

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: LUMARK

Report Number: P959448

Luminaire Tested: **NAV-SB1A-830-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-830-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4118.5 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

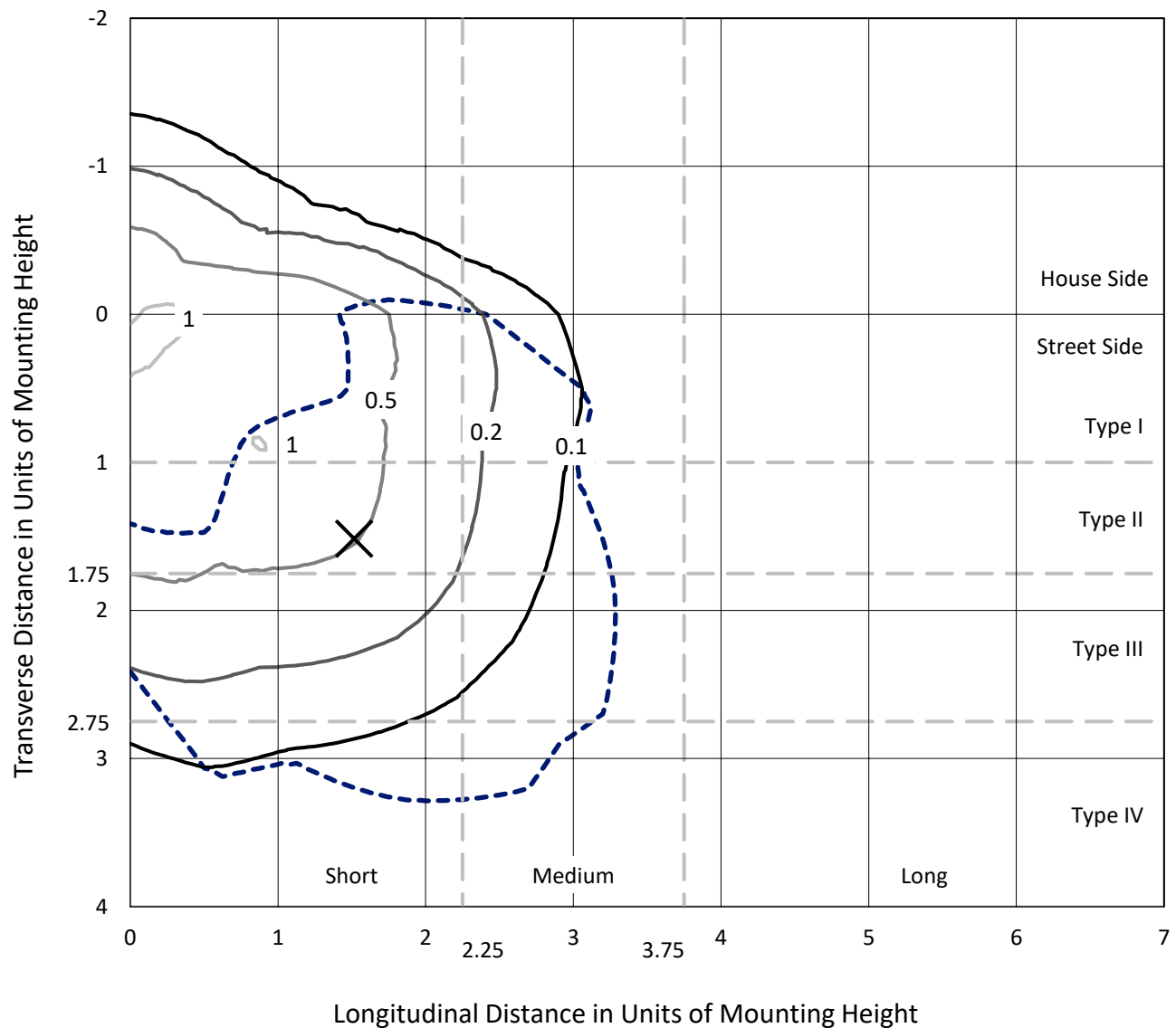
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

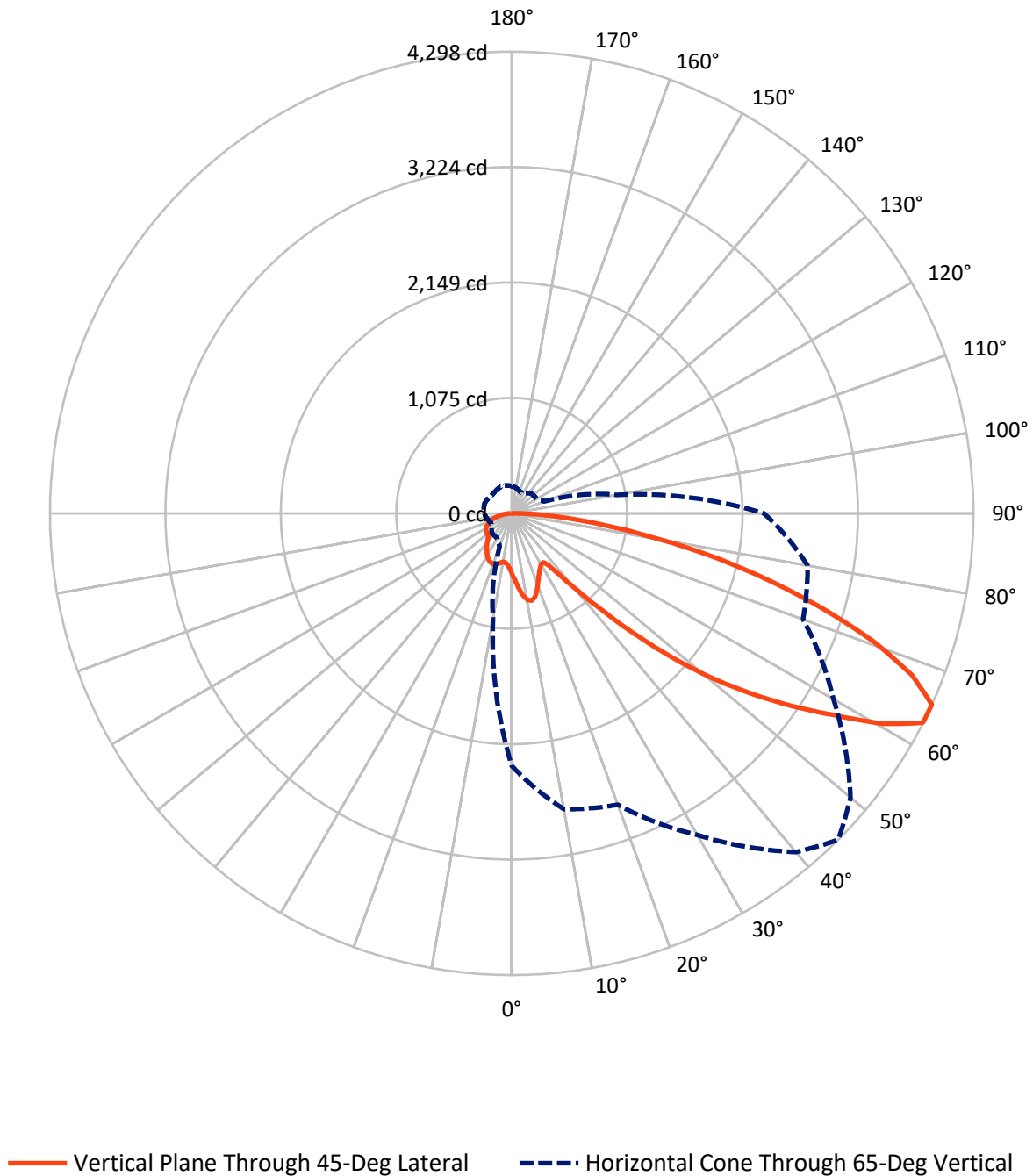
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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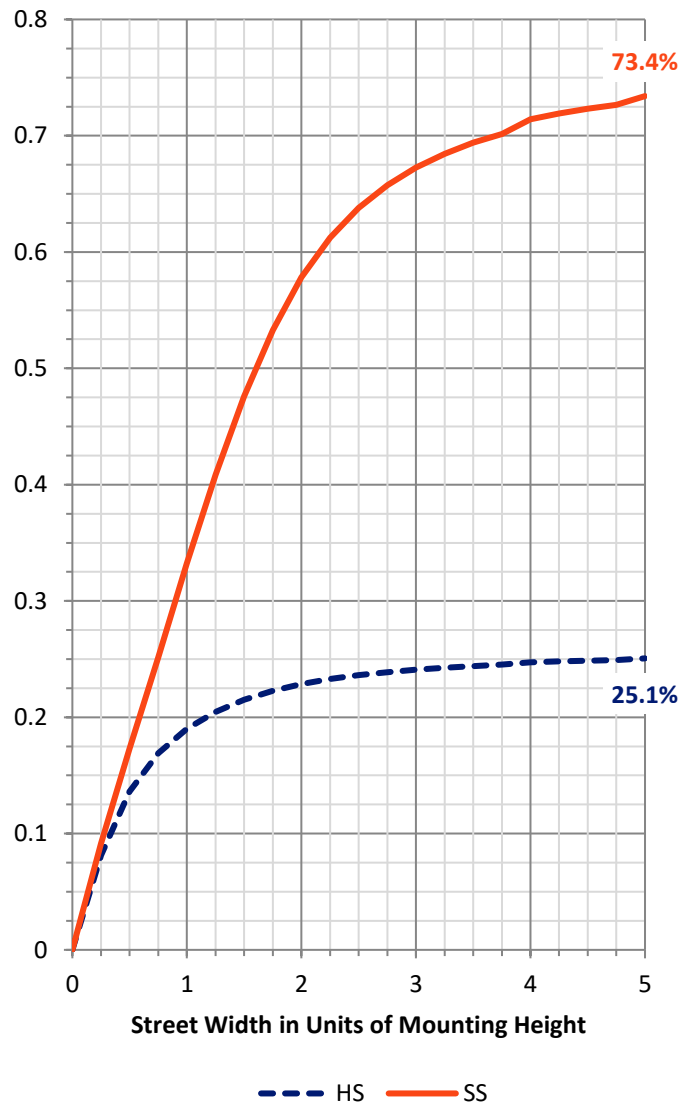
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1046.7	0.0	1046.7
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	3071.7	0.0	3071.7
	% Fixture	74.6	0.0	74.6
Total	Lumens	4118.5	0.0	4118.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	1.4
10°-20°	176.4	4.3
20°-30°	272.4	6.6
30°-40°	345.2	8.4
40°-50°	520.7	12.6
50°-60°	841.2	20.4
60°-70°	1048.7	25.5
70°-80°	687.7	16.7
80°-90°	170.0	4.1
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°	4118.5	100.0
0°-180°	4118.5	100.0

Coefficient of Utilization



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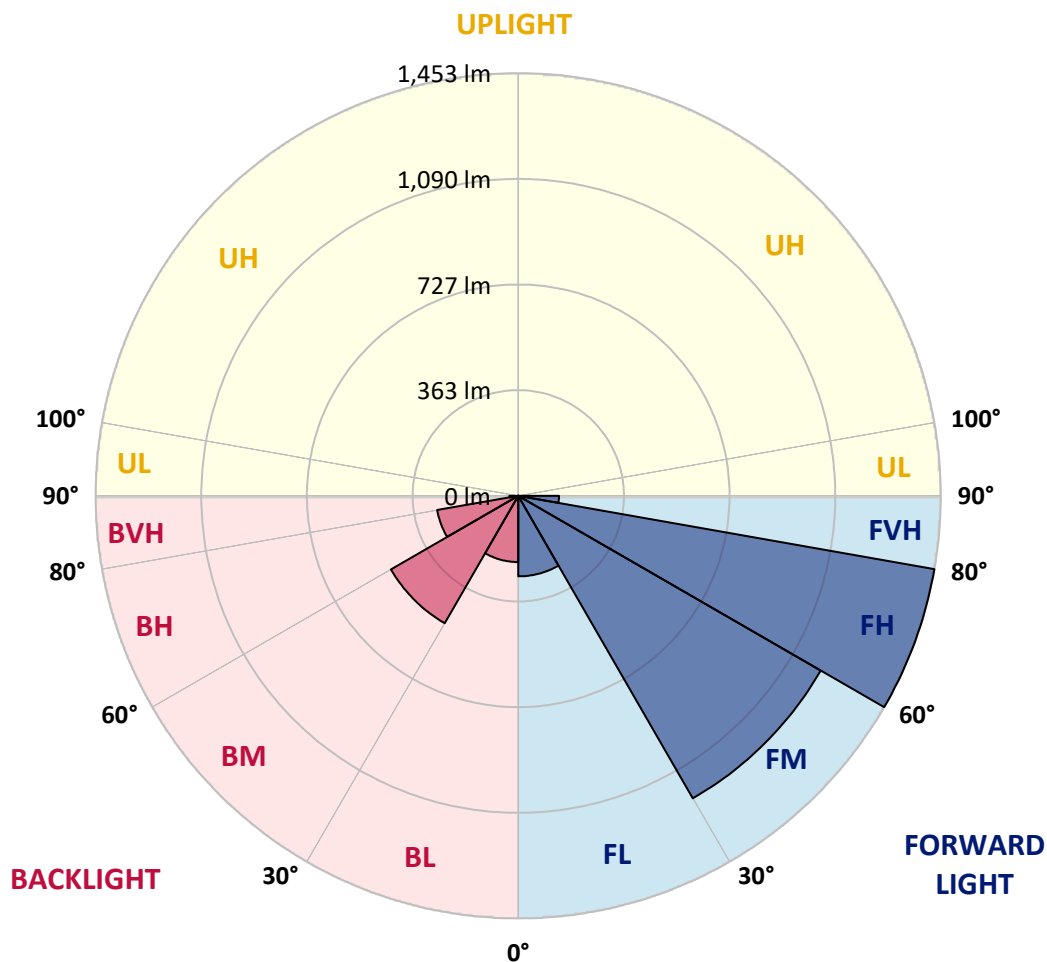
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	277.0	6.7			
FM	(30°-60°)	1201.3	29.2			
FH	(60°-80°)	1453.4	35.3			G1/1800
FVH	(80°-90°)	140.1	3.4			G2/225
BL	(0°-30°)	227.9	5.5	B1/500		
BM	(30°-60°)	505.8	12.3	B1/1000		
BH	(60°-80°)	283.0	6.9	B1/500		G1/500
BVH	(80°-90°)	30.0	0.7			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°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3
2.5°	609.1	611.3	613.7	616.9	620.2	622.2	624.1	625.1	626.1	625.7	626.1
5°	654.9	663.0	671.1	679.1	687.1	691.4	695.8	698.3	701.0	703.0	701.0
7.5°	701.0	714.1	727.1	739.0	750.8	757.9	765.0	768.9	772.6	774.5	772.6
10°	736.3	751.7	767.3	781.2	795.0	803.4	811.7	815.5	819.2	820.6	819.2
12.5°	757.9	774.7	791.5	804.0	816.5	822.6	828.7	830.7	832.7	833.0	832.7
15°	771.0	785.6	800.0	807.9	815.8	816.0	816.2	814.1	811.8	809.2	811.8
17.5°	778.4	788.2	798.1	798.2	798.3	789.5	780.7	772.6	764.5	758.9	764.5
20°	786.6	790.0	793.5	783.1	772.7	753.4	733.9	719.8	705.6	696.9	705.6
22.5°	796.0	791.5	787.1	765.7	744.3	715.8	687.2	669.4	651.8	642.2	651.8
25°	808.2	794.1	779.9	747.4	715.0	680.3	645.6	627.0	608.4	599.3	608.4
27.5°	824.7	799.5	774.2	731.1	688.2	649.7	611.3	593.0	574.7	566.1	574.7
