

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: P452085

Luminaire Tested: **GALN-SA3A-730-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452085  
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-SA3A-730-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 615mA 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: 10227 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

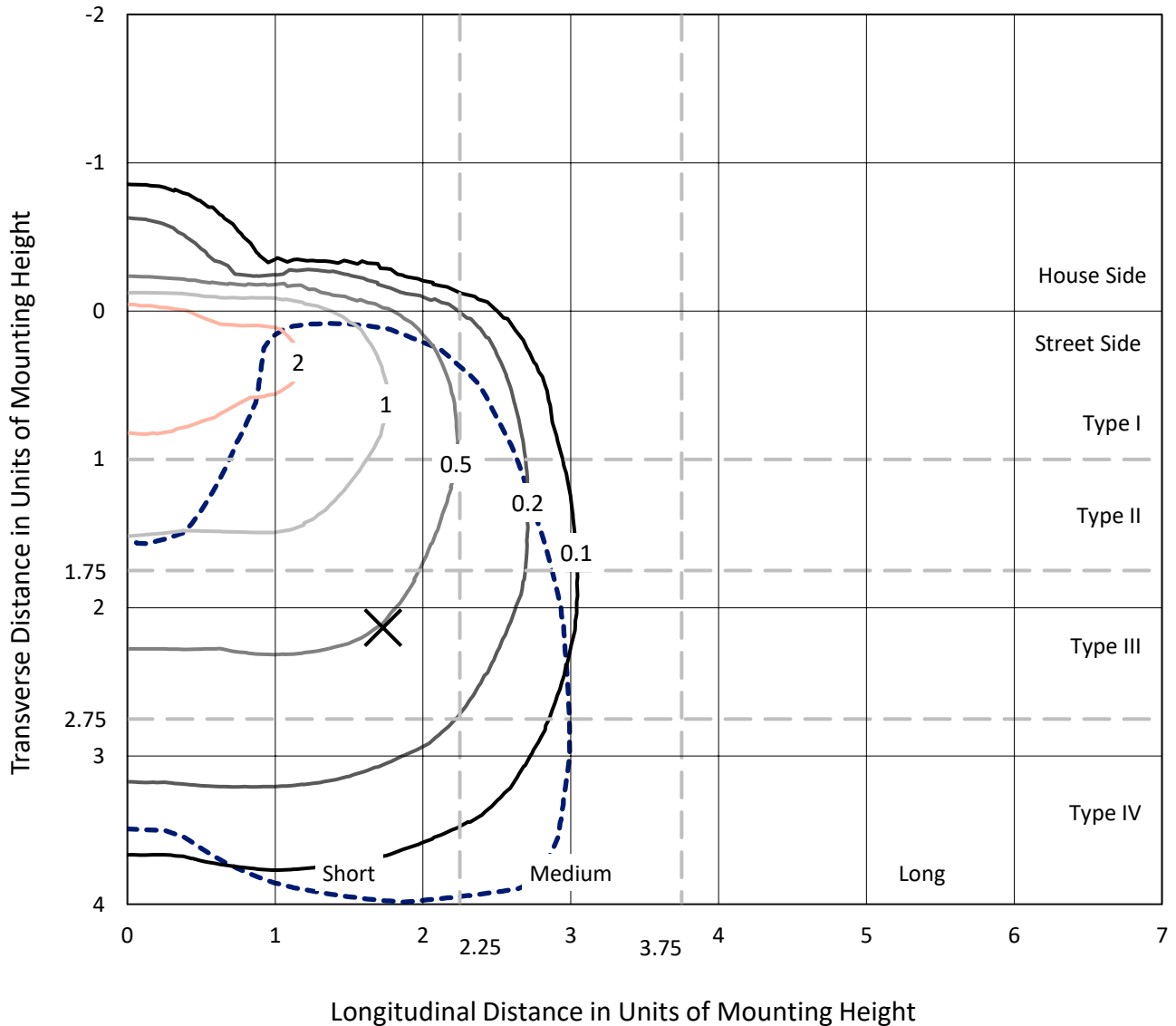
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P452085  
 CATALOG NUMBER: GALN-SA3A-730-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

