

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: P228493

Luminaire Tested: **ISS-AF-350-LED-E1-SLL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228493
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-350-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: 1990 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

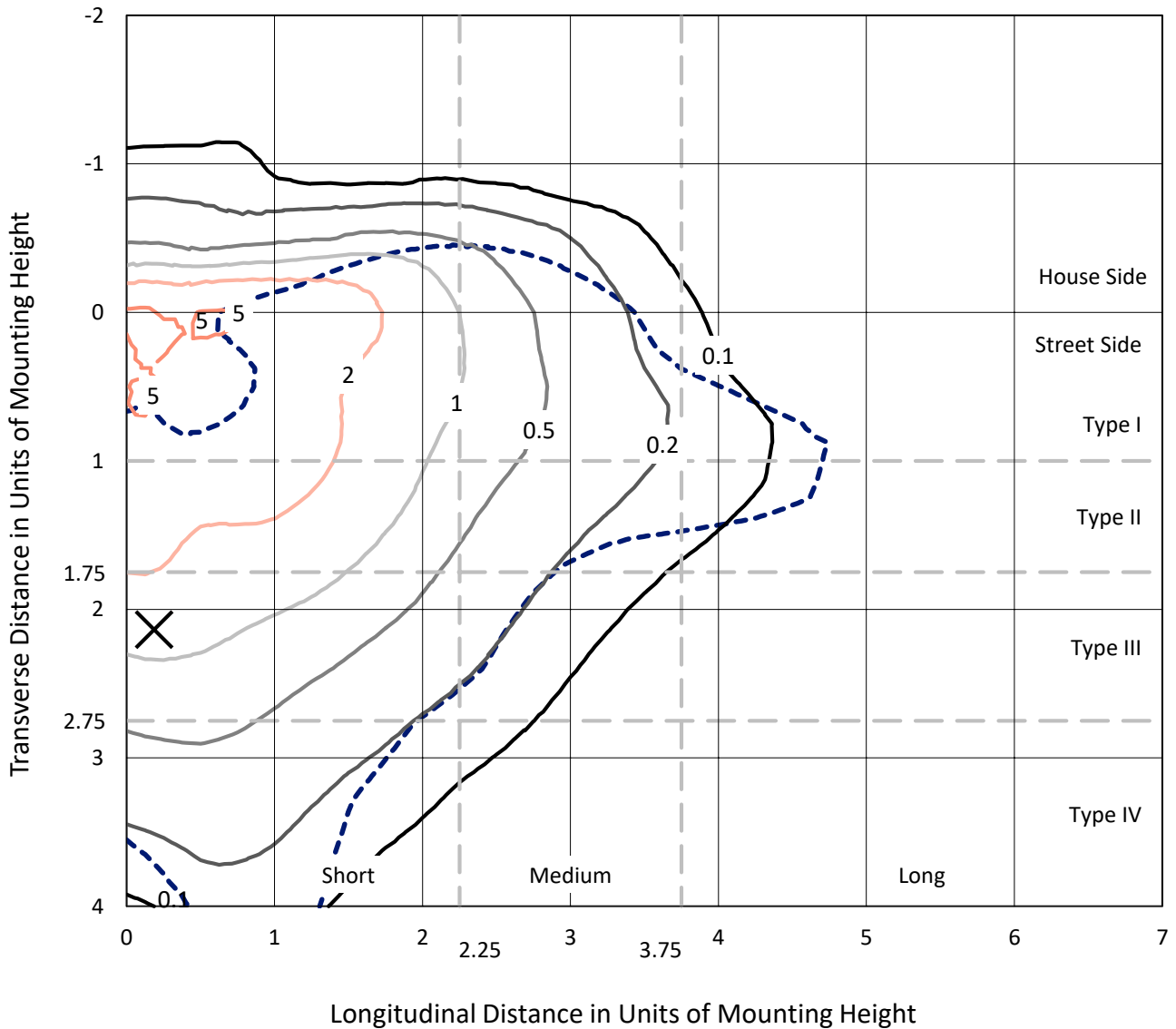
Input Watts (W): 20.09
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

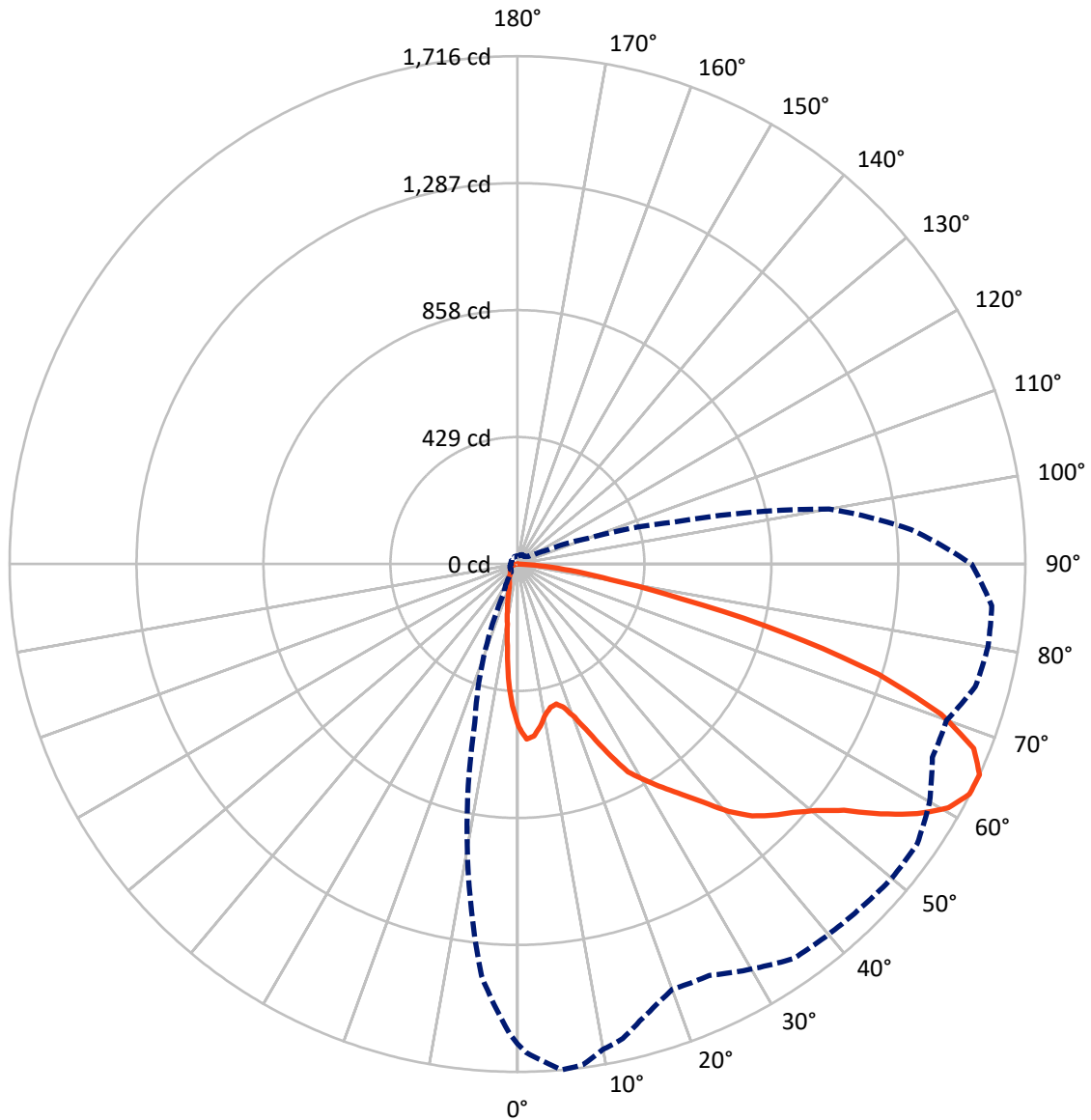
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 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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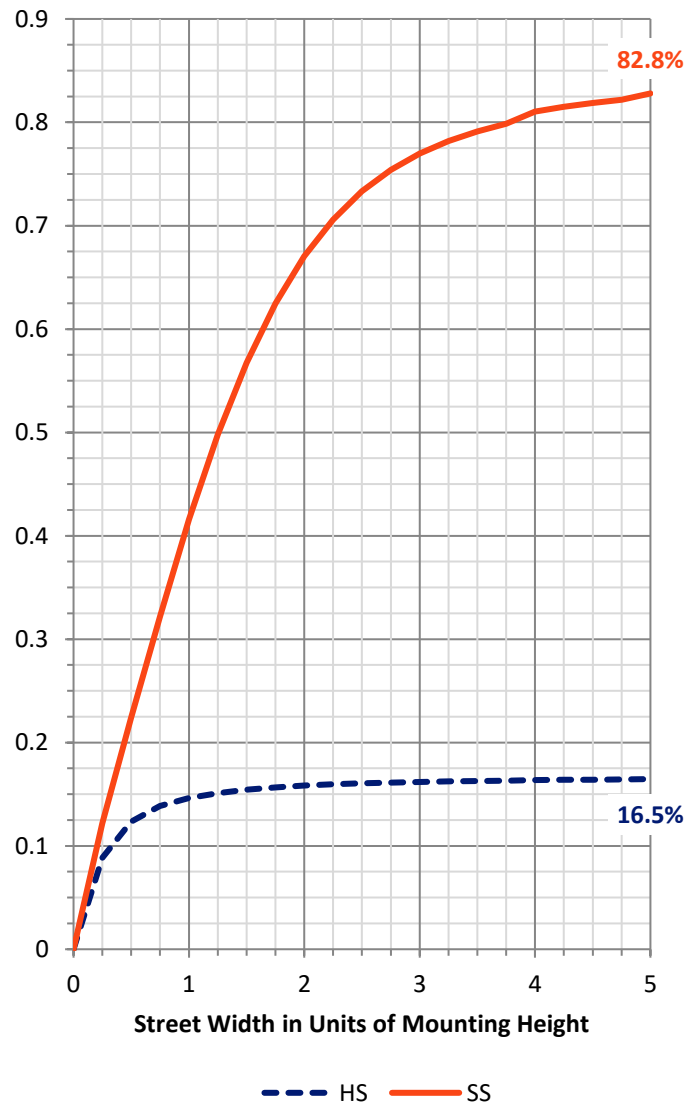
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	330.9	0.0	330.9
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	1659.1	0.0	1659.1
	% Fixture	83.4	0.0	83.4
Total	Lumens	1990.0	0.0	1990.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.3	2.1
10°-20°	87.1	4.4
20°-30°	126.7	6.4
30°-40°	187.3	9.4
40°-50°	273.0	13.7
50°-60°	409.2	20.6
60°-70°	509.9	25.6
70°-80°	298.7	15.0
80°-90°	55.9	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°	1990.0	100.0
0°-180°	1990.0	100.0



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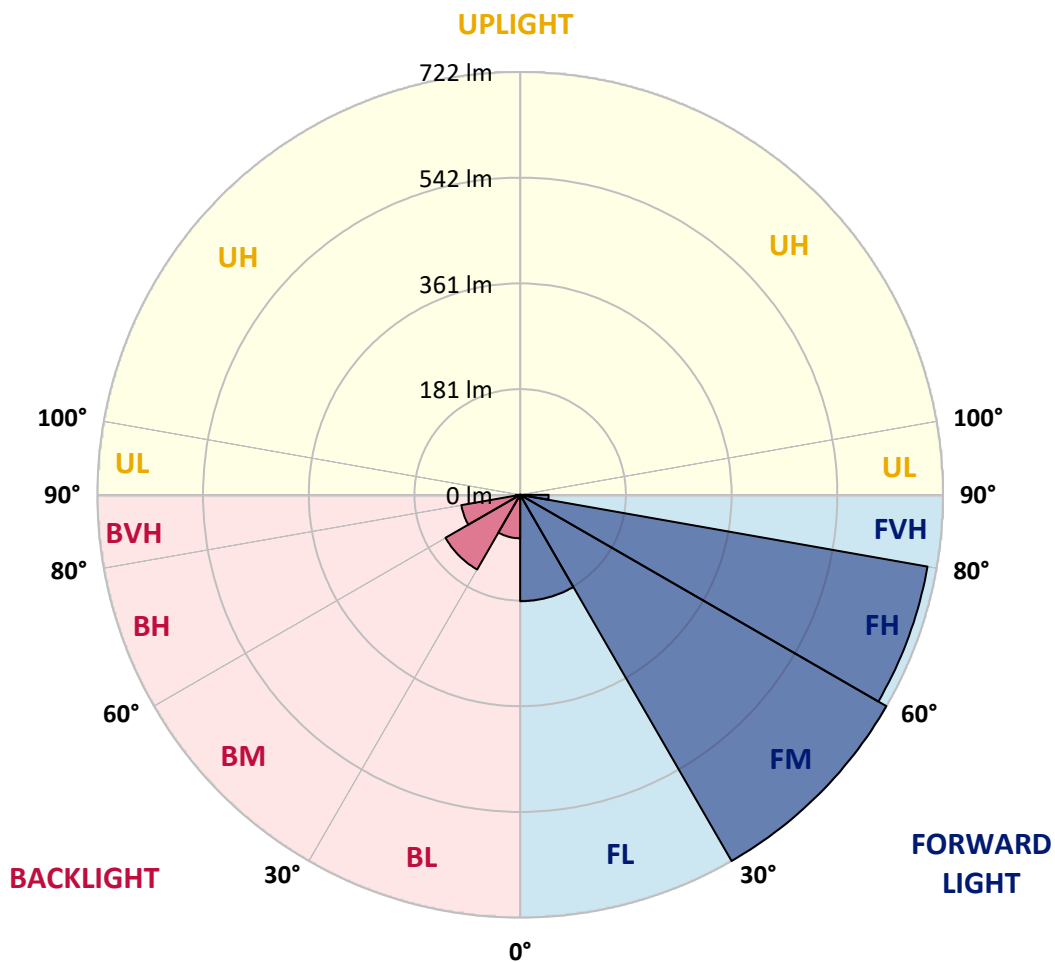
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	181.8	9.1			
FM	(30°-60°)	722.2	36.3			
FH	(60°-80°)	706.4	35.5			G1/1800
FVH	(80°-90°)	48.7	2.4			G1/100
BL	(0°-30°)	74.3	3.7	B0/110		
BM	(30°-60°)	147.3	7.4	B0/220		
BH	(60°-80°)	102.1	5.1	B0/110		G0/110
BVH	(80°-90°)	7.2	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-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°	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7
2.5°	584.6	583.0	592.5	594.0	600.3	600.3	607.4	613.7	616.1	621.6	635.8
5°	565.7	570.4	583.8	597.2	606.6	616.1	626.3	639.0	649.2	666.5	702.8
7.5°	523.9	531.0	553.9	567.3	582.2	598.8	611.4	626.3	642.1	671.3	735.9
10°	483.0	488.5	517.6	534.2	555.4	572.8	590.9	607.4	624.8	661.0	735.9
12.5°	457.0	464.0	497.1	512.9	537.3	555.4	577.5	597.2	617.7	656.3	728.8
15°	451.4	459.3	490.8	510.5	531.8	549.1	568.8	589.3	609.8	647.6	712.2
17.5°	466.4	475.9	509.7	531.8	548.3	568.0	582.2	601.9	615.3	645.3	676.0
20°	501.9	512.9	553.1	574.3	587.7	600.3	611.4	623.2	628.7	635.8	630.3
22.5°	558.6	572.0	617.7	642.1	651.6	661.0	661.8	663.4	659.4	640.5	598.0
25°	639.7	653.1	705.1	728.8	728.8	728.8	720.1	713.8	695.7	660.2	589.3
