

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: P950208

Luminaire Tested: **GALN-SB4D-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32253 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

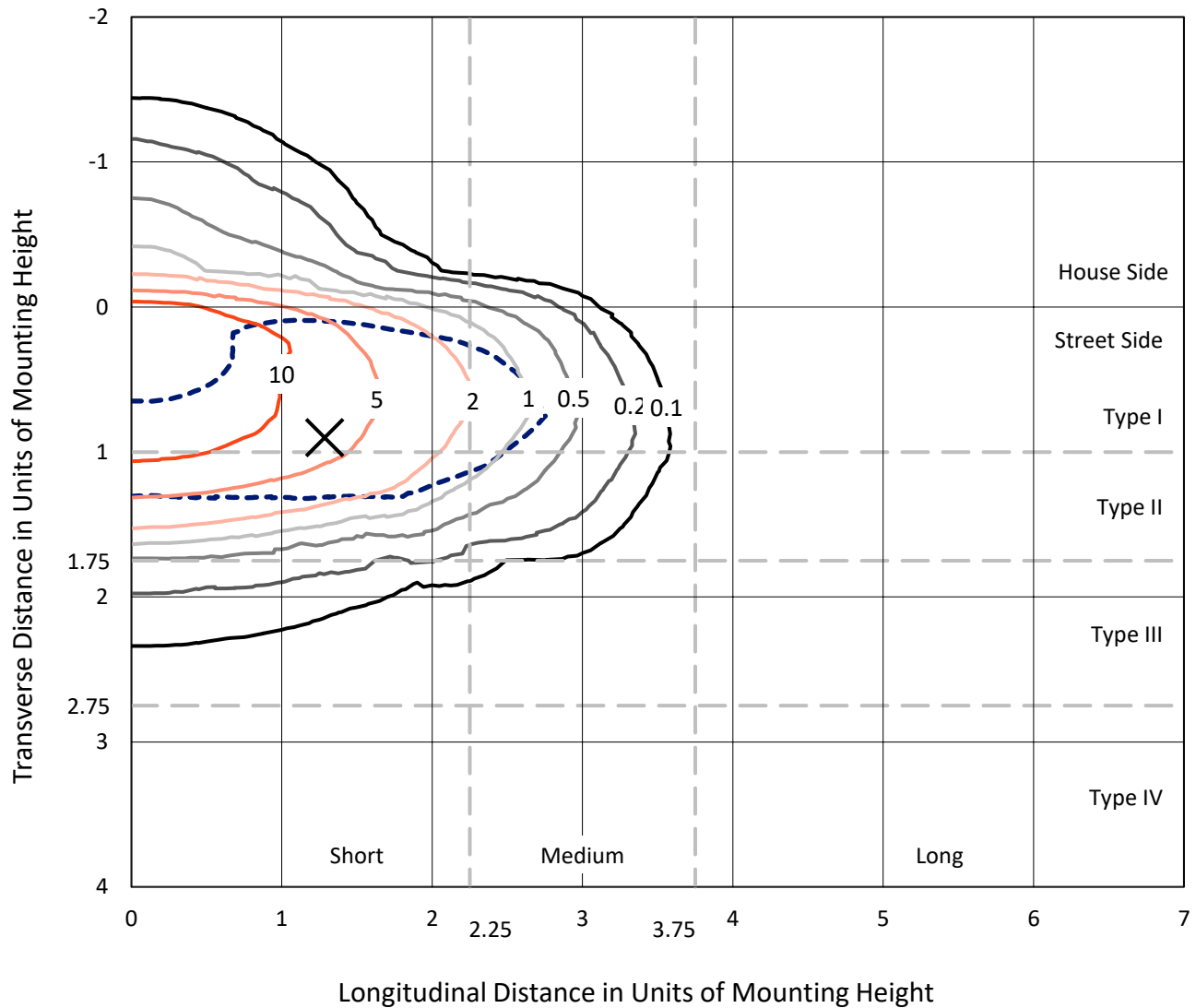
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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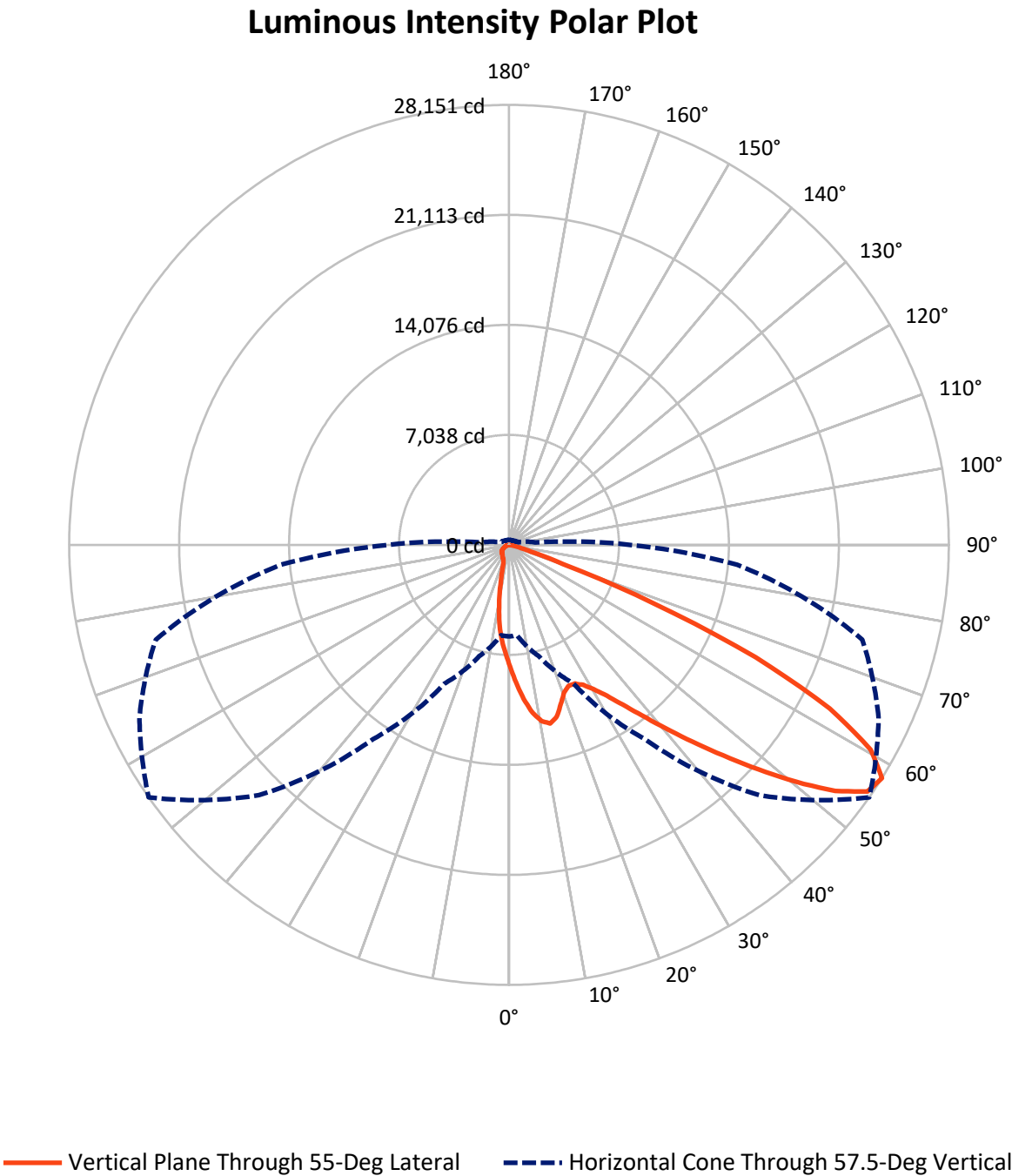
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
Type II - Short - N/A

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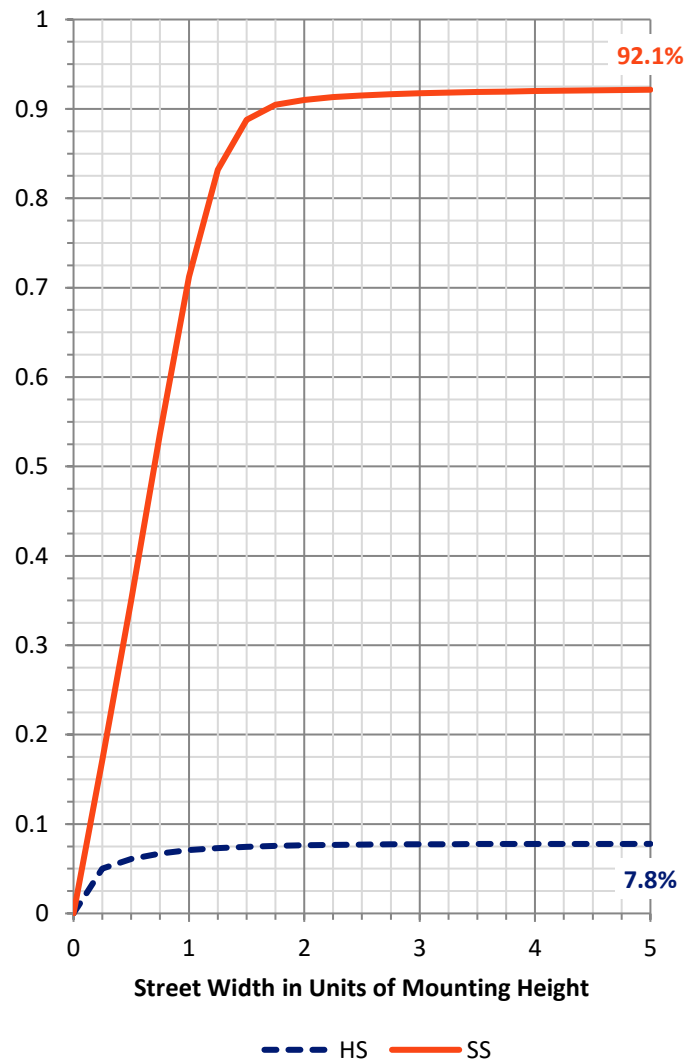
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2518.8	0.0	2518.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	29734.2	0.0	29734.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	32253.0	0.0	32253.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	723.2	2.2
10°-20°	1746.8	5.4
20°-30°	2794.8	8.7
30°-40°	4730.4	14.7
40°-50°	7766.4	24.1
50°-60°	8535.8	26.5
60°-70°	4896.1	15.2
70°-80°	1000.4	3.1
80°-90°	59.0	0.2
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°	32253.0	100.0
0°-180°	32253.0	100.0

Coefficient of Utilization



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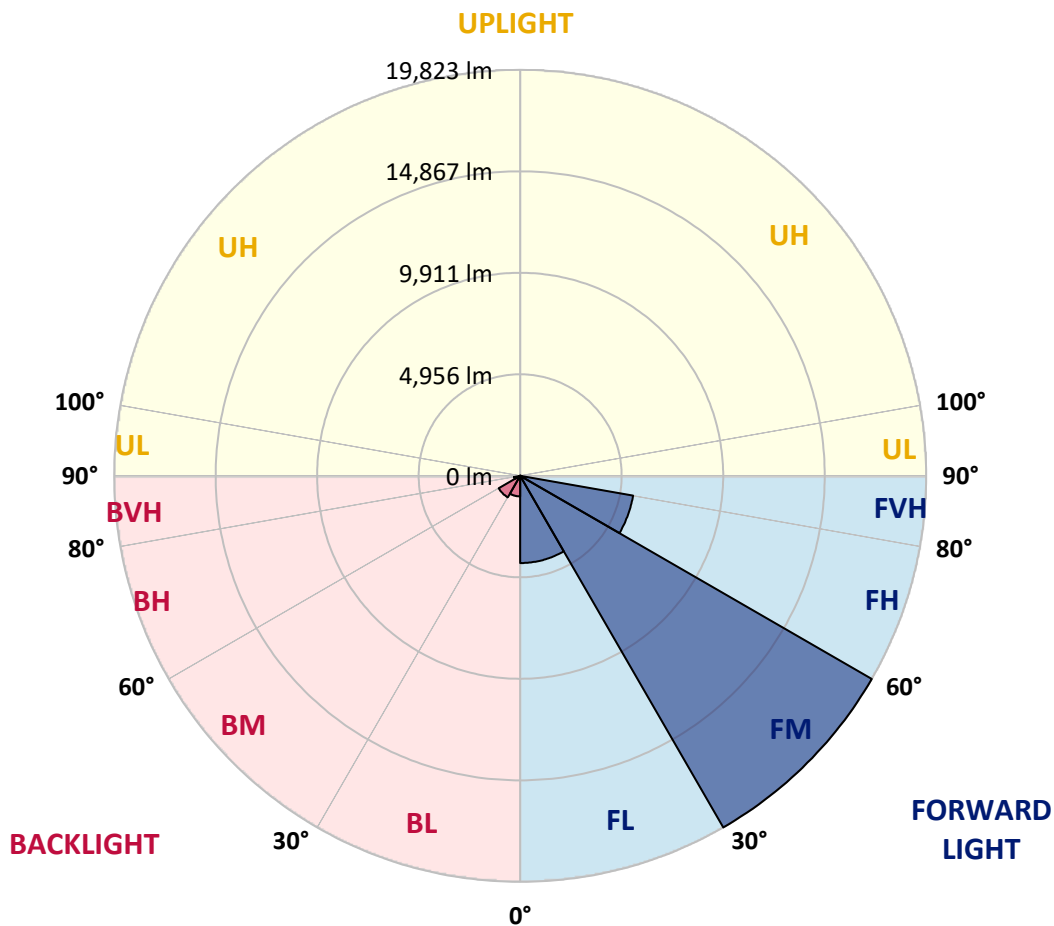
