

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: P454198

Luminaire Tested: **GALN-SA5B-740-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454198
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-SA5B-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 23322 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

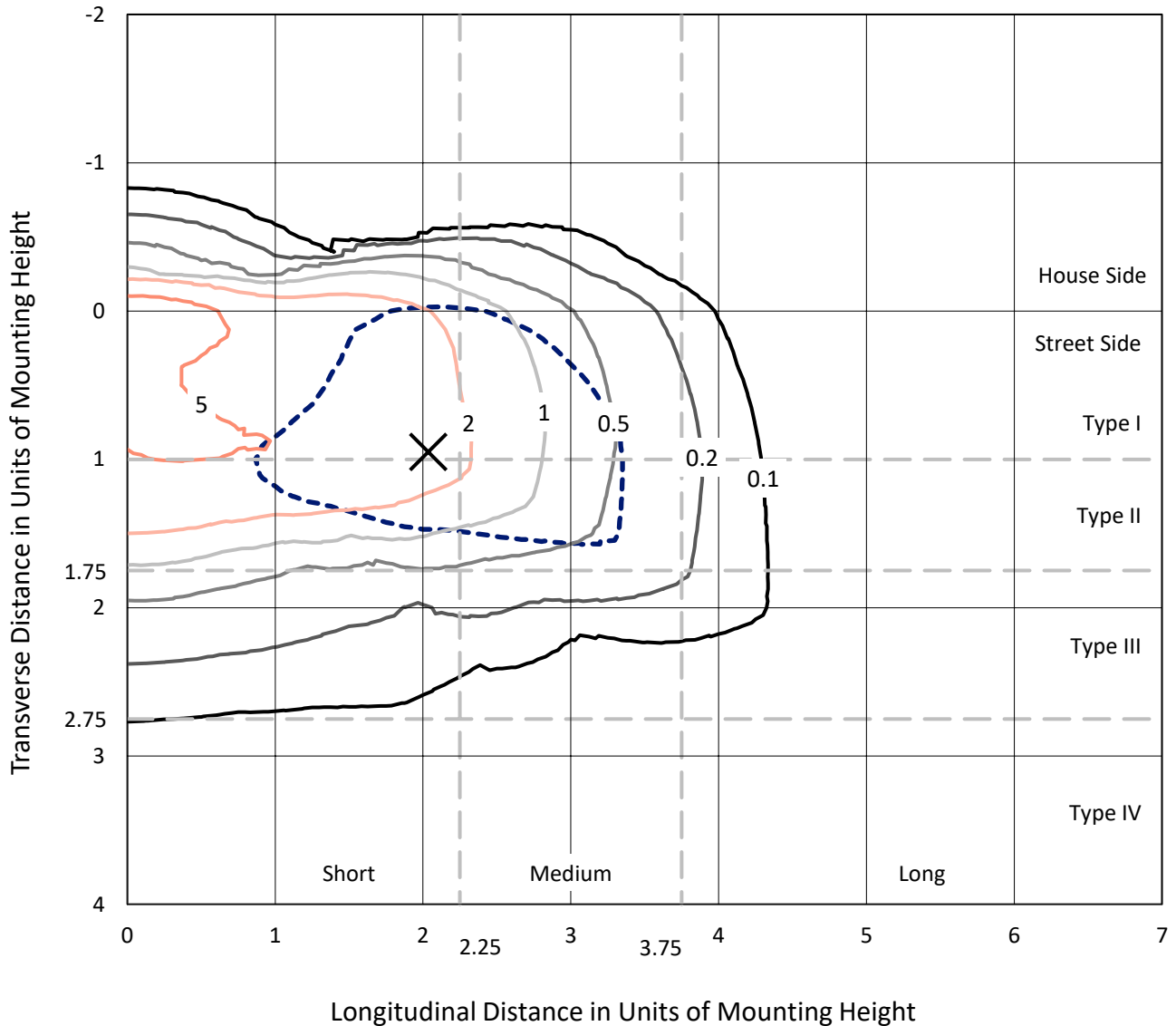
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

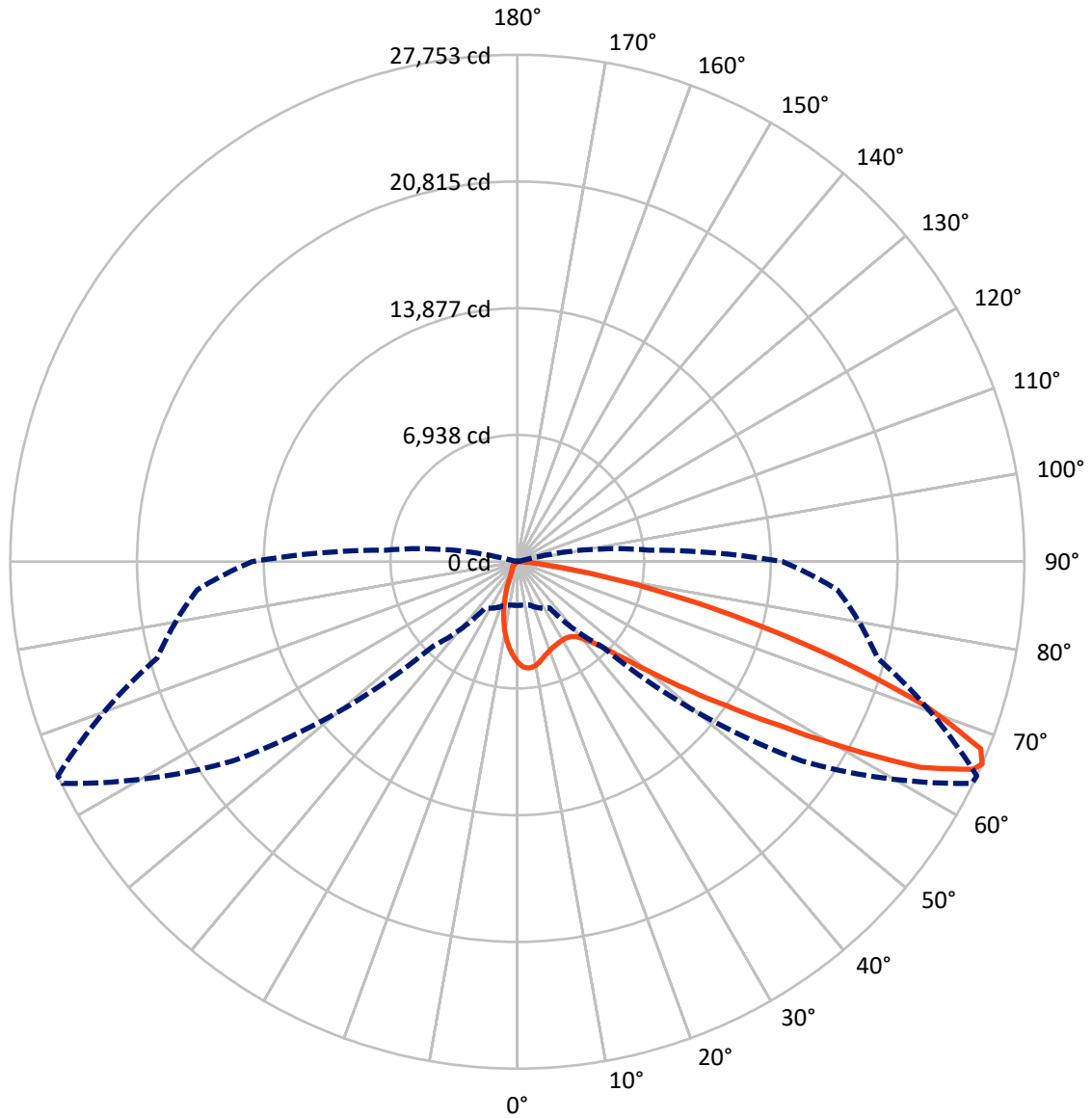
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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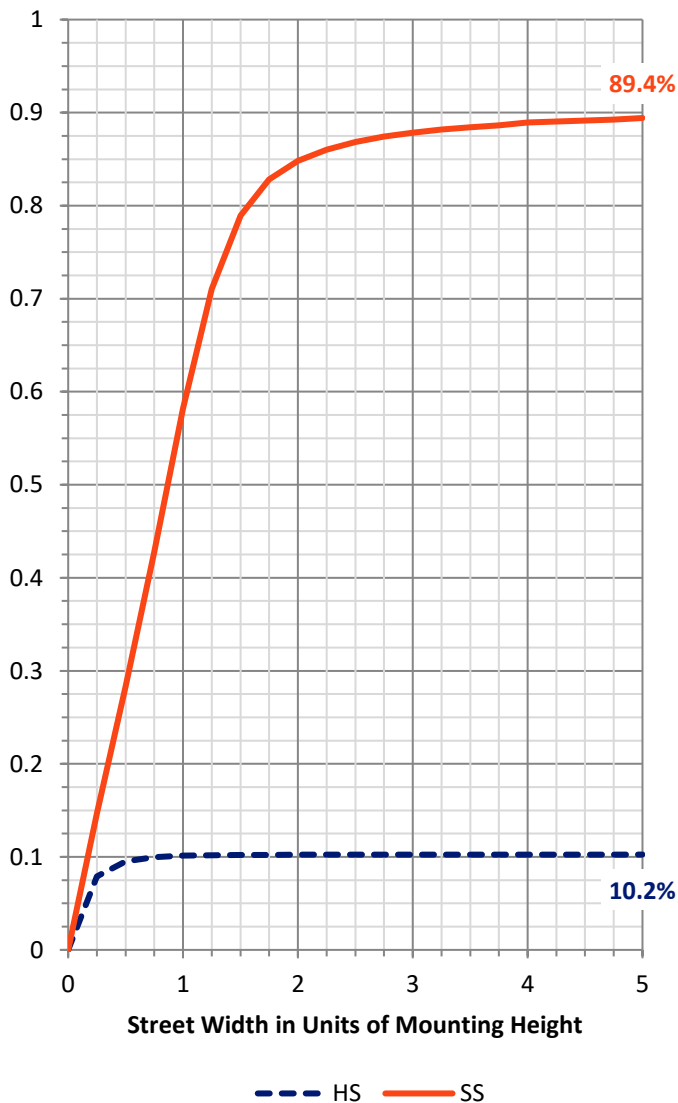
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2411.8	0.0	2411.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	20910.2	0.0	20910.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	23322.0	0.0	23322.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.3	1.9
10°-20°	985.5	4.2
20°-30°	1411.8	6.1
30°-40°	2062.0	8.8
40°-50°	3457.6	14.8
50°-60°	5770.2	24.7
60°-70°	6124.9	26.3
70°-80°	2773.9	11.9
80°-90°	283.8	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°	23322.0	100.0
0°-180°	23322.0	100.0



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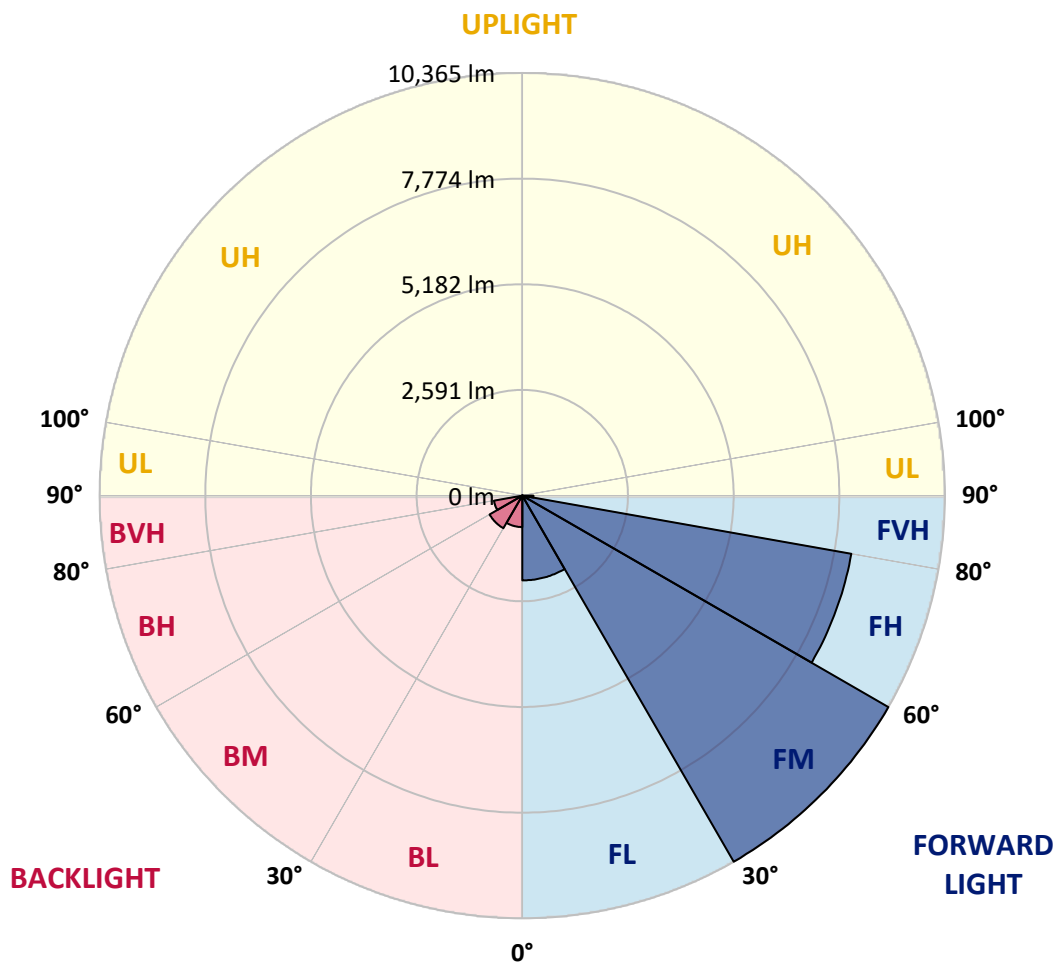
