

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: P949842

Luminaire Tested: **GALN-SB4C-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4C-722-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25255 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 200.7
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



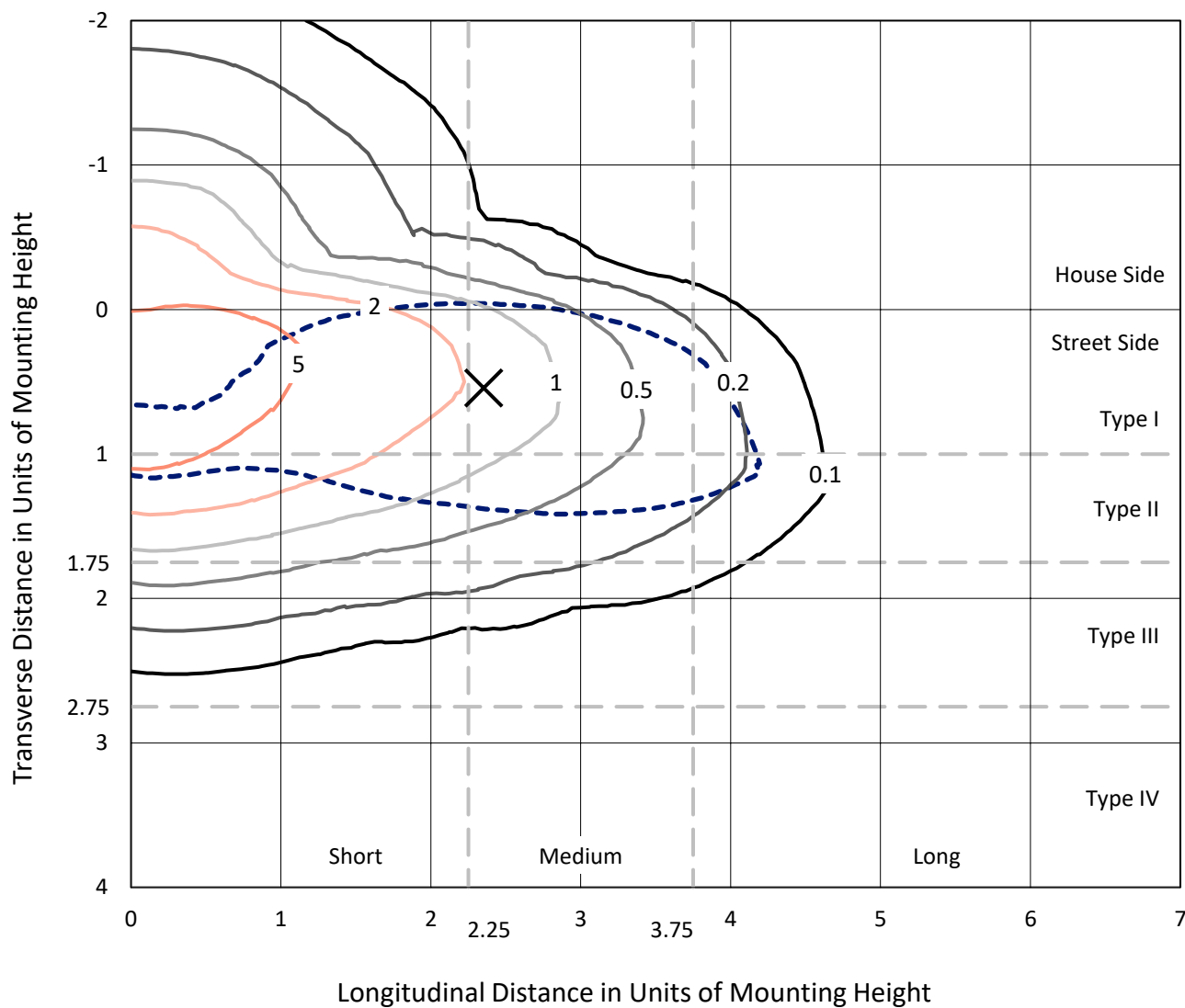
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Iso-Footcandle Lines of Horizontal Illumination

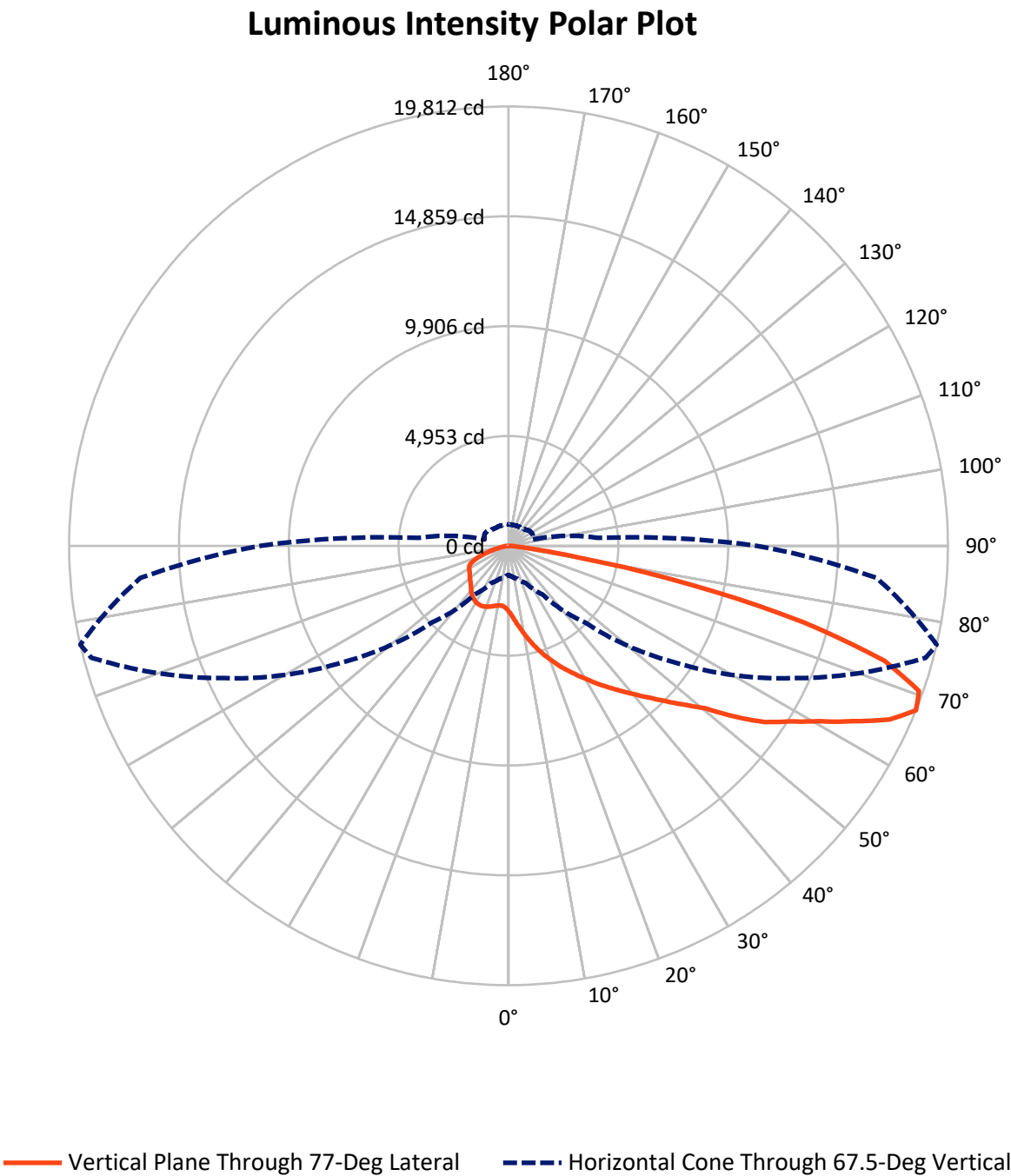
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Medium - N/A

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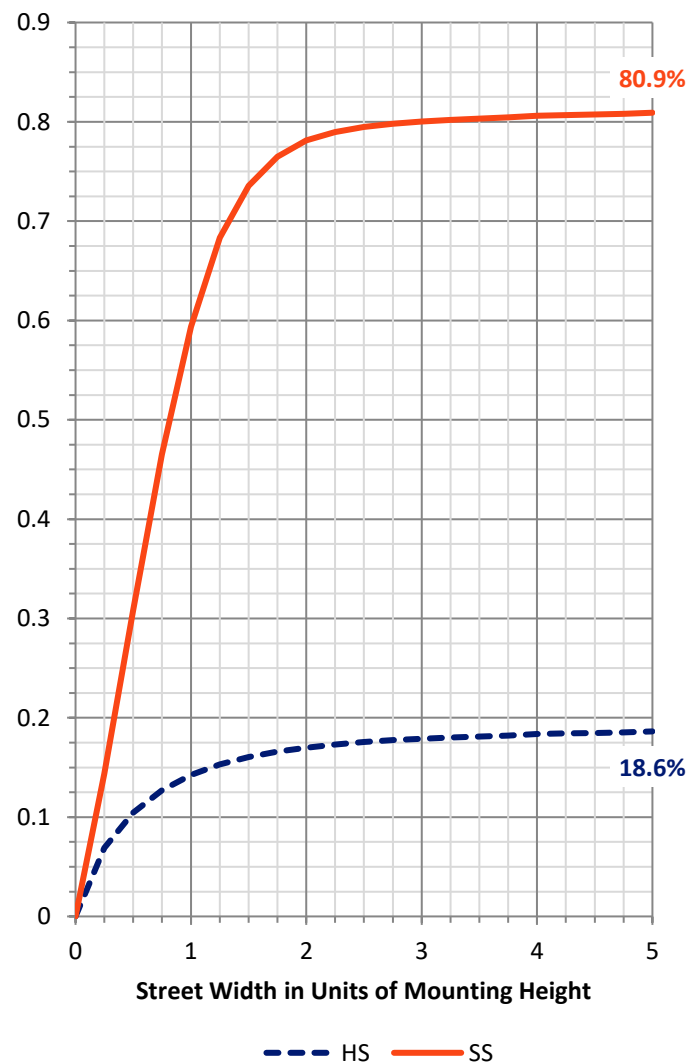
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4777.2	0.0	4777.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	20477.8	0.0	20477.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	25255.0	0.0	25255.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.6	1.3
10°-20°	1141.1	4.5
20°-30°	2154.4	8.5
30°-40°	3470.8	13.7
40°-50°	4747.4	18.8
50°-60°	5355.1	21.2
60°-70°	4998.3	19.8
70°-80°	2739.9	10.8
80°-90°	330.5	1.3
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°	25255.0	100.0
0°-180°	25255.0	100.0

Coefficient of Utilization



