

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: P954508

Luminaire Tested: **GALN-SB7D-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-727-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68910 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 512.8
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



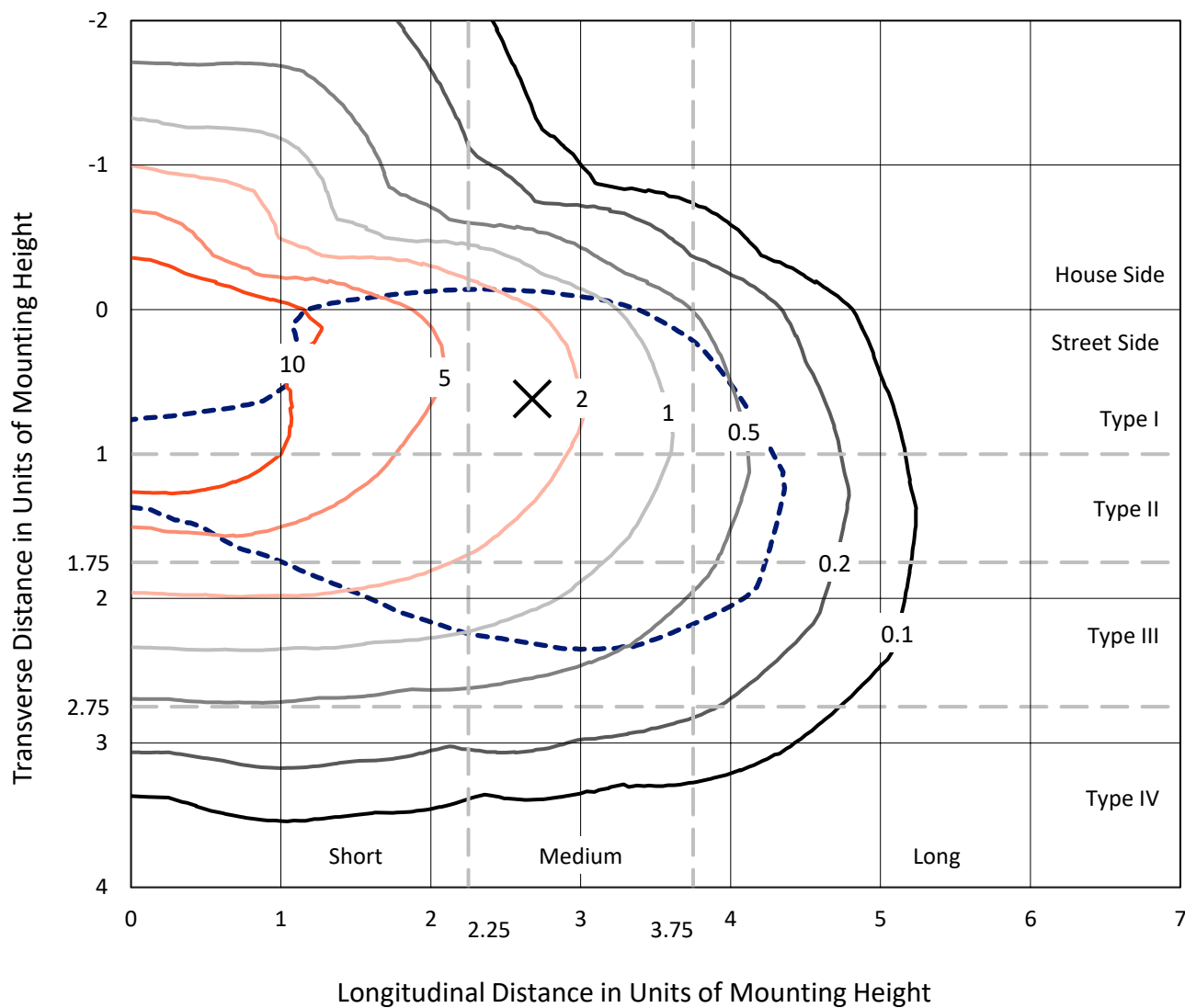
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Iso-Footcandle Lines of Horizontal Illumination

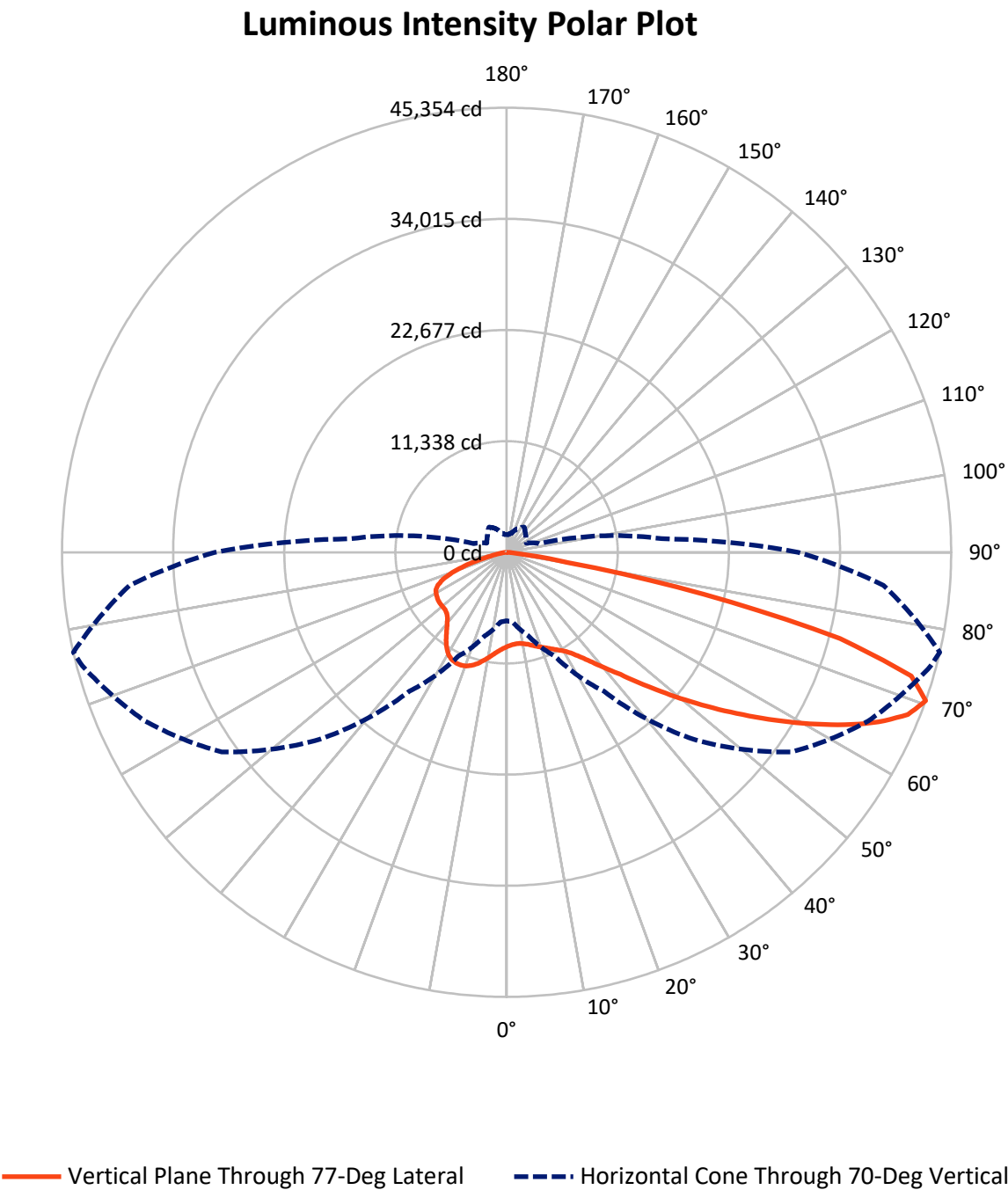
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 fc
Type III - Medium - N/A

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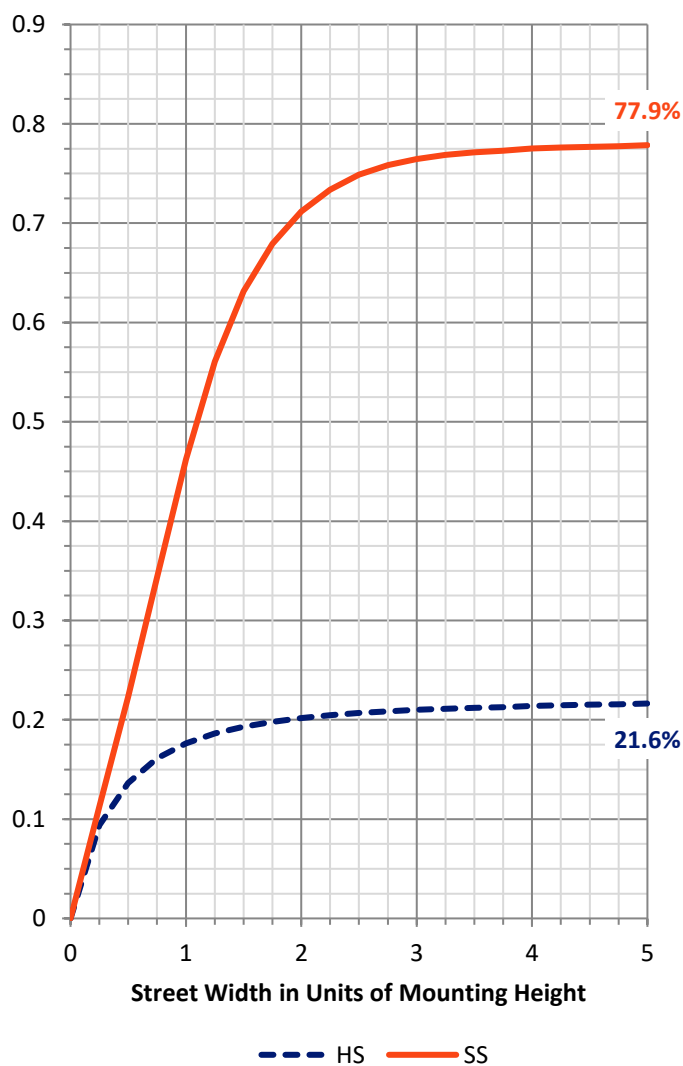
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15090.2	0.0	15090.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	53819.8	0.0	53819.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	68910.0	0.0	68910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	916.9	1.3
10°-20°	2646.2	3.8
20°-30°	4525.4	6.6
30°-40°	7277.2	10.6
40°-50°	11361.7	16.5
50°-60°	15176.5	22.0
60°-70°	16175.8	23.5
70°-80°	9957.7	14.5
80°-90°	872.6	1.3
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°	68910.0	100.0
0°-180°	68910.0	100.0

Coefficient of Utilization



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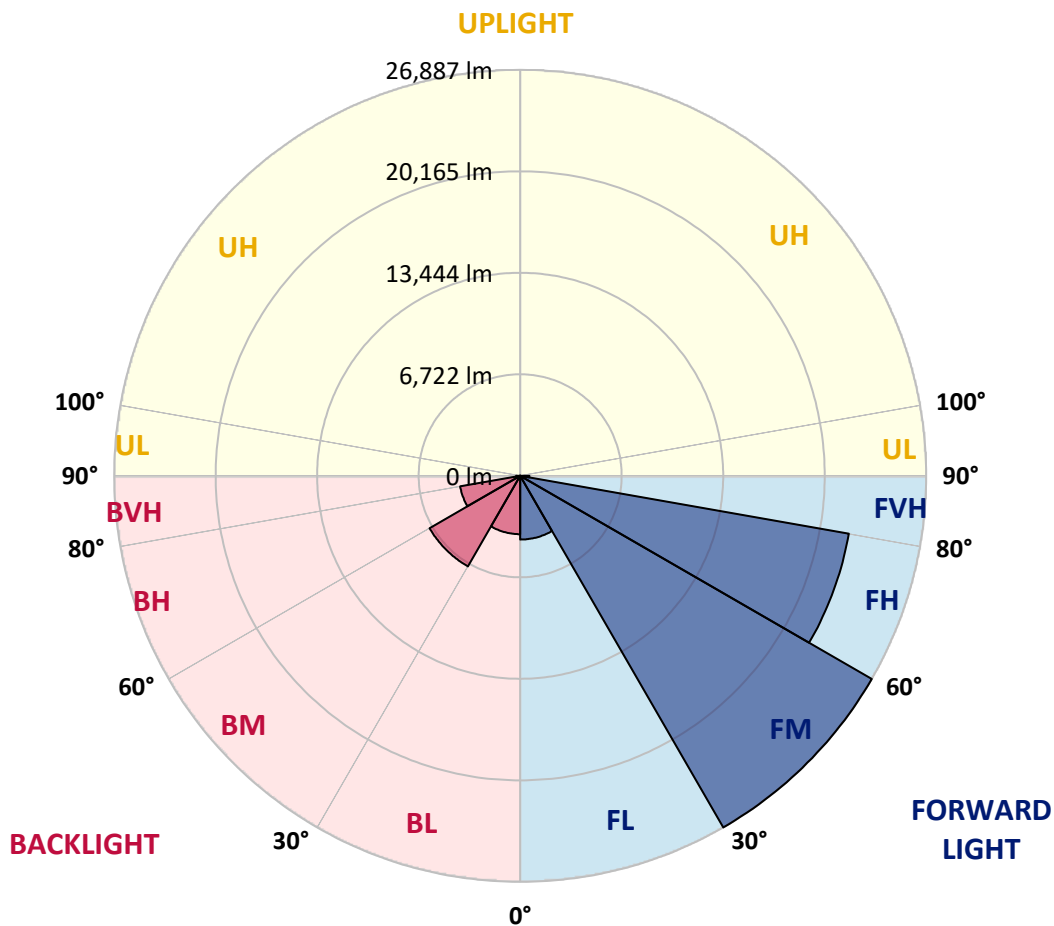
