

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: P458336

Luminaire Tested: **GALN-SA9D-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58522 lumens
Efficiency: N/A
Efficacy: 106.0 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

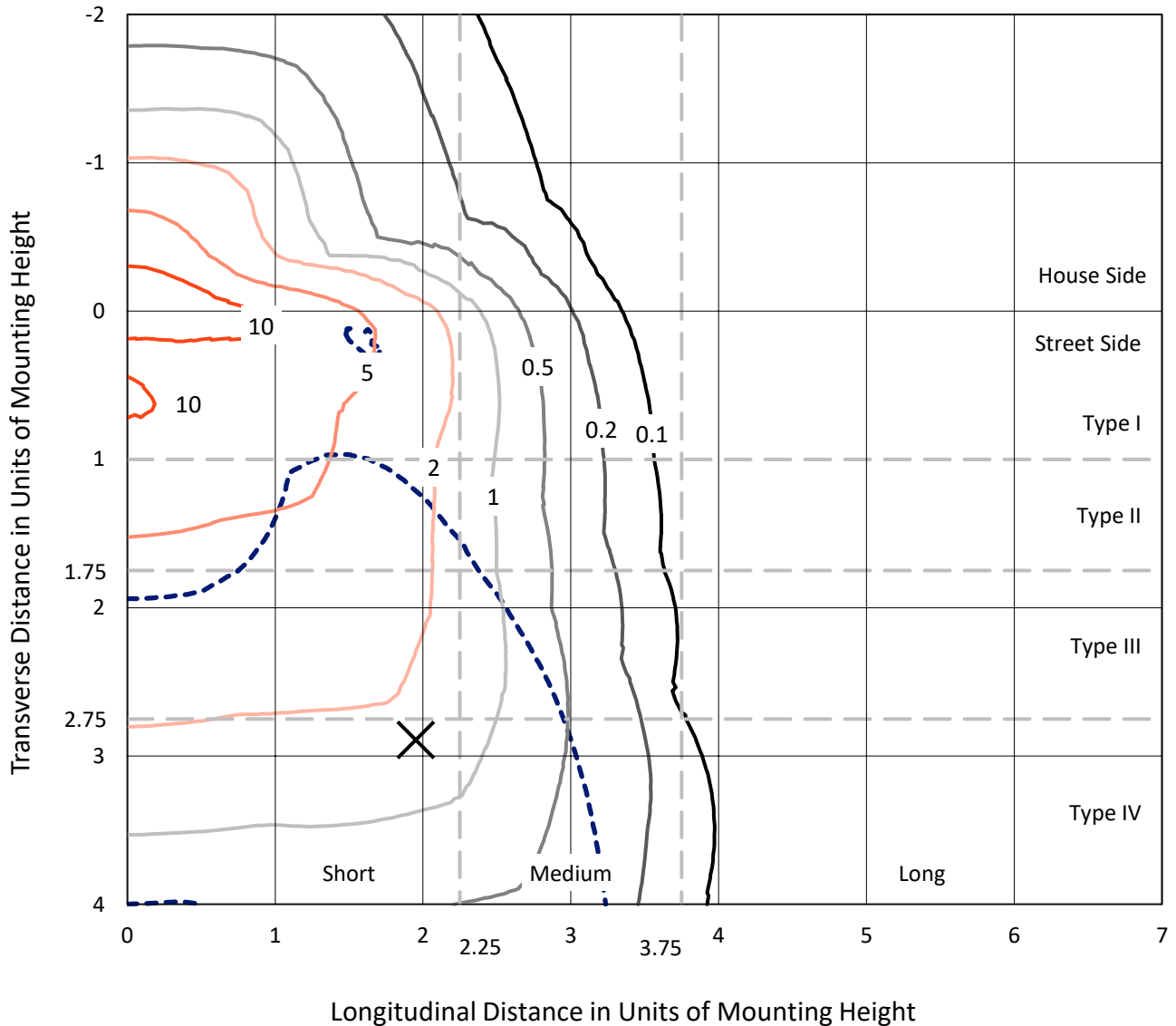
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

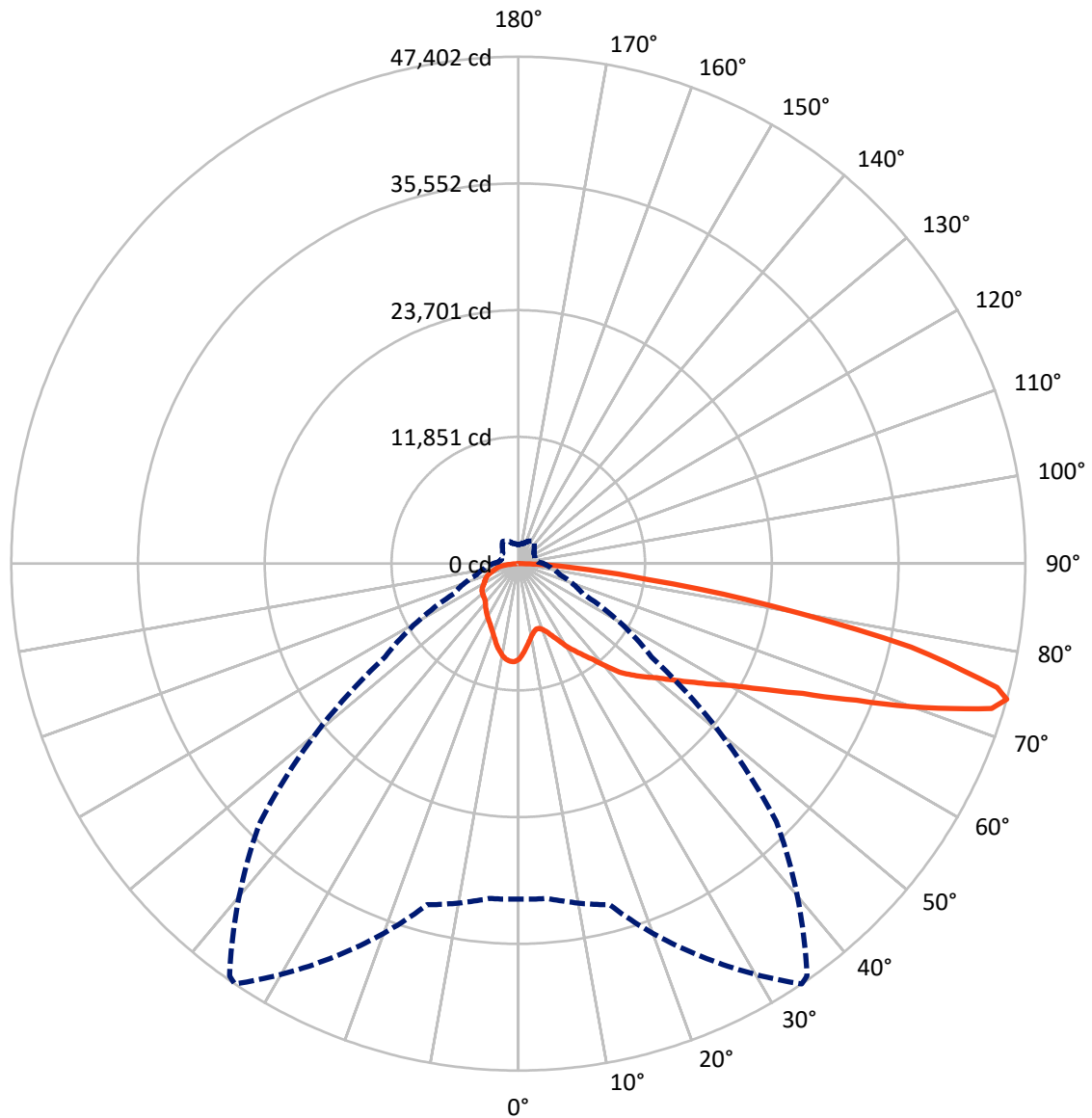
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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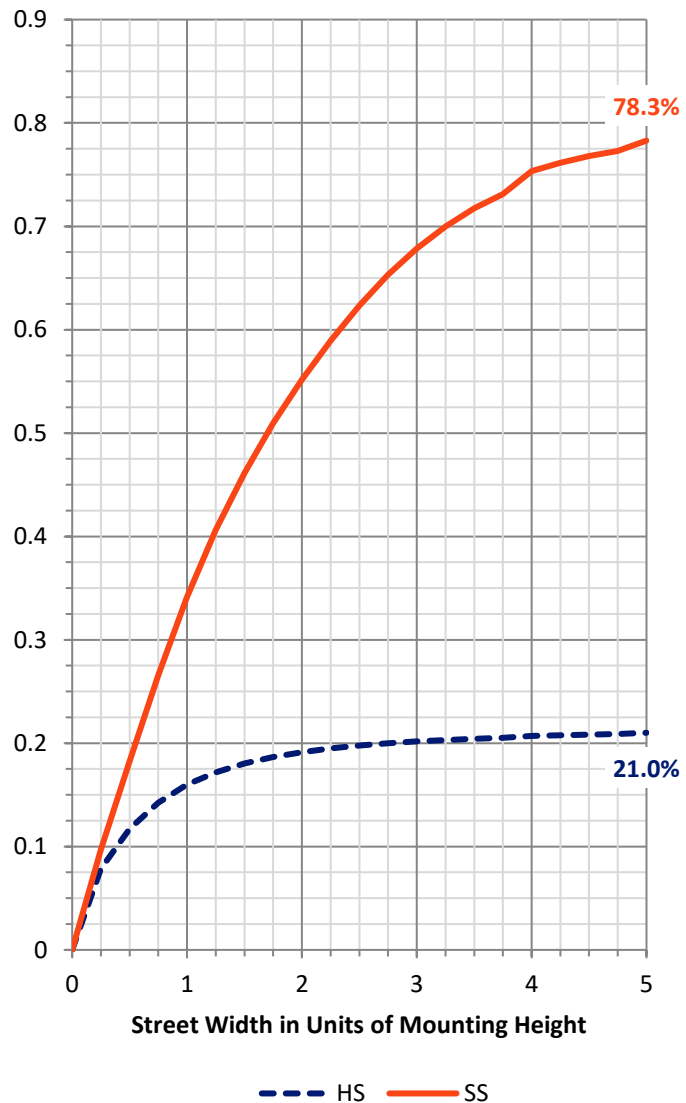
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12453.9	0.0	12453.9
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	46068.1	0.0	46068.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	58522.0	0.0	58522.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	812.6	1.4
10°-20°	2224.5	3.8
20°-30°	3667.6	6.3
30°-40°	5493.7	9.4
40°-50°	7986.3	13.6
50°-60°	11155.0	19.1
60°-70°	13965.4	23.9
70°-80°	11548.3	19.7
80°-90°	1668.6	2.9
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°	58522.0	100.0
0°-180°	58522.0	100.0



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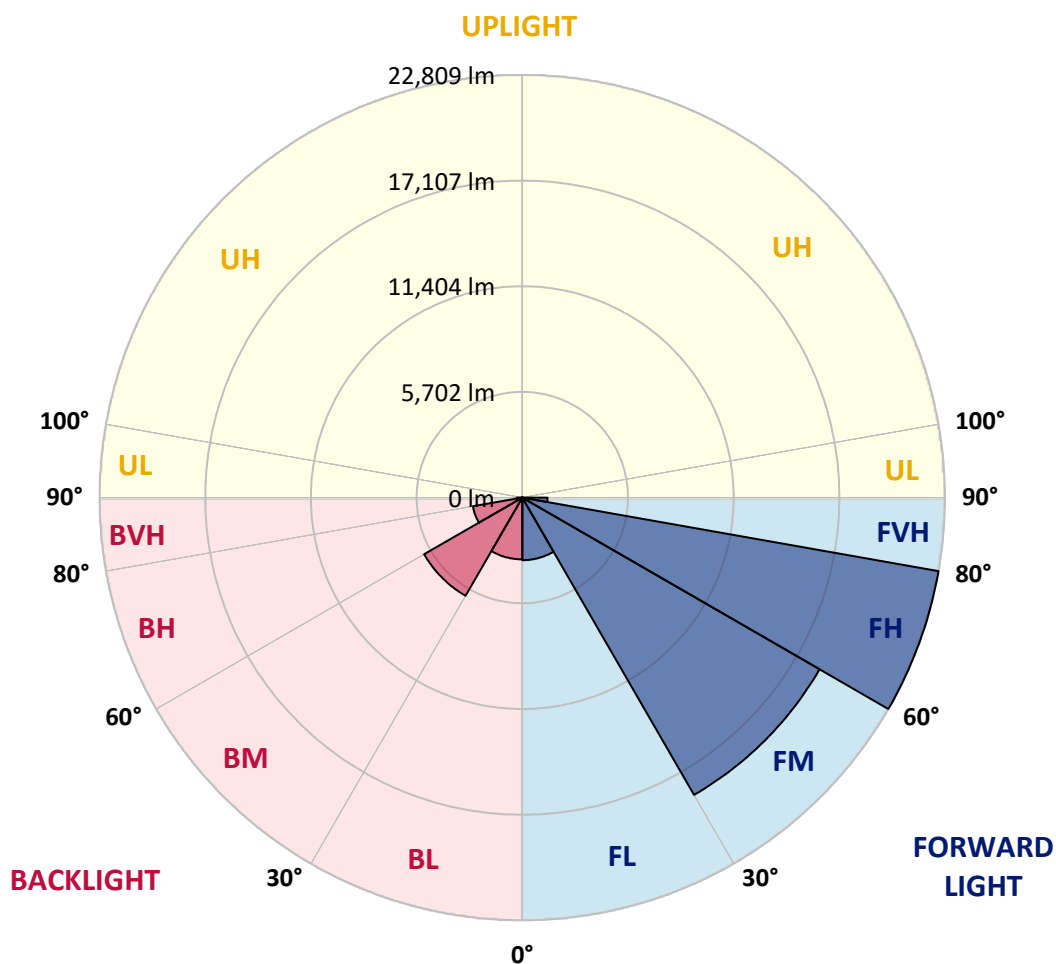
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3373.5	5.8			
FM	(30°-60°)	18518.8	31.6			
FH	(60°-80°)	22808.8	39.0			G5
FVH	(80°-90°)	1367.0	2.3			G5
