

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: P948781

Luminaire Tested: **GALN-SB3D-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28802 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 218.1
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

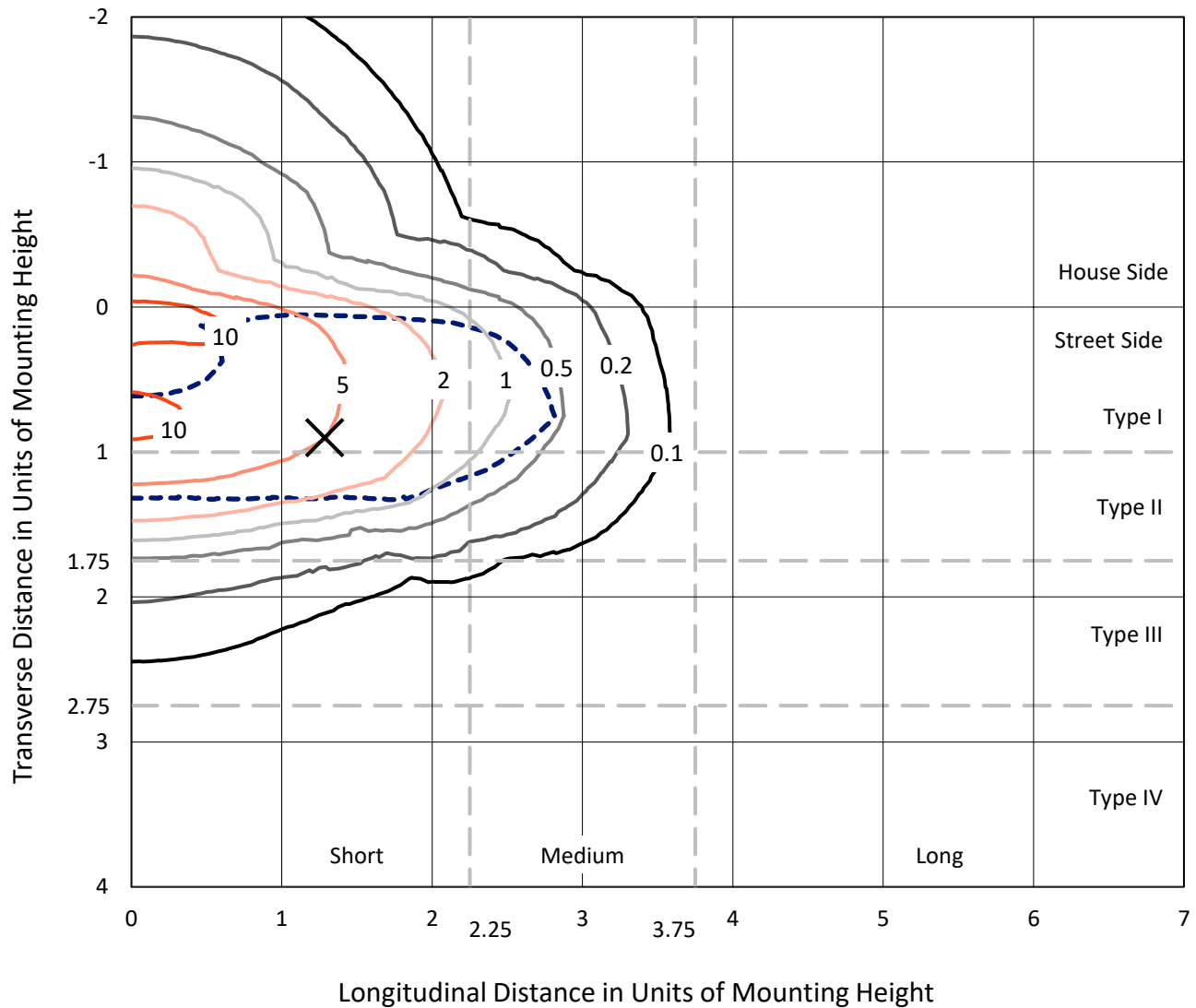


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

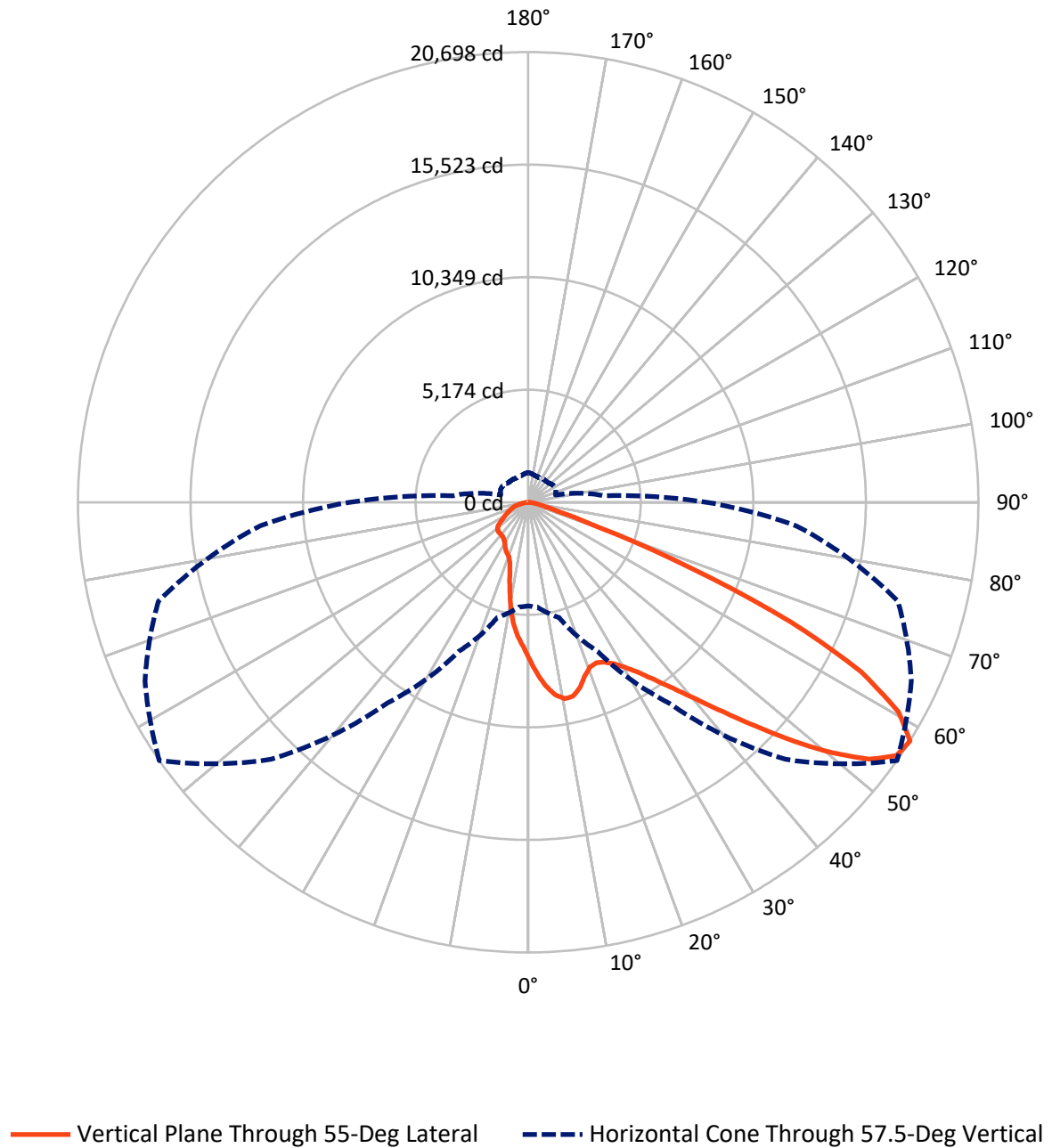


Based on 25 foot mounting height. Maximum calculated value = 14 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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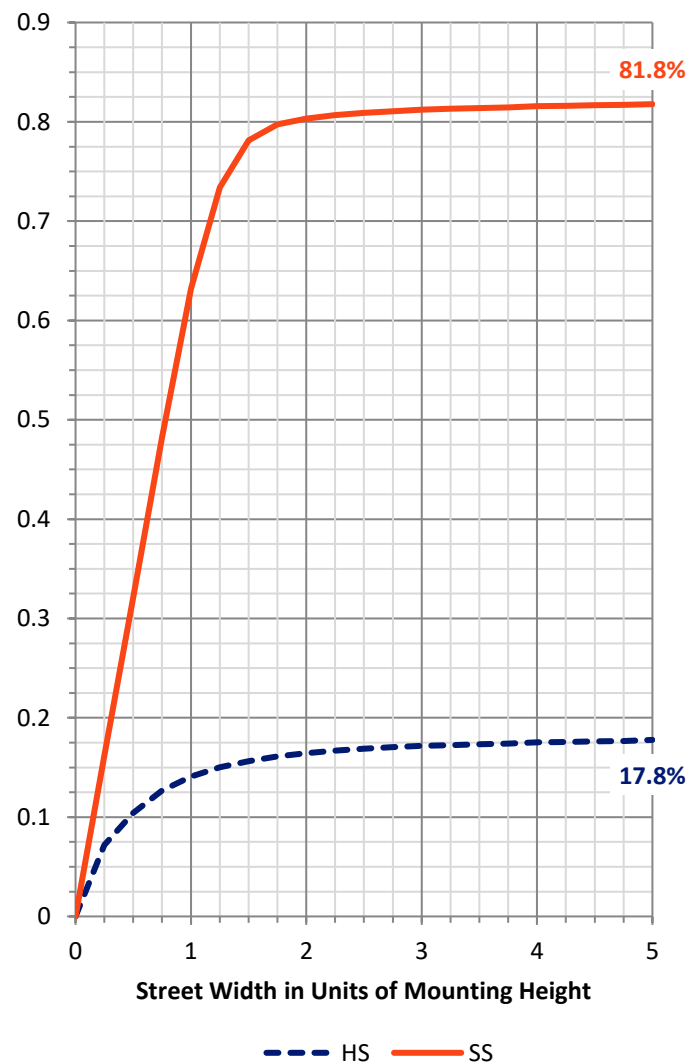
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5211.6	0.0	5211.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	23590.4	0.0	23590.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	28802.0	0.0	28802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.7	2.3
10°-20°	1690.3	5.9
20°-30°	2697.2	9.4
30°-40°	4270.4	14.8
40°-50°	6536.3	22.7
50°-60°	7001.0	24.3
60°-70°	4404.4	15.3
70°-80°	1302.4	4.5
80°-90°	230.3	0.8
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°	28802.0	100.0
0°-180°	28802.0	100.0

Coefficient of Utilization



