

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: P943829

Luminaire Tested: **GALN-SB8C-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8C-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55517 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 399.8
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



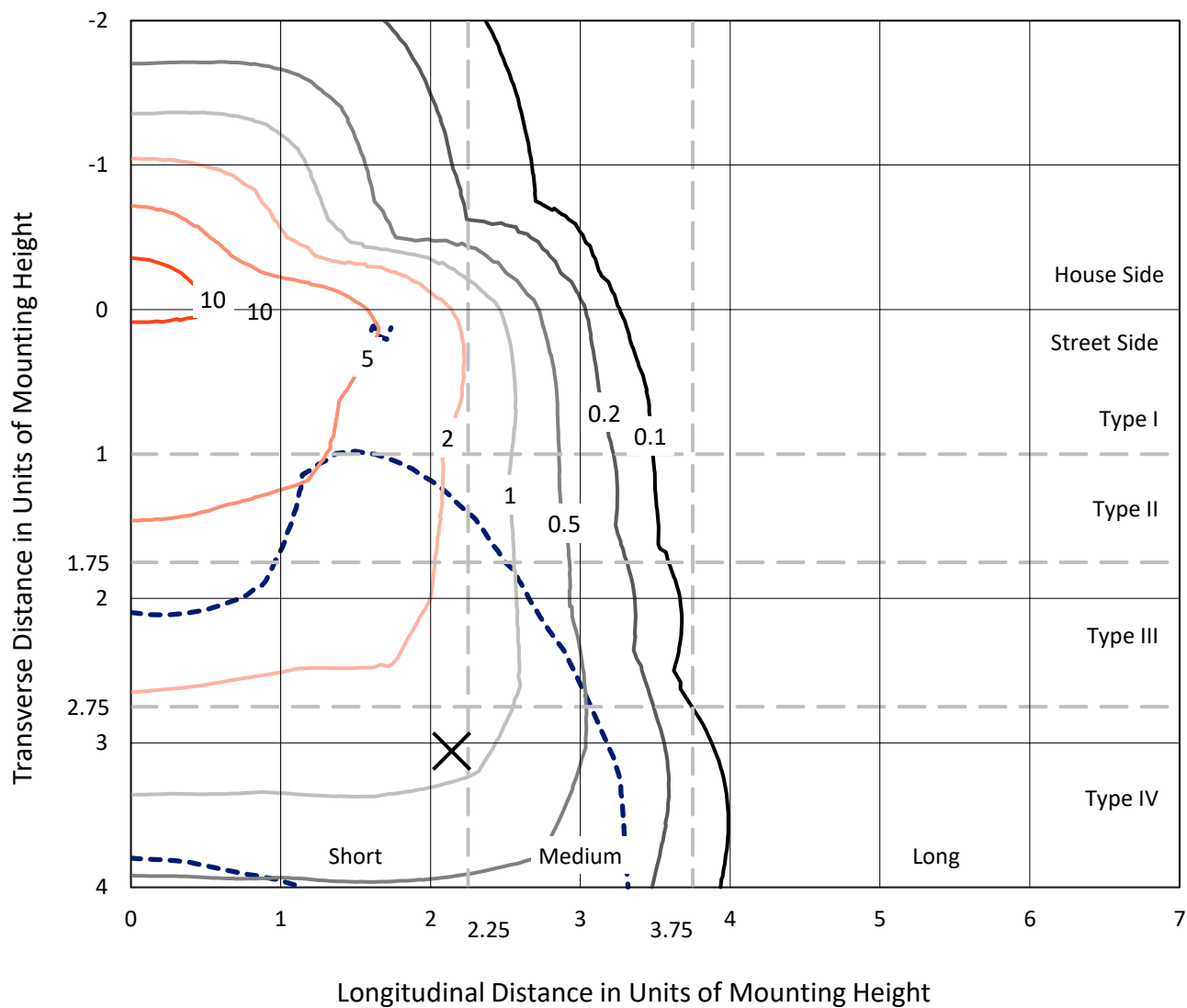
REPORT NUMBER: P943829

CATALOG NUMBER: GALN-SB8C-727-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