BL	(0°-30°)	3331.2	5.7	B4/5000		
BM	(30°-60°)	6116.1	10.5	B4/8500		
BH	(60°-80°)	2704.9	4.6	B4/5000		G4/5000
BVH	(80°-90°)	301.6	0.5			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	8935.2	8935.2	8935.2	8935.2	8935.2	8935.2	8935.2	8935.2	8935.2	8935.2	8935.2
2.5°	8257.6	8299.7	8322.4	8403.5	8422.9	8448.8	8516.9	8607.7	8724.4	8828.2	8918.9
5°	7570.2	7635.1	7674.0	7745.3	7884.7	7897.7	8079.2	8286.7	8523.4	8743.9	8925.4
7.5°	6918.6	6989.9	7022.3	7152.0	7336.8	7366.0	7631.8	7959.3	8354.8	8688.8	8967.6
10°	6429.0	6464.7	6536.0	6633.3	6853.7	6873.2	7220.1	7657.8	8170.0	8662.8	9038.9
12.5°	6163.2	6182.6	6198.8	6302.6	6519.8	6549.0	6912.1	7408.1	8024.1	8682.3	9155.6
15°	6202.1	6208.6	6137.2	6156.7	6331.8	6373.9	6733.8	7242.8	7933.4	8730.9	9330.7
17.5°	6529.5	6506.8	6331.8	6241.0	6364.2	6383.6	6698.1	7177.9	7891.2	8821.7	9512.2
20°	7045.0	7012.6	6711.1	6510.1	6581.4	6597.6	6814.8	7226.6	7933.4	8970.8	9794.3
22.5°	7687.0	7674.0	7216.9	6973.7	6970.5	6970.5	7083.9	7401.7	8059.8	9175.1	10089.3
25°	8585.0	8516.9	7920.4	7605.9	7518.4	7511.9	7498.9	7690.2	8221.9	9392.3	10439.5
27.5°	9505.8	9389.0	8857.3	8374.3	8186.2	8163.5	8079.2	8098.7	8429.4	9638.7	10838.2
30°	10332.5	10257.9	9758.6	9223.7	9000.0	8948.1	8714.7	8607.7	8776.3	10082.8	11473.7
32.5°	10964.7	10919.3	10530.3	10043.9	9713.2	9703.5	9363.1	9275.6	9317.7	10621.0	12199.9