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2078.1	8.9			
FM	(30°-60°)	10364.8	44.4			
FH	(60°-80°)	8192.5	35.1			G4/12000
FVH	(80°-90°)	274.8	1.2			G3/500
BL	(0°-30°)	771.5	3.3	B2/1000		
BM	(30°-60°)	925.0	4.0	B1/1000		
BH	(60°-80°)	706.3	3.0	B2/1000		G2/1000
BVH	(80°-90°)	9.0	0.0			G0/10
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5530.5	5530.5	5530.5	5530.5	5530.5	5530.5	5530.5	5530.5	5530.5	5530.5	5530.5
2.5°	5828.2	5834.5	5842.4	5853.4	5861.3	5837.7	5804.6	5766.8	5758.9	5678.6	5580.9
5°	5516.3	5525.8	5595.1	5632.9	5718.0	5795.1	5844.0	5850.3	5847.1	5771.5	5615.6
7.5°	5072.1	5098.9	5166.6	5232.8	5391.9	5538.4	5711.7	5832.9	5840.8	5820.3	5626.6
10°	4711.4	4728.7	4763.4	4894.1	5026.4	5250.1	5492.7	5721.1	5740.0	5821.9	5617.1
12.5°	4429.4	4454.6	4497.2	4598.0	4757.1	4968.2	5243.8	5551.0	5590.4	5792.0	5590.4
15°	4232.5	4245.1	4287.7	4386.9	4541.3	4736.6	5015.4	5373.0	5407.6	5752.6	5585.6
17.5°	4139.6	4153.8	4183.7	4262.5	4390.1	4571.2	4843.7	5229.6	5273.7	5727.4	5603.0
20°	4164.8	4177.4	4179.0	4219.9	4306.6	4459.4	4717.7	5095.8	5152.5	5711.7	5631.3
22.5°	4308.2	4309.7	4290.8	4271.9	4301.9	4412.1	4640.5	5010.7	5069.0	5708.5	5664.4