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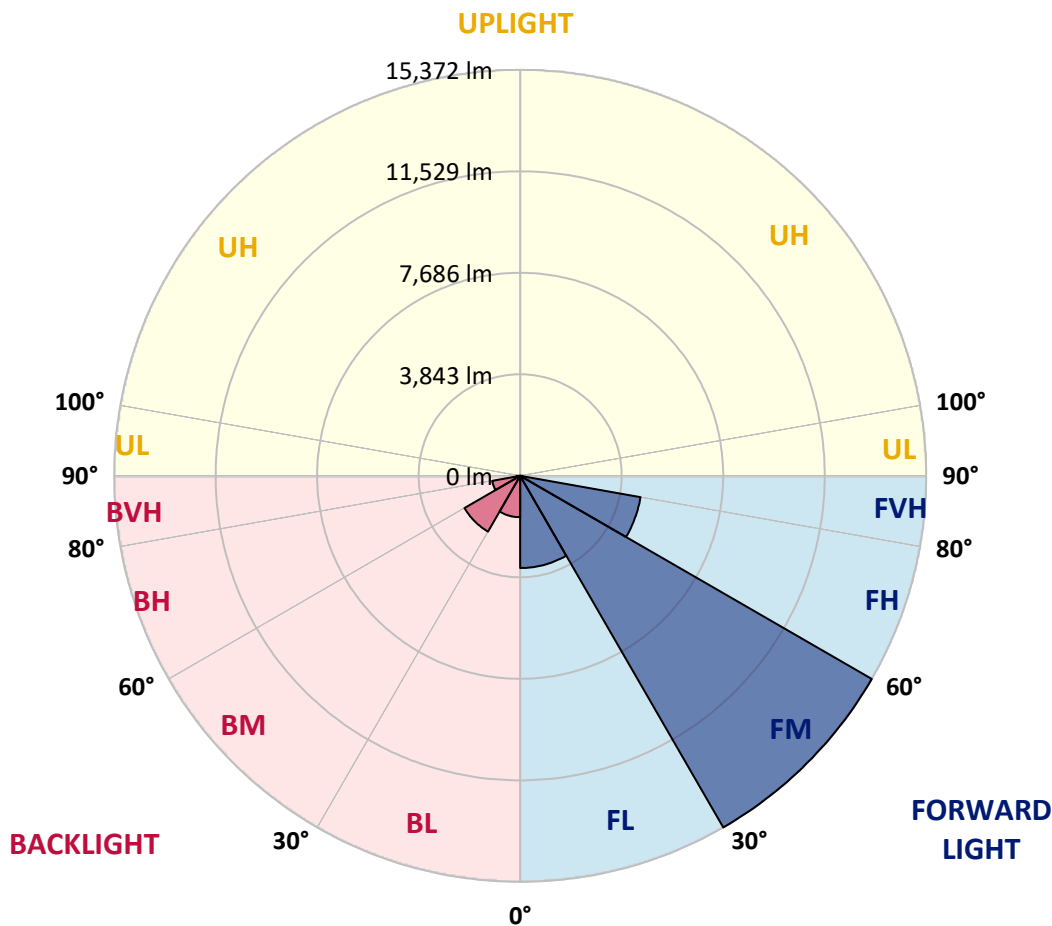
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3490.8	12.1			
FM	(30°-60°)	15371.8	53.4			
FH	(60°-80°)	4630.5	16.1			G2/5000
FVH	(80°-90°)	97.3	0.3			G1/100
BL	(0°-30°)	1566.4	5.4	B3/2500		
BM	(30°-60°)	2435.8	8.5	B2/2500		
BH	(60°-80°)	1076.3	3.7	B3/2500		G3/2500
BVH	(80°-90°)	133.0	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7216.8	7216.8	7216.8	7216.8	7216.8	7216.8	7216.8	7216.8	7216.8	7216.8	7216.8
2.5°	8279.9	8274.0	8306.7	8195.1	8119.1	8016.4	7880.9	7708.2	7522.1	7325.5	7240.7
5°	9025.9	8973.8	9008.0	8924.6	8841.3	8686.4	8485.4	8204.0	7860.1	7468.5	7260.0
7.5°	8908.3	8872.5	8960.4	9034.8	9097.4	9078.0	8930.6	8635.8	8192.1	7623.3	7321.1
10°	7959.8	7919.6	8043.2	8300.8	8679.0	9008.0	9186.7	9003.6	8531.6	7793.1	7380.6
12.5°	7123.0	7103.7	7185.6	7394.0	7813.9	8445.2	9153.9	9325.2	8884.4	7994.1	7461.0
15°	6765.7	6741.9	6794.0	6899.7	7167.7	7755.8	8856.2	9545.5	9231.4	8226.3	7589.1
17.5°	6686.8	6660.0	6682.3	6737.4	6910.1	7358.3	8406.5	9654.2	9593.2	8485.4	7696.3
20°	6832.7	6810.4	6813.3	6810.4	6931.0	7286.8	8093.8	9612.5	9908.8	8723.6	7800.5
22.5°	7185.6	7148.4	7149.8	7070.9	7136.4	7411.9	8011.9	9500.9	10190.2	8932.1	7879.4
