

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: P452433

Luminaire Tested: **GALN-SA3B-827-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452433  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-827-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10271 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

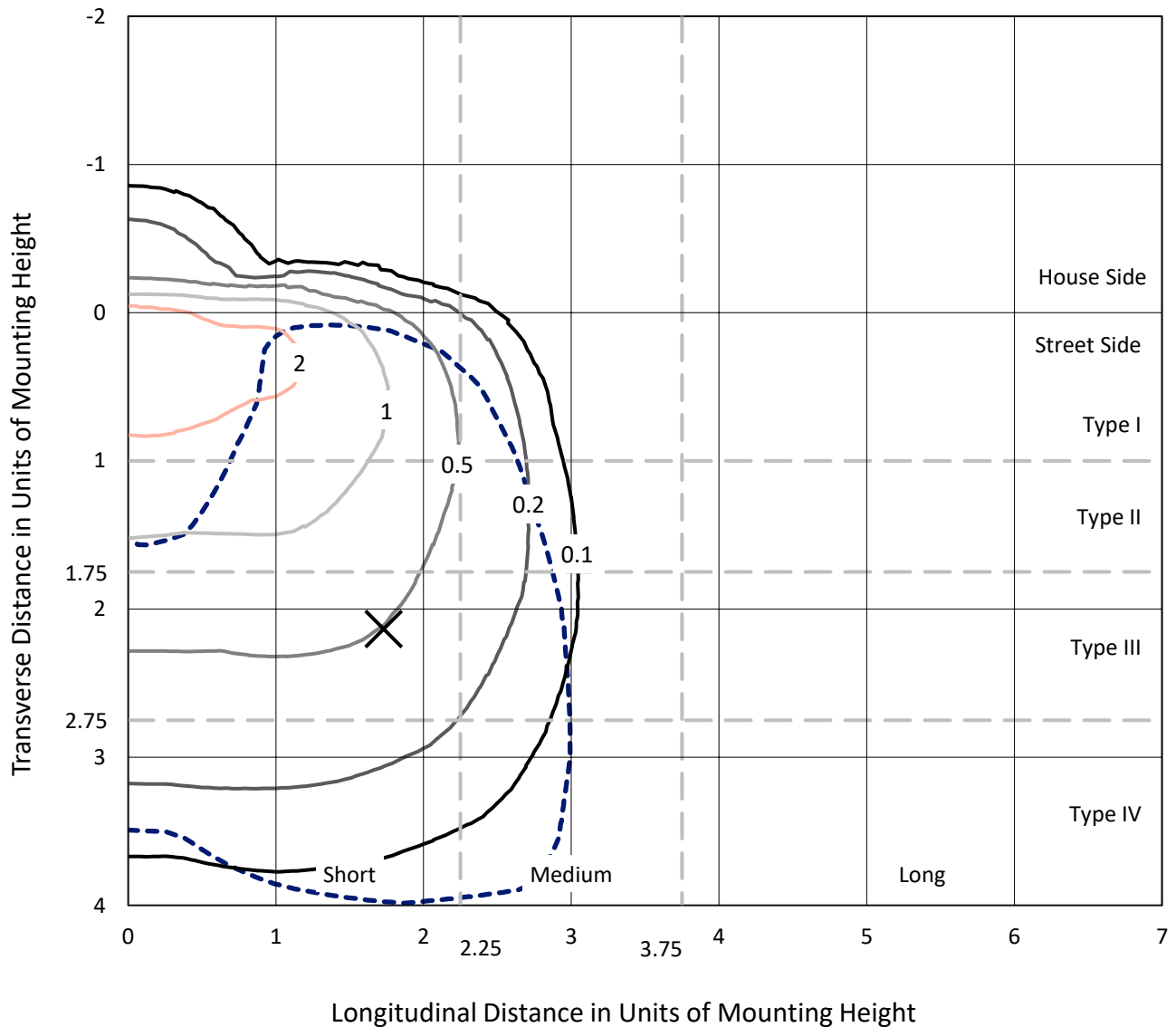
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

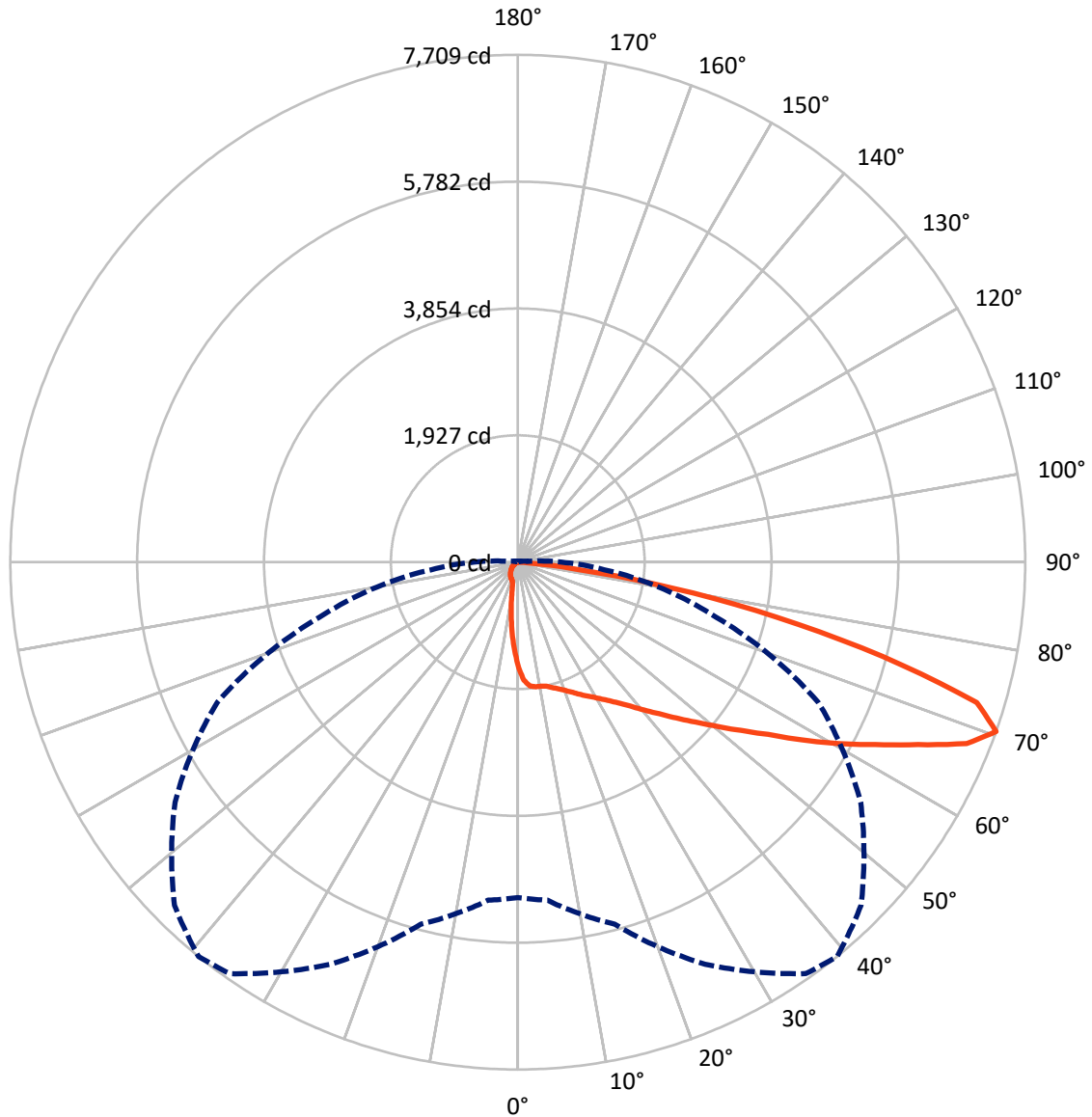
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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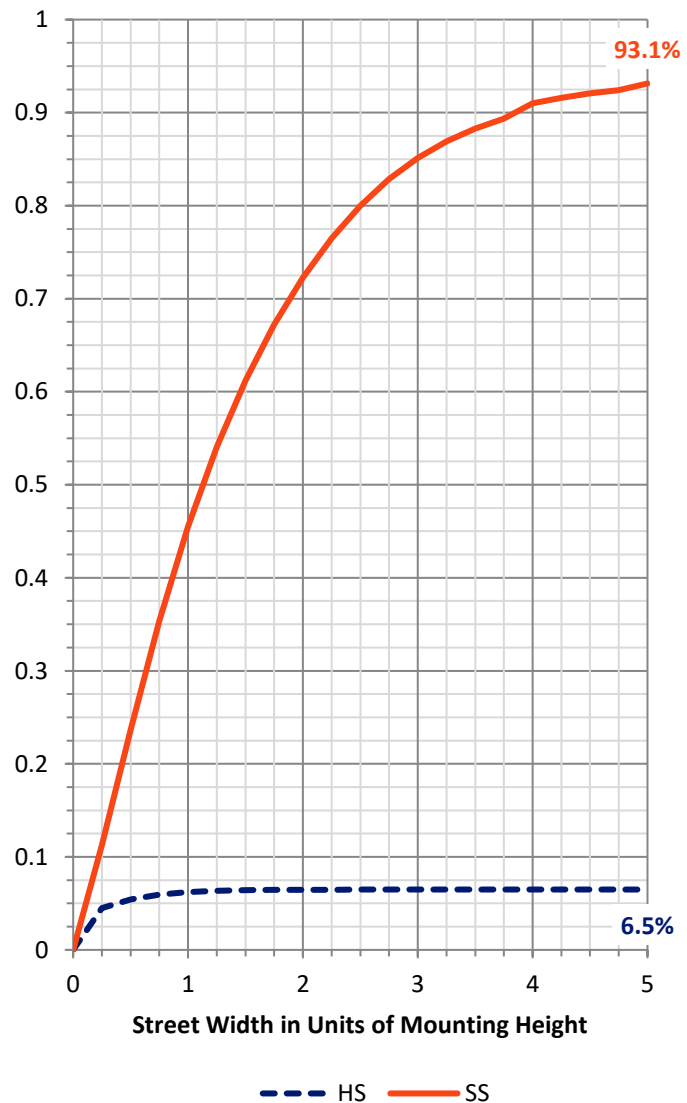
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	669.7	0.0	669.7
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	9601.3	0.0	9601.3
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	10271.0	0.0	10271.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.7	1.3
10°-20°	355.2	3.5
20°-30°	595.1	5.8
30°-40°	922.9	9.0
40°-50°	1462.6	14.2
50°-60°	2143.9	20.9
60°-70°	2748.0	26.8
70°-80°	1726.7	16.8
80°-90°	179.9	1.8
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°	10271.0	100.0
0°-180°	10271.0	100.0