25°	4522.4	4527.1	4495.6	4429.4	4369.6	4426.3	4623.2	4955.6	5007.5	5700.6	5684.9
27.5°	4818.5	4816.9	4807.5	4697.2	4527.1	4489.3	4637.4	4925.6	4969.7	5678.6	5692.8
30°	5232.8	5220.2	5199.7	5075.3	4815.4	4642.1	4697.2	4906.7	4947.7	5647.1	5672.3
32.5°	5640.8	5688.0	5684.9	5566.7	5242.2	4914.6	4821.7	4931.9	4961.9	5626.6	5642.3
35°	6116.5	6114.9	6236.2	6192.1	5812.5	5262.7	5034.3	5015.4	5039.0	5640.8	5628.2
37.5°	6557.5	6598.5	6787.5	6833.2	6486.6	5754.2	5335.2	5195.0	5202.9	5736.9	5662.8
40°	7107.3	7186.0	7468.0	7620.8	7315.2	6483.5	5779.4	5524.2	5525.8	5973.1	5793.6
42.5°	7816.1	7940.6	8203.6	8458.8	8295.0	7346.7	6445.7	6045.6	6042.4	6389.0	6092.9
45°	8677.7	8764.4	9063.7	9468.5	9364.5	8551.7	7416.0	6853.7	6812.7	7071.0	6623.7
47.5°	9421.2	9539.4	9843.4	10304.9	10777.5	10023.0	8575.4	7964.2	7937.4	8156.4	7534.2
50°	9745.7	9849.7	10169.5	10816.9	11962.0	11954.1	10301.8	9585.1	9539.4	9657.5	8942.4
52.5°	9389.7	9487.4	9810.3	10616.8	12519.6	14307.5	12803.2	11618.6	11563.5	11412.3	10624.7
55°	8170.5	8250.9	8728.2	9654.4	12305.4	15876.4	16249.7	14131.1	13916.8	13329.3	12529.1
57.5°	6505.6	6464.6	6760.7	7836.6	11048.4	16402.5	19787.6	17261.0	16878.2	14986.4	14140.5
60°	4508.2	4634.2	4753.9	5462.8	8307.6	15490.5	21988.1	21195.8	20691.7	16616.7	15684.2