30°	847.0	809.3	771.7	718.7	665.8	625.8	585.7	568.7	551.8	543.8	551.8
32.5°	873.3	821.7	770.2	710.2	650.4	612.7	575.0	561.7	548.4	542.6	548.4
35°	905.2	842.1	779.0	716.6	654.3	628.0	601.9	598.8	595.7	595.2	595.7
37.5°	959.0	884.8	810.6	753.8	697.1	695.4	693.7	708.0	722.1	729.5	722.1
40°	1040.3	959.5	878.8	836.6	794.5	824.2	854.0	888.6	923.1	940.3	923.1
42.5°	1148.1	1067.9	987.9	963.6	939.3	1004.2	1069.2	1132.0	1194.8	1231.7	1194.8
45°	1281.1	1209.2	1137.2	1126.6	1115.8	1219.9	1323.9	1427.1	1530.4	1593.2	1530.4
47.5°	1447.6	1377.6	1307.6	1305.4	1303.3	1453.3	1603.4	1754.6	1905.8	1994.5	1905.8
50°	1665.8	1579.3	1492.9	1493.3	1493.6	1687.0	1880.5	2080.0	2279.6	2400.2	2279.6
52.5°	1916.2	1811.6	1706.9	1696.3	1685.7	1916.7	2147.8	2394.7	2641.5	2786.2	2641.5
55°	2182.9	2079.5	1976.0	1934.8	1893.5	2150.7	2407.7	2702.1	2996.5	3168.5	2996.5
57.5°	2425.5	2369.1	2312.8	2230.0	2147.3	2406.9	2666.5	2999.9	3333.3	3546.6	3333.3
60°	2572.0	2659.6	2747.0	2644.2	2541.5	2787.2	3032.9	3389.8	3746.8	3977.3	3746.8
62.5°	2497.6	2736.6	2975.8	2964.2	2952.5	3177.6	3402.7	3742.4	4082.0	4295.1	4082.0
65°	2348.6	2573.1	2797.4	2841.8	2886.2	3172.2	3458.2	3787.6	4116.8	4298.2	4116.8
67.5°	2149.0	2362.4	2575.8	2596.6	2617.4	2915.5	3213.5	3544.2	3874.9	4017.1	3874.9
70°	1909.3	2141.3	2373.5	2382.8	2392.0	2658.6	2925.1	3209.7	3494.3	3573.4	3494.3
72.5°	1623.5	1889.8	2156.2	2162.9	2169.5	2378.1	2586.6	2799.8	3012.9	3020.9	3012.9
75°	1262.0	1537.6	1813.3	1838.0	1862.8	2025.1	2187.2	2337.3	2487.4	2447.2	2487.4
77.5°	901.6	1159.0	1416.3	1451.8	1487.2	1610.5	1733.9	1840.3	1946.7	1877.6	1946.7
80°	590.1	806.7	1023.2	1067.1	1111.2	1204.3	1297.4	1353.3	1409.2	1298.1	1409.2
82.5°	343.1	491.1	639.1	688.3	737.5	801.6	865.7	889.0	912.2	824.9	912.2
85°	150.9	229.5	308.0	349.8	391.8	444.3	497.0	510.2	523.5	453.6	523.5
87.5°	46.7	73.1	99.5	122.9	146.2	172.5	198.8	200.0	201.1	168.8	201.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3
2.5°	625.1	624.1	622.2	620.2	616.9	613.7	611.3	609.1	604.3	599.7	594.7
5°	698.3	695.8	691.4	687.1	679.1	671.1	663.0	654.9	644.5	634.3	623.9
7.5°	768.9	765.0	757.9	750.8	739.0	727.1	714.1	701.0	683.9	666.9	651.2
10°	815.5	811.7	803.4	795.0	781.2	767.3	751.7	736.3	714.7	693.2	672.4
12.5°	830.7	828.7	822.6	816.5	804.0	791.5	774.7	757.9	734.2	710.5	687.1
15°	814.1	816.2	816.0	815.8	807.9	800.0	785.6	771.0	746.4	721.7	696.2