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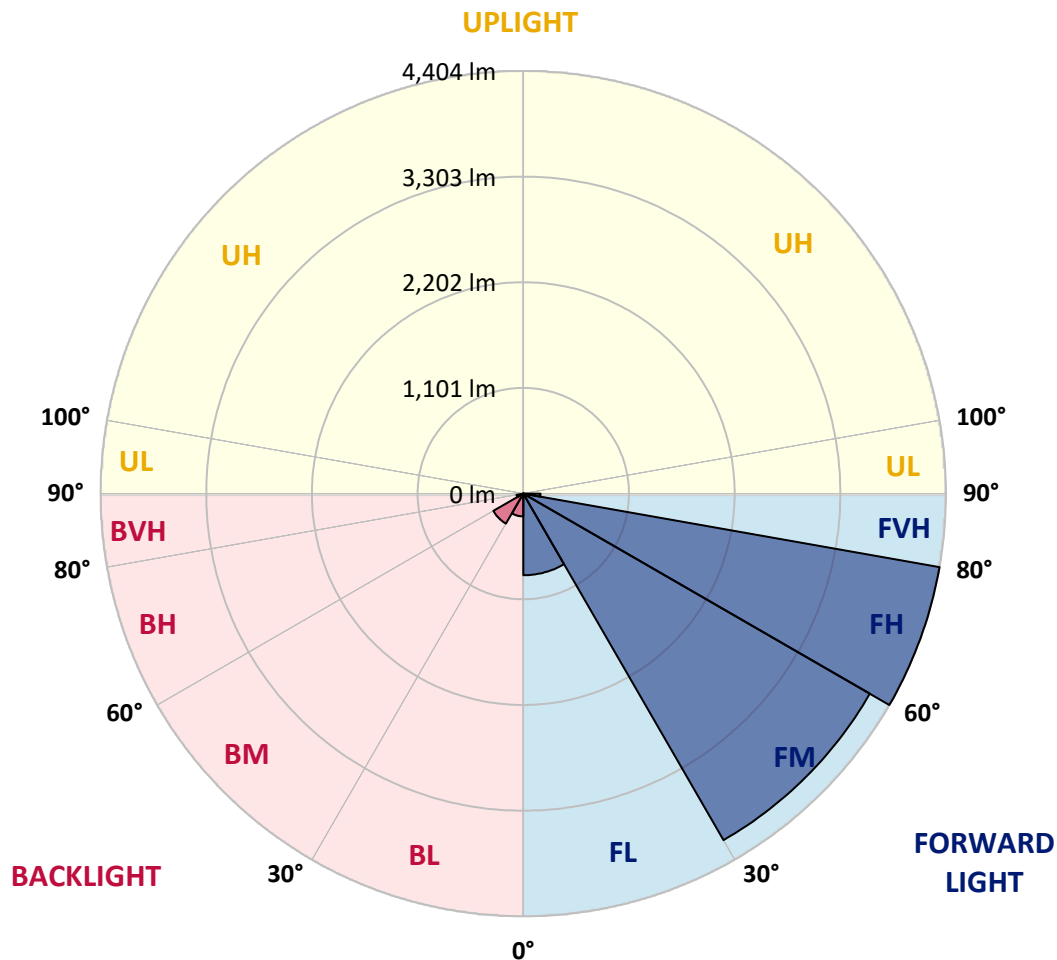
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	849.9	8.3			
FM (30°-60°)	4169.0	40.6			
FH (60°-80°)	4403.9	42.9			G2/5000
FVH (80°-90°)	178.6	1.7			G2/225
BL (0°-30°)	237.1	2.3	B1/500		
BM (30°-60°)	360.4	3.5	B1/1000		
BH (60°-80°)	70.8	0.7	B0/110		G0/110
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1602.6	1602.6	1602.6	1602.6	1602.6	1602.6	1602.6	1602.6	1602.6	1602.6	1602.6
2.5°	1851.8	1845.6	1837.3	1827.6	1800.0	1795.2	1778.6	1743.4	1701.3	1666.8	1619.2
5°	1939.4	1942.9	1936.7	1919.4	1899.4	1887.7	1867.0	1812.4	1757.9	1688.2	1610.2
7.5°	1959.5	1966.4	1958.8	1942.2	1922.9	1910.5	1893.9	1847.0	1783.5	1704.1	1597.1
10°	1957.4	1965.7	1960.8	1945.7	1929.8	1918.0	1900.1	1862.8	1811.8	1728.2	1601.2
12.5°	1953.9	1965.0	1964.3	1956.7	1943.6	1934.6	1923.6	1890.4	1842.8	1763.4	1624.0
15°	1944.3	1958.1	1970.5	1976.7	1977.4	1977.4	1963.6	1928.4	1882.8	1809.7	1653.7
17.5°	1948.4	1964.3	1995.3	2013.3	2025.7	2024.3	2009.8	1971.9	1921.5	1857.3	1684.8
20°	1974.0	1995.3	2038.8	2074.7	2087.1	2083.0	2063.7	2019.5	1962.2	1898.0	1715.1