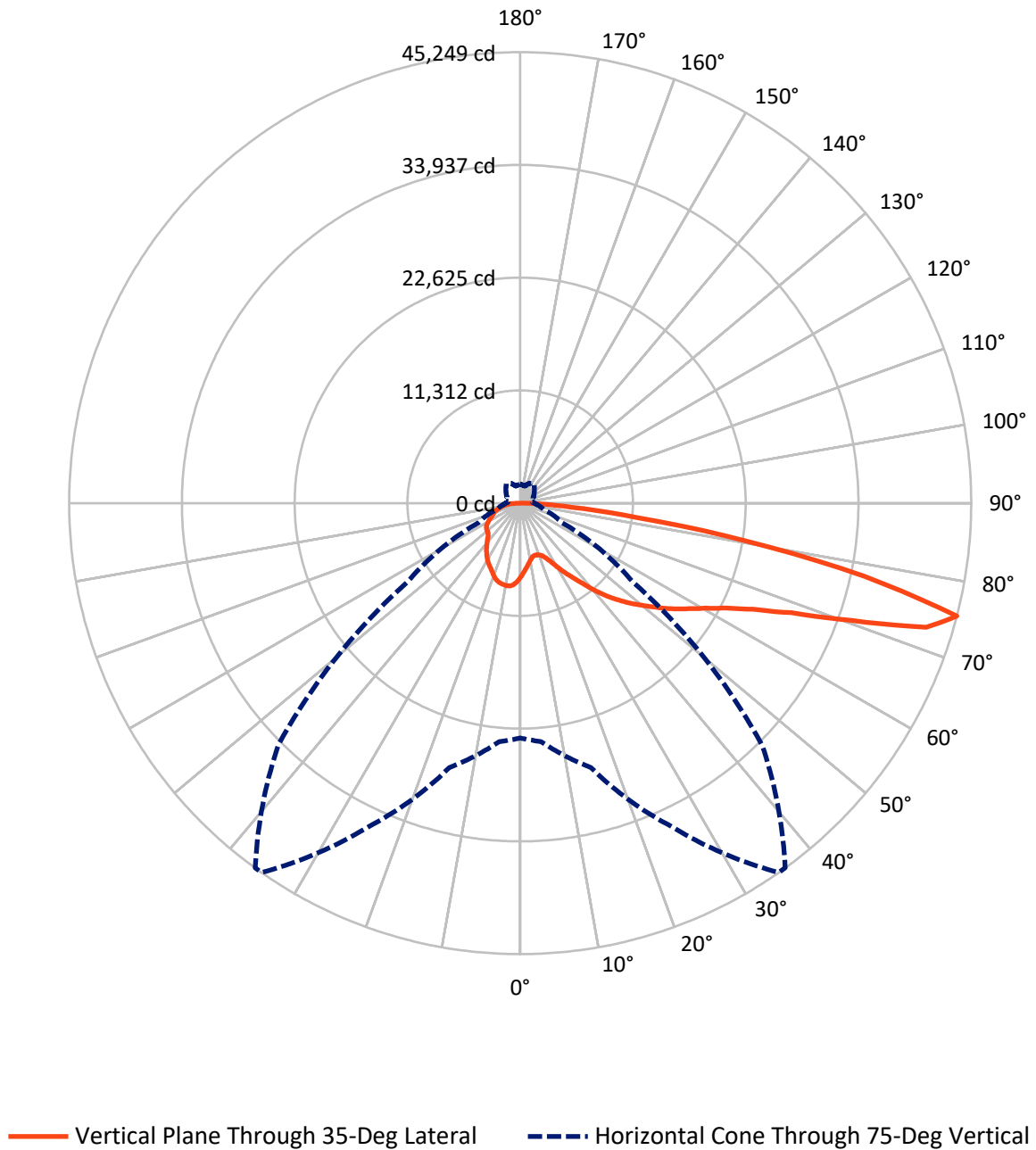
Based on 25 foot mounting height. Maximum calculated value = 13.1 fc