62.5°	3314.2	3397.7	3476.5	3804.1	5223.3	12368.4	22377.2	25237.8	24790.4	18347.9	17157.0
65°	2621.1	2627.4	2658.9	2981.8	3441.8	8042.9	20507.5	27517.1	27402.1	20014.4	17754.0
66°	2388.0	2389.6	2438.4	2784.9	3089.0	6549.7	19009.4	27690.3	27753.3	20414.5	17579.2
67.5°	2087.1	2080.8	2151.7	2503.0	2813.3	4722.4	16328.5	26987.8	27361.1	20721.7	16950.7
70°	1617.7	1609.8	1696.5	2099.7	2591.2	3150.4	10853.1	23172.7	23774.4	20093.2	14997.4
72.5°	1077.4	1083.7	1231.8	1657.1	2473.1	2773.9	6529.2	17628.0	18478.6	16593.1	11798.2
75°	628.5	639.5	808.1	1231.8	2147.0	2644.8	3695.4	12570.0	13113.5	11458.0	7349.9
77.5°	329.2	333.9	452.1	812.8	1646.1	2455.7	2462.0	8030.3	8285.5	5568.3	2909.4
80°	174.8	170.1	242.6	489.9	1132.6	2156.4	1997.3	4251.4	4420.0	1654.0	735.6
82.5°	66.2	72.5	129.2	321.3	669.5	1548.4	1720.1	1879.2	1820.9	363.9	308.7
85°	12.6	15.8	55.1	190.6	337.1	647.4	1268.0	921.5	853.8	137.0	178.0
87.5°	1.6	3.2	15.8	45.7	48.8	219.0	374.9	255.2	220.5	50.4	74.0
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°	5530.5	5530.5	5530.5	5530.5	5530.5	5530.5	5530.5	5530.5	5530.5	5530.5	5530.5
2.5°	5533.7	5491.1	5349.4	5209.2	5065.8	4936.7	4848.4	4705.1	4668.9	4616.9	4587.0
