

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: P454522

Luminaire Tested: **GALN-SA5C-827-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25334 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

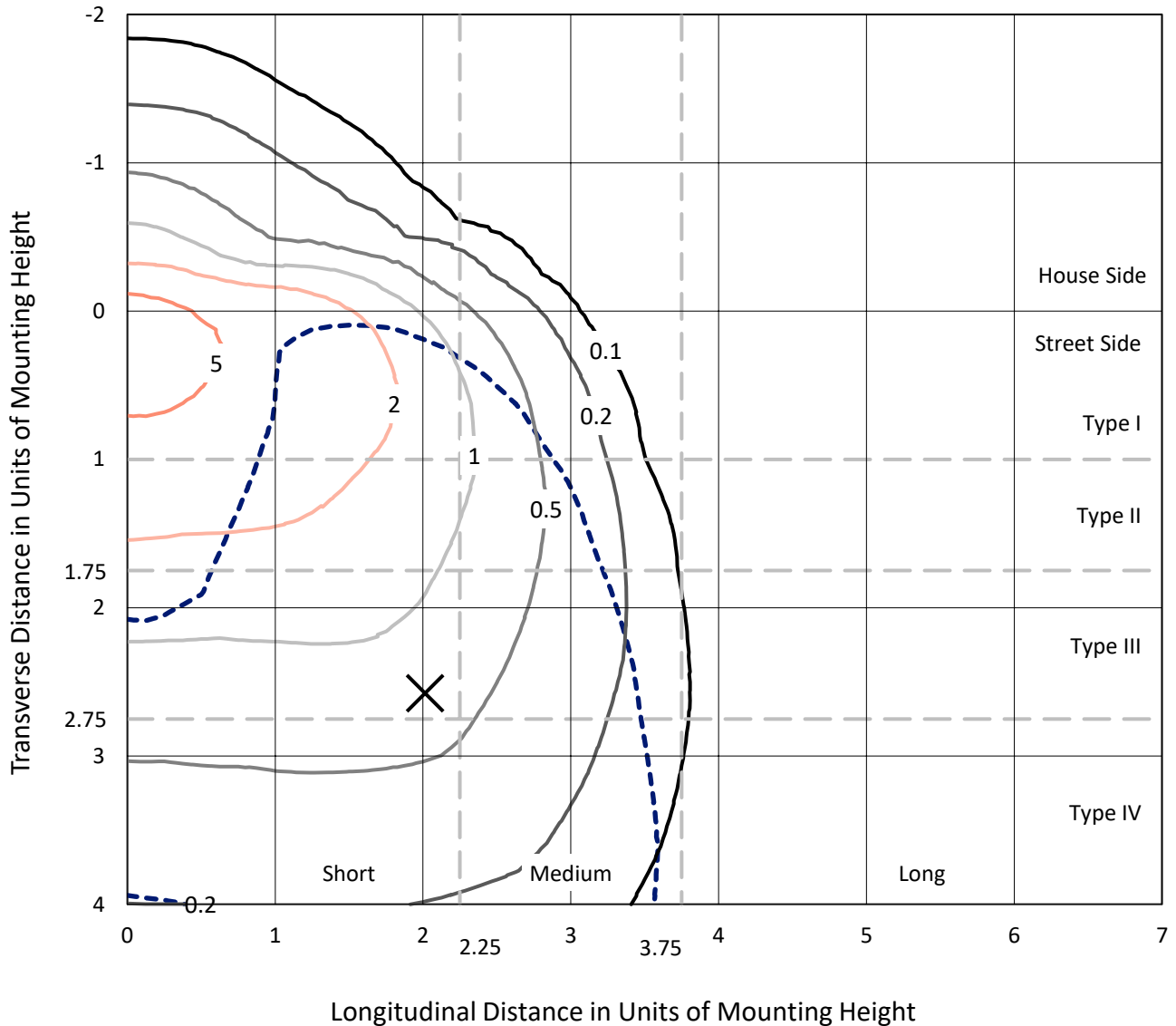
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

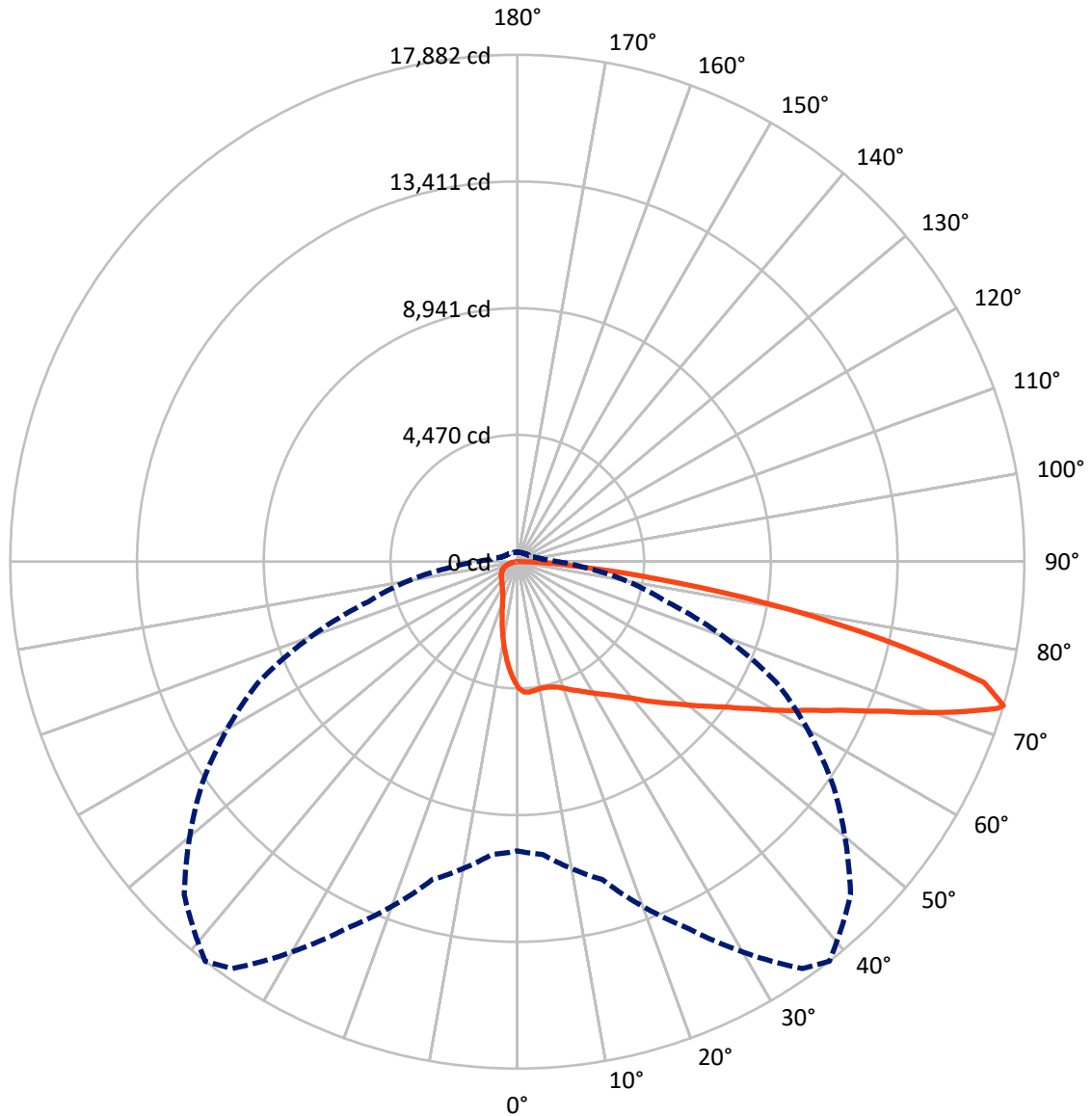
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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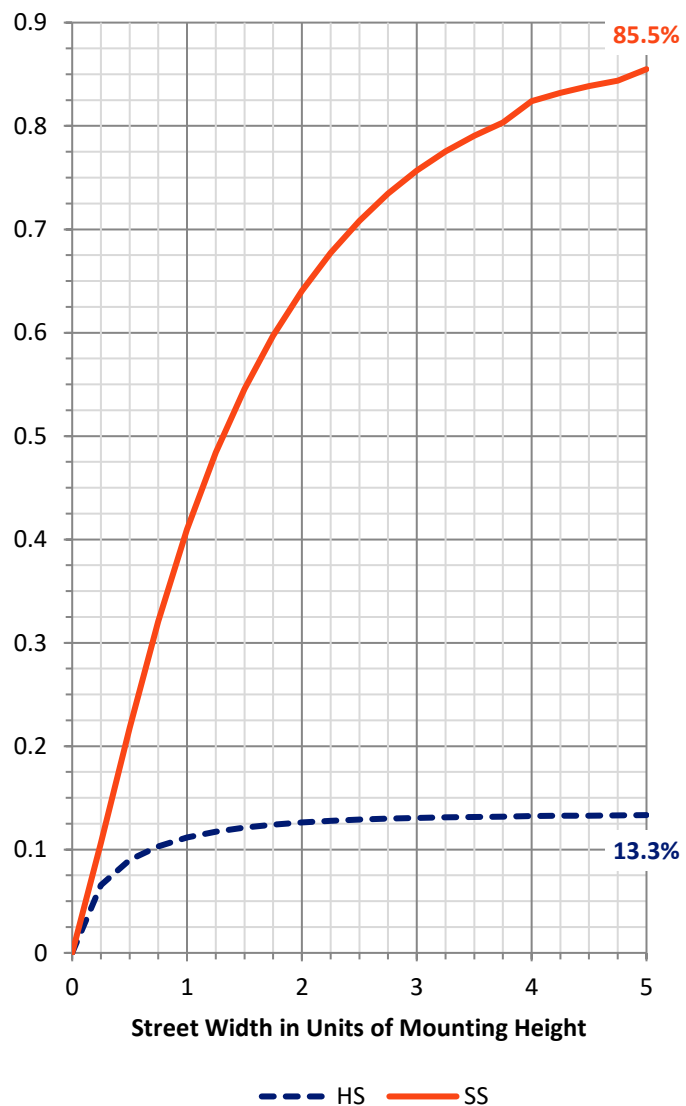
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3405.6	0.0	3405.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	21928.4	0.0	21928.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	25334.0	0.0	25334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.5	1.5
10°-20°	996.2	3.9
20°-30°	1551.3	6.1
30°-40°	2275.5	9.0
40°-50°	3375.4	13.3
50°-60°	4782.3	18.9
60°-70°	6066.4	23.9
70°-80°	5049.9	19.9
80°-90°	848.5	3.3
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°	25334.0	100.0
0°-180°	25334.0	100.0

Coefficient of Utilization



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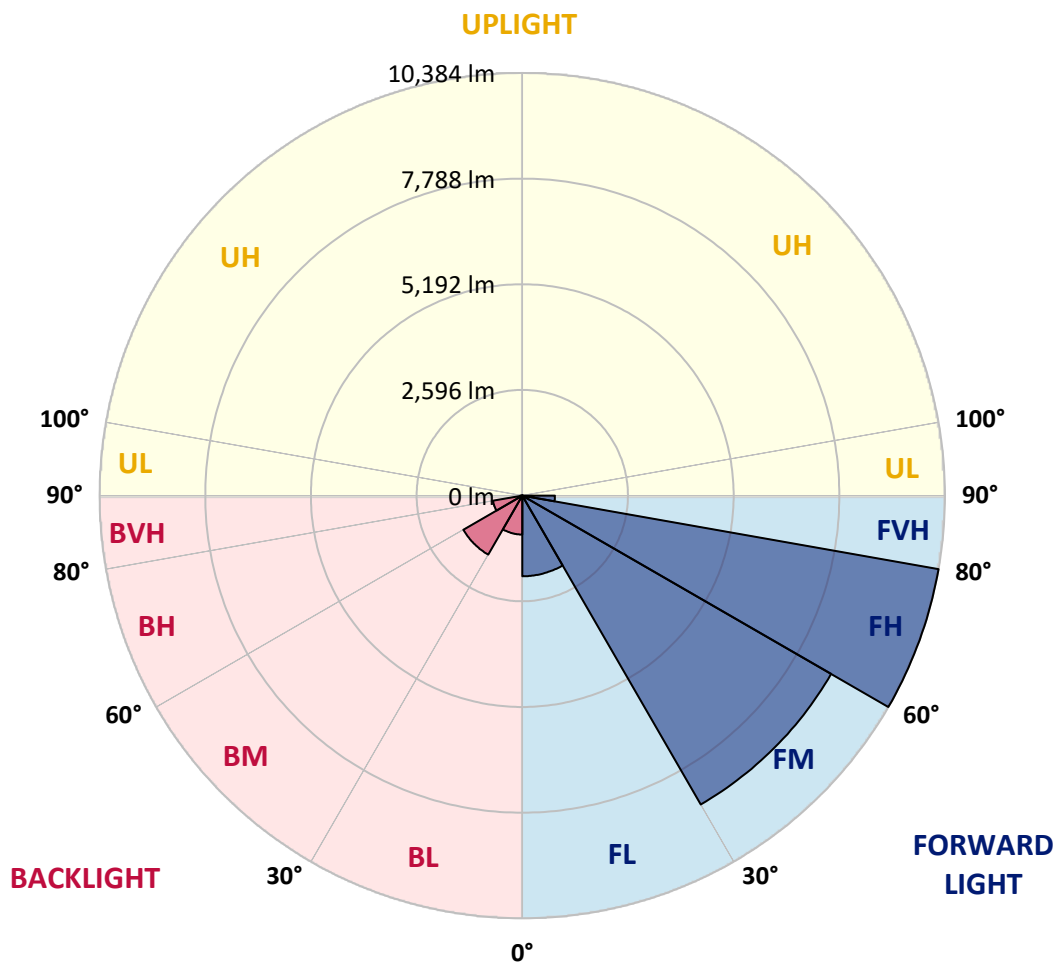
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1980.4	7.8			
FM	(30°-60°)	8761.2	34.6			