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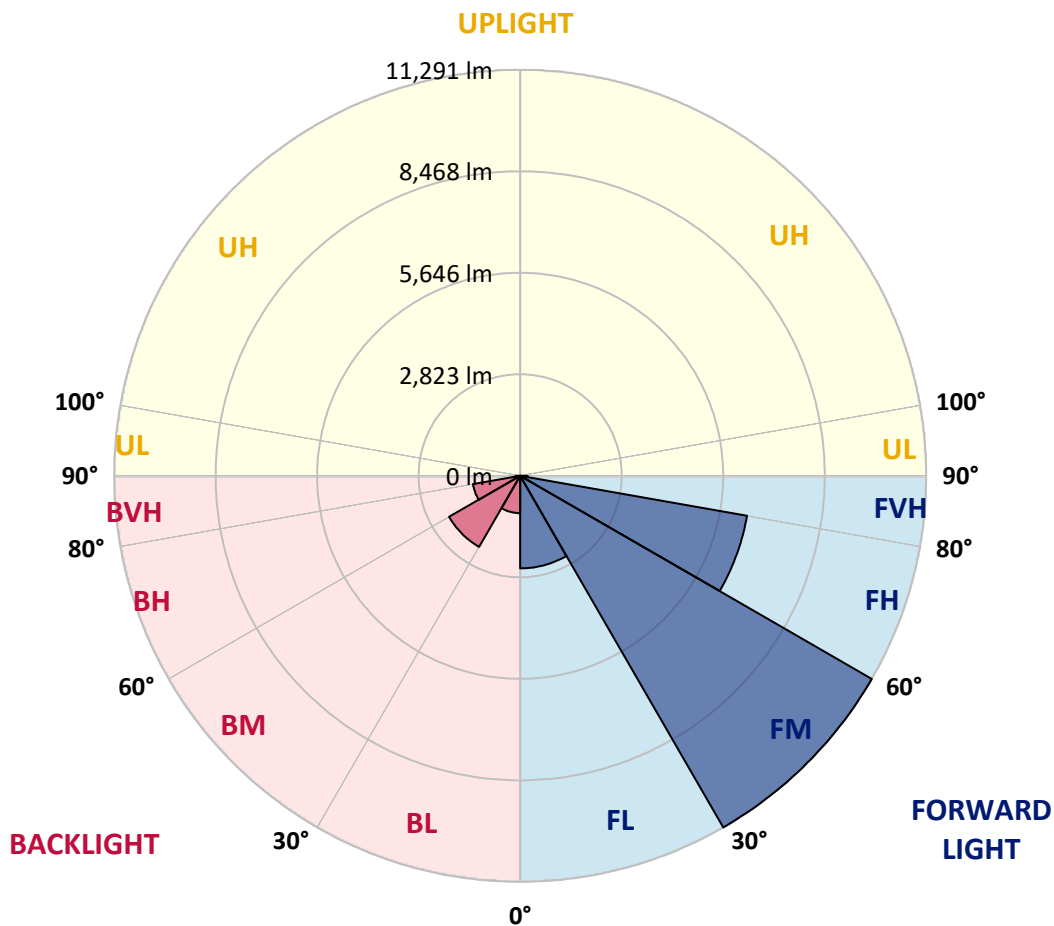
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2574.4	10.2			
FM	(30°-60°)	11291.2	44.7			
FH	(60°-80°)	6405.4	25.4			G3/7500
FVH	(80°-90°)	206.7	0.8			G2/225
BL	(0°-30°)	1038.7	4.1	B3/2500		
BM	(30°-60°)	2282.0	9.0	B2/2500		
BH	(60°-80°)	1332.8	5.3	B3/2500		G3/2500
BVH	(80°-90°)	123.8	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2963.2	2963.2	2963.2	2963.2	2963.2	2963.2	2963.2	2963.2	2963.2	2963.2	2963.2
2.5°	3710.2	3736.3	3703.7	3703.7	3594.2	3536.8	3427.3	3343.9	3193.9	3167.9	3068.8
5°	4385.5	4418.1	4372.4	4352.9	4223.8	4105.2	3921.4	3740.2	3472.9	3445.5	3212.2
7.5°	4908.2	4950.0	4909.5	4888.7	4774.0	4641.0	4425.9	4173.0	3796.2	3742.8	3405.1
10°	5334.5	5341.1	5328.0	5335.8	5245.9	5136.4	4916.1	4621.4	4150.8	4077.8	3638.5
12.5°	5575.7	5605.7	5631.8	5678.7	5663.1	5595.3	5397.1	5045.1	4526.3	4432.4	3892.7
15°	5689.1	5741.3	5799.9	5908.1	5995.5	6012.4	5861.2	5500.1	4908.2	4794.8	4149.5
17.5°	5729.5	5779.1	5871.6	6028.1	6215.8	6342.3	6274.5	5942.0	5286.3	5155.9	4419.4
20°	5934.2	5948.6	6004.6	6153.2	6356.6	6566.5	6617.3	6367.0	5660.4	5513.1	4698.4
22.5°	6372.2	6343.6	6359.2	6427.0	6573.0	6776.4	6892.4	6742.5	6045.0	5875.5	4979.9
25°	7095.8	7012.3	6928.9	6850.7	6925.0	7039.7	7171.4	7117.9	6447.9	6232.7	5264.1
