

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: P648591

Luminaire Tested: **GALN-SA8B-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29444.7 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

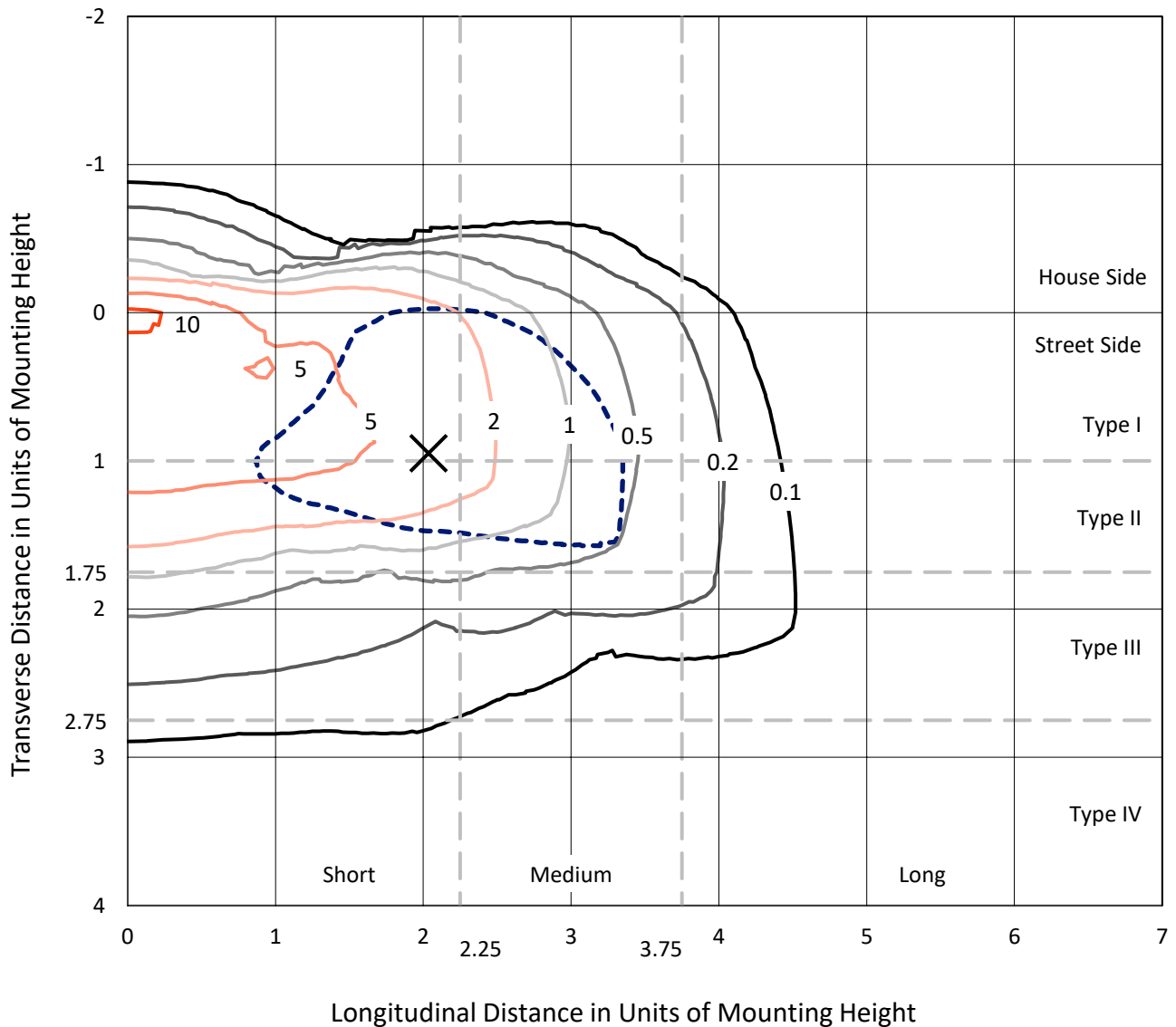
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648591
 CATALOG NUMBER: GALN-SA8B-835-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

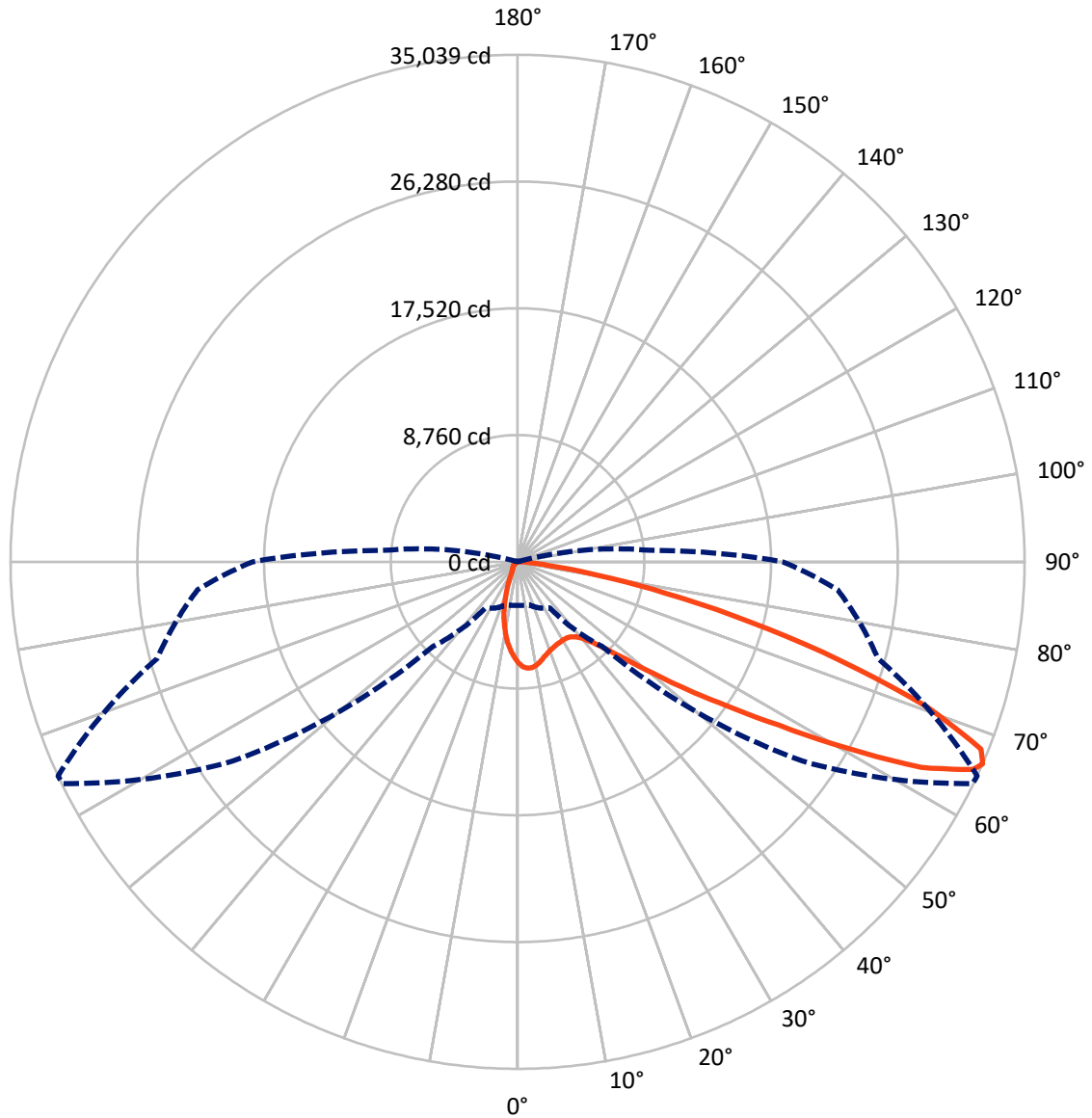
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

REPORT NUMBER: P648591
CATALOG NUMBER: GALN-SA8B-835-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P648591
 CATALOG NUMBER: GALN-SA8B-835-U-SL2-HSS

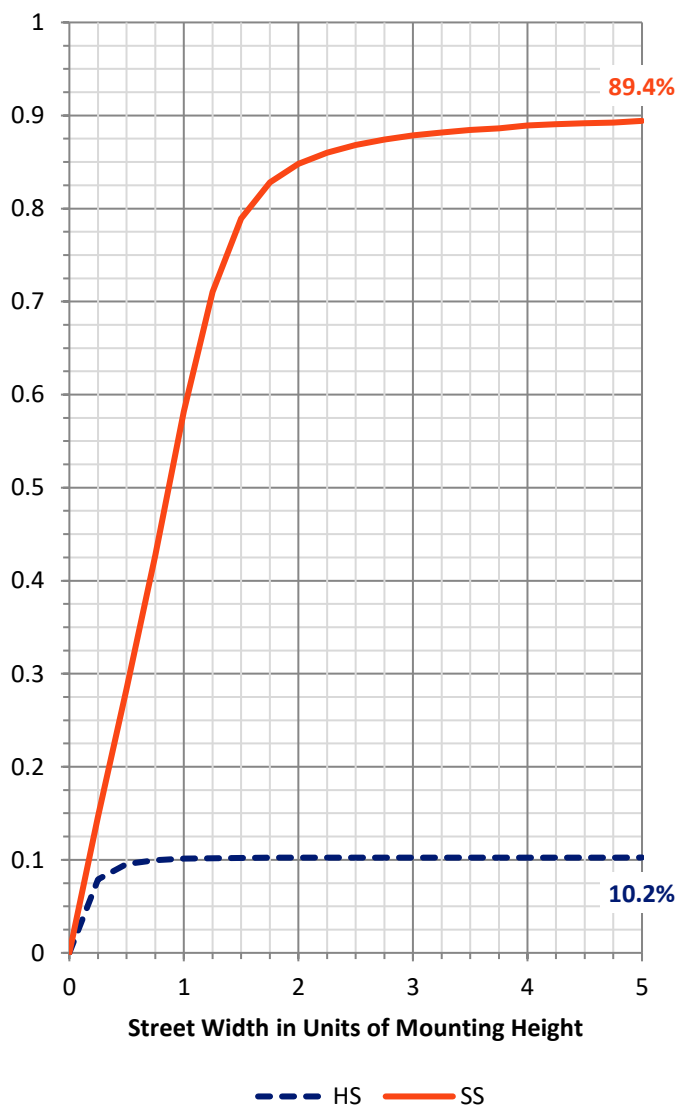
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3045.0	0.0	3045.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	26399.7	0.0	26399.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	29444.7	0.0	29444.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.1	1.9
10°-20°	1244.2	4.2
20°-30°	1782.4	6.1
30°-40°	2603.3	8.8
40°-50°	4365.3	14.8
50°-60°	7285.0	24.7
60°-70°	7732.8	26.3
70°-80°	3502.2	11.9
80°-90°	358.3	1.2
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°	29444.7	100.0
0°-180°	29444.7	100.0

Coefficient of Utilization



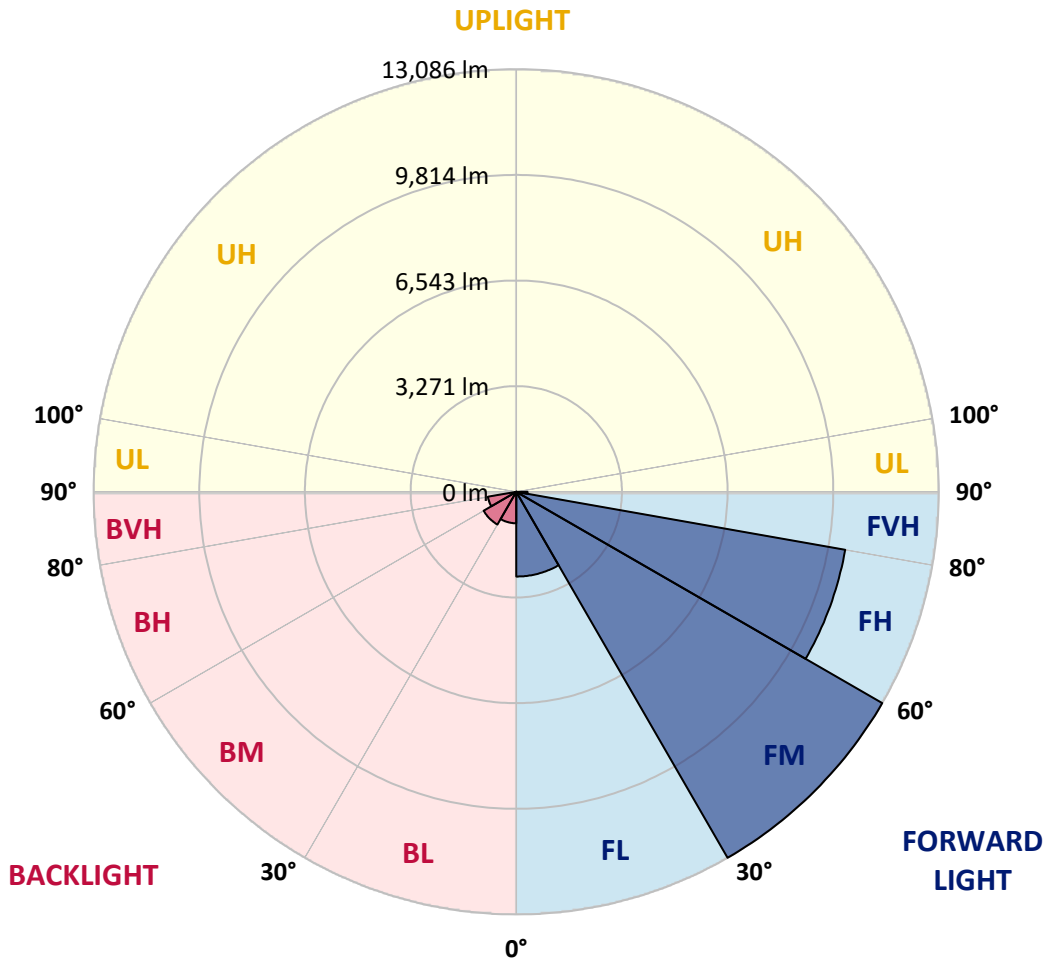