17.5°	772.6	780.7	789.5	798.3	798.2	798.1	788.2	778.4	753.4	728.4	700.5
20°	719.8	733.9	753.4	772.7	783.1	793.5	790.0	786.6	760.6	734.6	704.0
22.5°	669.4	687.2	715.8	744.3	765.7	787.1	791.5	796.0	769.5	742.9	708.6
25°	627.0	645.6	680.3	715.0	747.4	779.9	794.1	808.2	782.2	756.1	716.9
27.5°	593.0	611.3	649.7	688.2	731.1	774.2	799.5	824.7	799.9	775.0	729.9
30°	568.7	585.7	625.8	665.8	718.7	771.7	809.3	847.0	823.0	799.0	746.8
32.5°	561.7	575.0	612.7	650.4	710.2	770.2	821.7	873.3	849.5	825.8	764.4
35°	598.8	601.9	628.0	654.3	716.6	779.0	842.1	905.2	882.5	859.8	784.5
37.5°	708.0	693.7	695.4	697.1	753.8	810.6	884.8	959.0	930.0	901.1	807.0
40°	888.6	854.0	824.2	794.5	836.6	878.8	959.5	1040.3	998.0	955.8	835.6
42.5°	1132.0	1069.2	1004.2	939.3	963.6	987.9	1067.9	1148.1	1087.1	1026.1	872.9
45°	1427.1	1323.9	1219.9	1115.8	1126.6	1137.2	1209.2	1281.1	1198.9	1116.6	922.1
47.5°	1754.6	1603.4	1453.3	1303.3	1305.4	1307.6	1377.6	1447.6	1331.9	1216.1	974.5
50°	2080.0	1880.5	1687.0	1493.6	1493.3	1492.9	1579.3	1665.8	1491.3	1316.7	1023.1
52.5°	2394.7	2147.8	1916.7	1685.7	1696.3	1706.9	1811.6	1916.2	1658.8	1401.3	1054.6
55°	2702.1	2407.7	2150.7	1893.5	1934.8	1976.0	2079.5	2182.9	1807.3	1431.5	1047.7
57.5°	2999.9	2666.5	2406.9	2147.3	2230.0	2312.8	2369.1	2425.5	1912.4	1399.4	998.7
60°	3389.8	3032.9	2787.2	2541.5	2644.2	2747.0	2659.6	2572.0	1938.8	1305.4	907.6
62.5°	3742.4	3402.7	3177.6	2952.5	2964.2	2975.8	2736.6	2497.6	1828.0	1158.5	784.4
65°	3787.6	3458.2	3172.2	2886.2	2841.8	2797.4	2573.1	2348.6	1671.4	994.1	658.8
67.5°	3544.2	3213.5	2915.5	2617.4	2596.6	2575.8	2362.4	2149.0	1484.9	820.8	535.8
70°	3209.7	2925.1	2658.6	2392.0	2382.8	2373.5	2141.3	1909.3	1281.5	653.7	421.8
72.5°	2799.8	2586.6	2378.1	2169.5	2162.9	2156.2	1889.8	1623.5	1061.0	498.6	322.5
75°	2337.3	2187.2	2025.1	1862.8	1838.0	1813.3	1537.6	1262.0	808.2	354.4	234.0
77.5°	1840.3	1733.9	1610.5	1487.2	1451.8	1416.3	1159.0	901.6	565.7	229.7	158.6
80°	1353.3	1297.4	1204.3	1111.2	1067.1	1023.2	806.7	590.1	364.4	138.8	102.2
82.5°	889.0	865.7	801.6	737.5	688.3	639.1	491.1	343.1	210.9	78.8	62.8
85°	510.2	497.0	444.3	391.8	349.8	308.0	229.5	150.9	94.9	38.8	33.6
87.5°	200.0	198.8	172.5	146.2	122.9	99.5	73.1	46.7	31.1	15.5	13.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3
2.5°	589.8	584.8	579.7	574.9	570.2	565.6	560.4	556.3	552.1	548.4	544.6
