

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: P949857

Luminaire Tested: **GALN-SB4C-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4C-727-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27209 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 200.7
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



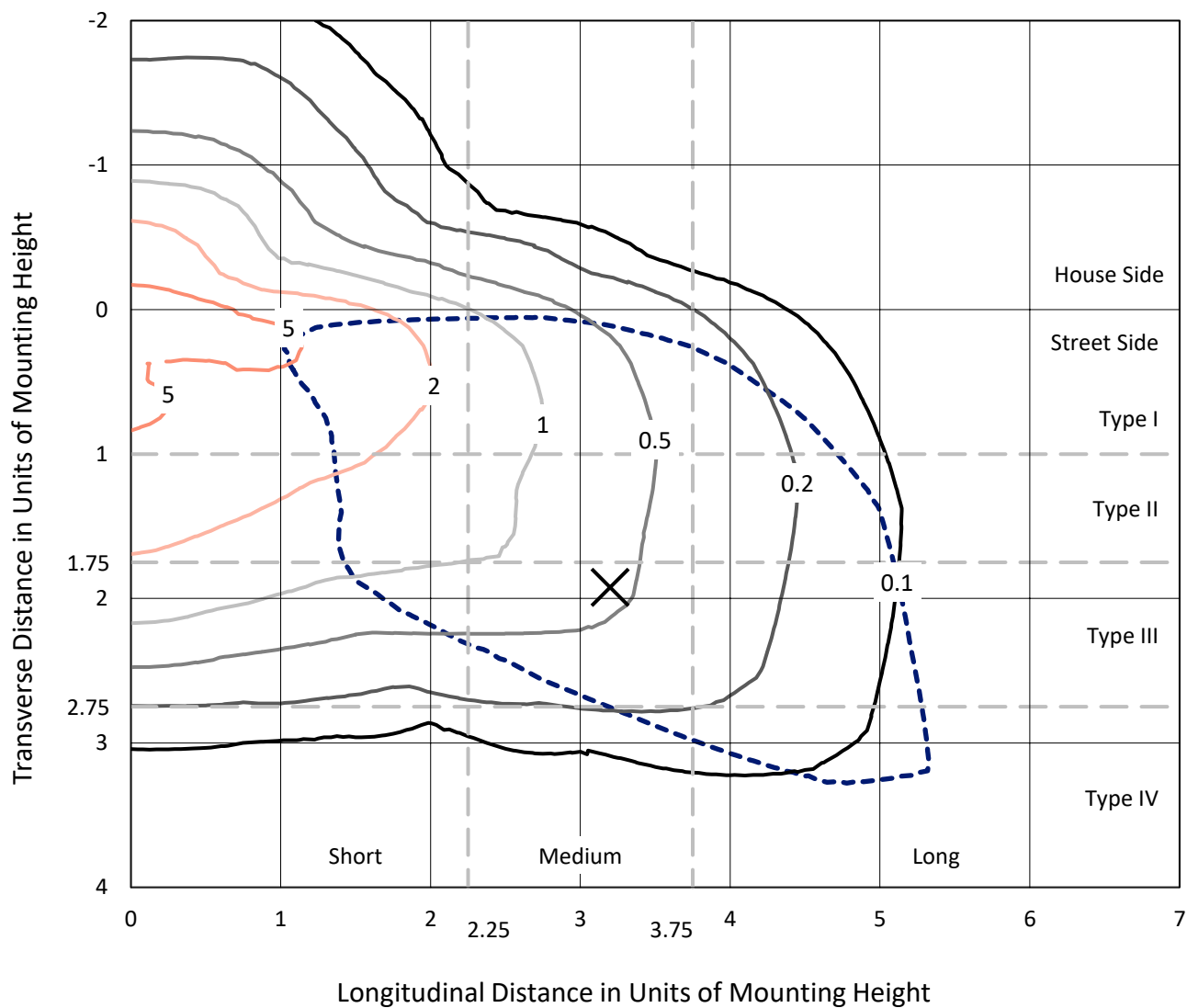
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

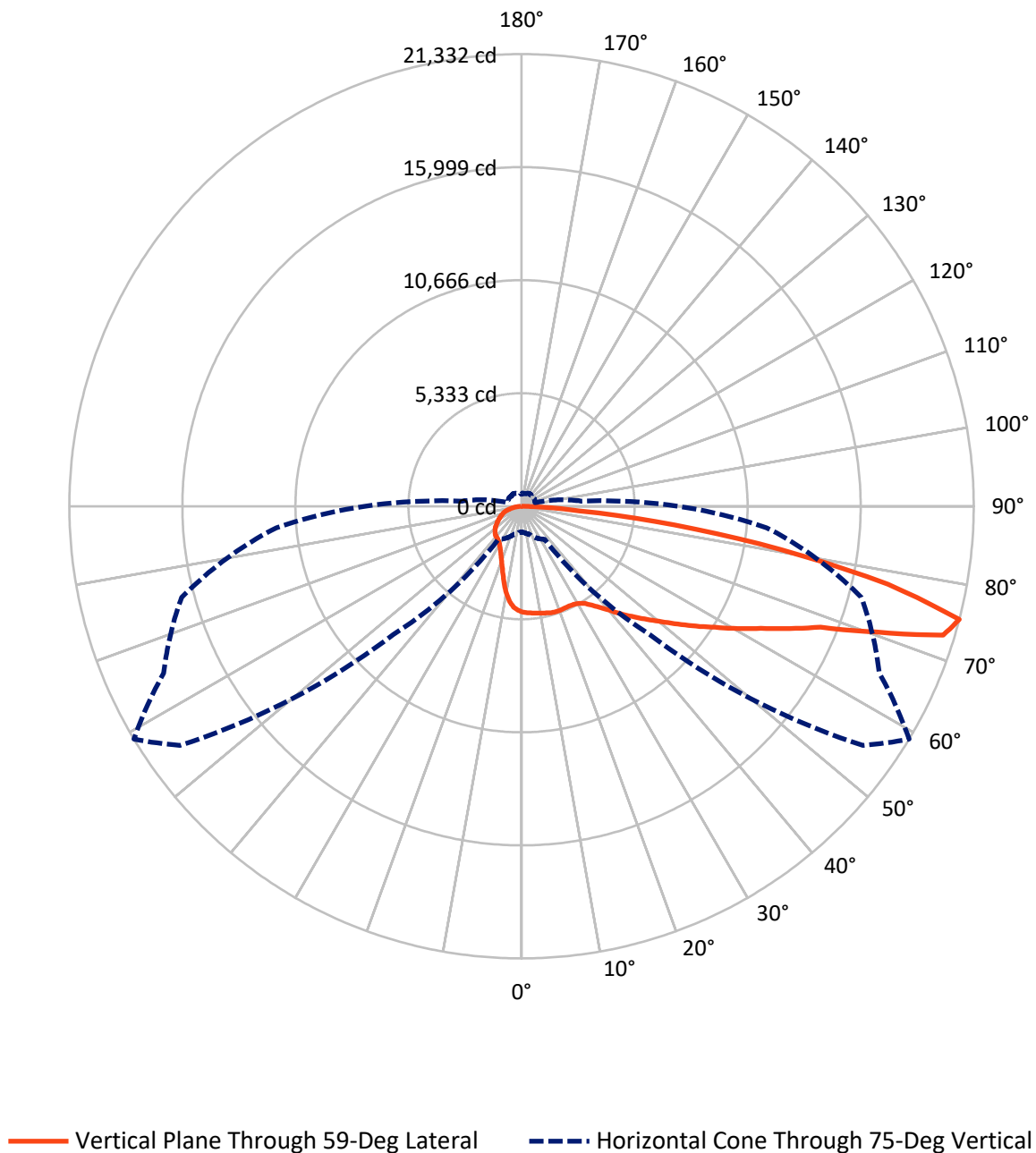


Based on 25 foot mounting height. Maximum calculated value = 8 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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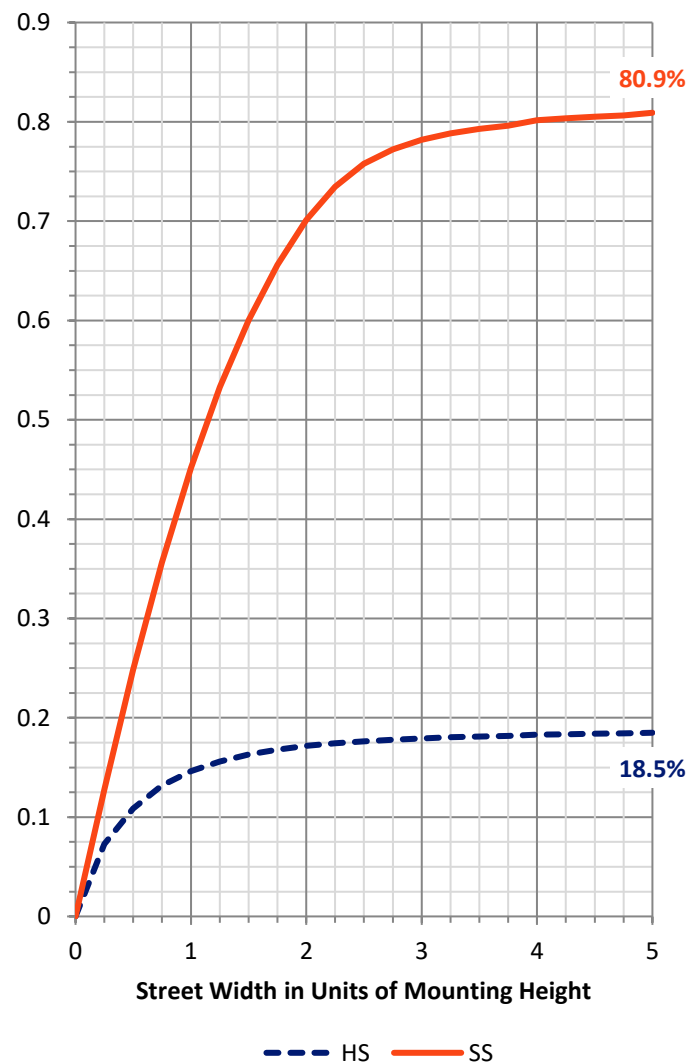
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5103.2	0.0	5103.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	22105.8	0.0	22105.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	27209.0	0.0	27209.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.8	1.6
10°-20°	1144.6	4.2
20°-30°	1738.6	6.4
30°-40°	2584.4	9.5
40°-50°	3843.4	14.1
50°-60°	5217.0	19.2
60°-70°	6369.1	23.4
70°-80°	4998.4	18.4
80°-90°	865.8	3.2
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°	27209.0	100.0
0°-180°	27209.0	100.0

Coefficient of Utilization