35°	11476.9	11493.1	11295.4	10873.9	10494.6	10439.5	10212.5	10102.3	9979.1	11399.1	13114.2
37.5°	12177.2	12212.9	12199.9	11836.8	11373.2	11386.2	11334.3	11152.7	10825.3	12268.0	14129.0
40°	12948.8	12974.8	12971.5	12832.1	12589.0	12601.9	12582.5	12375.0	11885.4	13373.5	15257.2
42.5°	14015.5	13892.3	13571.3	13710.7	13853.4	13915.0	14047.9	13850.1	13179.0	14553.7	16317.4
45°	15208.6	14975.1	14248.9	14313.8	14842.2	14958.9	15691.6	15419.3	14582.8	15908.9	17565.5
47.5°	15960.7	15730.5	15117.8	15104.8	15805.1	15918.6	17215.4	17114.9	15860.2	17371.0	19089.3
50°	16631.8	16599.4	15908.9	16074.2	16758.3	16926.9	18875.3	18781.3	17134.4	19095.8	20749.3
52.5°	17627.1	17364.5	16813.4	17153.8	18058.3	18278.8	20522.3	20246.7	18304.7	20619.6	22360.6
55°	18074.6	18013.0	17980.5	18275.6	19517.3	19676.1	22123.9	21491.7	19303.3	21909.9	23586.1
57.5°	19270.9	19157.4	19478.4	19679.4	21235.6	21478.7	23796.8	22791.8	20178.7	22934.4	24182.6
60°	20820.6	20759.0	21054.0	21417.1	23154.9	23524.5	25703.2	23900.6	20882.2	23449.9	23855.2
62.5°	23135.4	23128.9	23073.8	23851.9	25875.0	26215.4	27891.6	24980.2	20992.4	23064.1	22162.8
65°	26455.3	26338.6	25858.8	26708.2	29259.7	29658.5	30170.7	25583.2	20327.8	21083.2	18661.4
67.5°	29927.6	29921.1	29532.0	30634.3	34119.6	34531.3	33020.5	25450.3	18483.1	17079.2	13253.6
