

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: P950198

Luminaire Tested: **GALN-SB4D-722-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950198  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4D-722-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

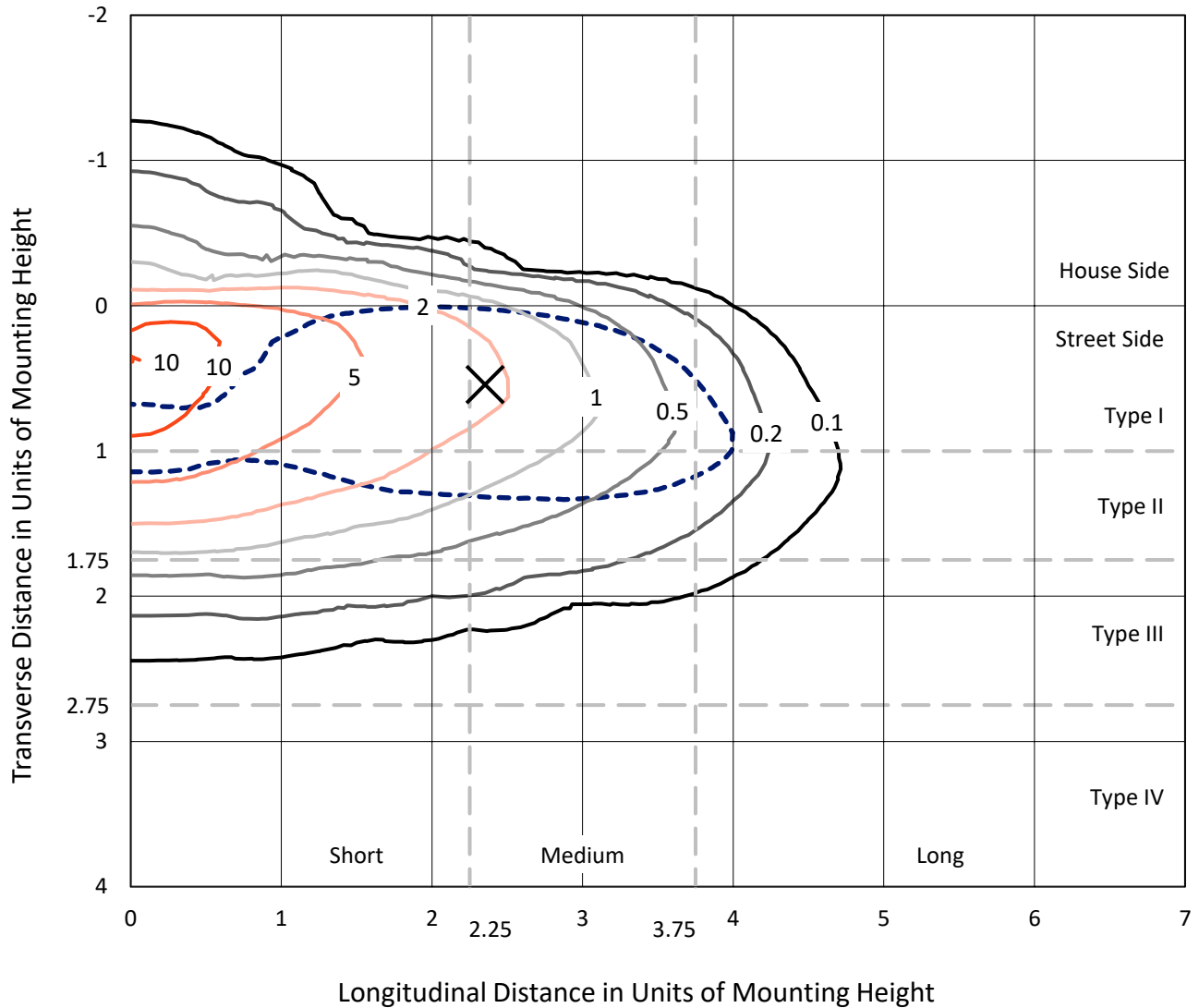
Lumens per Lamp: N/A  
Luminaire Lumens: 28525 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

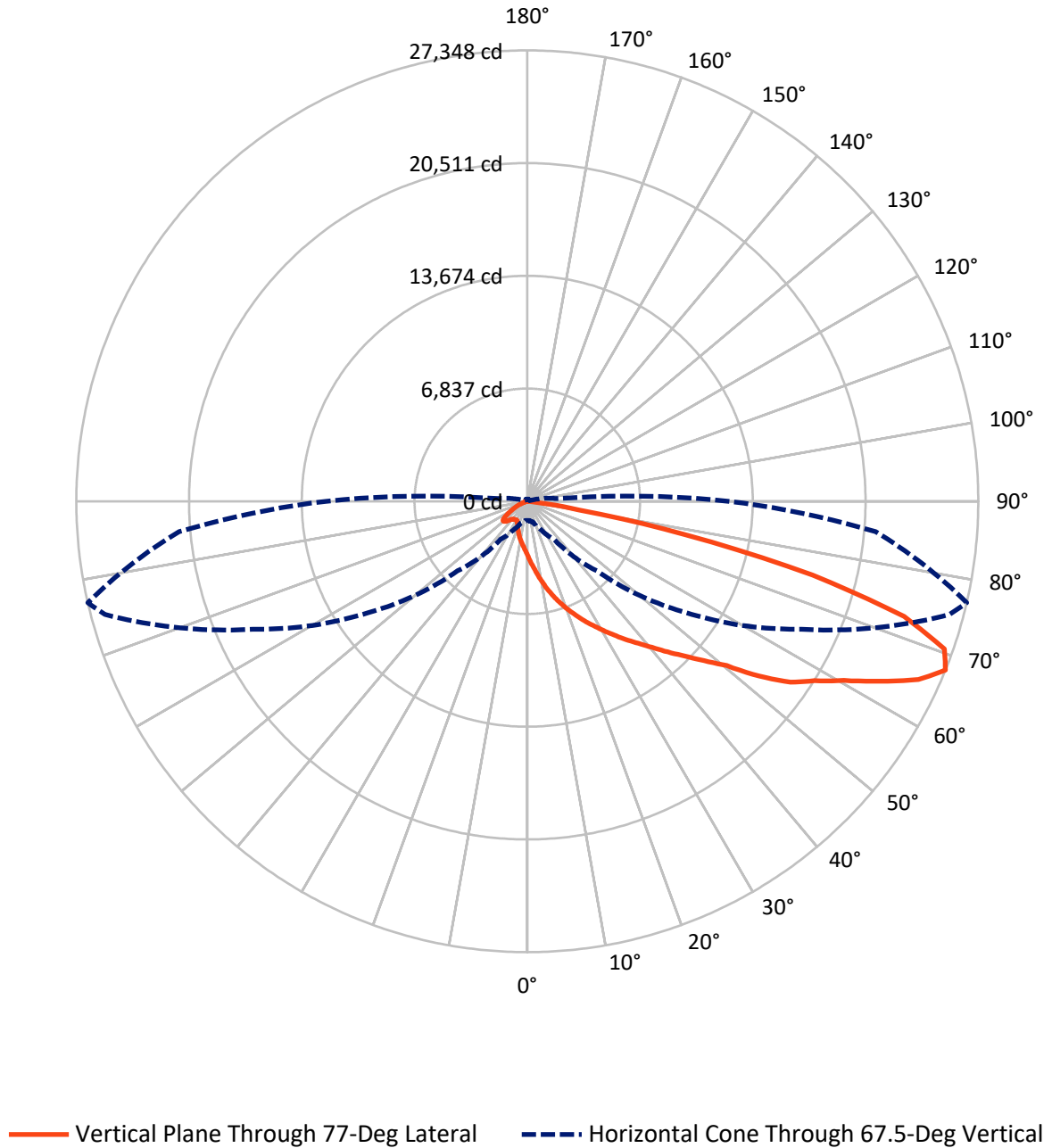
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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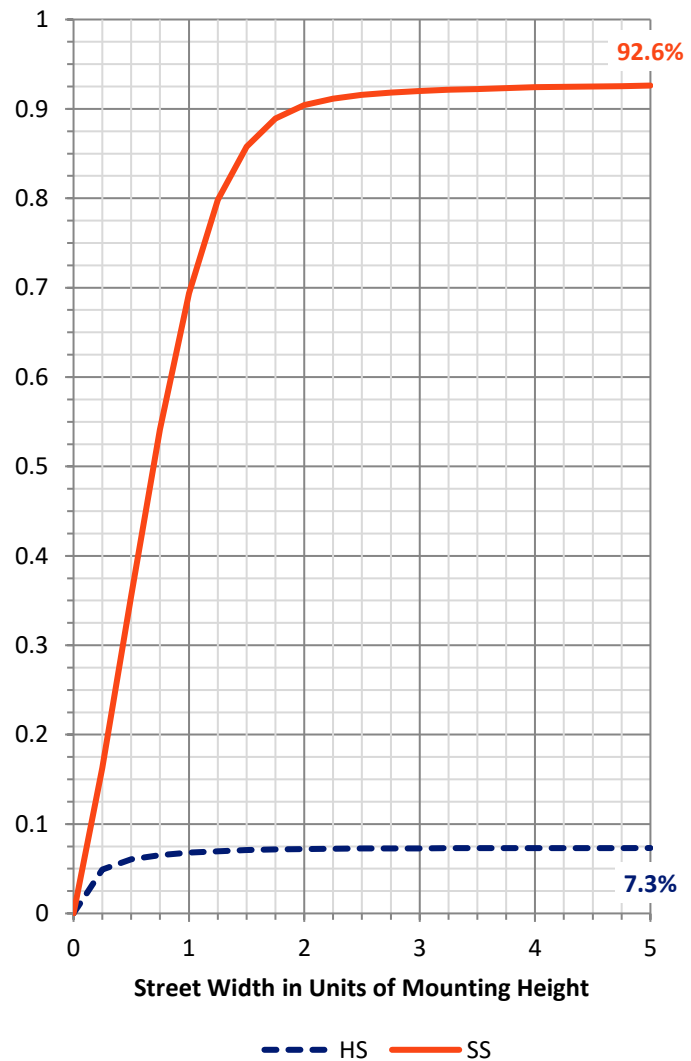
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2098.6	0.0	2098.6
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	26426.4	0.0	26426.4
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	28525.0	0.0	28525.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	335.7	1.2
10°-20°	1175.7	4.1
20°-30°	2268.8	8.0
30°-40°	3938.7	13.8
40°-50°	5718.8	20.0
50°-60°	6567.3	23.0
60°-70°	5701.6	20.0
70°-80°	2685.5	9.4
80°-90°	132.8	0.5
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°	28525.0	100.0
0°-180°	28525.0	100.0