FH	(60°-80°)	10384.3	41.0			G4/12000
FVH	(80°-90°)	802.4	3.2			G5
BL	(0°-30°)	955.7	3.8	B2/1000		
BM	(30°-60°)	1672.0	6.6	B2/2500		
BH	(60°-80°)	732.0	2.9	B2/1000		G2/1000
BVH	(80°-90°)	46.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4450.8	4450.8	4450.8	4450.8	4450.8	4450.8	4450.8	4450.8	4450.8	4450.8	4450.8
2.5°	4629.6	4652.5	4641.0	4625.3	4615.3	4605.3	4591.0	4549.5	4516.6	4480.8	4425.0
5°	4663.9	4678.2	4668.2	4648.2	4625.3	4615.3	4588.1	4533.7	4480.8	4420.7	4337.7
7.5°	4643.9	4649.6	4638.2	4613.8	4593.8	4575.2	4543.7	4483.7	4419.3	4346.3	4237.6
10°	4572.4	4593.8	4593.8	4573.8	4553.8	4543.7	4512.3	4455.0	4396.4	4313.4	4184.7
12.5°	4513.7	4536.6	4555.2	4549.5	4548.0	4548.0	4523.7	4480.8	4412.1	4333.4	4180.4
15°	4473.6	4500.8	4540.9	4563.8	4578.1	4582.4	4572.4	4535.2	4465.1	4373.5	4197.5
17.5°	4465.1	4498.0	4570.9	4621.0	4658.2	4656.8	4653.9	4602.4	4525.1	4430.7	4219.0
20°	4503.7	4546.6	4648.2	4726.9	4781.2	4771.2	4755.5	4688.2	4598.1	4492.2	4239.0
22.5°	4619.6	4663.9	4775.5	4861.4	4914.3	4914.3	4867.1	4778.4	4682.5	4563.8	4266.2
25°	4785.5	4834.2	4952.9	5040.2	5064.5	5045.9	4998.7	4891.4	4781.2	4666.8	4323.4
27.5°	4988.7	5047.3	5157.5	5230.5	5223.3	5209.0	5160.4	5023.0	4912.9	4808.4	4420.7