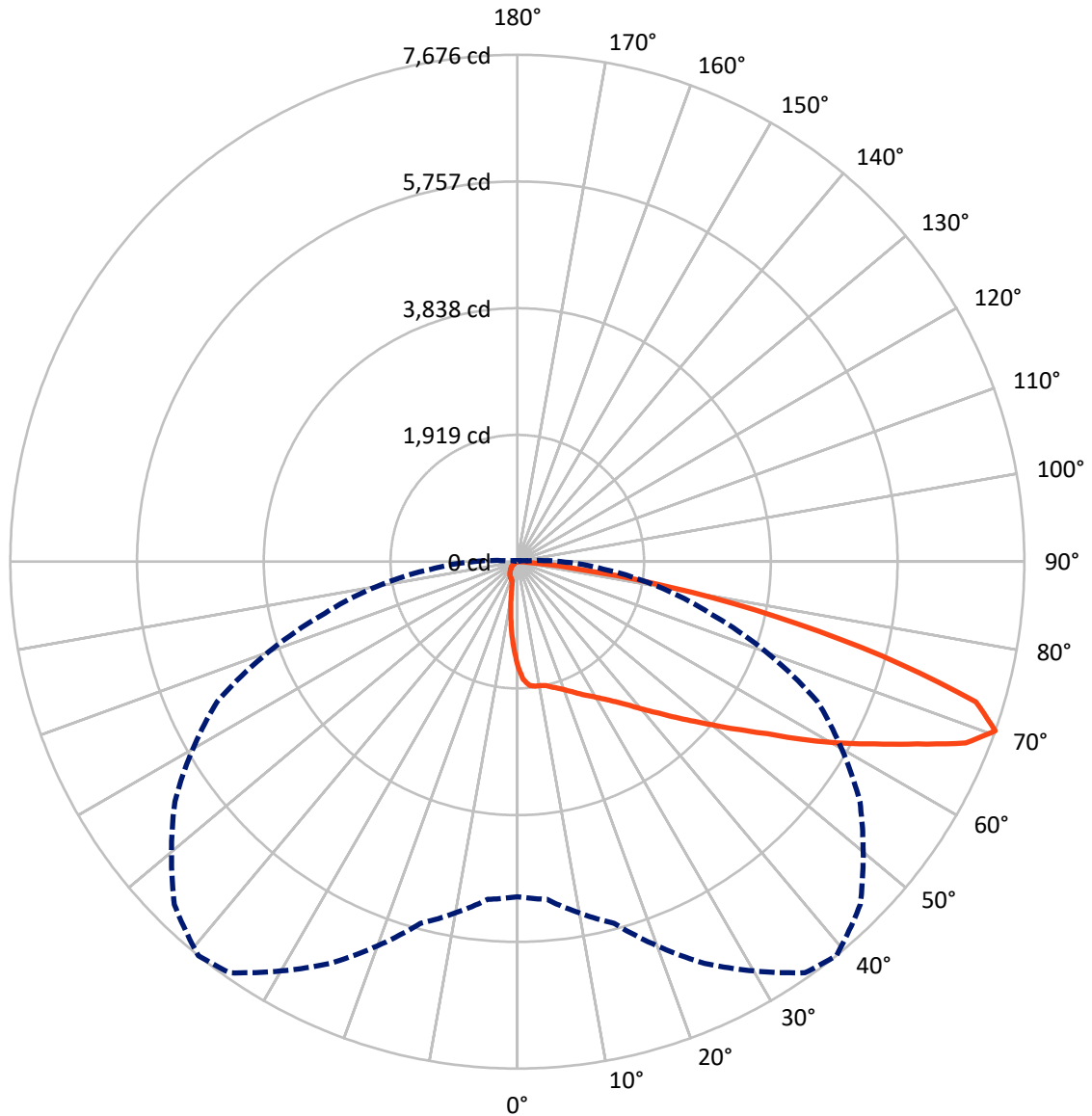
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P452085  
CATALOG NUMBER: GALN-SA3A-730-U-SL4-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P452085  
 CATALOG NUMBER: GALN-SA3A-730-U-SL4-HSS

