Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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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: P945458

Luminaire Tested: **GALN-SB1B-927-U-T4W-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

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Test Information

Test Method:	LM-79-08
Report Number:	P945458
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB1B-927-U-T4W-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(1) 90 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2641 lumens
Efficiency:	N/A
Efficacy:	66.4 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B0 - U0 - G1
Input Watts (W):	39.8
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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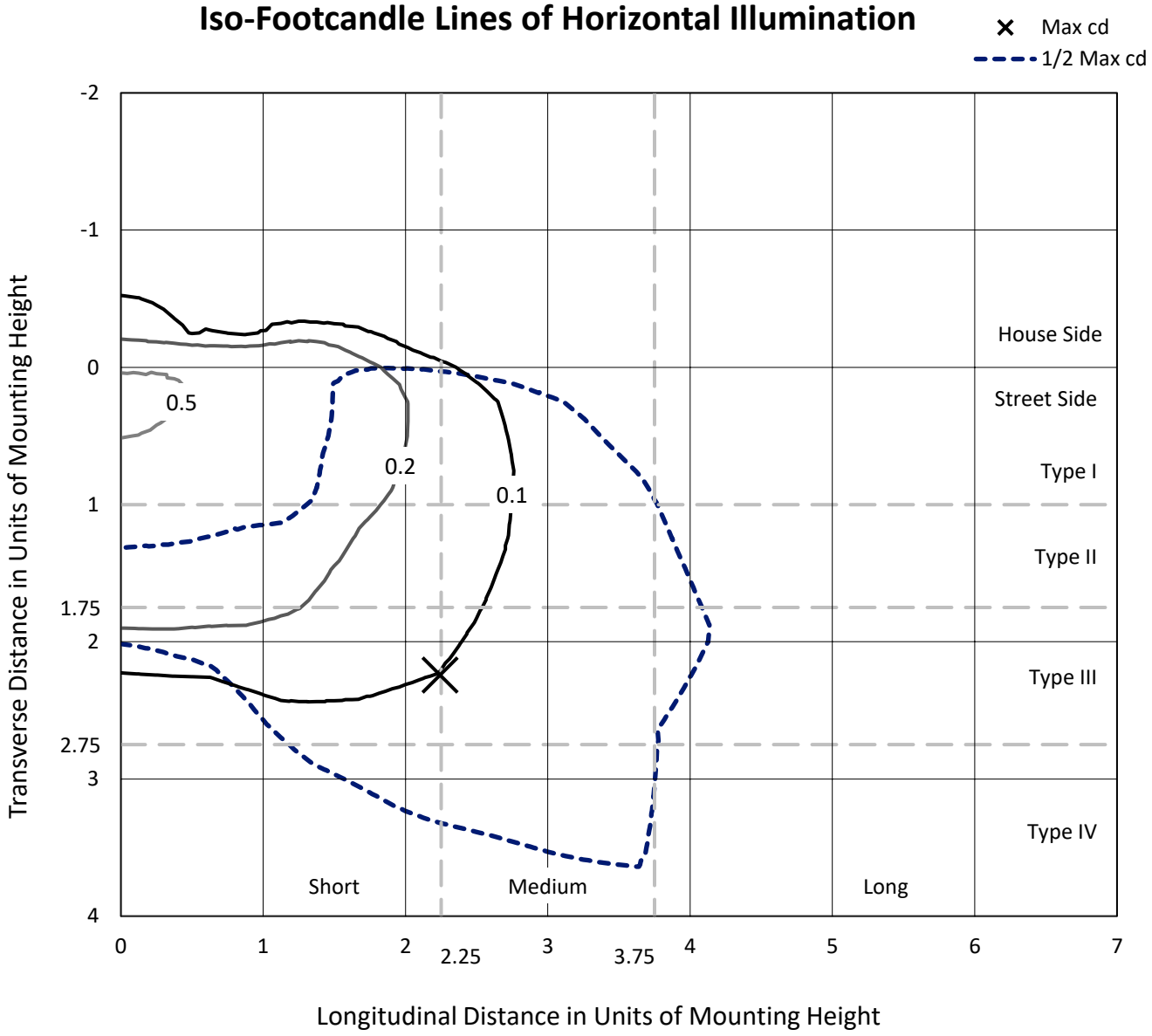
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
Type IV - Short - N/A

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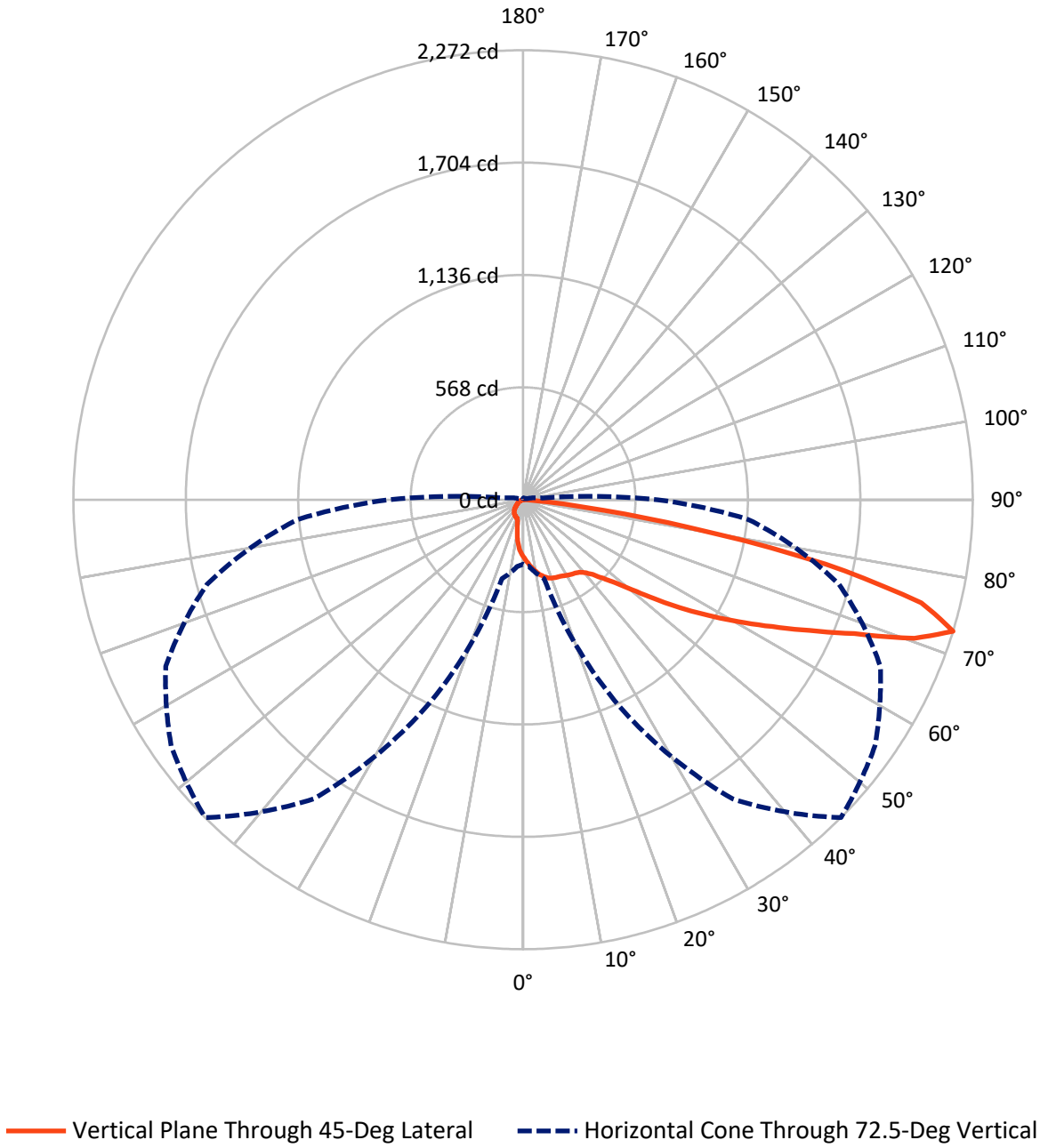
Luminous Intensity Polar Plot



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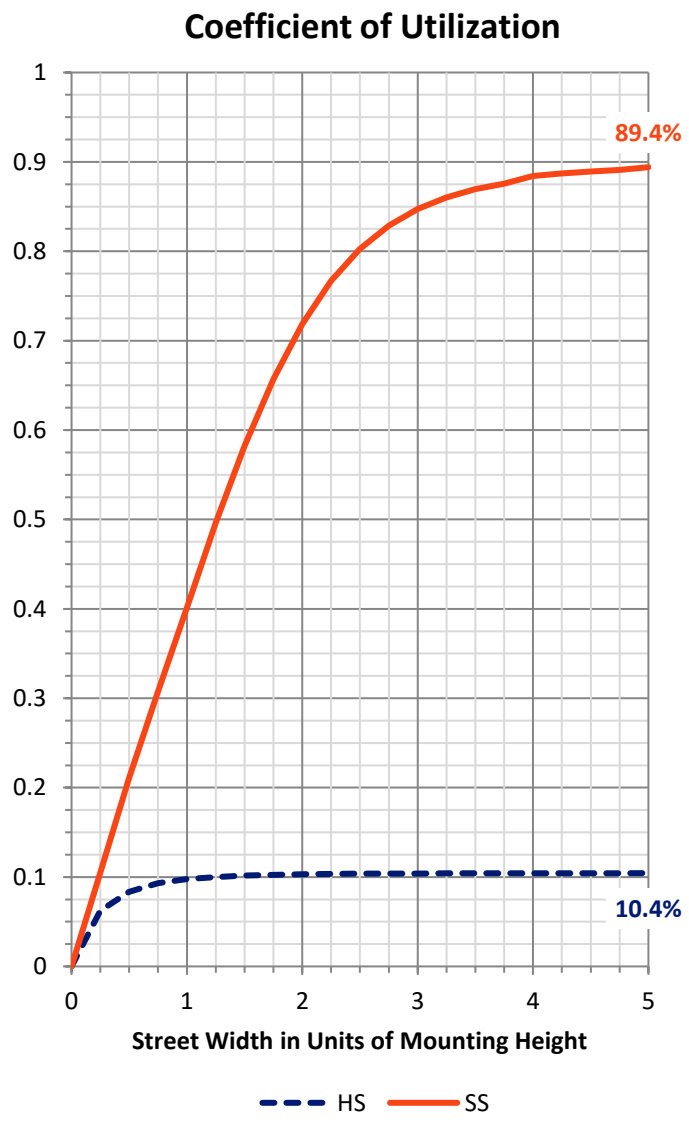