25°	7760.3	7693.3	7706.7	7505.7	7487.8	7691.8	8140.0	9414.5	10470.2	9098.9	7894.3
27.5°	8546.5	8470.5	8430.3	8131.0	7988.1	8089.4	8400.5	9444.3	10735.2	9243.3	7857.1
30°	9529.2	9436.8	9355.0	8930.6	8671.5	8634.3	8805.5	9640.8	11047.9	9395.2	7793.1
32.5°	10733.7	10626.5	10477.6	9914.8	9550.0	9355.0	9329.6	9990.7	11414.1	9588.7	7760.3
35°	12167.5	12027.6	11816.2	11088.1	10626.5	10227.5	10020.5	10495.5	11915.9	9880.5	7797.5
37.5°	13644.6	13486.7	13293.2	12426.6	11859.3	11271.2	10863.2	11180.4	12584.4	10276.6	7895.8
40°	15006.9	14829.7	14649.6	13878.3	13269.3	12560.6	11895.1	12046.9	13401.9	10750.1	8062.6
42.5°	15811.0	15679.9	15611.4	15194.5	14724.0	14004.9	13178.5	13074.3	14320.5	11295.0	8253.1
45°	15775.2	15721.6	15933.0	16105.8	15994.1	15595.1	14682.3	14210.4	15242.2	11767.0	8428.8
47.5°	14932.5	14968.2	15440.2	16411.0	16838.3	17046.8	16394.6	15325.6	16043.2	12119.9	8507.7
50°	12639.5	12669.3	13762.2	15855.6	17055.7	18230.5	18093.5	16414.0	16664.1	12335.8	8489.9
52.5°	10824.5	10843.9	11312.9	14208.9	16338.0	18826.0	19624.1	17439.8	17118.2	12395.3	8390.1
55°	8153.4	8220.4	8746.0	11147.6	14470.9	18354.0	20556.2	18497.0	17405.6	12401.3	8285.9
57.5°	4763.1	4836.0	5485.2	7566.7	11247.4	16708.8	20697.6	19435.0	17600.6	12353.7	8223.4