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4221.8	6.1			
FM	(30°-60°)	26887.2	39.0			
FH	(60°-80°)	22100.6	32.1			G5
FVH	(80°-90°)	610.2	0.9			G4/750
BL	(0°-30°)	3866.6	5.6	B4/5000		
BM	(30°-60°)	6928.3	10.1	B4/8500		
BH	(60°-80°)	4033.0	5.9	B4/5000		G4/5000
BVH	(80°-90°)	262.4	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	9613.6	9613.6	9613.6	9613.6	9613.6	9613.6	9613.6	9613.6	9613.6	9613.6	9613.6
2.5°	8861.9	8858.3	8904.2	8918.3	9003.0	9063.0	9176.0	9295.9	9451.2	9468.9	9564.2
5°	8350.1	8350.1	8403.1	8459.5	8568.9	8688.9	8861.9	9070.1	9338.3	9380.6	9617.1
7.5°	7916.0	7944.3	7990.1	8099.5	8226.6	8399.5	8664.2	8960.7	9313.6	9380.6	9761.8
10°	7566.6	7598.4	7654.9	7743.1	7933.7	8173.7	8519.5	8900.7	9373.6	9479.5	9973.6
12.5°	7457.2	7489.0	7520.8	7587.8	7764.3	8046.6	8459.5	8928.9	9518.3	9624.2	10262.9
15°	7711.3	7750.1	7725.4	7707.8	7799.6	8057.2	8487.8	9031.3	9698.3	9850.0	10619.4
17.5°	8297.2	8311.3	8254.8	8089.0	8074.8	8212.5	8621.9	9172.4	9924.1	10090.0	10979.4
20°	9243.0	9218.3	9101.8	8773.6	8586.6	8558.3	8851.3	9384.2	10157.1	10333.5	11367.6
22.5°	10527.6	10499.4	10266.5	9747.7	9331.2	9056.0	9183.0	9659.5	10418.2	10615.9	11745.2
25°	12129.9	12091.1	11748.7	11042.9	10397.1	9715.9	9634.7	10023.0	10739.4	10922.9	12140.5
27.5°	14000.4	13968.6	13598.1	12666.3	11734.6	10619.4	10195.9	10450.0	11074.7	11282.9	12585.2