REPORT NUMBER: P648591
 CATALOG NUMBER: GALN-SA8B-835-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2623.6	8.9			
FM (30°-60°)	13085.9	44.4			
FH (60°-80°)	10343.3	35.1			G4/12000
FVH (80°-90°)	346.9	1.2			G3/500
BL (0°-30°)	974.1	3.3	B2/1000		
BM (30°-60°)	1167.8	4.0	B2/2500		
BH (60°-80°)	891.8	3.0	B2/1000		G2/1000
BVH (80°-90°)	11.4	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





REPORT NUMBER: P648591

CATALOG NUMBER: GALN-SA8B-835-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6982.4	6982.4	6982.4	6982.4	6982.4	6982.4	6982.4	6982.4	6982.4	6982.4	6982.4
2.5°	7358.3	7366.2	7376.2	7390.1	7400.1	7370.2	7328.5	7280.7	7270.8	7169.4	7046.1
5°	6964.6	6976.5	7064.0	7111.7	7219.1	7316.5	7378.2	7386.1	7382.1	7286.7	7089.8
7.5°	6403.7	6437.5	6523.0	6606.6	6807.4	6992.3	7211.1	7364.3	7374.2	7348.4	7103.8
10°	5948.3	5970.1	6013.9	6179.0	6346.1	6628.4	6934.7	7223.1	7246.9	7350.3	7091.8
12.5°	5592.3	5624.1	5677.8	5805.1	6005.9	6272.5	6620.5	7008.3	7058.0	7312.6	7058.0
15°	5343.7	5359.6	5413.3	5538.6	5733.5	5980.1	6332.1	6783.5	6827.3	7262.9	7052.0
17.5°	5226.4	5244.3	5282.0	5381.5	5542.6	5771.3	6115.3	6602.6	6658.2	7231.0	7073.9
20°	5258.2	5274.1	5276.1	5327.8	5437.2	5630.1	5956.3	6433.5	6505.2	7211.1	7109.7