60°	2333.2	2364.4	2647.3	3976.9	6935.4	13538.8	19560.1	19889.1	17709.3	12328.3	8220.4
62.5°	1572.3	1567.8	1579.8	1962.4	3417.1	8698.3	17189.7	19094.0	17651.3	12231.6	8190.6
65°	1351.9	1335.6	1290.9	1377.3	1770.3	3978.4	13281.3	16720.7	17209.1	11988.9	7986.6
67.5°	1168.8	1170.3	1171.8	1145.0	1264.1	1835.9	8116.2	13171.1	15621.9	10839.4	7200.5
70°	967.8	981.2	987.2	987.2	1030.3	1204.5	3464.7	9027.4	12322.4	8498.8	5799.4
72.5°	881.4	853.2	856.1	841.2	841.2	917.2	1395.1	5117.5	7763.3	4781.0	3539.2
75°	719.2	737.0	740.0	729.6	695.3	699.8	827.8	2147.0	3321.8	1983.3	1749.5
77.5°	620.9	620.9	626.8	619.4	592.6	524.1	552.4	832.3	1130.1	813.0	874.0
80°	498.8	497.3	522.6	537.5	495.8	387.1	352.9	460.1	501.8	357.3	454.1
82.5°	242.7	257.6	358.8	409.5	376.7	279.9	215.9	285.9	268.0	157.8	204.0
85°	141.4	134.0	160.8	227.8	215.9	154.8	104.2	148.9	140.0	80.4	81.9
87.5°	44.7	41.7	32.8	77.4	62.5	43.2	28.3	43.2	38.7	17.9	17.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7216.8	7216.8	7216.8	7216.8	7216.8	7216.8	7216.8	7216.8	7216.8	7216.8
2.5°	7135.0	6959.3	6785.1	6625.7	6529.0	6466.4	6403.9	6333.9	6307.1	6266.9
5°	7063.5	6724.0	6421.8	6161.2	5924.5	5738.3	5550.7	5398.9	5330.4	5376.5