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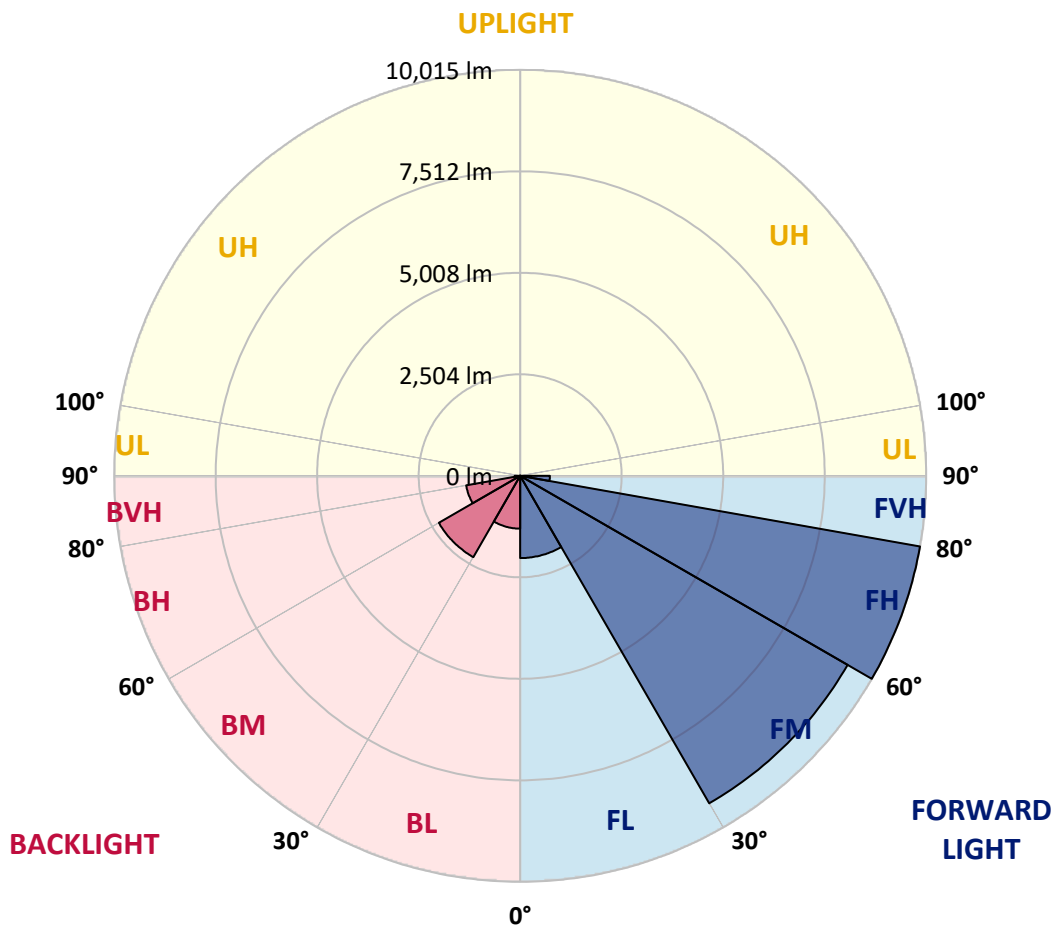
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2028.7	7.5			
FM	(30°-60°)	9328.4	34.3			
FH	(60°-80°)	10015.4	36.8			G4/12000
FVH	(80°-90°)	733.3	2.7			G4/750
BL	(0°-30°)	1302.3	4.8	B3/2500		
BM	(30°-60°)	2316.4	8.5	B2/2500		
BH	(60°-80°)	1352.0	5.0	B3/2500		G3/2500
BVH	(80°-90°)	132.5	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4994.2	4994.2	4994.2	4994.2	4994.2	4994.2	4994.2	4994.2	4994.2	4994.2	4994.2
2.5°	5036.6	5019.0	5036.6	5029.3	5026.4	5020.5	5022.0	5032.2	5026.4	5033.7	5008.8
5°	5002.9	4992.7	5010.3	5005.9	5024.9	5027.8	5046.8	5058.6	5065.9	5067.3	5048.3
7.5°	4947.3	4937.1	4961.9	4982.4	5023.4	5035.1	5074.7	5093.7	5103.9	5121.5	5093.7
10°	4743.9	4739.5	4800.9	4878.5	4975.1	5035.1	5095.1	5127.3	5143.4	5190.3	5158.1
12.5°	4383.8	4389.6	4470.1	4619.4	4812.7	5005.9	5118.6	5165.4	5190.3	5248.8	5234.2
15°	4039.8	4038.4	4126.2	4285.7	4556.5	4877.1	5130.3	5210.8	5253.2	5339.6	5327.9
17.5°	3840.8	3834.9	3896.4	4017.9	4269.6	4679.5	5101.0	5235.7	5326.4	5434.7	5424.5
20°	3804.2	3792.5	3824.7	3884.7	4063.2	4462.8	5024.9	5235.7	5385.0	5525.5	5519.6
22.5°	3937.4	3918.3	3905.2	3897.8	3976.9	4284.3	4938.5	5218.1	5471.3	5655.7	5645.5
25°	4205.2	4175.9	4108.6	4042.7	4019.3	4203.8	4862.4	5213.7	5600.1	5831.4	5793.3