22.5°	5439.2	5441.1	5417.3	5393.5	5431.2	5570.4	5858.8	6326.2	6399.7	7207.1	7151.5
25°	5709.6	5715.6	5675.8	5592.3	5516.7	5588.3	5837.0	6256.6	6322.2	7197.2	7177.3
27.5°	6083.5	6081.6	6069.6	5930.4	5715.6	5667.9	5854.8	6218.7	6274.4	7169.4	7187.2
30°	6606.6	6590.7	6564.8	6407.7	6079.5	5860.8	5930.4	6194.9	6246.6	7129.6	7161.4
32.5°	7121.6	7181.3	7177.3	7028.1	6618.5	6204.8	6087.5	6226.7	6264.5	7103.8	7123.7
35°	7722.3	7720.2	7873.4	7817.7	7338.4	6644.4	6356.0	6332.1	6362.0	7121.6	7105.7
37.5°	8279.1	8330.8	8569.5	8627.1	8189.6	7264.8	6735.8	6558.8	6568.7	7243.0	7149.5
40°	8973.2	9072.6	9428.6	9621.5	9235.6	8185.6	7296.6	6974.5	6976.5	7541.2	7314.6
42.5°	9868.1	10025.2	10357.3	10679.5	10472.6	9275.4	8137.9	7632.8	7628.8	8066.3	7692.4
45°	10955.9	11065.3	11443.2	11954.2	11823.0	10796.8	9363.0	8652.9	8601.3	8927.4	8362.6
47.5°	11894.6	12043.7	12427.5	13010.2	13606.9	12654.3	10826.6	10055.1	10021.2	10297.6	9512.1
50°	12304.3	12435.5	12839.2	13656.6	15102.4	15092.5	13006.3	12101.4	12043.7	12192.9	11290.0
52.5°	11854.8	11978.1	12385.8	13404.0	15806.4	18063.7	16164.4	14668.9	14599.3	14408.4	13414.0
55°	10315.6	10417.0	11019.6	12188.9	15536.0	20044.4	20515.7	17840.9	17570.4	16828.6	15818.3
57.5°	8213.4	8161.8	8535.6	9893.9	13948.9	20708.6	24982.4	21792.5	21309.3	18920.8	17852.8