27.5°	715.4	732.7	794.9	809.9	805.2	798.1	781.6	765.8	739.8	680.7	588.5
30°	772.1	789.4	846.9	858.8	846.9	829.6	803.6	780.8	750.0	691.0	594.0
32.5°	824.1	844.6	899.7	901.3	880.0	860.3	831.2	805.2	772.9	709.9	610.6
35°	879.2	899.7	955.7	944.6	913.9	887.1	857.2	834.3	802.0	734.3	637.4
37.5°	955.7	973.8	1021.1	995.1	955.7	921.0	888.7	858.8	826.5	767.4	682.3
40°	1029.7	1055.7	1099.1	1057.3	1009.2	962.8	927.3	895.8	860.3	812.3	739.8
42.5°	1099.1	1123.5	1163.7	1110.1	1054.2	1007.7	970.6	936.8	902.9	863.5	809.1
45°	1151.8	1177.1	1210.9	1154.2	1090.4	1042.3	1002.2	972.2	942.3	915.5	896.6
47.5°	1203.1	1228.3	1254.3	1192.8	1129.8	1080.9	1033.7	1006.1	982.5	968.3	991.1
50°	1269.2	1286.6	1308.6	1242.4	1175.5	1119.5	1072.3	1051.0	1028.9	1033.7	1110.1
52.5°	1359.1	1374.0	1381.9	1317.3	1242.4	1178.6	1126.6	1097.5	1079.4	1106.9	1236.1
55°	1485.9	1507.2	1489.8	1426.0	1331.5	1259.0	1195.2	1160.5	1149.5	1186.5	1362.2
57.5°	1595.4	1604.9	1592.3	1529.2	1432.3	1351.2	1283.4	1247.2	1234.6	1283.4	1477.2
60°	1643.5	1655.3	1672.6	1618.3	1527.7	1447.3	1389.0	1353.5	1332.3	1389.0	1569.4
62.5°	1651.3	1671.0	1713.6	1686.0	1614.3	1554.4	1501.7	1452.8	1436.3	1479.6	1630.1
65°	1620.6	1650.6	1716.0	1705.7	1665.5	1642.7	1598.6	1560.7	1529.2	1534.0	1626.9
67.5°	1551.3	1586.0	1662.4	1657.6	1662.4	1662.4	1623.8	1592.3	1551.3	1493.0	1507.2
70°	1384.3	1430.0	1518.2	1541.0	1581.2	1581.2	1547.4	1499.3	1452.0	1332.3	1259.8
72.5°	1109.3	1140.0	1275.5	1386.6	1437.8	1417.4	1384.3	1303.9	1199.9	1068.3	969.9
75°	750.8	768.9	935.2	1138.5	1231.4	1214.1	1159.7	1059.7	952.5	806.0	681.5
77.5°	418.4	442.0	566.5	725.6	850.9	848.5	841.4	777.6	692.5	571.2	506.6
80°	245.8	253.7	319.1	434.9	542.8	516.8	498.7	448.3	405.0	349.8	399.4
82.5°	150.5	142.6	181.2	264.7	320.7	309.6	278.9	260.0	239.5	224.5	265.5
85°	41.0	37.0	74.1	111.1	136.3	147.3	147.3	145.8	130.8	98.5	118.2
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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CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
0°	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7
2.5°	641.3	642.1	639.7	645.3	639.0	635.8	626.3	626.3	618.5	612.2	605.1
5°	716.2	720.9	716.9	717.7	705.1	692.5	673.6	662.6	642.9	621.6	599.6
7.5°	766.6	774.5	771.3	757.9	738.2	711.4	679.9	650.0	617.7	583.0	550.7
10°	780.0	788.6	781.6	756.3	724.0	686.2	648.4	608.2	568.8	531.8	497.1
12.5°	761.1	767.4	752.4	724.8	693.3	655.5	616.1	581.4	535.0	495.6	455.4