5°	613.7	603.3	593.0	583.2	573.6	564.5	555.4	547.6	539.7	533.1	526.5
7.5°	635.4	620.1	604.8	591.3	577.8	565.4	553.7	543.2	532.8	524.1	515.4
10°	651.6	633.0	614.4	598.4	582.4	567.1	554.5	543.5	532.5	523.8	515.1
12.5°	663.5	641.5	619.6	601.5	583.4	567.3	555.7	546.6	537.6	531.8	526.0
15°	670.6	645.3	620.0	599.1	578.2	560.4	551.0	546.6	542.3	543.1	544.0
17.5°	672.6	643.3	614.0	588.9	563.6	542.6	536.9	538.4	540.1	549.5	558.9
20°	673.3	637.8	602.2	571.0	539.9	515.4	513.8	521.2	528.6	545.1	561.5
22.5°	674.1	630.9	587.6	550.1	512.6	484.7	487.7	498.7	509.5	528.3	547.1
25°	677.6	624.1	570.8	526.8	482.9	454.3	462.4	475.0	487.6	504.4	521.3
27.5°	684.8	619.7	554.6	505.5	456.4	430.4	440.1	452.3	464.5	478.4	492.3
30°	694.5	617.6	540.5	487.7	434.8	413.0	420.7	430.3	440.0	451.5	463.1
32.5°	703.0	615.0	526.8	472.3	417.8	400.2	403.6	409.3	415.0	424.2	433.5
35°	709.3	610.1	510.9	457.3	403.5	388.9	387.4	389.0	390.6	397.6	404.7
37.5°	713.0	601.7	490.3	439.4	388.6	375.8	370.5	368.8	367.1	372.2	377.2
40°	715.2	590.1	464.8	418.2	371.6	360.0	352.1	348.1	344.2	347.8	351.5
42.5°	719.7	578.1	436.5	394.8	353.1	342.3	332.4	327.2	322.0	324.9	327.9
45°	727.4	567.0	406.5	369.9	333.3	322.5	312.8	307.7	302.7	305.1	307.7
47.5°	732.8	557.8	382.8	350.2	317.8	303.7	295.4	291.1	286.9	289.2	291.5
50°	729.3	547.9	366.3	337.2	308.1	289.7	280.0	276.2	272.4	276.1	279.8
52.5°	707.9	530.9	354.0	328.6	303.3	282.1	268.5	264.9	261.1	266.6	272.0
55°	663.7	503.0	342.2	322.4	302.6	282.8	262.5	256.6	250.7	258.5	266.3
57.5°	598.0	463.5	329.0	315.0	300.9	283.6	258.8	250.2	241.6	250.0	258.4
60°	509.7	412.3	314.7	303.7	292.6	281.2	255.4	244.3	233.1	240.5	247.7
62.5°	410.5	351.0	291.4	284.0	276.8	275.3	251.4	237.4	223.6	228.2	232.9
65°	323.5	295.7	267.9	264.4	261.1	261.2	242.9	228.2	213.3	215.1	216.9
67.5°	250.6	242.7	234.8	236.8	238.6	238.2	228.0	215.6	203.3	202.6	202.1
70°	189.8	192.1	194.3	203.3	212.2	212.2	208.8	200.1	191.3	189.3	187.4
72.5°	146.5	153.2	160.0	172.7	185.4	187.6	187.6	181.5	175.6	172.7	169.8
75°	113.7	119.8	126.1	140.2	154.5	164.3	163.5	158.9	154.2	151.5	148.7
77.5°	87.5	91.7	95.9	109.8	123.5	139.7	139.3	135.6	131.9	129.0	126.3
80°	65.6	67.3	69.1	80.8	92.5	111.8	111.7	108.6	105.5	103.2	100.9
82.5°	46.9	47.2	47.6	56.2	64.8	81.3	82.2	80.7	79.1	77.5	75.8
85°	28.4	28.2	28.0	34.3	40.6	52.9	54.1	52.5	50.8	49.0	47.2
87.5°	12.4	12.3	12.1	14.7	17.3	22.3	23.9	23.3	22.5	22.2	21.9