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4259.2	13.2			
FM	(30°-60°)	19822.9	61.5			
FH	(60°-80°)	5597.0	17.4			G3/7500
FVH	(80°-90°)	55.0	0.2			G1/100
BL	(0°-30°)	1005.6	3.1	B3/2500		
BM	(30°-60°)	1209.7	3.8	B2/2500		
BH	(60°-80°)	299.6	0.9	B1/500		G1/500
BVH	(80°-90°)	4.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7772.2	7772.2	7772.2	7772.2	7772.2	7772.2	7772.2	7772.2	7772.2	7772.2	7772.2
2.5°	9643.6	9522.3	9504.4	9480.5	9249.8	9076.8	8826.2	8551.8	8243.5	7929.3	7790.1
5°	11141.2	11045.7	11027.8	10916.4	10653.9	10359.6	9914.1	9351.3	8776.5	8100.3	7810.0
7.5°	11431.5	11413.6	11495.2	11491.2	11455.4	11222.7	10846.8	10176.6	9313.5	8311.1	7861.7
10°	10136.8	10182.6	10425.2	10638.0	11212.8	11546.9	11465.4	10912.5	9866.4	8551.8	7919.3
12.5°	8957.5	8903.8	9076.8	9317.5	9985.7	10980.1	11721.9	11527.0	10498.8	8824.2	8004.9
15°	8217.7	8195.8	8293.2	8404.6	8913.7	9916.1	11423.6	12026.2	11107.4	9146.4	8134.1
17.5°	7981.0	7963.1	7992.9	8020.8	8350.9	9126.5	10713.6	12332.5	11690.1	9514.4	8277.3
20°	8173.9	8150.0	8146.1	8124.2	8261.4	8790.4	10071.2	12354.3	12213.1	9848.5	8400.6