60°	5691.7	5850.8	6002.0	6896.9	10488.5	19557.1	27760.6	26760.4	26123.9	20979.1	19801.8
62.5°	4184.3	4289.7	4389.1	4802.8	6594.7	15615.5	28251.9	31863.4	31298.6	23164.7	21661.2
65°	3309.3	3317.2	3357.0	3764.7	4345.3	10154.4	25891.2	34741.1	34595.9	25268.8	22414.9
66°	3014.9	3016.9	3078.5	3516.1	3899.9	8269.1	24000.0	34959.9	35039.4	25773.9	22194.2
67.5°	2635.0	2627.1	2716.6	3160.1	3551.8	5962.2	20615.1	34072.9	34544.2	26161.8	21400.7
70°	2042.5	2032.5	2141.9	2651.0	3271.5	3977.5	13702.3	29256.2	30015.9	25368.3	18934.7
72.5°	1360.3	1368.2	1555.2	2092.2	3122.3	3502.1	8243.3	22255.8	23329.8	20949.2	14895.6
75°	793.5	807.4	1020.2	1555.2	2710.7	3339.1	4665.6	15870.1	16556.1	14466.0	9279.4
77.5°	415.6	421.6	570.7	1026.2	2078.2	3100.4	3108.4	10138.5	10460.7	7030.2	3673.2
80°	220.7	214.8	306.2	618.5	1429.9	2722.6	2521.7	5367.5	5580.4	2088.2	928.7
82.5°	83.5	91.5	163.1	405.7	845.2	1954.9	2171.7	2372.6	2299.0	459.4	389.8
85°	15.9	19.9	69.6	240.6	425.6	817.4	1600.9	1163.4	1077.9	173.0	224.7
87.5°	2.0	4.0	19.9	57.7	61.6	276.4	473.3	322.2	278.4	63.7	93.5
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: P648591
 CATALOG NUMBER: GALN-SA8B-835-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6982.4	6982.4	6982.4	6982.4	6982.4	6982.4	6982.4	6982.4	6982.4	6982.4	6982.4