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3
2.5°	541.3	538.0	534.7	531.5	528.9	526.3	524.3	522.2	520.6	519.0	517.5
5°	520.7	514.9	509.6	504.3	500.2	496.1	493.3	490.5	488.4	486.4	484.8
7.5°	508.0	500.7	494.3	487.8	482.9	478.1	474.7	471.3	468.9	466.7	465.2
10°	507.2	499.3	492.0	484.7	479.0	473.1	469.3	465.6	463.3	461.1	459.9
12.5°	519.9	513.7	506.1	498.7	491.3	483.9	479.0	474.1	471.6	469.1	468.2
15°	542.3	540.7	534.2	527.7	517.1	506.6	499.2	491.7	488.3	484.9	483.6
17.5°	564.1	569.1	563.8	558.5	544.6	530.6	519.7	508.7	503.7	498.7	497.0
20°	572.1	582.6	580.2	577.7	561.8	545.9	532.5	519.1	512.6	506.1	504.1
22.5°	560.9	574.6	576.0	577.5	562.3	547.0	533.3	519.5	512.6	505.8	503.5
25°	534.8	548.4	553.4	558.4	545.9	533.5	521.2	508.9	503.0	497.1	495.0
27.5°	503.1	513.9	519.5	525.1	516.3	507.4	497.8	488.3	484.3	480.4	479.4
30°	472.0	481.0	485.5	490.2	483.4	476.6	469.8	462.9	460.9	458.9	458.9
32.5°	442.1	450.7	455.7	460.8	454.6	448.3	442.9	437.5	436.1	434.8	435.0
35°	413.2	421.7	427.8	433.9	429.5	425.1	419.9	414.9	413.0	410.9	410.5
37.5°	385.6	394.2	401.7	409.2	407.1	405.1	400.5	395.9	392.2	388.5	386.6
40°	359.7	367.9	376.5	385.2	385.7	386.1	382.2	378.3	373.0	367.7	364.1
42.5°	335.7	343.5	352.8	362.1	364.7	367.2	363.9	360.5	353.9	347.3	342.0
45°	315.1	322.5	332.1	341.8	345.4	349.0	346.0	343.1	335.5	327.9	321.7
47.5°	298.8	306.0	315.5	325.1	329.2	333.3	331.3	329.2	322.5	315.7	310.1
50°	286.6	293.5	302.0	310.6	315.8	321.1	321.0	320.9	315.5	310.2	304.9
52.5°	278.3	284.5	292.5	300.5	306.8	313.1	314.3	315.4	311.0	306.6	301.9
55°	273.0	279.7	286.7	293.7	300.3	307.0	308.6	310.2	306.4	302.5	298.4
57.5°	266.3	274.2	281.2	288.0	294.8	301.5	303.1	304.6	300.7	296.9	292.8
60°	256.9	266.0	273.0	280.0	286.8	293.5	295.2	296.9	293.2	289.5	285.2
62.5°	243.4	254.0	261.6	269.1	275.2	281.4	283.0	284.7	281.4	277.9	273.5
65°	228.3	239.5	246.7	253.9	259.3	264.8	266.5	268.2	265.0	261.7	257.4
67.5°	212.6	223.0	229.9	236.7	241.4	246.0	247.7	249.4	246.3	243.3	239.3
70°	196.6	205.8	211.7	217.5	221.8	226.0	227.7	229.2	226.7	224.3	220.5
72.5°	177.1	184.3	189.6	195.0	199.1	203.3	205.1	207.0	205.0	203.0	199.4
75°	154.1	159.5	164.3	169.0	172.8	176.6	178.7	180.6	179.7	178.7	175.6
77.5°	130.7	135.1	139.2	143.3	147.3	151.3	153.1	155.0	153.6	152.2	149.0
80°	104.4	108.1	111.6	115.1	118.1	121.1	123.6	126.1	125.5	124.8	120.7
82.5°	75.5	75.2	74.0	72.8	79.2	85.7	89.9	94.1	93.8	93.6	90.1