15°	713.0	709.1	707.5	687.8	665.7	635.0	598.0	562.5	519.2	479.0	436.5
17.5°	661.0	656.3	657.9	650.0	646.8	632.6	605.1	575.1	536.5	487.7	442.0
20°	615.3	610.6	613.0	616.9	628.7	629.5	624.8	605.1	576.7	525.5	469.6
22.5°	575.9	576.7	584.6	595.6	615.3	640.5	660.2	664.2	644.5	584.6	514.5
25°	564.1	560.2	568.8	587.0	620.0	668.9	713.0	735.1	724.0	664.2	578.3
27.5°	560.2	554.7	564.1	587.7	640.5	709.1	772.1	805.2	809.1	747.7	646.8
30°	560.2	557.8	567.3	598.0	653.9	722.5	792.6	842.2	858.0	806.8	706.7
32.5°	567.3	568.8	585.4	624.8	682.3	752.4	824.9	878.5	906.8	868.2	754.8
35°	583.0	586.2	609.8	655.5	717.7	788.6	854.8	909.2	954.9	934.4	799.7
37.5°	616.9	621.6	650.8	697.3	754.0	817.8	882.4	940.7	1006.9	998.2	846.9
40°	676.8	676.8	705.9	746.1	792.6	841.4	905.2	973.8	1054.9	1066.8	905.2
42.5°	752.4	749.3	768.2	797.3	829.6	870.6	928.1	1004.5	1099.8	1125.8	949.4
45°	856.4	840.6	850.9	858.0	873.7	898.9	950.2	1033.7	1136.1	1170.0	982.5
47.5°	978.5	956.5	947.8	934.4	928.9	938.3	982.5	1056.5	1170.8	1207.8	1036.0
50°	1113.2	1092.0	1069.1	1032.9	1001.4	991.9	1018.7	1087.2	1207.8	1255.1	1095.1
52.5°	1253.5	1238.5	1208.6	1151.8	1092.0	1058.1	1070.7	1138.5	1266.9	1328.3	1165.2
55°	1381.9	1386.6	1350.4	1284.2	1198.3	1146.3	1161.3	1229.1	1374.0	1446.5	1282.6
57.5°	1519.8	1507.2	1478.8	1410.3	1316.5	1260.6	1266.9	1348.8	1493.8	1548.9	1399.2
60°	1611.2	1611.2	1580.4	1528.4	1439.4	1387.4	1396.9	1472.5	1589.9	1595.4	1451.2
62.5°	1670.3	1678.9	1654.5	1617.5	1530.8	1487.5	1519.8	1573.3	1637.2	1591.5	1425.2
65°	1641.9	1651.3	1649.0	1608.0	1546.6	1543.4	1601.7	1614.3	1608.8	1534.0	1335.4
67.5°	1513.5	1494.6	1493.8	1472.5	1459.9	1525.3	1599.3	1603.3	1510.3	1421.3	1193.6
70°	1269.2	1236.9	1224.3	1230.6	1288.1	1410.3	1515.8	1485.9	1337.8	1261.4	1016.3
72.5°	978.5	939.9	932.0	956.5	1045.5	1217.2	1361.4	1319.7	1099.8	1010.8	787.1
75°	694.1	677.6	678.3	726.4	822.5	988.0	1155.8	1151.8	814.6	697.3	542.0
77.5°	505.0	508.2	522.3	541.3	624.0	783.9	941.5	931.2	579.9	479.0	379.0
80°	416.8	421.5	421.5	411.3	432.5	517.6	639.7	683.1	388.4	322.2	264.7
82.5°	299.4	323.0	336.4	319.9	312.0	341.1	401.0	429.4	241.9	203.3	185.1
85°	142.6	163.1	167.8	163.9	188.3	215.1	229.3	234.8	132.4	94.5	121.3
87.5°	0.0	0.0	0.8	6.3	17.3	29.9	29.9	45.7	7.1	2.4	5.5
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°	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7
2.5°	595.6	585.4	577.5	568.0	560.2	552.3	546.8	535.0	525.5	504.2	498.7
5°	581.4	559.4	544.4	530.2	512.1	499.5	486.1	469.6	451.4	420.7	411.3