**Coefficient of Utilization**



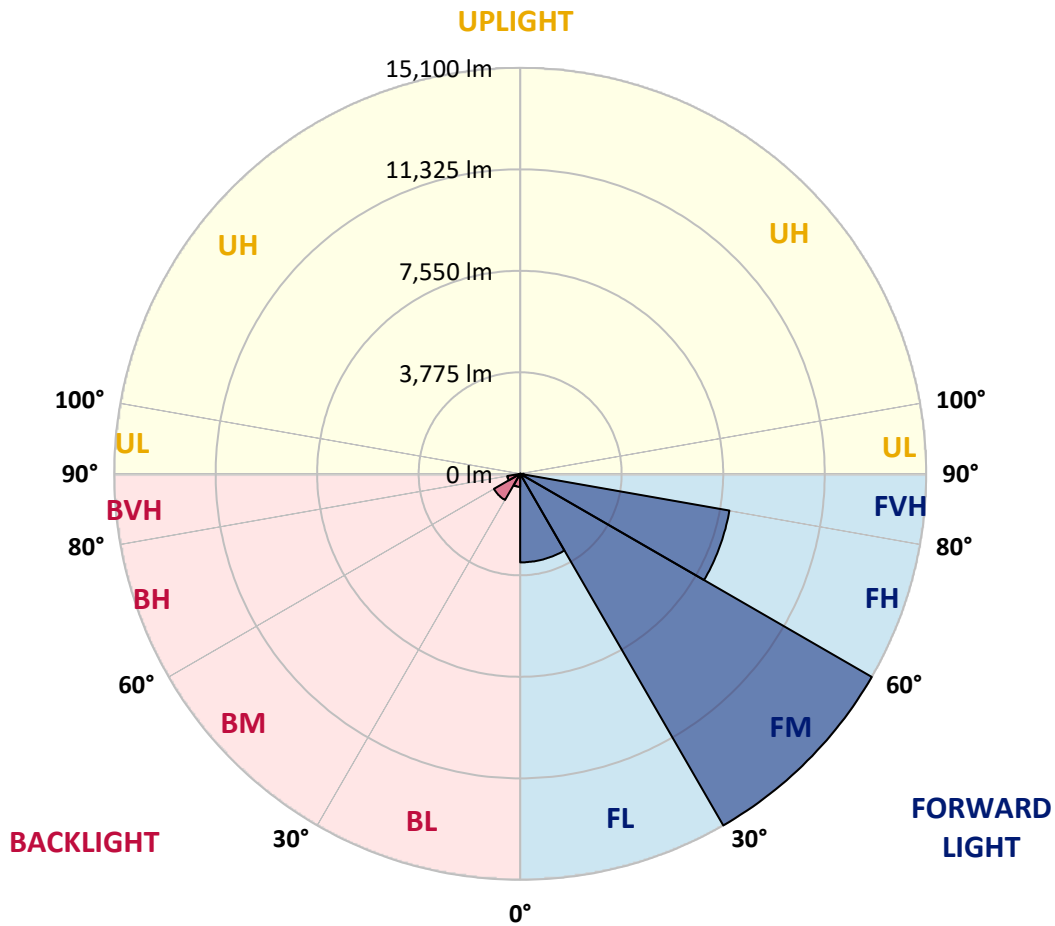
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 CATALOG NUMBER: GALN-SB4D-722-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3294.3	11.5			
FM (30°-60°)	15100.4	52.9			
FH (60°-80°)	7901.3	27.7			G4/12000
FVH (80°-90°)	130.4	0.5			G2/225
BL (0°-30°)	485.9	1.7	B1/500		
BM (30°-60°)	1124.5	3.9	B2/2500		
BH (60°-80°)	485.8	1.7	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3289.4	3289.4	3289.4	3289.4	3289.4	3289.4	3289.4	3289.4	3289.4	3289.4	3289.4
2.5°	4554.1	4582.4	4541.7	4463.7	4346.8	4270.7	4084.7	3909.3	3714.5	3652.5	3457.6
5°	5551.3	5576.1	5530.1	5445.1	5289.2	5140.4	4895.9	4529.3	4148.4	4026.2	3680.8
7.5°	6290.0	6304.1	6286.4	6208.5	6059.7	5891.4	5618.6	5184.7	4619.6	4485.0	3955.4
10°	6821.4	6867.4	6862.1	6832.0	6732.8	6596.4	6305.9	5811.7	5147.5	4973.9	4265.4
12.5°	7173.9	7225.2	7255.4	7322.7	7317.3	7230.6	6975.5	6452.9	5673.6	5469.9	4614.3
15°	7276.6	7331.5	7446.7	7602.5	7740.7	7785.0	7606.1	7081.8	6252.8	5992.4	4972.1
17.5°	7218.2	7303.2	7441.3	7687.6	7990.5	8190.6	8171.1	7689.3	6778.9	6481.3	5322.8
20°	7347.5	7428.9	7537.0	7744.2	8096.7	8459.9	8605.1	8270.3	7301.4	6989.7	5691.3