2.5°	6986.4	6932.7	6753.7	6576.7	6395.8	6232.7	6121.3	5940.3	5894.6	5829.0	5791.1
5°	6972.5	6847.2	6503.1	6127.3	5777.3	5399.4	5111.0	4832.6	4683.4	4607.9	4580.1
7.5°	6932.7	6733.8	6196.9	5608.2	5047.4	4482.6	3991.3	3617.5	3376.8	3211.8	3100.4
10°	6853.1	6578.7	5840.9	5031.5	4184.3	3438.5	2816.1	2342.7	1976.8	1861.4	1865.4
12.5°	6771.6	6405.7	5443.2	4391.1	3341.1	2400.4	1740.1	1366.3	1191.3	1133.5	1121.6
15°	6696.1	6240.7	5053.3	3770.6	2487.9	1555.2	1121.6	990.4	942.7	932.7	930.8
17.5°	6656.3	6087.5	4637.7	3060.7	1736.1	1056.0	898.9	863.1	849.2	839.2	835.3
20°	6622.5	5954.2	4239.9	2396.4	1187.3	865.1	805.5	771.6	747.8	737.8	731.9
22.5°	6598.6	5817.1	3828.3	1855.5	908.8	767.7	713.9	670.2	636.4	624.4	616.5
25°	6562.8	5665.9	3412.6	1356.3	765.7	682.1	620.4	568.8	525.0	503.2	499.2
27.5°	6511.1	5494.9	2957.2	1004.3	684.1	606.6	531.0	467.4	423.6	399.7	401.8
30°	6427.6	5315.9	2501.8	797.5	618.5	529.0	447.5	385.8	344.1	326.1	324.2
32.5°	6328.1	5099.1	2084.2	684.1	558.8	459.4	373.9	320.2	288.4	274.4	272.5
35°	6234.6	4880.4	1658.6	614.5	497.2	395.7	314.2	268.5	244.6	232.7	234.7
37.5°	6183.0	4685.5	1292.7	558.8	447.5	340.1	270.4	230.7	208.8	198.9	196.8
40°	6216.8	4526.4	1028.2	509.1	391.8	292.4	232.7	198.9	177.0	163.1	163.1
42.5°	6375.9	4456.8	829.3	461.4	340.1	252.6	202.9	171.0	147.2	133.3	135.2