85°	45.6	44.0	40.6	37.3	43.3	49.3	54.5	59.8	59.3	58.9	56.2
87.5°	21.8	21.7	19.2	16.6	19.2	21.7	23.8	25.9	25.4	24.8	23.5
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3
2.5°	516.0	514.1	516.0	517.5	519.0	520.6	522.2	524.3	526.3	528.9	531.5
5°	483.3	481.7	483.3	484.8	486.4	488.4	490.5	493.3	496.1	500.2	504.3
7.5°	463.9	462.9	463.9	465.2	466.7	468.9	471.3	474.7	478.1	482.9	487.8
10°	458.8	458.3	458.8	459.9	461.1	463.3	465.6	469.3	473.1	479.0	484.7
12.5°	467.2	467.0	467.2	468.2	469.1	471.6	474.1	479.0	483.9	491.3	498.7
15°	482.4	482.3	482.4	483.6	484.9	488.3	491.7	499.2	506.6	517.1	527.7
17.5°	495.3	495.1	495.3	497.0	498.7	503.7	508.7	519.7	530.6	544.6	558.5
20°	502.0	501.3	502.0	504.1	506.1	512.6	519.1	532.5	545.9	561.8	577.7
22.5°	501.2	500.3	501.2	503.5	505.8	512.6	519.5	533.3	547.0	562.3	577.5
25°	492.8	491.6	492.8	495.0	497.1	503.0	508.9	521.2	533.5	545.9	558.4
27.5°	478.4	478.1	478.4	479.4	480.4	484.3	488.3	497.8	507.4	516.3	525.1
30°	458.9	459.2	458.9	458.9	458.9	460.9	462.9	469.8	476.6	483.4	490.2
32.5°	435.2	435.5	435.2	435.0	434.8	436.1	437.5	442.9	448.3	454.6	460.8
35°	410.1	409.9	410.1	410.5	410.9	413.0	414.9	419.9	425.1	429.5	433.9
37.5°	384.7	383.6	384.7	386.6	388.5	392.2	395.9	400.5	405.1	407.1	409.2
40°	360.5	358.3	360.5	364.1	367.7	373.0	378.3	382.2	386.1	385.7	385.2
42.5°	336.8	333.3	336.8	342.0	347.3	353.9	360.5	363.9	367.2	364.7	362.1
45°	315.6	311.6	315.6	321.7	327.9	335.5	343.1	346.0	349.0	345.4	341.8
47.5°	304.3	300.5	304.3	310.1	315.7	322.5	329.2	331.3	333.3	329.2	325.1
50°	299.6	296.0	299.6	304.9	310.2	315.5	320.9	321.0	321.1	315.8	310.6
52.5°	297.1	293.8	297.1	301.9	306.6	311.0	315.4	314.3	313.1	306.8	300.5
55°	294.3	291.2	294.3	298.4	302.5	306.4	310.2	308.6	307.0	300.3	293.7
57.5°	288.7	285.6	288.7	292.8	296.9	300.7	304.6	303.1	301.5	294.8	288.0
60°	281.0	277.8	281.0	285.2	289.5	293.2	296.9	295.2	293.5	286.8	280.0
62.5°	269.1	265.2	269.1	273.5	277.9	281.4	284.7	283.0	281.4	275.2	269.1
65°	253.1	249.7	253.1	257.4	261.7	265.0	268.2	266.5	264.8	259.3	253.9
67.5°	235.3	232.3	235.3	239.3	243.3	246.3	249.4	247.7	246.0	241.4	236.7
70°	216.7	213.2	216.7	220.5	224.3	226.7	229.2	227.7	226.0	221.8	217.5
72.5°	195.7	192.3	195.7	199.4	203.0	205.0	207.0	205.1	203.3	199.1	195.0
75°	172.5	169.3	172.5	175.6	178.7	179.7	180.6	178.7	176.6	172.8	169.0