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	277.5	0.0	277.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	2363.5	0.0	2363.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	2641.0	0.0	2641.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.3	1.0
10°-20°	79.7	3.0
20°-30°	130.8	5.0
30°-40°	185.6	7.0
40°-50°	306.7	11.6
50°-60°	550.9	20.9
60°-70°	765.0	29.0
70°-80°	554.9	21.0
80°-90°	40.1	1.5
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°	2641.0	100.0
0°-180°	2641.0	100.0



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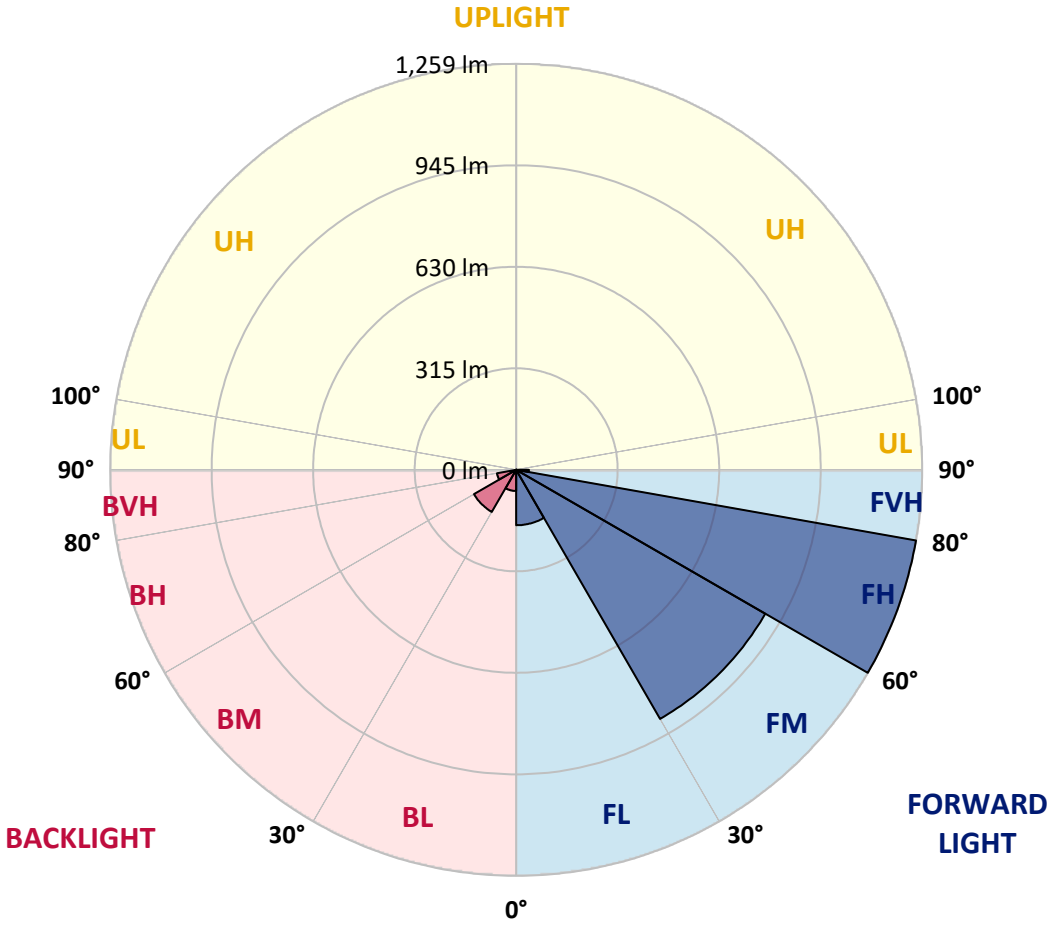
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	172.0	6.5			
FM	(30°-60°)	892.3	33.8			
FH	(60°-80°)	1259.4	47.7			G1/1800
FVH	(80°-90°)	39.8	1.5			G1/100
BL	(0°-30°)	65.7	2.5	B0/110		
BM	(30°-60°)	150.9	5.7	B0/220		
BH	(60°-80°)	60.5	2.3	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			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°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	289.3	289.3	289.3	289.3	289.3	*289.3*	289.3	289.3	289.3	289.3
2.5°	316.0	316.5	316.2	314.0	310.4	*308.4*	307.4	303.7	301.4	297.3
5°	345.0	347.2	345.9	341.6	334.8	*329.9*	328.4	321.1	314.4	306.6
7.5°	375.9	376.9	374.6	369.0	359.8	*351.5*	350.3	340.0	329.3	317.4