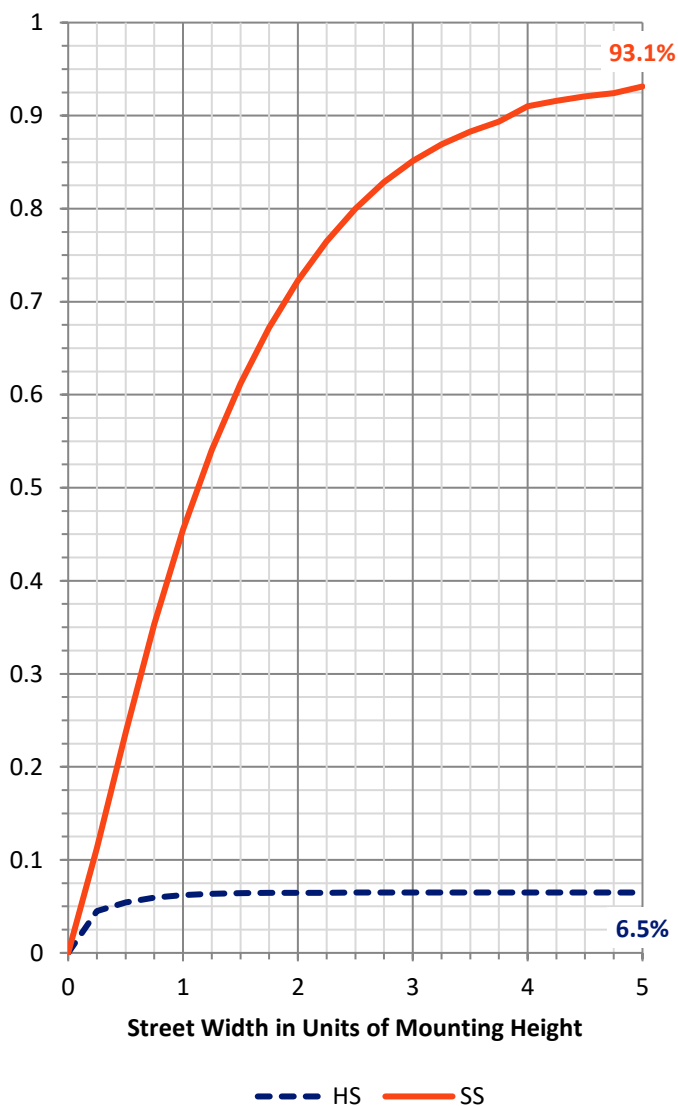
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	666.9	0.0	666.9
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	9560.2	0.0	9560.2
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	10227.0	0.0	10227.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.1	1.3
10°-20°	353.7	3.5
20°-30°	592.5	5.8
30°-40°	919.0	9.0
40°-50°	1456.3	14.2
50°-60°	2134.7	20.9
60°-70°	2736.2	26.8
70°-80°	1719.3	16.8
80°-90°	179.1	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°	10227.0	100.0
0°-180°	10227.0	100.0