27.5°	8009.6	7907.9	7724.1	7467.3	7377.4	7417.8	7476.4	7466.0	6820.7	6603.0	5557.5
30°	8909.1	8790.5	8571.5	8200.0	7962.7	7855.8	7811.5	7781.5	7226.1	6994.1	5853.4
32.5°	9627.5	9533.6	9318.5	8902.6	8558.5	8376.0	8228.6	8121.7	7649.8	7417.8	6166.3
35°	10255.8	10168.5	9922.1	9468.4	9094.3	8900.0	8707.1	8478.9	8090.5	7855.8	6502.6
37.5°	10829.4	10742.1	10404.4	9932.5	9555.8	9421.5	9249.4	8862.2	8532.4	8310.8	6858.5
40°	11191.8	11172.3	10856.8	10322.3	9931.2	9864.7	9807.4	9306.8	9022.6	8816.6	7249.6
42.5°	11284.4	11327.4	11077.1	10637.8	10264.9	10211.5	10345.8	9810.0	9572.7	9375.8	7692.8
45°	11061.5	11185.3	11021.1	10722.5	10502.2	10473.5	10822.9	10360.1	10181.5	10001.6	8227.3
47.5°	10497.0	10706.9	10639.1	10597.4	10566.1	10689.9	11242.7	10944.1	10871.1	10714.7	8837.4
50°	9357.6	9755.2	9873.8	10137.2	10439.6	10858.1	11624.6	11581.6	11676.8	11519.1	9580.5
52.5°	7387.8	7935.3	8623.6	9283.3	10051.1	10802.0	12044.4	12496.8	12898.3	12812.3	10761.6
55°	6098.5	6344.9	6874.1	8083.9	9297.6	10566.1	12233.5	13236.0	14110.7	14033.8	11657.2
57.5°	5107.7	5328.0	5653.9	6664.3	8158.2	10030.3	12350.8	13687.0	14941.1	14933.3	12541.1
60°	4045.2	4278.6	4612.3	5328.0	6827.2	9104.7	12324.7	14200.7	16001.0	16066.2	13619.2