22.5°	8063.1	8048.9	8059.5	8093.2	8304.0	8663.6	8962.9	8798.2	7818.6	7499.8	6081.0
25°	9196.7	9133.0	9024.9	8842.5	8789.3	8962.9	9274.7	9265.8	8364.2	8022.3	6479.5
27.5°	10496.9	10486.2	10232.9	9793.7	9545.7	9478.4	9627.2	9721.0	8904.5	8539.6	6879.8
30°	11742.1	11770.5	11428.6	10939.7	10484.5	10220.5	10085.9	10153.2	9453.6	9097.5	7292.5
32.5°	12826.2	12856.3	12484.3	11912.2	11348.9	11030.0	10746.6	10580.1	10052.3	9664.4	7746.0
35°	13741.9	13772.1	13345.2	12712.8	12112.3	11823.6	11503.0	11047.8	10654.5	10293.2	8250.8
37.5°	14560.3	14551.4	13979.3	13341.6	12751.8	12523.3	12355.0	11623.4	11274.5	10925.5	8810.6
40°	15043.9	15081.1	14592.2	13889.0	13316.8	13150.3	13139.7	12337.3	11990.1	11651.8	9423.5
42.5°	15185.6	15251.1	14896.8	14319.4	13800.4	13619.7	13897.8	13109.6	12822.6	12493.2	10116.0
45°	14930.5	14994.3	14833.1	14432.8	14129.9	14013.0	14549.7	13910.2	13711.8	13385.9	10897.2
47.5°	14186.5	14266.3	14305.2	14220.2	14216.7	14335.3	15134.2	14753.4	14767.5	14434.5	11802.3
50°	12746.5	12881.1	13238.9	13540.0	14005.9	14590.4	15702.8	15667.4	15957.9	15670.9	12982.0
52.5°	10128.4	10319.7	11552.6	12376.3	13423.1	14542.6	16328.1	17134.0	18046.3	17626.5	14645.3