5°	5522.6	5423.4	5150.9	4853.2	4575.9	4276.7	4048.2	3827.7	3709.6	3649.7	3627.7
7.5°	5491.1	5333.6	4908.3	4442.0	3997.8	3550.5	3161.4	2865.3	2674.7	2543.9	2455.7
10°	5428.1	5210.7	4626.3	3985.2	3314.2	2723.5	2230.5	1855.6	1565.7	1474.4	1477.5
12.5°	5363.5	5073.7	4311.3	3478.0	2646.3	1901.3	1378.3	1082.2	943.5	897.9	888.4
15°	5303.7	4943.0	4002.6	2986.6	1970.6	1231.8	888.4	784.4	746.6	738.8	737.2
17.5°	5272.2	4821.7	3673.4	2424.2	1375.1	836.4	712.0	683.6	672.6	664.7	661.6
20°	5245.4	4716.1	3358.3	1898.1	940.4	685.2	638.0	611.2	592.3	584.4	579.7
22.5°	5226.5	4607.4	3032.2	1469.7	719.9	608.0	565.5	530.8	504.1	494.6	488.3
25°	5198.1	4487.7	2703.0	1074.3	606.4	540.3	491.5	450.5	415.9	398.5	395.4
27.5°	5157.2	4352.3	2342.3	795.5	541.9	480.4	420.6	370.2	335.5	316.6	318.2
30°	5091.0	4210.5	1981.6	631.7	489.9	419.0	354.4	305.6	272.5	258.3	256.8
32.5°	5012.3	4038.8	1650.8	541.9	442.6	363.9	296.1	253.6	228.4	217.4	215.8
35°	4938.2	3865.5	1313.7	486.7	393.8	313.5	248.9	212.7	193.7	184.3	185.9
37.5°	4897.3	3711.2	1023.9	442.6	354.4	269.4	214.2	182.7	165.4	157.5	155.9
40°	4924.1	3585.1	814.4	403.2	310.3	231.6	184.3	157.5	140.2	129.2	129.2
42.5°	5050.1	3530.0	656.9	365.4	269.4	200.0	160.7	135.5	116.6	105.5	107.1