Type IV - Short - N/A

REPORT NUMBER: P943829

CATALOG NUMBER: GALN-SB8C-727-U-T4FT

Luminous Intensity Polar Plot



REPORT NUMBER: P943829

CATALOG NUMBER: GALN-SB8C-727-U-T4FT

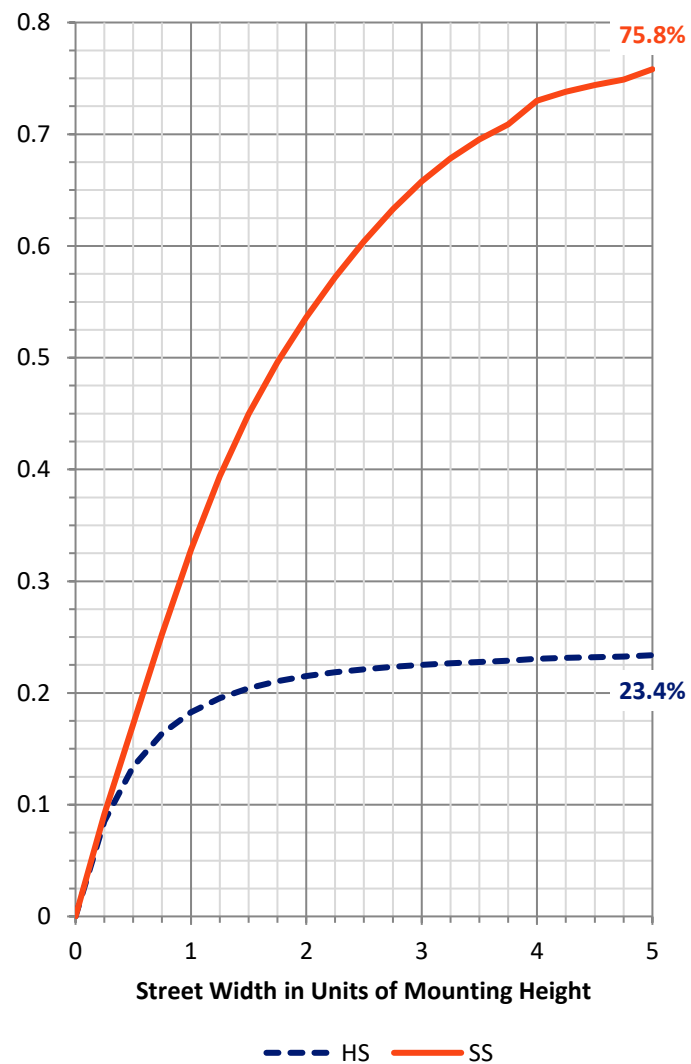
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13211.7	0.0	13211.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	42305.3	0.0	42305.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	55517.0	0.0	55517.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	700.4	1.3
10°-20°	2020.4	3.6
20°-30°	3392.8	6.1
30°-40°	5272.8	9.5
40°-50°	7826.3	14.1
50°-60°	10804.6	19.5
60°-70°	13108.5	23.6
70°-80°	10833.1	19.5
80°-90°	1558.1	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°	55517.0	100.0
0°-180°	55517.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943829