22.5°	8736.7	8708.9	8611.4	8523.9	8535.9	8836.2	9784.8	12135.6	12606.9	10160.7	8478.2
25°	9757.0	9711.2	9508.4	9214.0	9027.1	9154.4	9828.6	11847.2	12982.8	10405.3	8440.4
27.5°	11033.8	10974.1	10713.6	10276.1	9848.5	9693.3	10144.8	11648.3	13295.0	10592.3	8358.9
30°	12284.7	12207.2	11950.6	11610.5	10986.1	10496.8	10715.6	11735.8	13666.9	10787.2	8251.5
32.5°	13635.1	13561.5	13221.5	12799.8	12282.7	11624.5	11497.2	12163.4	14122.4	11059.6	8175.9
35°	15343.5	15228.1	14744.9	14170.1	13621.2	12955.0	12555.2	12901.3	14729.0	11475.3	8217.7
37.5°	17288.5	17133.4	16612.3	15818.8	15102.8	14357.1	13843.9	13915.5	15617.9	12032.2	8346.9
40°	19122.2	18981.0	18499.7	17751.9	16853.0	15948.1	15401.2	15242.1	16845.0	12710.3	8573.7
42.5°	20222.0	20094.7	19891.8	19575.6	18817.9	17895.1	17205.0	16860.9	18296.8	13521.8	8850.1
45°	20283.6	20172.3	20444.7	20812.7	20663.5	20049.0	19207.7	18577.3	19754.6	14283.5	9136.5
47.5°	19297.2	19221.6	20049.0	21333.7	21974.1	22232.6	21457.0	20150.4	20957.8	14830.4	9253.8
50°	16608.4	16580.5	18282.9	20641.6	22473.3	24145.9	23829.6	21614.1	21890.6	15112.8	9142.5
52.5°	14400.8	14299.4	15291.8	18426.1	21747.4	25152.2	26148.6	23050.0	22542.9	15166.5	8881.9