7.5°	525.5	497.9	477.4	457.0	433.3	412.0	392.4	370.3	338.8	305.7	293.1
10°	464.8	435.7	407.3	382.9	354.5	330.9	313.6	297.8	272.6	247.4	230.8
12.5°	415.2	382.1	349.8	325.4	310.4	298.6	286.0	273.4	246.6	218.2	198.5
15°	392.4	353.7	325.4	304.9	291.5	277.3	262.4	248.2	216.7	183.6	159.9
17.5°	395.5	351.4	315.1	287.6	269.4	249.8	232.4	214.3	179.6	140.2	119.0
20°	412.8	353.7	304.1	271.8	245.8	220.6	198.5	175.7	133.1	102.4	87.5
22.5°	434.9	361.6	297.8	256.1	223.8	192.2	163.9	137.1	98.5	80.4	73.3
25°	472.7	379.7	296.2	241.9	202.5	164.7	135.5	107.1	79.6	70.9	67.0
27.5°	520.0	400.2	297.8	231.6	184.4	142.6	110.3	89.0	71.7	67.0	63.8
30°	567.3	421.5	290.7	215.9	163.1	122.1	94.5	81.1	70.9	65.4	59.9
32.5°	609.0	437.3	278.9	199.3	144.2	104.0	80.4	69.3	62.2	55.9	54.4
35°	639.0	444.4	265.5	189.1	131.6	93.0	70.9	62.2	55.1	48.8	45.7
37.5°	667.3	445.1	251.3	179.6	126.8	88.2	65.4	57.5	51.2	45.7	42.5
40°	696.5	442.0	243.4	170.2	119.8	85.9	63.0	53.6	49.6	43.3	40.2
42.5°	717.7	436.5	240.3	164.7	113.5	79.6	61.5	52.8	47.3	42.5	38.6
45°	737.4	431.0	240.3	159.9	108.7	75.6	58.3	53.6	45.7	41.8	37.0
47.5°	761.1	433.3	241.1	156.0	104.8	71.7	55.1	52.0	46.5	41.0	36.2
50°	801.2	460.1	245.0	153.6	101.6	68.5	52.8	49.6	51.2	40.2	35.5
52.5°	870.6	502.7	251.3	152.1	98.5	66.2	49.6	48.1	52.0	40.2	34.7
55°	961.2	546.0	257.6	148.1	93.8	61.5	48.1	44.9	48.1	40.2	33.9
57.5°	1049.4	578.3	263.1	142.6	85.9	56.7	45.7	42.5	44.1	39.4	32.3
60°	1100.6	603.5	268.7	133.1	76.4	51.2	43.3	40.2	39.4	39.4	31.5
62.5°	1114.8	594.0	265.5	121.3	68.5	47.3	41.0	37.8	35.5	40.2	31.5
65°	1069.9	544.4	253.7	111.1	63.0	45.7	38.6	36.2	33.9	34.7	29.9
67.5°	932.0	457.7	221.4	101.6	62.2	44.9	37.0	34.7	31.5	30.7	28.4
70°	760.3	359.3	183.6	94.5	61.5	44.9	35.5	32.3	29.9	27.6	26.0
72.5°	584.6	268.7	154.4	91.4	62.2	44.1	33.1	29.2	26.8	25.2	23.6
75°	411.3	189.9	128.4	81.9	58.3	41.8	30.7	26.0	23.6	22.1	20.5
77.5°	297.8	129.2	95.3	66.2	49.6	36.2	26.8	22.1	19.7	18.9	17.3
80°	189.9	79.6	63.8	48.8	36.2	28.4	20.5	17.3	15.8	14.2	13.4
82.5°	109.5	46.5	38.6	33.1	23.6	18.9	15.0	13.4	10.2	9.5	8.7
85°	67.0	29.2	21.3	17.3	15.0	11.8	8.7	7.9	5.5	4.7	3.9
87.5°	15.0	6.3	5.5	3.9	4.7	3.9	2.4	1.6	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°	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7
2.5°	490.0	478.2	479.0	476.7	470.4	460.1	457.0	451.4	452.2	455.4	452.2
5°	400.2	386.0	387.6	386.8	380.5	373.4	367.9	360.8	358.5	360.8	356.9