22.5°	2036.8	2056.1	2110.6	2152.7	2161.7	2150.6	2123.0	2063.0	2011.2	1942.2	1751.7
25°	2130.6	2153.4	2203.8	2235.5	2235.5	2229.3	2190.7	2120.3	2066.4	2003.6	1799.3
27.5°	2244.5	2263.8	2313.5	2341.8	2325.3	2307.3	2268.7	2183.8	2132.0	2080.9	1856.6
30°	2359.8	2372.2	2424.6	2437.1	2419.8	2397.0	2355.6	2270.7	2225.2	2185.8	1939.4
32.5°	2468.8	2495.7	2539.2	2536.5	2513.0	2501.9	2464.0	2373.6	2348.0	2343.9	2055.4
35°	2577.9	2598.6	2637.2	2646.9	2626.2	2624.1	2596.5	2529.6	2530.2	2557.2	2236.2
37.5°	2671.7	2690.4	2735.9	2757.3	2761.5	2771.8	2760.8	2716.6	2779.4	2853.3	2475.7
40°	2750.4	2776.6	2834.6	2871.9	2914.7	2952.6	2954.7	2964.4	3090.7	3217.7	2788.4
42.5°	2811.8	2848.4	2932.6	3001.6	3099.7	3148.0	3186.6	3239.8	3452.3	3642.1	3156.9
45°	2891.9	2934.0	3038.9	3147.3	3300.5	3379.9	3433.7	3575.9	3877.5	4136.3	3535.2
47.5°	3024.4	3046.5	3153.5	3311.5	3513.1	3626.3	3731.2	3946.5	4333.7	4565.6	3849.9
50°	3194.9	3209.4	3290.2	3509.6	3770.5	3919.6	4110.8	4364.1	4807.2	4921.8	4028.0
52.5°	3383.3	3388.2	3448.9	3727.7	4059.0	4246.8	4460.7	4773.4	5193.0	5175.8	4146.0
55°	3602.1	3595.2	3647.0	3964.5	4400.7	4615.3	4864.5	5192.3	5527.8	5355.9	4213.6