55°	8139.2	8139.2	9141.8	10682.9	12285.9	14227.3	16600.9	18087.0	19468.6	19369.4	15816.2
57.5°	6635.4	6715.1	7354.5	8716.7	10640.4	13476.2	16769.1	18685.7	20614.7	20542.1	16960.4
60°	4095.3	4267.1	5475.2	6819.6	8768.1	12138.9	16662.9	19291.5	22005.2	22063.6	18338.5
62.5°	2306.3	2370.0	2908.5	4906.6	6817.8	10341.0	15849.8	19629.8	23783.6	24031.6	19759.1
65°	1592.4	1624.3	1831.6	3053.8	4725.9	8233.1	14260.9	19419.0	25565.5	26066.8	20963.6
67.5°	1156.7	1172.6	1301.9	1865.2	2804.0	5969.4	11770.5	18356.2	26509.7	27347.5	21193.9
70°	889.2	899.8	993.7	1225.8	1656.2	3684.4	8548.4	16243.1	25825.9	26826.7	20014.2
72.5°	722.7	733.3	806.0	906.9	1098.2	2178.7	5181.1	13191.1	22807.6	23888.1	17038.4
75°	609.3	623.5	689.0	754.6	860.9	1399.3	2430.3	9186.1	17151.7	17860.3	11848.4
77.5°	338.3	311.8	559.7	625.3	726.2	885.7	1137.2	5406.1	9605.9	9802.5	5257.3
80°	210.8	217.9	444.6	503.1	558.0	446.4	520.8	2081.3	3330.1	3163.6	1018.5
82.5°	12.4	28.3	341.9	363.1	382.6	191.3	196.6	706.8	802.4	736.9	180.7
85°	0.0	0.0	155.9	125.8	132.8	54.9	56.7	164.7	108.1	116.9	35.4
87.5°	0.0	0.0	0.0	3.5	0.0	5.3	10.6	14.2	5.3	7.1	12.4