45°	5434.4	3588.3	549.7	330.8	231.6	173.3	138.6	111.8	94.5	86.6	85.1
47.5°	6072.4	3807.2	475.7	294.6	198.5	148.1	116.6	92.9	75.6	69.3	67.7
50°	7187.6	4259.3	420.6	258.3	168.5	126.0	96.1	74.0	59.9	53.6	53.6
52.5°	8721.8	5245.4	381.2	217.4	141.8	107.1	78.8	59.9	47.3	42.5	41.0
55°	10325.4	6285.0	360.7	182.7	118.1	88.2	63.0	47.3	36.2	31.5	29.9
57.5°	11867.5	7101.0	337.1	148.1	94.5	67.7	48.8	36.2	25.2	22.1	20.5
60°	13346.6	7761.0	286.7	118.1	74.0	48.8	36.2	25.2	17.3	14.2	14.2
62.5°	14669.8	8145.3	225.3	94.5	56.7	34.7	23.6	18.9	12.6	9.5	9.5
65°	14824.2	7646.0	170.1	72.5	41.0	22.1	14.2	14.2	9.5	6.3	6.3
66°	14513.8	7222.3	149.6	66.2	36.2	18.9	12.6	11.0	7.9	4.7	4.7
67.5°	13820.8	6499.3	129.2	56.7	29.9	14.2	9.5	9.5	6.3	3.2	3.2
70°	11941.5	5308.4	102.4	42.5	22.1	11.0	6.3	6.3	4.7	3.2	3.2
72.5°	9101.5	3963.2	83.5	31.5	15.8	7.9	4.7	4.7	4.7	3.2	3.2
75°	5489.6	2134.4	64.6	23.6	14.2	6.3	3.2	4.7	6.3	4.7	3.2
77.5°	2022.5	726.2	50.4	18.9	11.0	6.3	3.2	3.2	6.3	4.7	4.7
80°	496.2	189.0	36.2	15.8	11.0	6.3	3.2	3.2	6.3	6.3	6.3
82.5°	230.0	80.3	25.2	14.2	11.0	6.3	3.2	3.2	4.7	6.3	6.3
85°	132.3	37.8	20.5	15.8	11.0	6.3	3.2	3.2	4.7	6.3	6.3
87.5°	53.6	18.9	18.9	15.8	12.6	7.9	3.2	3.2	3.2	4.7	4.7
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)