30°	5241.9	5284.8	5399.3	5416.4	5390.7	5387.8	5319.2	5181.8	5078.8	4998.7	4559.5
32.5°	5480.8	5519.5	5611.0	5618.2	5572.4	5578.1	5513.7	5387.8	5329.2	5300.6	4792.7
35°	5734.0	5754.1	5832.8	5824.2	5794.1	5789.8	5764.1	5643.9	5662.5	5714.0	5123.2
37.5°	5945.8	5985.8	6030.2	6037.3	6035.9	6050.2	6067.4	6010.2	6117.5	6279.1	5556.6
40°	6140.4	6174.7	6240.5	6263.4	6319.2	6347.8	6406.5	6407.9	6655.4	6921.5	6090.3
42.5°	6272.0	6330.6	6453.7	6495.2	6631.1	6716.9	6804.2	6897.2	7256.3	7598.2	6719.8
45°	6386.4	6463.7	6668.3	6797.0	6981.6	7086.0	7270.6	7465.1	7981.6	8429.4	7359.3
47.5°	6559.5	6628.2	6862.8	7090.3	7369.3	7489.5	7765.6	8056.0	8731.3	9222.0	7971.6
50°	6799.9	6841.4	7080.3	7450.8	7807.1	7961.6	8326.4	8745.6	9532.4	10004.5	8509.5
52.5°	7107.5	7124.6	7314.9	7808.5	8277.7	8469.5	8953.0	9442.3	10233.4	10684.1	8935.8
55°	7470.9	7442.2	7591.0	8187.6	8815.7	9066.0	9585.4	10147.6	11021.7	11233.5	9246.3
57.5°	7830.0	7785.6	7904.3	8648.3	9479.5	9781.4	10386.5	10874.4	11725.6	11747.1	9463.8
60°	8210.5	8177.6	8319.2	9189.1	10293.5	10651.2	11210.6	11628.3	12406.6	12104.7	9498.1
62.5°	8601.1	8548.1	8749.9	9797.1	11210.6	11535.3	12077.6	12429.5	13074.7	12237.8	9167.6
65°	8980.2	8955.9	9267.8	10519.6	12255.0	12624.1	13150.5	13389.5	13609.8	12037.5	8347.8