57.5°	3852.7	3834.0	3884.4	4278.5	4838.3	5095.0	5348.3	5554.0	5787.3	5507.1	4246.1
60°	4114.9	4077.7	4137.7	4631.2	5353.8	5597.5	5808.0	5863.2	6060.6	5627.1	4190.2
62.5°	4324.1	4324.7	4436.6	5006.7	5883.9	6097.2	6209.0	6258.7	6295.9	5600.9	3896.1
65°	4650.5	4661.6	4840.3	5527.8	6497.5	6682.4	6759.1	6597.6	6306.3	5275.1	3454.4
67.5°	4987.3	5022.5	5349.7	6245.6	7206.3	7355.4	7256.7	6663.1	6024.7	4531.8	2619.3
70°	5097.1	5155.1	5694.1	6739.7	7631.5	7708.8	7374.7	6357.4	5036.3	3029.9	1318.3
72.5°	4670.5	4764.4	5496.0	6559.6	7360.2	7293.3	6598.2	5331.7	3201.8	1150.6	402.4
75°	3293.6	3335.0	4567.7	5441.5	5919.8	5730.0	5019.1	3437.2	1316.9	323.0	138.0
77.5°	1700.6	1680.6	2716.6	3610.4	4221.9	4025.2	3286.7	1779.3	499.0	134.6	85.6
80°	879.3	893.8	1175.4	1891.8	2577.2	2371.5	1752.4	824.8	265.7	74.5	65.6
82.5°	492.8	462.4	675.7	826.2	1205.1	944.9	672.2	583.9	116.0	44.9	62.1
85°	89.7	93.9	370.6	446.6	418.3	265.7	216.7	390.0	33.8	24.8	43.5
87.5°	1.4	1.4	71.8	128.4	81.4	37.3	68.3	55.9	6.9	9.7	7.6
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°	1602.6	1602.6	1602.6	1602.6	1602.6	1602.6	1602.6	1602.6	1602.6	1602.6	1602.6
2.5°	1595.0	1568.8	1519.8	1471.5	1410.1	1359.7	1325.9	1290.7	1254.8	1257.5	1265.8