7.5°	283.6	274.2	277.3	284.4	283.6	279.7	275.0	267.1	265.5	266.3	259.2
10°	216.7	207.2	204.8	204.1	202.5	200.1	193.8	187.5	185.1	185.9	181.2
12.5°	181.2	173.3	163.9	155.2	147.3	144.2	136.3	132.4	131.6	131.6	129.2
15°	143.4	137.1	131.6	122.9	116.6	111.9	106.4	103.2	102.4	103.2	103.2
17.5°	107.1	104.0	101.6	100.8	97.7	94.5	91.4	89.8	89.0	89.0	89.8
20°	81.9	81.1	81.1	81.1	85.1	88.2	89.0	86.7	85.9	85.1	84.3
22.5°	70.9	70.1	70.9	75.6	73.3	70.9	70.9	70.9	70.9	70.9	71.7
25°	65.4	66.2	67.0	64.6	62.2	60.7	59.9	59.9	59.1	59.1	59.9
27.5°	62.2	61.5	60.7	59.1	57.5	55.1	54.4	53.6	53.6	53.6	53.6
30°	58.3	57.5	56.7	55.1	52.8	49.6	48.8	48.8	48.1	48.8	48.8
32.5°	53.6	52.8	52.0	50.4	48.1	46.5	45.7	44.1	44.1	44.1	44.9
35°	43.3	42.5	42.5	43.3	43.3	42.5	42.5	41.0	41.0	41.0	41.0
37.5°	40.2	39.4	39.4	38.6	39.4	40.2	39.4	38.6	38.6	37.8	37.8
40°	37.8	37.8	37.0	36.2	36.2	37.8	37.0	36.2	35.5	35.5	35.5
42.5°	36.2	35.5	35.5	34.7	34.7	34.7	33.9	33.1	32.3	32.3	32.3
45°	34.7	34.7	33.9	33.1	32.3	32.3	30.7	29.9	29.9	29.9	30.7
47.5°	33.9	33.1	33.1	32.3	31.5	29.9	29.2	28.4	28.4	28.4	28.4
50°	33.1	32.3	31.5	31.5	29.9	29.2	28.4	27.6	27.6	27.6	27.6
52.5°	32.3	31.5	30.7	29.9	29.2	28.4	27.6	26.8	26.8	26.8	26.8
55°	30.7	29.9	29.9	29.2	29.2	28.4	27.6	26.8	26.8	26.8	26.0
57.5°	29.9	29.2	28.4	28.4	28.4	27.6	26.8	26.0	26.0	26.0	26.0
60°	29.2	28.4	28.4	27.6	27.6	26.8	26.8	26.0	25.2	25.2	24.4
62.5°	28.4	27.6	27.6	26.8	27.6	26.8	26.0	25.2	24.4	24.4	23.6
65°	27.6	26.8	26.8	26.8	26.0	26.0	25.2	23.6	23.6	23.6	22.8
67.5°	26.0	25.2	25.2	26.0	25.2	24.4	24.4	22.8	22.8	22.1	22.1
70°	23.6	23.6	23.6	24.4	23.6	22.8	22.8	22.1	21.3	20.5	20.5
72.5°	22.1	21.3	22.1	22.1	22.1	21.3	22.1	20.5	19.7	18.9	18.9
75°	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.1	17.3	16.5
77.5°	15.0	15.8	15.8	15.8	15.8	16.5	15.8	15.8	15.8	15.0	14.2
80°	11.0	11.0	11.8	12.6	11.8	12.6	11.8	12.6	11.8	11.8	11.8
82.5°	6.3	6.3	7.1	7.9	7.9	8.7	7.1	7.9	7.9	8.7	7.9
85°	2.4	2.4	2.4	2.4	3.2	3.2	2.4	3.2	3.2	3.9	3.9
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°	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7
2.5°	458.5	458.5	449.1	450.7	452.2	455.4	453.8	453.0	452.2	457.0	459.3
5°	360.1	359.3	347.4	346.7	349.0	349.8	347.4	343.5	341.1	341.9	344.3
7.5°	261.6	259.2	248.2	246.6	245.8	246.6	244.2	240.3	237.1	237.9	240.3
10°	182.8	176.5	174.9	175.7	177.3	178.8	178.8	178.8	179.6	184.4	189.9
12.5°	132.4	130.0	131.6	133.1	136.3	138.7	141.0	141.8	142.6	148.9	153.6