62.5°	2845.9	3102.7	3472.9	4140.4	5467.5	7905.3	11792.8	14572.2	17248.6	17425.9	14916.4
65°	1870.7	2040.2	2319.2	2895.4	4073.9	6363.1	10777.3	14620.4	18583.5	18883.4	16134.0
67.5°	1311.5	1376.7	1540.9	1853.8	2685.5	4879.6	9159.4	14121.1	19473.9	19811.6	16661.9
70°	1023.4	1056.0	1139.4	1264.5	1686.9	3281.3	7018.9	12822.7	19283.6	19635.6	16110.5
72.5°	883.9	915.2	946.4	962.1	1131.6	2025.9	4754.4	10721.2	17491.1	17729.6	14007.7
75°	801.7	809.6	835.6	830.4	863.0	1314.1	2744.2	7811.5	13800.4	13718.3	10340.6
77.5°	674.0	684.4	727.4	720.9	766.5	898.2	1424.9	5041.2	8946.9	8389.0	5755.6
80°	571.0	576.2	623.1	615.3	666.2	650.5	727.4	2569.5	3794.9	3214.8	1659.5
82.5°	198.2	245.1	475.8	490.2	508.4	393.7	419.8	1048.1	1158.9	887.8	348.1
85°	96.5	103.0	242.5	344.2	342.9	198.2	204.7	374.1	365.0	286.8	116.0
87.5°	15.6	19.6	28.7	134.3	106.9	52.1	70.4	73.0	75.6	65.2	26.1
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°	2963.2	2963.2	2963.2	2963.2	2963.2	2963.2	2963.2	2963.2	2963.2	2963.2	2963.2
2.5°	2995.8	2930.6	2793.7	2667.3	2568.2	2473.0	2419.6	2373.9	2347.9	2342.7	2342.7
5°	3076.6	2942.3	2693.3	2483.5	2346.6	2244.9	2191.4	2157.5	2140.6	2130.2	2128.9
7.5°	3192.6	2995.8	2641.2	2402.6	2259.2	2186.2	2158.8	2153.6	2152.3	2153.6	2157.5
10°	3353.0	3083.1	2636.0	2383.1	2263.1	2222.7	2221.4	2222.7	2227.9	2229.2	2230.5