30°	16012.0	16103.8	15447.4	14445.1	13266.3	11798.2	10951.1	10975.8	11508.8	11695.8	13125.1
32.5°	18376.6	18535.4	17744.9	16474.4	14865.0	13079.3	11904.0	11709.9	12140.5	12295.8	13806.3
35°	20720.0	20900.0	20243.6	18838.9	16986.1	14589.8	12899.3	12553.4	12980.4	13149.8	14709.8
37.5°	22745.8	22985.8	22647.0	21425.8	19255.4	16410.8	14198.0	13545.1	14014.5	14226.3	15923.8
40°	24344.5	24711.5	24686.8	23924.5	21930.5	18620.1	15846.2	14769.8	15299.1	15528.5	17395.5
42.5°	25643.3	25960.9	26236.2	26197.3	24722.1	21129.4	17783.7	16361.4	16763.8	17028.4	19050.7
45°	26539.7	26878.5	27471.4	28110.2	27407.9	23815.1	20003.6	18249.6	18616.6	19015.4	21023.5
47.5°	27340.8	27725.5	28494.9	29507.7	29687.7	26511.4	22435.2	20448.3	20783.5	21196.4	23003.4
50°	27411.4	27743.1	28936.0	30372.4	31307.6	29101.9	25046.8	22915.2	23229.3	23670.4	25124.5
52.5°	25706.8	26229.1	28311.3	30347.7	32052.3	31268.8	27640.8	25480.9	25833.8	26363.2	27319.6
55°	19954.2	20720.0	26479.7	29401.9	31787.6	32669.9	30107.7	28209.0	28660.7	29214.8	29528.9
57.5°	17187.3	17522.5	21020.0	27679.6	30580.6	33033.4	32189.9	30965.3	31692.3	32299.3	31865.3
60°	15447.4	15726.2	17794.3	25000.9	28992.5	32458.2	33799.3	33534.6	34791.0	35514.5	34254.5
62.5°	13583.9	13848.6	15729.7	20875.3	26959.7	31501.7	34815.7	35906.2	37967.3	38757.8	36506.2