5°	1567.4	1521.9	1425.2	1323.1	1225.1	1136.7	1049.8	971.8	940.0	911.1	912.4
7.5°	1539.8	1475.6	1334.1	1174.0	1025.6	875.2	766.1	676.4	628.8	592.9	582.5
10°	1527.4	1442.5	1250.6	1030.5	819.9	655.7	515.6	442.4	385.8	367.9	372.7
12.5°	1532.9	1425.9	1175.4	900.7	650.2	456.9	358.9	321.6	309.2	307.1	305.8
15°	1543.3	1414.2	1101.5	757.1	477.6	339.6	301.6	294.7	293.3	292.0	292.6
17.5°	1557.1	1403.9	1022.9	622.6	366.5	296.8	285.7	282.3	281.6	281.6	281.6
20°	1570.9	1392.1	935.2	502.5	305.8	280.2	273.3	271.2	270.6	270.6	269.9
22.5°	1586.8	1381.8	846.2	394.8	281.6	268.5	262.3	260.9	260.2	259.5	259.5
25°	1609.5	1368.7	751.6	323.0	266.4	257.4	251.2	249.8	249.2	246.4	247.1
27.5°	1639.9	1359.0	654.3	278.8	252.6	243.6	239.5	237.4	236.0	234.0	234.7
30°	1681.3	1350.7	550.8	254.7	236.7	229.1	225.0	223.6	222.2	220.2	220.2
32.5°	1753.1	1354.2	441.7	235.4	222.2	213.3	209.1	207.7	206.4	204.3	204.3
35°	1860.8	1374.2	353.4	218.8	205.0	196.0	191.9	191.9	189.8	187.0	186.4
37.5°	2036.8	1425.2	283.7	202.9	188.4	180.1	175.3	173.9	171.9	167.7	167.0
40°	2244.5	1504.6	238.8	187.0	173.2	165.0	160.8	156.7	151.2	147.0	146.3