67.5°	9383.6	9432.3	9930.1	11483.8	13616.9	14080.5	14648.4	14423.8	13762.9	11089.0	7030.2
70°	9998.8	10030.3	10800.0	12747.1	15372.3	15931.7	16206.4	14791.5	13024.6	9287.8	5284.8
72.5°	10263.5	10402.3	11576.8	14073.3	17366.7	17708.6	16730.0	13971.7	10850.1	6309.2	2776.9
73°	10204.8	10370.8	11612.6	14275.0	17522.6	17881.7	16618.4	13549.7	10086.1	5433.6	2380.6
75°	9473.8	9678.4	11147.6	14106.2	17219.3	17004.7	14824.4	11548.2	6815.6	2470.7	1084.4
77.5°	7475.2	7533.8	8832.8	11390.8	13559.7	13162.0	11094.7	7217.6	2784.0	918.5	615.2
80°	3749.7	3965.8	4978.7	6525.2	9067.5	8937.3	7003.0	3413.5	1160.3	539.4	407.7
82.5°	1804.1	1957.1	2425.0	3181.8	5010.1	4891.4	3467.9	1865.6	736.8	314.7	240.3
85°	1161.7	1276.1	1543.7	1517.9	2060.1	1967.1	1558.0	1412.1	436.3	164.5	167.4
87.5°	766.8	839.8	1007.2	805.5	749.7	678.1	688.1	795.4	85.8	62.9	22.9
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°	4450.8	4450.8	4450.8	4450.8	4450.8	4450.8	4450.8	4450.8	4450.8	4450.8	4450.8
2.5°	4402.1	4383.5	4322.0	4261.9	4204.7	4150.3	4114.6	4067.3	4035.9	4044.4	4057.3
5°	4292.0	4250.5	4141.7	4035.9	3935.7	3817.0	3721.1	3643.9	3585.2	3563.8	3559.5
7.5°	4176.1	4106.0	3950.0	3768.3	3598.1	3450.7	3280.5	3196.1	3097.4	3063.0	3051.6
