0	152.2	389.3	37.5°	865.6
48.1	48.1	48.1	48.1	49.9	51.6	55.9	61.9	71.3	148.7	391.9	40°	930.0
46.4	46.4	46.4	47.3	49.9	53.3	55.0	58.5	66.1	147.1	396.2	42.5°	988.5
46.4	46.4	47.3	50.8	51.6	51.6	52.4	55.0	62.7	147.1	404.9	45°	1033.9
48.1	49.9	50.8	49.9	49.0	49.0	49.0	52.4	60.2	149.6	421.1	47.5°	1086.4
52.4	51.6	48.1	47.3	47.3	45.5	46.4	49.9	59.3	149.6	454.7	50°	1158.6
51.6	48.1	47.3	45.5	43.8	43.0	43.8	49.0	58.5	147.8	502.8	52.5°	1264.4
46.4	45.5	43.0	41.2	40.4	41.2	43.0	47.3	56.8	146.2	562.1	55°	1392.5
40.4	39.5	37.8	37.8	38.6	39.5	42.1	45.5	52.4	141.8	609.4	57.5°	1510.2
35.2	35.2	35.2	36.1	37.0	37.8	40.4	43.0	48.1	134.0	641.2	60°	1585.9
31.8	32.7	32.7	34.3	35.2	36.1	37.8	40.4	43.8	125.5	648.0	62.5°	1586.7
30.1	30.9	31.8	31.8	32.7	33.6	36.1	38.6	43.8	118.7	606.0	65°	1524.0
28.4	28.4	29.3	30.1	30.9	31.8	33.6	37.8	44.6	112.6	514.0	67.5°	1365.0
25.8	26.6	27.5	28.4	28.4	29.3	31.8	37.8	45.5	110.0	408.3	70°	1152.6
24.1	24.1	25.0	25.8	25.8	27.5	30.1	37.0	46.4	105.7	307.7	72.5°	899.0
20.6	21.5	21.5	21.5	22.4	24.1	27.5	33.6	40.4	87.7	208.0	75°	609.4
18.1	17.2	18.1	18.1	19.0	19.8	22.4	25.8	30.1	55.9	110.0	77.5°	387.7
12.8	12.0	12.0	12.8	12.8	12.8	14.6	15.5	17.2	34.3	61.1	80°	228.6
6.8	6.0	6.8	6.0	6.0	6.8	6.8	8.6	8.6	16.3	27.5	82.5°	141.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	6.0	85°	57.6
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



'271505
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TION (continued):

359°	360°
600.8	600.8
632.7	637.8
610.3	617.1
562.1	571.6
517.4	526.9
493.3	498.5
482.2	492.5
498.5	508.8
531.2	547.6
588.7	609.4
679.8	697.9
752.2	780.4
819.2	842.3
872.4	899.0
933.5	959.2
1007.4	1042.7
1083.9	1123.4
1155.2	1199.1
1222.2	1256.5
1273.9	1312.5
1339.1	1384.6
1450.0	1482.7
1584.1	1621.1
1708.8	1740.6
1766.3	1792.9
1768.0	1801.6
1730.2	1768.0
1633.9	1692.4
1444.8	1510.2
1135.5	1210.3
753.8	819.2
434.9	456.4
256.9	268.1
153.0	164.2
41.2	44.6
0.0	0.0
0.0	0.0

(END OF REPORT)