70°	32806.5	32667.1	33163.2	36100.5	40328.1	40804.7	35513.7	23884.3	14722.3	11279.2	7875.0
72.5°	33497.1	33503.6	34534.6	40315.2	46290.3	46364.9	36411.7	19358.4	9852.7	6221.5	3939.1
74°	31370.3	31425.4	33023.8	40525.9	47402.3	47065.2	34116.3	15215.0	6662.5	4062.3	2840.1
75°	28634.0	28287.1	30598.7	39122.1	46248.2	45885.1	31428.7	12209.6	5083.6	3245.3	2486.7
77.5°	15309.1	15662.5	19228.7	29194.9	37572.4	37154.2	21310.1	5855.2	2746.0	2259.7	1789.6
80°	5449.9	6010.8	8448.8	15276.6	24088.6	24218.3	10170.4	2684.4	1932.3	1666.4	1264.4
82.5°	2224.1	2285.7	3627.9	6779.2	12232.3	12349.1	4153.1	1595.1	1381.1	1147.7	755.4
85°	868.9	894.8	1604.8	3047.5	5219.7	5560.2	1436.2	842.9	849.4	658.1	385.8
87.5°	291.8	330.7	658.1	1014.8	1773.4	1737.8	418.2	249.6	304.8	285.3	120.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8935.2	8935.2	8935.2	8935.2	8935.2	8935.2	8935.2	8935.2	8935.2	8935.2	8935.2
2.5°	8964.3	9025.9	9068.1	9113.5	9155.6	9168.6	9158.9	9188.0	9191.3	9194.5	9197.8
5°	9016.2	9100.5	9181.5	9226.9	9246.4	9230.2	9175.1	9145.9	9120.0	9100.5	9107.0
7.5°	9087.5	9207.5	9282.1	9301.5	9249.6	9175.1	9038.9	8931.9	8863.8	8818.4	8815.2
10°	9197.8	9314.5	9376.1	9321.0	9178.3	8996.8	8782.8	8581.8	8429.4	8384.0	8380.8
12.5°	9337.2	9470.1	9466.9	9304.7	9055.1	8730.9	8384.0	8150.6	7943.1	7839.3	7881.5