7.5°	7021.8	6530.4	6064.4	5586.5	5126.4	4758.6	4438.5	4213.7	4112.4	4137.7
10°	6984.6	6311.6	5601.4	4846.5	4185.4	3729.8	3402.2	3231.0	3167.0	3180.4
12.5°	6950.3	6065.9	5043.0	4049.9	3347.1	3046.4	2952.5	2954.0	2965.9	2974.9
15°	6944.4	5769.6	4419.1	3353.1	2894.5	2875.1	2976.4	3040.4	3074.6	3085.1
17.5°	6935.4	5415.2	3783.4	2878.1	2784.3	2915.3	3009.1	3050.8	3077.6	3079.1
20°	6899.7	4965.6	3196.7	2651.8	2760.5	2873.6	2931.7	2964.5	2986.8	2994.2
22.5°	6789.5	4465.3	2739.6	2550.5	2665.2	2756.0	2824.5	2861.7	2875.1	2884.1
25°	6591.5	3905.5	2424.0	2453.8	2532.7	2647.3	2702.4	2709.9	2705.4	2718.8
27.5°	6332.4	3305.4	2227.4	2322.7	2424.0	2522.2	2552.0	2547.6	2538.6	2553.5
30°	6019.7	2766.4	2102.4	2175.3	2313.8	2403.1	2429.9	2419.5	2401.6	2418.0
32.5°	5689.2	2325.7	1999.6	2072.6	2223.0	2310.8	2337.6	2327.2	2313.8	2327.2
35°	5381.0	2017.5	1904.3	2004.1	2151.5	2237.9	2272.1	2273.6	2273.6	2290.0
37.5°	5098.1	1837.3	1825.4	1960.9	2102.4	2179.8	2228.9	2231.9	2167.9	2172.3
40°	4836.0	1761.4	1789.7	1932.6	2054.7	2129.2	2132.1	1965.4	1847.8	1844.8
42.5°	4621.6	1746.5	1800.1	1929.7	2020.5	2023.5	1813.5	1684.0	1651.2	1652.7
45°	4420.6	1742.0	1823.9	1929.7	1969.9	1748.0	1606.6	1572.3	1575.3	1587.2