15°	104.8	104.8	106.4	107.1	108.7	110.3	111.9	111.9	112.7	115.0	119.0
17.5°	90.6	90.6	90.6	90.6	90.6	89.8	89.0	87.5	86.7	85.9	86.7
20°	83.5	82.7	81.1	80.4	78.8	77.2	76.4	74.1	73.3	70.9	70.1
22.5°	71.7	70.9	70.9	70.9	70.9	70.1	69.3	68.5	67.0	64.6	63.0
25°	59.1	59.1	59.1	59.9	59.9	60.7	62.2	62.2	62.2	62.2	59.9
27.5°	53.6	53.6	53.6	53.6	54.4	54.4	55.1	55.1	55.1	55.9	56.7
30°	48.8	49.6	49.6	50.4	50.4	51.2	51.2	52.0	52.0	52.8	52.8
32.5°	44.9	44.9	45.7	46.5	46.5	46.5	48.1	48.1	47.3	48.1	48.1
35°	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	38.6	37.8	38.6
37.5°	37.0	36.2	36.2	35.5	34.7	34.7	34.7	35.5	34.7	35.5	35.5
40°	33.9	33.9	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.9	34.7
42.5°	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	32.3	32.3
45°	29.9	29.9	29.9	29.9	30.7	30.7	30.7	30.7	30.7	30.7	31.5
47.5°	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.9	30.7
50°	27.6	27.6	28.4	28.4	28.4	28.4	28.4	28.4	28.4	29.2	29.9
52.5°	26.8	26.8	26.8	27.6	27.6	27.6	27.6	27.6	27.6	27.6	28.4
55°	26.0	26.8	26.8	26.8	26.8	26.8	26.0	26.0	26.0	26.0	26.8
57.5°	25.2	25.2	26.0	26.0	26.0	25.2	25.2	24.4	24.4	24.4	26.0
60°	24.4	24.4	24.4	24.4	24.4	23.6	23.6	23.6	23.6	24.4	24.4
62.5°	23.6	23.6	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
65°	22.8	22.8	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
67.5°	21.3	21.3	21.3	20.5	20.5	20.5	20.5	21.3	20.5	20.5	20.5
70°	19.7	19.7	19.7	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
72.5°	18.1	18.1	18.1	18.1	17.3	17.3	17.3	17.3	17.3	17.3	17.3
75°	16.5	15.8	15.8	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
77.5°	14.2	13.4	13.4	13.4	12.6	12.6	12.6	12.6	12.6	12.6	12.6
80°	11.8	11.0	11.0	10.2	10.2	10.2	10.2	10.2	10.2	9.5	9.5
82.5°	8.7	7.9	7.9	7.9	7.9	7.1	7.1	7.1	7.1	6.3	5.5
85°	3.9	3.9	3.2	3.9	3.9	4.7	3.9	3.9	3.9	3.2	1.6
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°	302.5°	
0°	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	0°
2.5°	457.7	465.6	466.4	461.7	471.1	472.7	470.4	470.4	471.9	478.2	478.2	2.5°
5°	341.1	351.4	350.6	344.3	356.9	360.8	358.5	359.3	362.4	369.5	373.4	5°
7.5°	241.1	249.8	249.0	248.2	256.1	259.2	260.8	263.1	272.6	273.4	278.1	7.5°
10°	195.4	203.3	205.6	211.1	213.5	218.2	221.4	225.3	233.2	237.1	242.7	10°
12.5°	158.4	167.8	170.2	176.5	179.6	185.1	188.3	196.2	200.9	205.6	212.7	12.5°
15°	122.1	130.0	132.4	137.1	140.2	146.5	149.7	154.4	163.9	168.6	178.1	15°
17.5°	89.8	94.5	96.1	99.3	101.6	104.0	110.3	118.2	123.7	131.6	136.3	17.5°