27.5°	4638.5	4601.9	4465.8	4307.7	4165.7	4244.7	4828.8	5240.1	5742.1	6017.3	5941.2
30°	5175.7	5136.1	4964.9	4721.9	4467.2	4397.0	4871.2	5317.6	5923.6	6264.6	6115.3
32.5°	5657.2	5613.3	5466.9	5219.6	4875.6	4660.4	5005.9	5465.5	6209.0	6608.6	6377.3
35°	6084.6	6033.4	5901.6	5673.3	5376.2	5030.7	5248.8	5727.5	6614.5	7167.7	6733.0
37.5°	6503.2	6443.2	6299.8	6058.3	5850.4	5524.0	5584.0	6064.1	7153.1	7846.9	7204.3
40°	6971.6	6885.3	6711.1	6472.5	6270.5	6102.2	6024.6	6476.9	7700.5	8605.1	7792.7
42.5°	7425.4	7343.4	7135.5	6932.1	6678.9	6630.6	6535.4	6959.9	8299.2	9438.0	8389.9
45°	7914.2	7816.2	7564.4	7306.8	7147.3	6981.9	7030.2	7442.9	8886.1	10286.9	9016.4
47.5°	8372.4	8262.6	7965.5	7678.6	7590.8	7277.5	7483.9	7974.2	9496.5	11147.6	9637.0
50°	8619.7	8511.4	8264.1	8005.0	7936.2	7642.0	7975.7	8558.3	10136.1	12005.3	10232.7
52.5°	8826.1	8709.0	8385.5	8242.1	8221.6	8038.7	8581.7	9225.7	10775.8	12763.5	10808.0
55°	9045.7	8915.4	8502.6	8373.8	8467.5	8483.6	9300.4	9982.4	11452.0	13502.7	11351.0
57.5°	9298.9	9133.5	8615.4	8485.1	8707.6	9004.7	10125.9	10767.0	12116.5	14187.7	11834.0
60°	9537.5	9370.6	8832.0	8662.2	8966.6	9609.2	11072.9	11716.9	12868.9	14798.0	12290.7
62.5°	9584.3	9446.7	9004.7	9003.2	9317.9	10314.7	12194.1	12675.7	13526.1	15401.1	12700.5