65°	11734.6	11960.5	13763.9	17540.2	24376.3	30545.3	35341.5	37956.7	40907.1	41725.9	38376.7
67.5°	9673.6	9860.6	11565.2	14798.0	21235.3	29236.0	35602.7	39569.5	43465.8	44168.1	39301.3
70°	6980.8	7125.5	8886.6	11702.9	17293.1	26984.4	35496.8	40713.0	44792.8	45353.9	38602.5
72.5°	3299.8	3430.4	5498.5	7598.4	12214.6	22601.1	33354.6	39806.0	43444.6	43165.8	34325.1
75°	1761.1	1874.0	3158.6	4168.0	6451.4	15493.2	27294.9	34289.8	36481.5	35126.2	25368.0
77.5°	1192.9	1281.1	1955.2	2502.2	2946.9	7354.9	17543.7	23741.0	22841.1	20603.5	12705.2
80°	945.8	1037.6	1602.3	1694.0	1425.8	2657.5	7249.0	10990.0	7894.8	6313.8	3613.9
82.5°	727.0	829.4	1348.2	1228.2	776.4	1090.5	2110.5	3476.3	2022.2	1538.7	875.2
85°	444.7	554.1	1058.8	783.5	437.6	497.6	716.4	967.0	617.6	515.3	314.1
87.5°	225.9	317.6	536.4	285.9	197.6	116.5	190.6	190.6	162.3	141.2	81.2
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°	9613.6	9613.6	9613.6	9613.6	9613.6	9613.6	9613.6	9613.6	9613.6	9613.6	9613.6
2.5°	9648.9	9719.4	9839.4	9952.4	10040.6	10125.3	10210.0	10255.9	10270.0	10326.5	10358.2
5°	9761.8	9892.4	10125.3	10344.1	10481.8	10566.5	10626.5	10661.7	10668.8	10686.5	10714.7
7.5°	9970.0	10178.2	10502.9	10721.7	10824.1	10817.0	10792.3	10704.1	10668.8	10637.0	10644.1
10°	10262.9	10538.2	10937.0	11088.8	11025.3	10855.9	10637.0	10379.4	10259.4	10143.0	10107.7