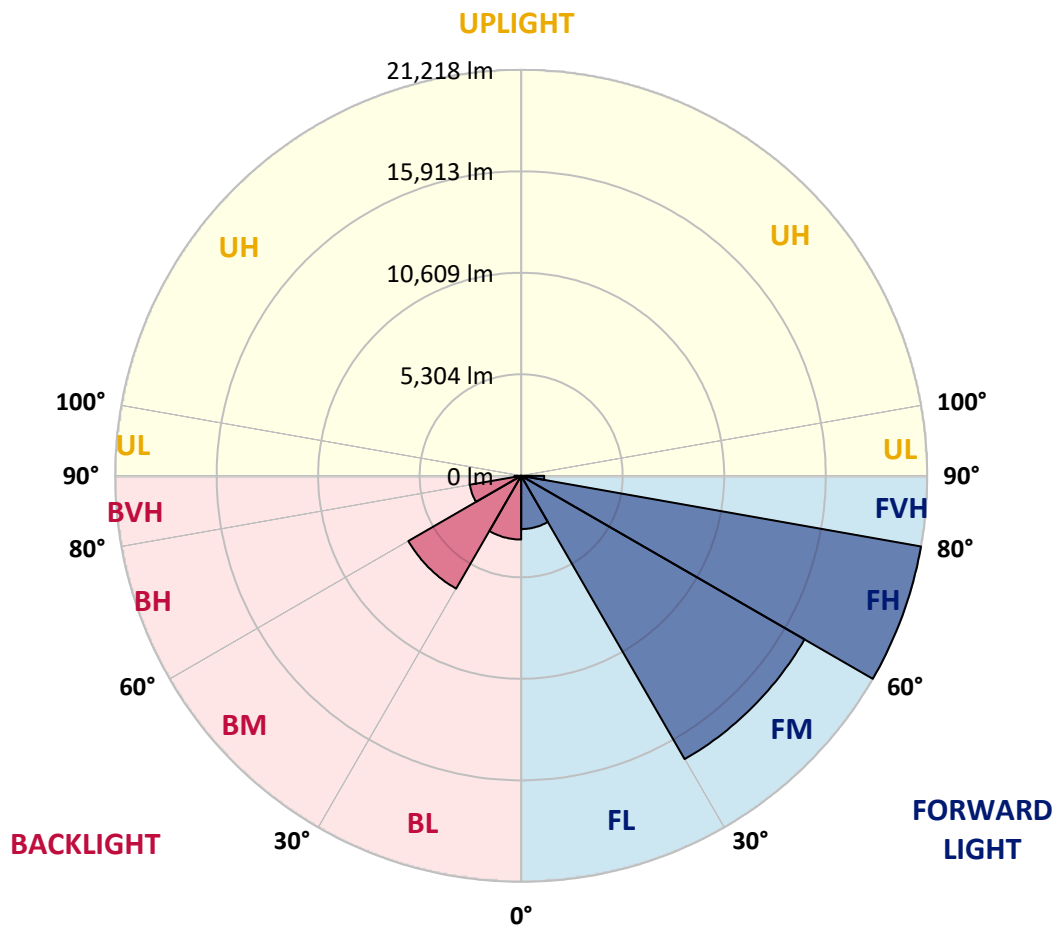
CATALOG NUMBER: GALN-SB8C-727-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2784.1	5.0			
FM	(30°-60°)	17096.2	30.8			
FH	(60°-80°)	21217.8	38.2			G5
FVH	(80°-90°)	1207.3	2.2			G5
BL	(0°-30°)	3329.5	6.0	B4/5000		
BM	(30°-60°)	6807.5	12.3	B4/8500		
BH	(60°-80°)	2723.8	4.9	B4/5000		G4/5000
BVH	(80°-90°)	350.9	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