12.5°	3526.4	3173.1	2656.8	2400.0	2312.7	2290.5	2286.6	2285.3	2289.2	2291.8	2293.1
15°	3715.4	3291.7	2692.0	2436.5	2367.4	2344.0	2340.1	2332.2	2330.9	2329.6	2328.3
17.5°	3909.6	3409.0	2731.1	2475.6	2402.6	2370.0	2355.7	2337.4	2323.1	2319.2	2323.1
20°	4106.5	3525.1	2758.5	2495.2	2405.2	2359.6	2330.9	2299.6	2274.9	2260.5	2265.7
22.5°	4316.4	3646.3	2775.5	2490.0	2381.8	2319.2	2267.0	2230.5	2192.7	2168.0	2169.3
25°	4521.1	3751.9	2774.2	2462.6	2336.1	2256.6	2190.1	2143.2	2091.1	2065.0	2065.0
27.5°	4717.9	3847.1	2741.6	2414.4	2271.0	2182.3	2102.8	2046.7	1995.9	1971.1	1969.8
30°	4921.3	3926.6	2690.7	2344.0	2194.0	2096.3	2008.9	1960.7	1915.1	1891.6	1890.3
32.5°	5123.3	3999.6	2619.0	2256.6	2105.4	2011.5	1925.5	1881.2	1853.8	1853.8	1855.1
35°	5337.1	4050.4	2523.9	2154.9	2011.5	1921.6	1853.8	1827.7	1825.1	1809.5	1805.6
37.5°	5562.7	4083.0	2407.8	2050.6	1919.0	1834.2	1813.4	1782.1	1756.0	1722.1	1716.9
40°	5799.9	4115.6	2268.4	1942.4	1821.2	1774.3	1765.1	1723.4	1649.1	1565.7	1554.0
42.5°	6088.0	4137.8	2123.6	1834.2	1718.2	1702.6	1715.6	1643.9	1525.3	1462.7	1464.0
45°	6421.8	4174.3	1990.7	1727.3	1612.6	1612.6	1667.4	1573.5	1475.7	1436.6	1443.1
47.5°	6854.6	4259.0	1866.8	1610.0	1514.8	1540.9	1560.5	1488.8	1434.0	1385.8	1384.5