10°	402.5	403.8	400.2	392.1	381.6	*371.3*	369.5	358.2	345.6	331.0
12.5°	424.9	426.1	421.5	411.7	400.2	*389.6*	387.8	375.9	362.0	345.8
15°	441.8	444.2	437.9	427.4	415.0	*404.3*	403.4	391.7	378.2	360.2
17.5°	451.7	454.1	448.1	435.5	424.9	*415.9*	414.8	405.1	392.4	375.1
20°	453.4	455.5	449.2	438.2	429.4	*422.2*	421.6	414.6	405.4	388.8
22.5°	448.5	451.2	445.4	436.6	430.5	*426.7*	426.0	422.0	416.8	402.7
25°	443.5	445.6	441.3	433.5	430.3	*429.9*	430.5	429.8	428.7	416.8
27.5°	443.1	445.4	440.6	433.2	431.4	*435.2*	435.7	439.1	440.0	429.6
30°	446.2	447.8	443.1	435.3	434.4	*443.1*	443.3	449.4	450.8	440.4
32.5°	452.8	454.6	449.9	438.6	437.3	*449.4*	449.9	458.1	460.4	451.9
35°	468.5	470.7	465.3	447.6	443.1	*455.4*	457.0	466.5	471.2	464.2
37.5°	507.6	501.3	493.9	465.8	456.3	*464.7*	467.4	478.6	486.9	478.8
40°	604.8	585.0	561.9	496.8	479.3	*484.7*	486.9	498.1	509.4	501.5
42.5°	750.6	727.2	690.1	568.2	514.1	*516.8*	518.4	528.2	544.2	537.9
45°	880.6	872.1	834.3	690.1	579.2	*565.9*	567.8	572.9	596.5	594.2
47.5°	980.5	975.6	946.4	829.9	689.2	*625.9*	631.5	633.8	667.9	676.2
50°	1057.3	1055.5	1029.3	954.3	832.8	*714.4*	716.4	711.3	762.3	782.9
52.5°	1129.7	1135.9	1116.6	1069.9	986.2	*830.3*	829.9	806.2	875.0	906.0