REPORT NUMBER: P943829

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	7398.0	7398.0	7398.0	7398.0	7398.0	7398.0	7398.0	7398.0	7398.0	7398.0	7398.0
2.5°	6821.8	6863.8	6881.8	6872.8	6917.8	6911.8	6974.8	7052.9	7160.9	7266.0	7419.0
5°	6296.6	6341.6	6380.6	6416.6	6503.7	6530.7	6629.7	6779.8	6977.8	7178.9	7431.0
7.5°	5807.4	5846.4	5906.4	5972.4	6119.5	6146.5	6311.6	6545.7	6821.8	7115.9	7464.0
10°	5408.2	5447.2	5510.2	5585.3	5768.4	5801.4	6011.5	6323.6	6683.7	7055.9	7500.1
12.5°	5237.1	5249.1	5285.2	5360.2	5519.2	5540.3	5771.4	6128.5	6548.7	7010.9	7554.1
15°	5228.1	5252.1	5255.1	5294.2	5426.2	5435.2	5648.3	6002.4	6464.6	7001.9	7635.1
17.5°	5318.2	5336.2	5309.2	5333.2	5444.2	5459.2	5627.3	5942.4	6437.6	7040.9	7773.2
20°	5558.3	5573.3	5492.2	5459.2	5540.3	5552.3	5717.3	5981.4	6464.6	7121.9	7962.2
22.5°	6068.5	6077.5	5879.4	5744.3	5750.3	5756.3	5900.4	6140.5	6569.7	7269.0	8202.3
25°	6863.8	6857.8	6542.7	6281.6	6131.5	6098.5	6194.5	6398.6	6746.8	7464.0	8511.5
27.5°	7794.2	7749.2	7434.0	7043.9	6716.7	6668.7	6647.7	6734.7	6998.9	7722.1	8889.6
30°	8844.6	8802.6	8463.5	7953.2	7500.1	7422.0	7223.9	7178.9	7374.0	8073.3	9414.8
32.5°	9997.1	9970.1	9564.9	8946.6	8340.4	8250.4	7917.2	7797.2	7950.2	8604.5	10147.1
35°	10963.5	10939.5	10603.3	9967.1	9225.8	9114.7	8775.6	8640.5	8718.6	9285.8	11104.5
37.5°	11836.8	11824.8	11536.7	11035.5	10270.2	10135.1	9754.0	9709.0	9694.0	10183.2	12266.0
40°	12647.2	12617.1	12317.0	12052.9	11485.7	11362.6	11026.5	10987.5	10873.4	11287.6	13580.5
42.5°	13544.5	13466.5	13031.3	12908.3	12755.2	12653.2	12452.1	12458.1	12206.0	12533.1	14973.1
45°	14276.8	14231.8	13784.6	13712.6	13877.7	13835.6	14009.7	14054.7	13565.5	13838.6	16419.7
47.5°	15063.1	15021.1	14643.0	14591.9	15039.1	15051.1	15666.4	15681.4	14892.1	15195.2	17869.3
50°	16032.5	15972.5	15597.4	15660.4	16161.6	16206.6	17332.1	17230.0	16113.6	16572.8	19306.9
52.5°	16671.8	16707.8	16626.8	16728.8	17413.1	17455.1	18970.7	18709.6	17323.1	17932.3	20717.4
55°	17143.0	17215.0	17467.1	17701.2	18733.6	18775.7	20516.4	20117.2	18325.5	19192.8	22044.0
57.5°	17749.2	17647.2	18118.4	18574.6	19988.1	20099.2	22020.0	21473.8	19213.8	20279.3	22953.4
60°	18619.6	18547.6	18913.7	19589.0	21392.7	21569.8	23610.6	22695.3	19865.1	21140.6	23130.4
62.5°	20384.3	20204.2	20261.3	20858.5	23163.4	23397.5	25405.4	23760.7	20189.2	21476.8	22182.0
65°	23022.4	22713.3	22425.1	22839.3	25657.5	25888.6	27431.2	24598.0	20069.2	20825.5	19664.0
67.5°	26344.7	26038.6	25684.5	26074.6	29331.0	29514.0	29931.2	25069.2	19123.8	18316.5	15213.2
70°	29084.9	28970.8	29394.0	30999.6	35198.3	35204.4	33136.5	24679.1	16533.7	12986.3	8802.6
72.5°	28721.7	28652.7	30882.6	35846.6	42593.4	42434.3	36170.7	21725.9	11137.5	5858.4	3298.3
75°	23562.6	24009.8	27464.2	35759.6	45249.4	45228.4	34313.0	13811.6	4606.9	2428.0	1704.7
77.5°	12635.2	13343.4	17830.3	26401.8	35324.4	35855.6	24123.8	4832.0	1977.8	1554.6	1179.5
80°	4120.7	4738.9	7106.9	13442.5	22953.4	22854.3	10339.2	1896.8	1353.6	1101.4	816.3
82.5°	1749.7	1821.7	3175.3	6347.6	11779.8	11596.7	3292.3	1089.4	951.4	753.3	504.2
85°	684.3	765.3	1401.6	2935.2	5102.1	4991.0	1188.5	540.2	609.2	492.2	300.1
87.5°	225.1	273.1	501.2	1005.4	1587.6	1530.6	291.1	186.1	264.1	225.1	108.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943829