77.5°	146.0	143.4	146.0	149.0	152.2	153.6	155.0	153.1	151.3	147.3	143.3
80°	116.5	111.7	116.5	120.7	124.8	125.5	126.1	123.6	121.1	118.1	115.1
82.5°	86.5	83.4	86.5	90.1	93.6	93.8	94.1	89.9	85.7	79.2	72.8
85°	53.4	50.6	53.4	56.2	58.9	59.3	59.8	54.5	49.3	43.3	37.3
87.5°	22.0	20.6	22.0	23.5	24.8	25.4	25.9	23.8	21.7	19.2	16.6
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):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3
2.5°	534.7	538.0	541.3	544.6	548.4	552.1	556.3	560.4	565.6	570.2	574.9
5°	509.6	514.9	520.7	526.5	533.1	539.7	547.6	555.4	564.5	573.6	583.2
7.5°	494.3	500.7	508.0	515.4	524.1	532.8	543.2	553.7	565.4	577.8	591.3
10°	492.0	499.3	507.2	515.1	523.8	532.5	543.5	554.5	567.1	582.4	598.4
12.5°	506.1	513.7	519.9	526.0	531.8	537.6	546.6	555.7	567.3	583.4	601.5
15°	534.2	540.7	542.3	544.0	543.1	542.3	546.6	551.0	560.4	578.2	599.1
17.5°	563.8	569.1	564.1	558.9	549.5	540.1	538.4	536.9	542.6	563.6	588.9
20°	580.2	582.6	572.1	561.5	545.1	528.6	521.2	513.8	515.4	539.9	571.0
22.5°	576.0	574.6	560.9	547.1	528.3	509.5	498.7	487.7	484.7	512.6	550.1
25°	553.4	548.4	534.8	521.3	504.4	487.6	475.0	462.4	454.3	482.9	526.8
27.5°	519.5	513.9	503.1	492.3	478.4	464.5	452.3	440.1	430.4	456.4	505.5
30°	485.5	481.0	472.0	463.1	451.5	440.0	430.3	420.7	413.0	434.8	487.7
32.5°	455.7	450.7	442.1	433.5	424.2	415.0	409.3	403.6	400.2	417.8	472.3
35°	427.8	421.7	413.2	404.7	397.6	390.6	389.0	387.4	388.9	403.5	457.3
37.5°	401.7	394.2	385.6	377.2	372.2	367.1	368.8	370.5	375.8	388.6	439.4
40°	376.5	367.9	359.7	351.5	347.8	344.2	348.1	352.1	360.0	371.6	418.2
42.5°	352.8	343.5	335.7	327.9	324.9	322.0	327.2	332.4	342.3	353.1	394.8
45°	332.1	322.5	315.1	307.7	305.1	302.7	307.7	312.8	322.5	333.3	369.9
47.5°	315.5	306.0	298.8	291.5	289.2	286.9	291.1	295.4	303.7	317.8	350.2
50°	302.0	293.5	286.6	279.8	276.1	272.4	276.2	280.0	289.7	308.1	337.2
52.5°	292.5	284.5	278.3	272.0	266.6	261.1	264.9	268.5	282.1	303.3	328.6
55°	286.7	279.7	273.0	266.3	258.5	250.7	256.6	262.5	282.8	302.6	322.4
57.5°	281.2	274.2	266.3	258.4	250.0	241.6	250.2	258.8	283.6	300.9	315.0
60°	273.0	266.0	256.9	247.7	240.5	233.1	244.3	255.4	281.2	292.6	303.7
62.5°	261.6	254.0	243.4	232.9	228.2	223.6	237.4	251.4	275.3	276.8	284.0
65°	246.7	239.5	228.3	216.9	215.1	213.3	228.2	242.9	261.2	261.1	264.4
67.5°	229.9	223.0	212.6	202.1	202.6	203.3	215.6	228.0	238.2	238.6	236.8