20°	70.1	71.7	72.5	73.3	74.8	76.4	79.6	85.1	88.2	94.5	99.3	20°
22.5°	63.0	63.8	63.8	64.6	64.6	65.4	67.0	68.5	70.1	72.5	74.8	22.5°
25°	58.3	59.1	59.1	59.9	59.9	60.7	61.5	62.2	63.8	64.6	65.4	25°
27.5°	55.9	55.9	55.9	55.9	56.7	56.7	57.5	59.1	59.1	60.7	61.5	27.5°
30°	53.6	53.6	53.6	54.4	55.1	56.7	58.3	60.7	61.5	63.0	63.8	30°
32.5°	49.6	48.1	49.6	48.8	47.3	47.3	48.1	49.6	49.6	50.4	51.2	32.5°
35°	38.6	38.6	39.4	40.2	40.2	41.0	41.8	42.5	43.3	44.9	45.7	35°
37.5°	36.2	37.0	37.0	37.8	38.6	38.6	39.4	41.0	41.8	42.5	43.3	37.5°
40°	34.7	35.5	36.2	37.0	37.0	37.8	38.6	39.4	40.2	41.8	42.5	40°
42.5°	33.1	34.7	34.7	35.5	36.2	37.0	37.8	38.6	40.2	41.0	41.8	42.5°
45°	32.3	33.1	33.9	34.7	35.5	36.2	37.0	38.6	39.4	41.0	41.8	45°
47.5°	31.5	32.3	33.1	33.9	34.7	35.5	36.2	37.8	39.4	41.0	42.5	47.5°
50°	29.9	31.5	32.3	33.1	33.9	34.7	36.2	37.8	39.4	41.8	45.7	50°
52.5°	29.2	30.7	30.7	32.3	33.1	34.7	36.2	37.8	40.2	43.3	47.3	52.5°
55°	27.6	29.2	29.2	30.7	32.3	33.9	34.7	37.0	39.4	42.5	43.3	55°
57.5°	26.0	27.6	28.4	29.2	30.7	32.3	33.1	35.5	38.6	39.4	38.6	57.5°
60°	25.2	26.0	26.8	27.6	29.2	29.9	32.3	37.0	40.2	37.0	33.1	60°
62.5°	23.6	25.2	26.0	26.8	28.4	29.2	30.7	33.9	34.7	30.7	29.9	62.5°
65°	22.8	24.4	24.4	26.0	26.8	26.8	27.6	27.6	27.6	27.6	27.6	65°
67.5°	21.3	22.8	22.8	23.6	24.4	24.4	25.2	25.2	25.2	25.2	25.2	67.5°
70°	19.7	20.5	21.3	22.1	22.1	22.1	22.8	22.8	22.8	23.6	23.6	70°
72.5°	18.1	18.9	18.9	19.7	19.7	20.5	20.5	21.3	21.3	21.3	22.1	72.5°
75°	15.0	15.8	16.5	17.3	17.3	18.1	18.1	18.1	18.1	18.9	18.9	75°
77.5°	12.6	12.6	14.2	14.2	15.0	15.0	15.8	15.8	15.8	15.8	15.8	77.5°
80°	9.5	9.5	10.2	11.0	11.8	11.8	11.8	11.8	11.8	11.8	11.8	80°
82.5°	5.5	5.5	6.3	6.3	7.1	7.1	7.9	7.1	7.1	6.3	6.3	82.5°
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8	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°
550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	0°	550.7
490.0	490.0	491.6	497.9	499.5	503.4	502.7	509.7	512.9	531.8	551.5	2.5°	570.4
387.6	390.8	395.5	403.4	408.1	416.8	415.2	429.4	431.7	466.4	500.3	5°	539.7
289.1	293.9	297.8	306.5	313.6	322.2	324.6	341.1	345.9	391.6	438.8	7.5°	493.2
250.5	254.5	260.0	265.5	272.6	276.5	282.8	290.7	296.2	330.1	384.5	10°	446.7
223.0	228.5	234.0	241.9	249.0	256.1	262.4	270.2	277.3	304.9	347.4	12.5°	419.1
189.1	195.4	201.7	210.4	220.6	227.7	234.8	243.4	252.1	286.0	335.6	15°	408.1
146.5	153.6	162.3	174.1	185.1	193.8	200.9	212.7	223.8	264.7	330.1	17.5°	419.1