65°	8773.4	8687.1	8425.1	8990.1	9821.4	11330.5	13442.6	13902.2	14361.8	15928.0	13060.6
67.5°	6677.4	6689.1	6670.1	7760.5	9414.5	12789.8	15250.3	15215.2	15393.8	16519.3	13474.8
70°	3053.3	3122.1	3570.0	5357.1	7542.5	12958.2	18239.2	17784.0	16689.1	17284.9	13833.4
72.5°	1649.6	1702.3	1885.2	2595.1	4534.5	11520.8	20472.8	20796.3	18411.9	17800.1	13439.7
75°	1210.5	1239.8	1367.1	1649.6	1904.3	8562.7	19672.2	21332.0	18627.1	16598.4	11605.7
77.5°	906.0	919.2	1023.1	1307.1	974.8	4514.1	15718.7	17666.9	15945.6	13637.3	8572.9
80°	657.2	671.8	749.4	980.7	683.5	1651.1	10793.3	12400.5	10920.7	8692.9	4272.5
82.5°	453.7	459.6	493.3	667.4	477.2	641.1	6124.1	7271.7	6096.3	3050.4	1153.4
85°	273.7	281.0	295.7	389.3	270.8	304.5	2643.4	2734.2	1822.3	728.9	358.6
87.5°	112.7	120.0	131.7	163.9	106.9	84.9	436.2	547.4	341.0	213.7	111.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4994.2	4994.2	4994.2	4994.2	4994.2	4994.2	4994.2	4994.2	4994.2	4994.2	4994.2
2.5°	5001.5	4991.2	4963.4	4925.4	4890.2	4846.3	4827.3	4811.2	4796.6	4768.7	4755.6
5°	5032.2	5004.4	4929.7	4833.1	4723.4	4603.3	4486.2	4405.7	4336.9	4285.7	4243.3
7.5°	5079.0	5026.4	4890.2	4692.6	4440.9	4183.3	3950.5	3785.1	3660.7	3615.3	3536.3
10°	5127.3	5064.4	4827.3	4478.9	4044.2	3647.5	3338.7	3168.9	3069.4	3037.2	2987.4