55°	1195.2	1197.3	1199.3	1187.8	1140.5	*962.3*	958.8	919.9	1005.7	1037.8
57.5°	1256.6	1257.5	1275.2	1298.8	1301.2	*1103.9*	1097.6	1051.0	1148.5	1171.4
60°	1297.9	1302.1	1339.4	1405.0	1433.7	*1250.1*	1246.7	1199.1	1293.8	1304.4
62.5°	1238.4	1263.7	1357.8	1487.9	1558.8	*1412.2*	1410.6	1365.9	1446.6	1438.0
65°	1002.5	1045.2	1210.7	1544.0	1681.5	*1593.2*	1595.5	1547.9	1603.6	1575.5
67.5°	701.2	746.3	942.1	1548.5	1818.7	*1805.7*	1819.2	1744.6	1770.4	1707.3
70°	484.9	508.2	635.6	1451.5	1925.6	*2098.5*	2098.1	1986.2	1936.2	1767.3
72.5°	*326.1*	*338.2*	*412.8*	*1151.5*	*1847.0*	*2272.4*	*2262.0*	*2170.8*	*1992.1*	*1652.9*
75°	137.5	146.4	191.1	647.2	1461.2	*2079.0*	2050.7	1918.4	1770.0	1301.5
77.5°	43.6	47.4	75.4	231.6	804.9	*1562.7*	1532.8	1198.0	1186.3	652.9
80°	20.7	24.2	42.4	93.0	316.7	*850.0*	845.8	543.5	510.3	176.3
82.5°	9.0	10.6	23.4	49.8	141.7	*303.2*	309.3	185.0	153.0	66.9
85°	2.9	3.8	10.8	22.9	59.8	*75.4*	74.4	44.0	61.7	36.4
87.5°	0.0	0.0	3.6	5.2	6.1	*4.3*	4.9	3.8	17.1	10.1
90°	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
289.3	0°	289.3	289.3	289.3	289.3	289.3	289.3	289.3	289.3	289.3	289.3
292.9	2.5°	290.8	287.9	282.8	278.2	274.0	269.9	267.3	263.7	263.4	263.4
297.6	5°	292.8	288.1	279.1	269.5	258.5	248.0	237.6	227.5	224.3	221.9