55°	10922.4	10832.9	12077.9	14719.0	19406.6	24794.2	27845.0	24531.7	23010.3	15029.3	8414.6
57.5°	5859.0	5803.3	7376.4	9796.8	15170.5	22646.3	28151.3	26098.8	23404.0	14665.3	7760.2
60°	2281.1	2271.2	2859.9	4753.2	9220.0	18424.1	26606.0	27039.5	23650.7	14217.8	7213.3
62.5°	1380.2	1410.0	1505.5	2134.0	4073.0	11445.5	23044.1	25969.6	23815.7	13808.1	6761.9
65°	1141.6	1143.6	1155.5	1465.7	1951.0	4789.0	17348.2	22449.4	23408.0	13078.3	6121.5
67.5°	978.5	996.4	1042.1	1163.4	1376.2	2100.2	9987.7	17390.0	20928.0	11379.8	5123.1
70°	771.6	795.5	853.2	956.6	1062.0	1314.6	3691.2	11570.8	15987.9	8577.6	3874.2
72.5°	650.3	648.3	678.2	777.6	843.2	924.8	1420.0	6483.4	9291.6	4094.9	1917.2
75°	503.2	523.1	560.8	650.3	690.1	670.2	769.7	2368.6	3329.2	1241.0	652.3
77.5°	393.8	409.7	443.5	531.0	570.8	475.3	443.5	847.2	1070.0	445.5	294.3
80°	177.0	190.9	302.3	391.8	465.4	328.1	240.6	433.6	475.3	202.9	149.2
82.5°	31.8	53.7	177.0	206.8	238.7	212.8	125.3	224.7	232.7	81.5	51.7
85°	2.0	4.0	61.7	75.6	95.5	69.6	37.8	89.5	77.6	27.8	19.9
87.5°	0.0	0.0	0.0	2.0	2.0	9.9	11.9	15.9	11.9	9.9	8.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7772.2	7772.2	7772.2	7772.2	7772.2	7772.2	7772.2	7772.2	7772.2	7772.2