12.5°	5184.4	5092.2	4729.2	4181.8	3600.7	3166.0	2896.7	2797.1	2745.9	2728.3	2732.7
15°	5267.9	5115.6	4581.4	3810.0	3177.7	2814.7	2640.5	2571.7	2545.4	2543.9	2549.8
17.5°	5330.8	5120.0	4351.6	3411.9	2852.8	2602.5	2459.0	2432.7	2450.2	2476.6	2486.8
20°	5401.1	5080.5	4050.1	3048.9	2624.4	2416.6	2356.6	2374.1	2416.6	2454.6	2467.8
22.5°	5450.8	5008.8	3685.6	2766.4	2426.8	2309.7	2306.8	2343.4	2366.8	2385.8	2396.1
25°	5494.7	4887.3	3299.2	2529.3	2264.3	2245.3	2277.5	2265.8	2249.7	2265.8	2276.1
27.5°	5526.9	4695.6	2953.8	2321.4	2150.2	2201.4	2182.4	2156.0	2154.6	2163.4	2178.0
30°	5516.7	4439.4	2669.8	2123.8	2069.7	2119.4	2074.1	2069.7	2065.3	2069.7	2085.8
32.5°	5516.7	4148.1	2451.7	1987.7	2018.4	1999.4	1995.0	1984.8	1967.2	1965.8	1984.8
35°	5547.4	3856.9	2264.3	1914.5	1976.0	1930.6	1933.6	1908.7	1872.1	1854.5	1872.1
37.5°	5610.4	3622.7	2078.5	1879.4	1901.3	1899.9	1888.2	1845.7	1781.3	1725.7	1744.7
40°	5762.6	3553.9	1951.1	1863.3	1866.2	1883.8	1853.0	1771.1	1624.7	1534.0	1545.7
42.5°	6001.2	3669.5	1923.3	1823.8	1842.8	1860.4	1800.4	1610.1	1506.1	1452.0	1452.0
45°	6304.2	3871.5	1983.3	1766.7	1787.2	1817.9	1639.3	1548.6	1501.8	1503.2	1510.5
47.5°	6687.7	4083.7	2094.6	1716.9	1706.7	1724.2	1532.5	1476.9	1412.5	1428.6	1469.6