10°	4106.0	4011.5	3792.7	3539.4	3283.3	3038.7	2854.1	2703.9	2568.0	2542.3	2529.4
12.5°	4085.9	3961.5	3666.8	3340.6	3000.1	2699.6	2426.4	2229.0	2097.3	2067.3	2022.9
15°	4074.5	3920.0	3549.4	3140.3	2708.2	2342.0	2054.4	1824.1	1703.9	1623.8	1625.2
17.5°	4064.5	3872.8	3417.8	2921.4	2456.4	2034.4	1716.8	1509.3	1399.2	1356.3	1352.0
20°	4050.2	3817.0	3266.2	2691.1	2168.9	1754.0	1466.4	1311.9	1237.5	1201.7	1200.3
22.5°	4044.4	3762.6	3117.4	2456.4	1914.2	1537.9	1300.5	1191.7	1144.5	1120.2	1120.2
25°	4058.8	3724.0	2961.4	2233.2	1688.2	1353.4	1186.0	1111.6	1084.4	1071.6	1067.3
27.5°	4103.1	3706.8	2806.9	2010.1	1480.7	1227.5	1108.8	1057.3	1037.2	1027.2	1028.6
30°	4187.5	3705.4	2655.3	1789.7	1326.2	1131.6	1047.2	1011.5	995.7	990.0	988.6
32.5°	4323.4	3736.9	2506.5	1608.1	1196.0	1051.5	990.0	964.3	957.1	952.8	951.4
35°	4553.8	3825.6	2359.1	1442.1	1095.9	980.0	935.6	922.8	912.8	917.0	918.5
37.5°	4864.2	3978.6	2218.9	1311.9	1020.1	927.1	889.9	878.4	872.7	877.0	881.3
40°	5280.5	4199.0	2101.6	1207.5	965.7	882.7	849.8	839.8	834.1	841.2	842.7
42.5°	5739.8	4453.6	2004.3	1125.9	921.3	845.5	814.0	802.6	798.3	802.6	804.0
45°	6211.9	4749.8	1954.3	1067.3	884.1	818.3	785.4	772.6	762.5	759.7	764.0
47.5°	6676.8	5007.3	1952.8	1031.5	854.1	794.0	758.2	743.9	731.1	723.9	722.5