47.5°	4195.8	1724.2	1828.4	1902.9	1823.9	1554.4	1512.8	1497.9	1491.9	1494.9
50°	3950.1	1660.2	1771.8	1849.3	1573.8	1471.1	1419.0	1414.5	1421.9	1426.4
52.5°	3691.1	1555.9	1675.0	1752.5	1459.2	1398.1	1340.0	1350.5	1383.2	1393.6
55°	3521.3	1433.8	1547.0	1558.9	1378.7	1329.6	1280.5	1304.3	1365.3	1384.7
57.5°	3476.7	1304.3	1401.1	1387.7	1276.0	1270.1	1240.3	1261.1	1338.5	1366.8
60°	3463.3	1188.2	1258.1	1247.7	1176.3	1204.5	1197.1	1207.5	1234.3	1243.3
62.5°	3359.0	1095.9	1130.1	1115.2	1086.9	1136.1	1153.9	1131.6	1152.4	1162.9
65°	3094.0	1021.4	1005.0	994.6	1006.5	1051.2	1086.9	1042.3	1061.6	1091.4
67.5°	2656.3	920.2	875.5	887.4	924.6	948.4	994.6	944.0	960.4	1011.0
70°	2148.5	792.1	751.9	786.2	821.9	871.0	878.5	844.2	882.9	939.5
72.5°	1520.2	662.6	634.3	704.3	716.2	780.2	763.8	747.4	801.0	820.4
75°	1054.2	534.5	518.1	571.7	614.9	670.0	658.1	677.5	790.6	799.6
77.5°	667.0	415.4	405.0	439.2	498.8	559.8	579.2	799.6	1350.5	1404.1
80°	387.1	309.7	297.8	324.6	376.7	433.3	558.3	981.2	890.4	880.0
82.5°	215.9	212.9	198.0	205.5	251.6	312.7	789.1	690.9	561.3	579.2
85°	101.2	125.1	107.2	102.7	141.4	366.3	527.1	394.6	262.1	256.1
87.5°	26.8	23.8	23.8	26.8	59.6	315.7	209.9	168.2	99.8	96.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)