70°	211.7	205.8	196.6	187.4	189.3	191.3	200.1	208.8	212.2	212.2	203.3
72.5°	189.6	184.3	177.1	169.8	172.7	175.6	181.5	187.6	187.6	185.4	172.7
75°	164.3	159.5	154.1	148.7	151.5	154.2	158.9	163.5	164.3	154.5	140.2
77.5°	139.2	135.1	130.7	126.3	129.0	131.9	135.6	139.3	139.7	123.5	109.8
80°	111.6	108.1	104.4	100.9	103.2	105.5	108.6	111.7	111.8	92.5	80.8
82.5°	74.0	75.2	75.5	75.8	77.5	79.1	80.7	82.2	81.3	64.8	56.2
85°	40.6	44.0	45.6	47.2	49.0	50.8	52.5	54.1	52.9	40.6	34.3
87.5°	19.2	21.7	21.8	21.9	22.2	22.5	23.3	23.9	22.3	17.3	14.7
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):

	330°	335°	340°	345°	350°	355°	360°
0°	566.3	566.3	566.3	566.3	566.3	566.3	566.3
2.5°	579.7	584.8	589.8	594.7	599.7	604.3	609.1
5°	593.0	603.3	613.7	623.9	634.3	644.5	654.9
7.5°	604.8	620.1	635.4	651.2	666.9	683.9	701.0
10°	614.4	633.0	651.6	672.4	693.2	714.7	736.3
12.5°	619.6	641.5	663.5	687.1	710.5	734.2	757.9
15°	620.0	645.3	670.6	696.2	721.7	746.4	771.0
17.5°	614.0	643.3	672.6	700.5	728.4	753.4	778.4
20°	602.2	637.8	673.3	704.0	734.6	760.6	786.6
22.5°	587.6	630.9	674.1	708.6	742.9	769.5	796.0
25°	570.8	624.1	677.6	716.9	756.1	782.2	808.2
27.5°	554.6	619.7	684.8	729.9	775.0	799.9	824.7
30°	540.5	617.6	694.5	746.8	799.0	823.0	847.0
32.5°	526.8	615.0	703.0	764.4	825.8	849.5	873.3
35°	510.9	610.1	709.3	784.5	859.8	882.5	905.2
37.5°	490.3	601.7	713.0	807.0	901.1	930.0	959.0
40°	464.8	590.1	715.2	835.6	955.8	998.0	1040.3
42.5°	436.5	578.1	719.7	872.9	1026.1	1087.1	1148.1
45°	406.5	567.0	727.4	922.1	1116.6	1198.9	1281.1
47.5°	382.8	557.8	732.8	974.5	1216.1	1331.9	1447.6
50°	366.3	547.9	729.3	1023.1	1316.7	1491.3	1665.8
52.5°	354.0	530.9	707.9	1054.6	1401.3	1658.8	1916.2
55°	342.2	503.0	663.7	1047.7	1431.5	1807.3	2182.9
57.5°	329.0	463.5	598.0	998.7	1399.4	1912.4	2425.5
60°	314.7	412.3	509.7	907.6	1305.4	1938.8	2572.0
62.5°	291.4	351.0	410.5	784.4	1158.5	1828.0	2497.6
65°	267.9	295.7	323.5	658.8	994.1	1671.4	2348.6
67.5°	234.8	242.7	250.6	535.8	820.8	1484.9	2149.0
70°	194.3	192.1	189.8	421.8	653.7	1281.5	1909.3
72.5°	160.0	153.2	146.5	322.5	498.6	1061.0	1623.5
75°	126.1	119.8	113.7	234.0	354.4	808.2	1262.0
77.5°	95.9	91.7	87.5	158.6	229.7	565.7	901.6
80°	69.1	67.3	65.6	102.2	138.8	364.4	590.1
82.5°	47.6	47.2	46.9	62.8	78.8	210.9	343.1
85°	28.0	28.2	28.4	33.6	38.8	94.9	150.9
87.5°	12.1	12.3	12.4	13.9	15.5	31.1	46.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)