**Coefficient of Utilization**

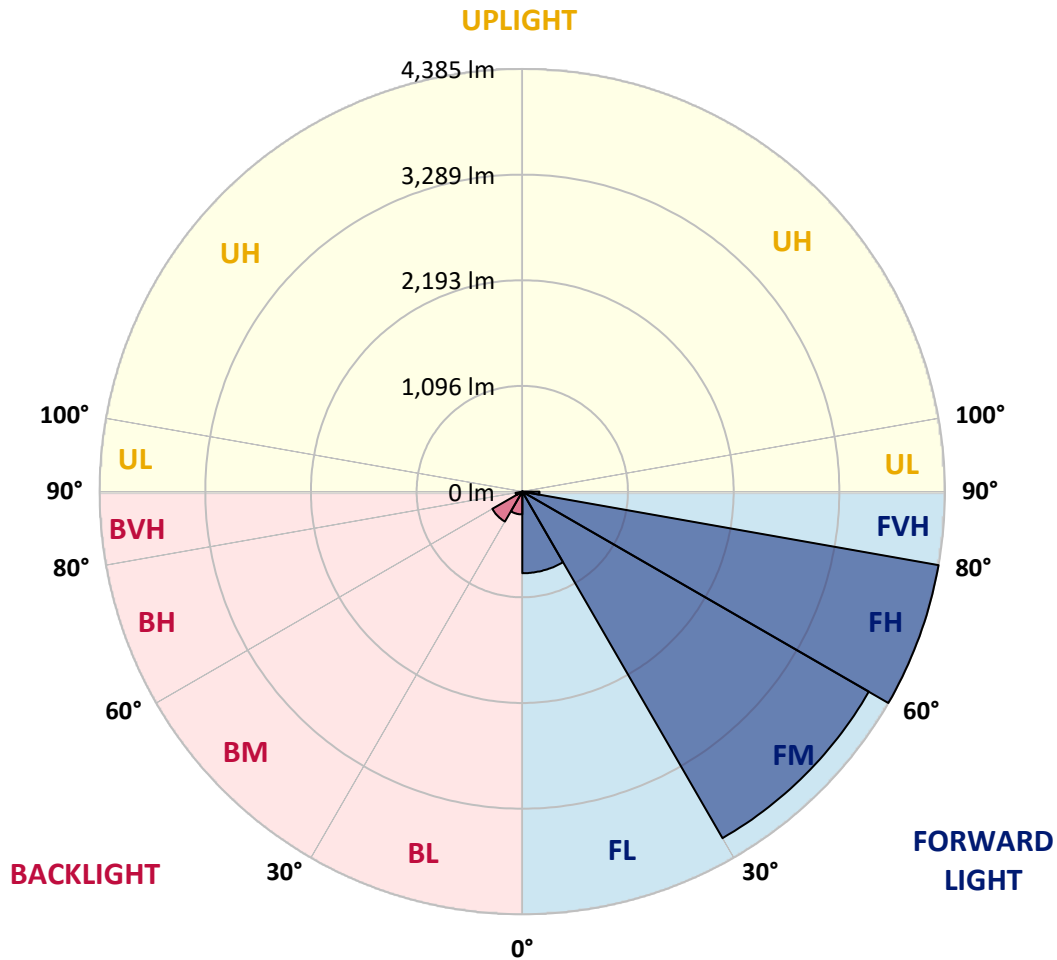


REPORT NUMBER: P452085  
 CATALOG NUMBER: GALN-SA3A-730-U-SL4-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	846.2	8.3			
FM (30°-60°)	4151.1	40.6			
FH (60°-80°)	4385.0	42.9			G2/5000
FVH (80°-90°)	177.8	1.7			G2/225
BL (0°-30°)	236.1	2.3	B1/500		
BM (30°-60°)	358.9	3.5	B1/1000		
BH (60°-80°)	70.5	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