45°	6861.1	4530.4	694.1	417.7	292.4	218.8	175.0	141.2	119.3	109.4	107.4
47.5°	7666.6	4806.8	600.6	371.9	250.6	186.9	147.2	117.4	95.4	87.5	85.5
50°	9074.6	5377.5	531.0	326.1	212.8	159.1	121.3	93.5	75.6	67.7	67.7
52.5°	11011.6	6622.5	481.3	274.4	179.0	135.2	99.4	75.6	59.7	53.7	51.7
55°	13036.1	7935.0	455.4	230.7	149.2	111.3	79.6	59.7	45.7	39.8	37.8
57.5°	14983.1	8965.2	425.6	186.9	119.3	85.5	61.6	45.7	31.8	27.9	25.8
60°	16850.5	9798.5	362.0	149.2	93.5	61.6	45.7	31.8	21.8	17.9	17.9
62.5°	18521.0	10283.7	284.4	119.3	71.6	43.8	29.8	23.9	15.9	11.9	11.9
65°	18715.9	9653.3	214.8	91.5	51.7	27.9	17.9	17.9	11.9	8.0	8.0
66°	18324.2	9118.3	188.9	83.5	45.7	23.9	15.9	13.9	9.9	6.0	6.0
67.5°	17449.1	8205.5	163.1	71.6	37.8	17.9	11.9	11.9	8.0	4.0	4.0
70°	15076.6	6702.0	129.3	53.7	27.9	13.9	8.0	8.0	6.0	4.0	4.0
72.5°	11490.8	5003.6	105.4	39.8	19.9	9.9	6.0	6.0	6.0	4.0	4.0
75°	6930.7	2694.7	81.5	29.8	17.9	8.0	4.0	6.0	8.0	6.0	4.0
77.5°	2553.5	916.8	63.7	23.9	13.9	8.0	4.0	4.0	8.0	6.0	6.0
80°	626.5	238.7	45.7	19.9	13.9	8.0	4.0	4.0	8.0	8.0	8.0
82.5°	290.3	101.4	31.8	17.9	13.9	8.0	4.0	4.0	6.0	8.0	8.0
85°	167.1	47.8	25.8	19.9	13.9	8.0	4.0	4.0	6.0	8.0	8.0
87.5°	67.7	23.9	23.9	19.9	15.9	9.9	4.0	4.0	4.0	6.0	6.0
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)