12.5°	10626.5	10975.8	11367.6	11360.5	11046.4	10612.3	10104.1	9708.9	9458.3	9278.3	9235.9
15°	11067.6	11469.9	11769.9	11529.9	10841.7	10061.8	9317.1	8801.9	8576.0	8378.3	8357.2
17.5°	11522.9	11953.4	12091.1	11477.0	10326.5	9246.5	8403.1	7997.2	7774.9	7669.0	7700.7
20°	11967.6	12394.6	12281.7	11173.5	9543.0	8321.9	7570.2	7347.8	7301.9	7326.6	7316.1
22.5°	12436.9	12818.1	12320.5	10587.6	8544.2	7376.1	6963.1	6970.2	7072.5	7146.7	7164.3
25°	12916.9	13174.5	12218.1	9740.6	7471.3	6680.8	6578.5	6691.4	6892.6	7037.2	7076.1
27.5°	13379.2	13492.2	11995.8	8692.4	6550.2	6183.2	6200.8	6433.8	6737.3	6938.4	6987.8
30°	13901.6	13774.5	11568.8	7513.7	5911.4	5756.1	5904.4	6176.1	6479.6	6659.6	6702.0
32.5°	14490.9	14018.0	10891.1	6423.2	5459.7	5413.8	5657.3	5833.8	5967.9	6020.8	6049.1
35°	15225.0	14360.4	10023.0	5657.3	5053.8	5163.2	5396.2	5307.9	5255.0	5226.8	5255.0
37.5°	16177.9	14822.7	9006.5	5159.7	4725.6	4983.2	5078.5	4803.3	4595.0	4492.7	4517.4
40°	17324.9	15500.3	8029.0	4775.0	4517.4	4828.0	4662.1	4330.3	4065.7	3921.0	3931.5
42.5°	18598.9	16209.7	7206.7	4485.6	4400.9	4700.9	4355.0	3959.8	3532.7	3486.9	3532.7
45°	19936.5	16940.2	6645.5	4263.3	4344.5	4591.5	4178.6	3539.8	3236.3	3423.3	3522.2
47.5°	21274.1	17610.8	6306.7	4097.4	4316.2	4468.0	4023.3	3306.9	3091.6	3363.3	3490.4