50°	7056.0	5211.9	1987.2	1015.8	828.3	766.8	731.1	716.8	699.6	685.3	688.1
52.5°	7342.1	5344.9	2002.9	1008.6	814.0	738.2	702.4	689.6	669.5	650.9	650.9
55°	7526.7	5376.4	1964.3	1001.5	802.6	708.2	669.5	658.1	638.1	619.5	619.5
57.5°	7589.6	5279.1	1825.5	984.3	791.1	682.4	636.6	626.6	610.9	592.3	589.4
60°	7443.7	4950.1	1582.3	932.8	768.3	655.2	600.9	596.6	590.9	575.1	573.7
62.5°	6881.4	4251.9	1317.6	865.5	729.6	626.6	568.0	575.1	579.4	570.8	569.4
65°	5945.8	3452.2	1125.9	772.6	678.1	586.6	532.2	550.8	562.2	562.2	559.4
67.5°	4822.7	2651.0	948.5	692.4	613.7	532.2	492.1	506.5	515.0	512.2	519.3
70°	3427.8	1795.5	772.6	600.9	532.2	470.7	440.6	440.6	434.9	432.1	432.1
72.5°	1662.4	1025.8	626.6	502.2	453.5	402.0	377.7	367.7	356.2	354.8	347.6
73°	1389.2	919.9	598.0	483.6	434.9	392.0	364.8	349.1	341.9	336.2	334.8
75°	845.5	698.2	499.3	407.7	370.5	337.6	313.3	299.0	291.9	287.6	286.1
77.5°	556.5	520.8	387.7	311.9	283.3	263.2	253.2	238.9	234.6	228.9	228.9
80°	414.9	397.7	277.5	220.3	203.2	186.0	183.1	180.3	168.8	161.7	158.8
82.5°	267.5	283.3	188.8	147.4	128.8	114.5	115.9	120.2	108.7	98.7	95.9
85°	190.3	204.6	114.5	67.2	54.4	47.2	52.9	47.2	48.6	38.6	31.5
87.5°	31.5	54.4	20.0	8.6	4.3	2.9	0.0	0.0	0.0	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)