REPORT NUMBER: P452085

CATALOG NUMBER: GALN-SA3A-730-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8
2.5°	1843.9	1837.7	1829.4	1819.8	1792.3	1787.5	1771.0	1736.0	1694.0	1659.7	1612.3
5°	1931.1	1934.6	1928.4	1911.2	1891.3	1879.6	1859.0	1804.7	1750.4	1681.0	1603.3
7.5°	1951.1	1957.9	1950.4	1933.9	1914.6	1902.3	1885.8	1839.0	1775.8	1696.8	1590.3
10°	1949.0	1957.2	1952.4	1937.3	1921.5	1909.8	1892.0	1854.9	1804.0	1720.8	1594.4
12.5°	1945.6	1956.6	1955.9	1948.3	1935.3	1926.3	1915.3	1882.3	1834.9	1755.9	1617.1
15°	1935.9	1949.7	1962.1	1968.2	1968.9	1968.9	1955.2	1920.1	1874.8	1801.9	1646.6
17.5°	1940.1	1955.9	1986.8	2004.7	2017.0	2015.7	2001.2	1963.4	1913.3	1849.4	1677.5
20°	1965.5	1986.8	2030.1	2065.8	2078.2	2074.1	2054.8	2010.9	1953.8	1889.9	1707.8
22.5°	2028.0	2047.3	2101.6	2143.5	2152.4	2141.4	2113.9	2054.1	2002.6	1933.9	1744.2
25°	2121.5	2144.2	2194.3	2226.0	2226.0	2219.8	2181.3	2111.2	2057.6	1995.0	1791.6
27.5°	2234.9	2254.1	2303.6	2331.8	2315.3	2297.4	2258.9	2174.4	2122.9	2072.0	1848.7
30°	2349.7	2362.0	2414.3	2426.6	2409.5	2386.8	2345.5	2261.0	2215.6	2176.5	1931.1
32.5°	2458.2	2485.0	2528.3	2525.6	2502.2	2491.2	2453.4	2363.4	2338.0	2333.9	2046.6
35°	2566.8	2587.4	2625.9	2635.6	2614.9	2612.9	2585.4	2518.7	2519.4	2546.2	2226.6
37.5°	2660.3	2678.8	2724.2	2745.5	2749.6	2759.9	2748.9	2705.0	2767.5	2841.0	2465.1
40°	2738.6	2764.8	2822.5	2859.6	2902.2	2940.0	2942.1	2951.7	3077.4	3203.9	2776.4
42.5°	2799.8	2836.2	2920.1	2988.8	3086.4	3134.5	3173.0	3225.9	3437.6	3626.5	3143.4
45°	2879.5	2921.4	3025.9	3133.8	3286.4	3365.4	3419.0	3560.6	3860.9	4118.6	3520.0
47.5°	3011.5	3033.5	3140.0	3297.4	3498.0	3610.7	3715.2	3929.6	4315.2	4546.1	3833.4
50°	3181.2	3195.6	3276.1	3494.6	3754.4	3902.8	4093.2	4345.4	4786.6	4900.7	4010.7
52.5°	3368.8	3373.6	3434.1	3711.8	4041.6	4228.6	4441.6	4752.9	5170.8	5153.6	4128.2
55°	3586.7	3579.8	3631.4	3947.5	4381.8	4595.5	4843.6	5170.1	5504.1	5333.0	4195.6
57.5°	3836.2	3817.6	3867.8	4260.2	4817.5	5073.2	5325.4	5530.2	5762.5	5483.5	4227.9
60°	4097.3	4060.2	4120.0	4611.4	5330.9	5573.5	5783.1	5838.1	6034.6	5603.0	4172.2
62.5°	4305.5	4306.2	4417.6	4985.2	5858.7	6071.0	6182.4	6231.9	6269.0	5576.9	3879.4
65°	4630.6	4641.6	4819.6	5504.1	6469.6	6653.8	6730.1	6569.3	6279.3	5252.5	3439.6
67.5°	4966.0	5001.0	5326.8	6218.8	7175.4	7323.9	7225.6	6634.6	5998.9	4512.4	2608.1
70°	5075.2	5133.0	5669.7	6710.9	7598.8	7675.7	7343.1	6330.1	5014.8	3017.0	1312.6
72.5°	4650.5	4744.0	5472.5	6531.5	7328.7	7262.0	6570.0	5308.9	3188.1	1145.6	400.7
75°	3279.5	3320.7	4548.1	5418.2	5894.4	5705.4	4997.6	3422.4	1311.2	321.6	137.4
77.5°	1693.4	1673.4	2705.0	3594.9	4203.8	4008.0	3272.6	1771.7	496.9	134.0	85.2
80°	875.5	890.0	1170.4	1883.7	2566.1	2361.3	1744.9	821.2	264.6	74.2	65.3
82.5°	490.7	460.4	672.8	822.6	1199.9	940.8	669.4	581.4	115.5	44.7	61.9
85°	89.3	93.5	369.0	444.6	416.5	264.6	215.8	388.3	33.7	24.7	43.3
87.5°	1.4	1.4	71.5	127.8	81.1	37.1	68.0	55.7	6.9	9.6	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