2.5°	7646.9	7364.5	7090.0	6865.3	6734.0	6511.3	6364.1	6340.3	6278.6	6332.3
5°	7499.7	6994.6	6483.4	6026.0	5650.1	5164.9	4802.9	4649.8	4516.5	4562.3
7.5°	7430.1	6632.6	5837.1	5055.5	4252.0	3476.4	2899.7	2659.0	2476.0	2501.9
10°	7336.6	6256.7	5009.8	3816.5	2740.5	1974.9	1577.1	1429.9	1348.4	1350.4
12.5°	7265.0	5807.3	4049.2	2587.4	1668.6	1260.9	1137.6	1101.8	1077.9	1079.9
15°	7229.2	5278.2	3100.5	1724.3	1193.3	1068.0	1038.1	1022.2	1006.3	1004.3
17.5°	7169.6	4689.6	2269.2	1258.9	1044.1	1000.4	974.5	956.6	936.7	932.7
20°	7080.1	4021.3	1658.6	1064.0	978.5	944.7	908.9	885.0	861.1	857.2
22.5°	6915.0	3315.3	1274.8	984.4	930.8	893.0	849.2	821.4	797.5	793.5
25°	6608.7	2653.0	1073.9	934.7	889.0	843.2	795.5	757.7	735.9	731.9
27.5°	6220.9	2084.2	974.5	889.0	835.3	793.5	739.8	704.0	684.1	680.2
30°	5763.5	1605.0	916.8	837.3	771.6	735.9	688.1	658.3	646.4	646.4
32.5°	5270.3	1282.8	893.0	785.6	716.0	676.2	638.4	626.5	622.5	620.5
35°	4806.9	1113.7	881.0	743.8	666.2	628.5	612.5	614.5	622.5	622.5
37.5°	4395.2	1060.0	875.1	714.0	622.5	588.7	598.6	616.5	608.6	608.6
40°	4023.3	1066.0	871.1	692.1	586.7	566.8	586.7	572.8	552.9	550.9
42.5°	3738.9	1115.7	863.1	674.2	564.8	550.9	542.9	521.1	519.1	523.1