107.9	114.2	122.1	132.4	140.2	155.2	163.1	177.3	190.7	241.9	322.2	20°	440.4
79.6	83.5	89.8	97.7	106.4	119.8	128.4	141.0	156.0	220.6	322.2	22.5°	476.7
67.0	68.5	70.9	75.6	81.1	90.6	99.3	111.9	126.8	201.7	330.9	25°	535.7
62.2	63.0	64.6	67.0	70.1	74.8	81.1	91.4	106.4	186.7	343.5	27.5°	598.8
65.4	65.4	65.4	66.2	67.8	70.1	73.3	79.6	89.0	164.7	352.2	30°	653.9
52.8	53.6	53.6	55.1	55.9	59.1	62.2	67.0	75.6	151.3	357.7	32.5°	693.3
47.3	48.1	48.8	49.6	51.2	52.0	55.1	60.7	69.3	142.6	356.9	35°	739.8
44.9	45.7	46.5	46.5	47.3	48.8	51.2	56.7	67.0	139.5	356.9	37.5°	793.4
44.1	44.1	44.1	44.1	45.7	47.3	51.2	56.7	65.4	136.3	359.3	40°	852.5
42.5	42.5	42.5	43.3	45.7	48.8	50.4	53.6	60.7	134.7	363.2	42.5°	906.0
42.5	42.5	43.3	46.5	47.3	47.3	48.1	50.4	57.5	134.7	371.1	45°	947.8
44.1	45.7	46.5	45.7	44.9	44.9	44.9	48.1	55.1	137.1	386.0	47.5°	995.9
48.1	47.3	44.1	43.3	43.3	41.8	42.5	45.7	54.4	137.1	416.8	50°	1062.0
47.3	44.1	43.3	41.8	40.2	39.4	40.2	44.9	53.6	135.5	460.9	52.5°	1158.9
42.5	41.8	39.4	37.8	37.0	37.8	39.4	43.3	52.0	133.9	515.3	55°	1276.3
37.0	36.2	34.7	34.7	35.5	36.2	38.6	41.8	48.1	130.0	558.6	57.5°	1384.3
32.3	32.3	32.3	33.1	33.9	34.7	37.0	39.4	44.1	122.9	587.7	60°	1453.6
29.2	29.9	29.9	31.5	32.3	33.1	34.7	37.0	40.2	115.0	594.0	62.5°	1454.4
27.6	28.4	29.2	29.2	29.9	30.7	33.1	34.7	40.2	108.7	555.4	65°	1396.9
26.0	26.0	26.8	27.6	28.4	29.2	30.7	34.7	41.0	103.2	471.1	67.5°	1251.1
23.6	24.4	25.2	26.0	26.0	26.8	29.2	34.7	41.8	100.8	374.2	70°	1056.5
22.1	22.1	22.8	23.6	23.6	25.2	27.6	33.9	42.5	96.9	282.1	72.5°	824.1
18.9	19.7	19.7	19.7	20.5	22.1	25.2	30.7	37.0	80.4	190.7	75°	558.6
16.5	15.8	16.5	16.5	17.3	18.1	20.5	23.6	27.6	51.2	100.8	77.5°	355.3
11.8	11.0	11.0	11.8	11.8	11.8	13.4	14.2	15.8	31.5	55.9	80°	209.6
6.3	5.5	6.3	5.5	5.5	6.3	6.3	7.9	7.9	15.0	25.2	82.5°	130.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	5.5	85°	52.8
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



'228493

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TION (continued):

359°	360°
550.7	550.7
579.9	584.6
559.4	565.7
515.3	523.9
474.3	483.0
452.2	457.0
442.0	451.4
457.0	466.4
486.9	501.9
539.7	558.6
623.2	639.7
689.4	715.4
750.8	772.1
799.7	824.1
855.6	879.2
923.4	955.7
993.5	1029.7
1058.9	1099.1
1120.3	1151.8
1167.6	1203.1
1227.5	1269.2
1329.1	1359.1
1452.0	1485.9
1566.3	1595.4
1619.0	1643.5
1620.6	1651.3
1586.0	1620.6
1497.7	1551.3
1324.4	1384.3
1040.8	1109.3
691.0	750.8
398.7	418.4
235.6	245.8
140.2	150.5
37.8	41.0
0.0	0.0
0.0	0.0

(END OF REPORT)