305.2	7.5°	298.5	291.1	276.9	258.7	237.8	214.9	198.8	181.5	174.9	171.3
315.3	10°	306.8	296.7	275.1	243.2	209.3	178.1	155.2	136.5	129.3	126.2
326.3	12.5°	316.0	303.6	271.8	223.9	178.1	140.8	118.4	109.8	108.7	108.7
339.4	15°	327.0	311.9	266.3	201.2	145.5	111.4	103.5	103.8	104.9	105.6
352.2	17.5°	338.4	320.7	257.4	175.8	116.6	100.2	100.4	100.9	101.9	102.6
366.1	20°	350.6	329.5	245.7	148.7	100.0	97.0	97.5	98.1	98.8	99.1
379.1	22.5°	363.8	337.8	231.8	122.2	94.5	94.3	94.5	95.0	95.9	95.9
394.2	25°	377.8	347.0	216.0	102.9	91.6	91.6	91.9	92.3	93.0	93.0
408.8	27.5°	392.3	355.5	199.2	92.8	89.1	88.9	88.9	89.4	89.8	90.0
423.3	30°	408.1	365.4	182.4	90.7	87.1	86.2	85.6	86.0	86.3	86.5
438.4	32.5°	424.3	375.0	167.5	91.6	85.1	83.5	81.7	81.3	81.3	82.0
454.1	35°	442.4	385.4	155.9	94.6	84.0	79.5	76.6	75.0	75.2	76.3
472.8	37.5°	464.0	398.0	147.5	97.3	83.3	75.0	70.3	68.3	67.1	68.3
498.6	40°	492.3	416.6	141.3	99.5	82.4	69.8	63.5	60.2	57.9	58.6
538.6	42.5°	533.9	445.8	139.0	99.7	80.4	63.6	56.4	52.1	48.7	48.9
598.8	45°	592.4	491.9	151.1	97.3	76.1	57.0	49.0	43.3	41.1	40.6
688.8	47.5°	672.4	559.2	179.0	92.5	69.8	50.5	41.8	37.0	35.3	34.4
806.9	50°	779.7	645.5	210.0	87.1	63.5	44.3	35.9	32.8	31.7	30.8