15°	9518.7	9619.2	9525.2	9233.4	8837.9	8393.7	7965.8	7648.0	7414.6	7304.4	7310.9
17.5°	9729.5	9817.0	9567.4	9107.0	8533.1	7962.5	7466.5	7165.0	6980.2	6899.1	6892.6
20°	9992.1	10018.0	9567.4	8886.5	8140.8	7460.0	6986.7	6775.9	6672.2	6630.0	6643.0
22.5°	10274.1	10222.3	9515.5	8575.3	7625.4	6934.8	6617.1	6523.0	6471.2	6464.7	6471.2
25°	10591.9	10446.0	9408.5	8153.8	7087.2	6480.9	6296.1	6312.3	6322.0	6322.0	6344.7
27.5°	10980.9	10689.1	9230.2	7622.1	6458.2	6059.4	6007.6	6121.0	6172.9	6182.6	6198.8
30°	11493.1	10955.0	8935.2	6957.5	5923.3	5680.1	5770.9	5923.3	5981.6	6017.3	6010.8
32.5°	12102.7	11246.7	8536.4	6292.9	5492.1	5414.3	5524.5	5680.1	5745.0	5764.4	5738.5
35°	12819.2	11577.4	8011.2	5670.4	5116.0	5161.4	5291.1	5339.7	5398.1	5398.1	5411.0
37.5°	13590.8	11843.3	7369.2	5099.8	4824.2	4989.5	5083.6	5038.2	5012.2	4979.8	4996.0
40°	14375.3	12041.1	6536.0	4535.7	4532.4	4811.2	4837.2	4707.5	4603.7	4571.3	4555.1
42.5°	15059.4	12164.3	5783.9	4098.0	4256.8	4636.2	4655.6	4448.1	4282.8	4185.5	4153.1
45°	15866.7	12306.9	5047.9	3734.9	4000.7	4496.8	4545.4	4266.6	4023.4	3819.2	3767.3
47.5°	16972.2	12631.1	4467.6	3452.8	3815.9	4409.2	4477.3	4117.4	3796.5	3530.6	3488.5
50°	18220.4	13075.3	4016.9	3261.5	3673.3	4331.4	4415.7	3965.1	3585.7	3290.7	3258.3