REPORT NUMBER: P452085  
 CATALOG NUMBER: GALN-SA3A-730-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8
2.5°	1588.2	1562.1	1513.3	1465.2	1404.0	1353.9	1320.2	1285.1	1249.4	1252.1	1260.4
5°	1560.7	1515.4	1419.1	1317.4	1219.8	1131.9	1045.3	967.6	936.0	907.2	908.5
7.5°	1533.2	1469.3	1328.4	1169.0	1021.2	871.4	762.8	673.5	626.1	590.3	580.0
10°	1520.9	1436.3	1245.3	1026.0	816.4	652.9	513.4	440.5	384.2	366.3	371.1
12.5°	1526.4	1419.8	1170.4	896.8	647.4	455.0	357.4	320.3	307.9	305.8	304.4
15°	1536.7	1408.1	1096.8	753.9	475.6	338.1	300.3	293.4	292.1	290.7	291.4
17.5°	1550.4	1397.8	1018.5	619.9	364.9	295.5	284.5	281.1	280.4	280.4	280.4
20°	1564.1	1386.2	931.2	500.3	304.4	279.0	272.1	270.1	269.4	269.4	268.7
22.5°	1580.0	1375.8	842.6	393.1	280.4	267.3	261.1	259.8	259.1	258.4	258.4
25°	1602.6	1362.8	748.4	321.6	265.3	256.3	250.2	248.8	248.1	245.3	246.0
27.5°	1632.9	1353.2	651.5	277.6	251.5	242.6	238.5	236.4	235.0	233.0	233.7
30°	1674.1	1344.9	548.4	253.6	235.7	228.2	224.0	222.7	221.3	219.2	219.2
32.5°	1745.6	1348.4	439.8	234.3	221.3	212.4	208.2	206.9	205.5	203.4	203.4
35°	1852.8	1368.3	351.9	217.9	204.1	195.2	191.1	191.1	189.0	186.2	185.6
37.5°	2028.0	1419.1	282.5	202.0	187.6	179.4	174.6	173.2	171.1	167.0	166.3
40°	2234.9	1498.2	237.8	186.2	172.5	164.2	160.1	156.0	150.5	146.4	145.7
42.5°	2494.7	1579.3	206.2	170.4	158.1	150.5	145.7	138.8	130.6	125.1	124.4
45°	2765.4	1653.5	184.9	156.0	144.3	138.1	132.6	121.6	111.3	104.5	103.8
47.5°	2967.5	1667.2	167.7	142.3	132.6	126.5	118.9	105.1	91.4	85.2	83.2
50°	3063.0	1600.6	149.8	128.5	121.0	114.1	104.5	88.7	73.5	66.0	64.6
52.5°	3096.7	1485.1	135.4	116.1	109.3	101.0	89.3	71.5	57.7	50.2	49.5
55°	3082.9	1339.4	122.3	104.5	95.5	85.9	74.2	57.0	42.6	36.4	35.0
57.5°	3010.8	1153.9	109.3	92.8	81.8	72.2	59.1	42.6	28.9	23.4	22.7
60°	2816.3	901.0	96.2	79.7	69.4	59.1	46.7	30.2	17.9	13.1	13.1
62.5°	2487.8	668.7	83.8	66.7	58.4	47.4	33.0	19.2	9.6	6.9	6.2
65°	2078.9	493.4	70.1	56.4	48.8	37.1	23.4	11.7	4.8	2.1	1.4
67.5°	1450.8	304.4	58.4	46.0	39.9	26.8	14.4	4.8	2.1	0.0	0.0
70°	659.1	145.0	44.7	35.0	30.2	19.2	7.6	2.7	1.4	0.0	0.0
72.5°	204.8	76.3	31.6	25.4	20.6	12.4	4.1	2.1	1.4	0.0	0.0
75°	94.8	48.8	19.9	13.7	11.7	6.2	2.7	1.4	0.7	0.0	0.0
77.5°	70.8	37.8	11.7	7.6	6.2	4.1	2.1	1.4	0.7	0.0	0.0
80°	61.9	19.2	6.9	4.8	3.4	2.7	1.4	0.7	0.0	0.0	0.0
82.5°	55.7	9.6	4.1	2.7	2.1	1.4	0.7	0.7	0.0	0.0	0.0
85°	30.2	5.5	2.7	2.1	1.4	0.7	0.7	0.0	0.0	0.0	0.0
87.5°	5.5	2.7	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)