CATALOG NUMBER: GALN-SB8C-727-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7398.0	7398.0	7398.0	7398.0	7398.0	7398.0	7398.0	7398.0	7398.0	7398.0	7398.0
2.5°	7461.0	7509.1	7566.1	7650.1	7722.1	7782.2	7845.2	7884.2	7899.2	7944.2	7941.2
5°	7515.1	7620.1	7761.2	7899.2	8034.3	8115.3	8187.3	8223.4	8256.4	8280.4	8286.4
7.5°	7605.1	7740.2	7962.2	8142.3	8256.4	8322.4	8370.4	8358.4	8370.4	8376.4	8385.4
10°	7683.1	7872.2	8136.3	8307.4	8394.4	8397.4	8385.4	8343.4	8322.4	8325.4	8331.4
12.5°	7776.2	7986.3	8271.4	8415.4	8439.4	8373.4	8322.4	8250.4	8223.4	8211.3	8205.3
15°	7902.2	8142.3	8418.4	8472.5	8412.4	8328.4	8241.4	8124.3	8064.3	8016.3	8031.3
17.5°	8055.3	8319.4	8532.5	8493.5	8364.4	8226.4	8085.3	7908.2	7785.2	7734.2	7737.2
20°	8268.4	8505.5	8619.5	8448.4	8253.4	8043.3	7803.2	7587.1	7473.0	7422.0	7416.0
22.5°	8526.5	8754.6	8703.5	8370.4	8094.3	7758.2	7458.0	7299.0	7242.0	7205.9	7211.9
25°	8835.6	9030.7	8763.6	8256.4	7833.2	7380.0	7148.9	7097.9	7070.9	7043.9	7043.9
27.5°	9237.8	9342.8	8808.6	8088.3	7425.0	6977.8	6893.8	6902.8	6893.8	6848.8	6857.8
30°	9769.0	9748.0	8850.6	7815.2	6956.8	6614.7	6620.7	6659.7	6665.7	6635.7	6650.7
32.5°	10468.3	10255.2	8871.6	7461.0	6509.7	6296.6	6302.6	6344.6	6374.6	6323.6	6347.6
35°	11314.6	10846.4	8838.6	7016.9	6164.5	5993.4	5948.4	5960.4	5969.4	5921.4	5954.4
37.5°	12302.0	11509.7	8691.5	6524.7	5879.4	5696.3	5600.3	5519.2	5471.2	5426.2	5456.2
40°	13385.5	12233.0	8421.4	6044.5	5561.3	5381.2	5237.1	5084.1	4922.0	4862.0	4889.0
42.5°	14519.9	12977.3	8094.3	5585.3	5195.1	5048.1	4895.0	4672.9	4429.8	4306.8	4321.8
45°	15696.4	13739.6	7773.2	5132.1	4820.0	4756.9	4579.9	4312.8	4048.7	3892.6	3880.6
47.5°	16848.9	14459.9	7302.0	4675.9	4468.8	4537.8	4399.8	4153.7	3859.6	3613.5	3586.5
50°	17950.3	15135.2	6530.7	4213.7	4183.7	4471.8	4339.8	3985.6	3649.5	3334.4	3307.3
52.5°	19042.8	15681.4	5543.3	3793.5	4030.6	4453.8	4261.7	3871.6	3460.4	3130.3	3094.3
55°	19970.1	15963.5	4591.9	3433.4	3808.6	4300.8	4168.7	3736.5	3193.3	2842.2	2812.1
57.5°	20498.4	15735.4	3799.5	3079.3	3502.4	4048.7	4009.6	3448.4	2875.2	2605.1	2569.0
60°	20270.3	14811.0	3151.3	2770.1	3211.3	3775.5	3733.5	3163.3	2632.1	2377.0	2341.0
62.5°	19012.8	13049.3	2638.1	2500.0	2947.2	3496.4	3457.4	2944.2	2446.0	2199.9	2160.9
65°	16479.7	10615.3	2238.9	2274.9	2680.1	3160.3	3217.3	2761.1	2298.9	2058.8	2019.8
67.5°	12569.1	7689.1	1926.8	2079.8	2419.0	2830.2	2995.2	2629.1	2175.9	1947.8	1911.8
70°	7163.9	4366.8	1662.7	1890.8	2187.9	2524.0	2824.2	2524.0	2043.8	1854.8	1830.7
72.5°	2716.1	2004.8	1437.6	1701.7	1965.8	2265.9	2635.1	2359.0	1890.8	1749.7	1725.7
75°	1449.6	1221.5	1209.5	1479.6	1710.7	2013.8	2398.0	2196.9	1776.7	1848.8	1908.8
77.5°	987.4	864.4	1011.4	1266.5	1431.6	1734.7	2145.9	1950.8	1539.6	1533.6	1413.6
80°	684.3	612.2	822.3	1020.4	1107.5	1458.6	1872.8	1674.7	1254.5	1170.5	1119.5
82.5°	411.2	399.2	615.3	762.3	783.3	1125.5	1551.6	1404.6	1026.4	894.4	900.4
85°	225.1	237.1	393.2	447.2	456.2	786.3	1215.5	1086.4	789.3	663.3	669.3
87.5°	63.0	81.0	144.1	177.1	219.1	408.2	723.3	645.3	396.2	276.1	276.1
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)