45°	3532.1	1159.5	861.1	666.2	540.9	515.1	505.2	483.3	523.1	533.0
47.5°	3287.5	1159.5	861.1	638.4	501.2	491.2	475.3	451.5	491.2	501.2
50°	2971.2	1085.9	827.3	606.6	469.4	463.4	435.5	405.7	397.8	403.7
52.5°	2571.5	952.6	741.8	562.8	437.5	425.6	391.8	369.9	363.9	363.9
55°	2116.1	797.5	626.5	499.2	403.7	381.8	358.0	348.0	342.1	338.1
57.5°	1720.3	654.3	503.2	443.5	371.9	344.1	336.1	324.2	314.2	308.3
60°	1412.0	515.1	415.7	393.8	340.1	314.2	312.2	296.3	270.5	266.5
62.5°	1089.9	377.9	350.0	342.1	308.3	286.4	282.4	250.6	210.8	202.9
65°	769.7	294.3	282.4	300.3	274.5	254.6	244.6	196.9	155.1	149.2
67.5°	540.9	246.6	222.7	262.5	238.7	212.8	206.8	167.1	129.3	125.3
70°	385.8	200.9	183.0	224.7	190.9	186.9	175.0	139.2	105.4	101.4
72.5°	272.5	153.1	141.2	194.9	131.3	161.1	143.2	107.4	79.6	75.6
75°	200.9	109.4	99.4	113.4	95.5	121.3	101.4	71.6	49.7	47.7
77.5°	147.2	69.6	59.7	55.7	55.7	75.6	55.7	29.8	21.9	19.9
80°	103.4	31.8	27.8	23.9	21.9	17.9	8.0	4.0	2.0	2.0
82.5°	61.7	13.9	13.9	9.9	6.0	0.0	0.0	0.0	0.0	0.0
85°	13.9	6.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	2.0	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

(END OF REPORT)