50°	7131.2	4298.9	2199.9	1649.6	1617.4	1560.3	1463.7	1411.0	1329.0	1291.0	1301.2
52.5°	7611.3	4506.7	2242.4	1567.6	1520.8	1454.9	1416.9	1352.5	1252.9	1190.0	1188.5
55°	8066.5	4695.6	2195.6	1469.6	1424.2	1373.0	1367.1	1327.6	1220.7	1132.9	1132.9
57.5°	8496.8	4853.6	2078.5	1370.0	1326.1	1295.4	1334.9	1315.9	1181.2	1068.5	1062.6
60°	8861.3	4961.9	1908.7	1269.0	1238.3	1222.2	1282.2	1276.3	1125.6	999.7	995.3
62.5°	9151.1	5004.4	1721.3	1172.4	1165.1	1135.8	1209.0	1209.0	1055.3	932.4	928.0
65°	9377.9	4963.4	1531.0	1077.3	1091.9	1048.0	1119.7	1110.9	980.7	872.4	866.5
67.5°	9578.5	4828.8	1320.3	983.6	1017.3	961.7	1026.1	1005.6	898.7	812.4	806.5
70°	9667.8	4515.5	1080.2	889.9	930.9	876.8	932.4	894.3	806.5	748.0	736.2
72.5°	8950.5	3752.9	850.4	791.9	827.0	783.1	831.4	787.5	707.0	680.6	658.7
75°	7404.9	2816.2	654.3	685.0	711.4	677.7	709.9	677.7	604.5	623.5	569.4
77.5°	5377.6	1901.3	500.6	572.3	584.0	566.5	594.3	557.7	491.8	487.4	465.5
80°	2674.2	1113.9	392.3	452.3	447.9	436.2	468.4	450.8	395.2	418.6	414.2
82.5°	774.3	477.2	285.4	317.6	308.8	311.8	335.2	344.0	515.2	510.8	522.5
85°	243.0	187.4	171.3	177.1	168.3	172.7	197.6	392.3	363.0	212.2	229.8
87.5°	62.9	64.4	42.4	45.4	46.8	55.6	62.9	238.6	114.2	74.6	79.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)