50°	22763.4	18210.7	6154.9	3977.4	4284.5	4418.6	3790.4	3246.9	2939.8	3119.8	3253.9
52.5°	24242.2	18676.6	6042.0	3857.4	4238.6	4379.8	3677.4	3176.3	2756.3	2766.9	2841.0
55°	25717.4	18980.1	5918.5	3698.6	4136.2	4295.1	3666.9	3098.6	2618.7	2569.3	2604.6
57.5°	27291.4	19153.0	5766.7	3522.2	3959.8	4079.8	3656.3	3038.7	2576.3	2495.2	2505.7
60°	28893.7	19407.1	5569.1	3306.9	3723.3	3822.1	3631.6	3017.5	2551.6	2414.0	2424.6
62.5°	30330.0	19495.4	5332.6	3102.2	3419.8	3568.0	3578.6	2999.8	2484.6	2248.1	2248.1
65°	31272.3	19114.2	4919.7	2869.2	3091.6	3306.9	3476.3	2939.8	2364.6	2128.1	2128.1
67.5°	31233.5	18027.2	4273.9	2569.3	2774.0	3017.5	3328.0	2837.5	2219.9	1979.9	1990.5
70°	29779.5	15881.5	3455.1	2219.9	2424.6	2706.9	3137.5	2685.7	2046.9	1817.5	1838.7
72.5°	25540.9	12429.9	2509.3	1810.5	2018.7	2385.7	2890.4	2502.2	1870.5	1672.8	1662.3
75°	18246.0	7866.6	1701.1	1390.5	1570.5	2022.2	2583.4	2286.9	1708.1	1679.9	1584.6
77.5°	9320.6	3758.6	1125.8	1016.4	1094.1	1595.2	2170.5	2043.4	1732.8	1387.0	1235.2
80°	3031.6	1387.0	709.4	691.7	727.0	1062.3	1679.9	1676.4	1312.9	942.3	832.9
82.5°	967.0	596.4	462.3	444.7	427.0	667.0	1171.7	1327.0	885.8	596.4	592.9
85°	384.7	356.5	271.7	250.6	180.0	314.1	614.1	882.3	660.0	430.6	441.2
87.5°	141.2	141.2	74.1	52.9	38.8	105.9	165.9	264.7	377.6	222.3	218.8
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)