52.5°	19364.9	13315.2	3627.9	3089.7	3533.9	4188.8	4334.7	3854.8	3378.2	3050.8	3021.6
55°	19990.6	12926.1	3245.3	2921.1	3342.6	4004.0	4221.2	3702.4	3177.2	2924.3	2882.2
57.5°	20074.9	12122.1	2898.4	2739.6	3141.6	3777.0	4010.4	3517.6	3047.5	2836.8	2801.2
60°	19423.3	10922.5	2629.3	2590.4	2937.3	3520.9	3773.8	3355.5	2914.6	2739.6	2703.9
62.5°	17802.2	9619.2	2441.3	2454.2	2729.8	3251.8	3598.7	3199.9	2788.2	2632.6	2600.1
65°	15014.0	7939.8	2259.7	2314.8	2545.0	3041.1	3439.8	3070.2	2661.7	2551.5	2522.3
67.5°	10429.7	5732.0	2110.6	2168.9	2370.0	2827.1	3255.0	2930.8	2519.1	2460.7	2415.3
70°	5774.1	3527.4	1935.5	2003.6	2188.4	2587.2	3047.5	2720.1	2311.6	2285.7	2220.8
72.5°	3034.6	2246.8	1737.8	1812.3	1942.0	2279.2	2729.8	2489.9	2107.3	1997.1	1912.8
74°	2370.0	1841.5	1604.8	1682.6	1770.2	2097.6	2541.8	2324.6	1961.5	1831.8	1766.9
75°	2065.2	1640.5	1491.4	1591.9	1669.7	1974.4	2395.9	2207.9	1880.4	1757.2	1698.8
77.5°	1458.9	1228.7	1219.0	1339.0	1381.1	1731.3	2159.2	2010.1	1676.2	1546.5	1491.4
80°	1024.5	920.7	966.1	1040.7	1099.1	1530.3	2003.6	1737.8	1374.6	1222.3	1202.8
82.5°	667.9	603.0	690.6	758.6	778.1	1128.2	1617.8	1319.5	1001.8	813.8	755.4
85°	308.0	301.5	395.5	385.8	382.6	551.2	959.7	771.6	577.1	431.2	405.3
87.5°	77.8	74.6	97.3	81.1	97.3	84.3	87.5	22.7	3.2	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	0.0

(END OF REPORT)