42.5°	2505.4	1586.1	207.1	171.2	158.7	151.2	146.3	139.4	131.1	125.6	124.9
45°	2777.3	1660.6	185.7	156.7	144.9	138.7	133.2	122.2	111.8	104.9	104.2
47.5°	2980.3	1674.4	168.4	142.9	133.2	127.0	119.4	105.6	91.8	85.6	83.5
50°	3076.2	1607.5	150.5	129.1	121.5	114.6	104.9	89.0	73.9	66.3	64.9
52.5°	3110.0	1491.5	136.0	116.6	109.7	101.5	89.7	71.8	58.0	50.4	49.7
55°	3096.2	1345.2	122.9	104.9	95.9	86.3	74.5	57.3	42.8	36.6	35.2
57.5°	3023.7	1158.8	109.7	93.2	82.1	72.5	59.4	42.8	29.0	23.5	22.8
60°	2828.4	904.8	96.6	80.1	69.7	59.4	46.9	30.4	17.9	13.1	13.1
62.5°	2498.5	671.6	84.2	66.9	58.7	47.6	33.1	19.3	9.7	6.9	6.2
65°	2087.8	495.6	70.4	56.6	49.0	37.3	23.5	11.7	4.8	2.1	1.4
67.5°	1457.0	305.8	58.7	46.2	40.0	26.9	14.5	4.8	2.1	0.0	0.0
70°	661.9	145.6	44.9	35.2	30.4	19.3	7.6	2.8	1.4	0.0	0.0
72.5°	205.7	76.6	31.7	25.5	20.7	12.4	4.1	2.1	1.4	0.0	0.0
75°	95.2	49.0	20.0	13.8	11.7	6.2	2.8	1.4	0.7	0.0	0.0
77.5°	71.1	38.0	11.7	7.6	6.2	4.1	2.1	1.4	0.7	0.0	0.0
80°	62.1	19.3	6.9	4.8	3.5	2.8	1.4	0.7	0.0	0.0	0.0
82.5°	55.9	9.7	4.1	2.8	2.1	1.4	0.7	0.7	0.0	0.0	0.0
85°	30.4	5.5	2.8	2.1	1.4	0.7	0.7	0.0	0.0	0.0	0.0
87.5°	5.5	2.8	2.1	1.4	1.4	0.7	0.7	0.7	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)