946.9	52.5°	904.0	733.1	235.4	81.7	57.1	38.9	32.1	30.3	29.4	28.7
1082.1	55°	1018.1	793.5	234.0	75.9	51.0	34.6	29.4	28.3	27.2	26.5
1198.6	57.5°	1089.2	802.0	192.9	69.6	44.0	31.2	26.9	26.1	24.9	24.0
1299.4	60°	1121.8	753.7	135.2	61.3	37.0	27.9	24.2	23.8	22.2	20.9
1394.7	62.5°	1127.7	663.9	90.1	51.0	30.8	24.9	21.5	20.9	18.7	16.6
1472.2	65°	1103.6	535.6	62.4	39.8	26.3	21.6	18.4	17.3	15.0	12.8
1490.6	67.5°	1027.2	376.0	43.4	28.7	22.4	17.1	14.6	14.2	12.4	10.6
1396.9	70°	887.1	214.3	29.0	21.5	17.7	11.7	11.5	11.9	10.1	8.7
1141.3	72.5°	*680.1*	*98.1*	*18.0*	*15.7*	*12.1*	*7.9*	*9.2*	*9.4*	*7.8*	*6.5*
712.1	75°	400.4	42.0	11.4	10.1	6.1	5.2	6.7	6.9	5.2	4.1
260.3	77.5°	136.3	15.9	7.2	5.9	3.1	2.9	4.3	4.3	2.9	1.6
52.3	80°	31.0	5.9	3.6	2.3	1.4	1.3	1.4	1.3	0.7	0.2
16.0	82.5°	8.8	2.3	1.4	0.9	0.5	0.5	0.2	0.0	0.0	0.0
5.6	85°	2.5	1.1	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
2.0	87.5°	1.1	0.2	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

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180°
289.3
264.3
223.0
171.8
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108.7
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102.6
99.3
96.3
93.2
90.1
86.9
82.6
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