50°	7480.3	4462.4	1739.1	1491.4	1440.5	1492.7	1465.3	1423.6	1359.7	1320.6	1316.7
52.5°	8257.3	4582.3	1625.7	1384.5	1376.7	1428.8	1389.7	1350.6	1302.3	1250.2	1239.8
55°	8786.6	4604.5	1530.5	1306.3	1333.6	1328.4	1314.1	1278.9	1252.8	1183.7	1185.0
57.5°	9378.5	4648.8	1452.3	1259.3	1306.3	1248.9	1243.7	1213.7	1179.8	1132.9	1117.2
60°	10086.3	4717.9	1384.5	1241.1	1282.8	1196.8	1170.7	1158.9	1125.0	1101.6	1108.1
62.5°	10858.1	4780.5	1315.4	1243.7	1255.4	1145.9	1106.8	1102.9	1082.0	1074.2	1074.2
65°	11384.8	4609.7	1229.3	1241.1	1212.4	1093.8	1044.2	1042.9	1026.0	1023.4	1022.1
67.5°	11201.0	4068.7	1113.3	1204.6	1168.1	1041.6	986.9	981.6	959.5	960.8	960.8
70°	10280.6	3296.9	953.0	1114.6	1113.3	994.7	926.9	909.9	880.0	885.2	890.4
72.5°	8554.6	2443.0	737.9	964.7	1026.0	951.7	857.8	830.4	792.6	797.8	796.5
75°	6178.0	1660.8	537.1	734.0	893.0	900.8	790.0	743.1	697.5	705.3	707.9
77.5°	3161.4	941.2	395.0	505.8	701.4	818.7	728.7	666.2	655.7	728.7	718.3
80°	1031.2	471.9	273.8	354.6	460.2	670.1	638.8	567.1	564.5	581.4	499.3
82.5°	307.7	199.5	176.0	233.4	254.2	513.6	551.4	428.9	368.9	388.5	401.5
85°	105.6	96.5	100.4	116.0	121.2	301.1	385.9	284.2	268.6	295.9	292.0
87.5°	24.8	33.9	28.7	26.1	26.1	73.0	149.9	118.6	164.3	109.5	105.6
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)