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°	3289.4	3289.4	3289.4	3289.4	3289.4	3289.4	3289.4	3289.4	3289.4	3289.4	3289.4
2.5°	3333.6	3209.6	2958.1	2711.9	2511.7	2325.8	2192.9	2067.1	2003.4	1999.8	1996.3
5°	3434.6	3174.2	2671.2	2226.6	1868.7	1581.8	1395.8	1263.0	1195.6	1172.6	1169.1
7.5°	3576.3	3184.8	2419.6	1801.4	1379.9	1133.6	1027.4	984.9	970.7	954.7	951.2
10°	3755.2	3209.6	2194.7	1450.7	1087.6	963.6	921.1	903.4	892.7	882.1	878.6
12.5°	3955.4	3232.7	1971.5	1204.5	956.5	892.7	862.6	841.4	827.2	814.8	811.3
15°	4150.2	3246.8	1739.4	1032.7	889.2	837.8	806.0	782.9	763.4	749.3	747.5
17.5°	4343.3	3266.3	1521.6	929.9	834.3	782.9	751.0	722.7	706.8	690.8	689.0
20°	4557.6	3262.8	1316.1	857.3	779.4	728.0	694.4	667.8	651.8	634.1	632.4
22.5°	4756.0	3245.1	1135.4	795.3	722.7	673.1	635.9	609.3	593.4	579.2	577.5
25°	4984.5	3230.9	984.9	738.6	669.6	620.0	579.2	554.4	536.7	524.3	522.5
27.5°	5204.2	3209.6	875.0	687.3	618.2	570.4	531.4	503.1	487.1	478.3	478.3
30°	5420.3	3204.3	834.3	637.7	572.1	524.3	485.3	458.8	446.4	442.8	441.1
32.5°	5680.6	3218.5	852.0	620.0	529.6	481.8	444.6	425.1	412.7	412.7	412.7
35°	5958.7	3215.0	878.6	635.9	501.3	439.3	410.9	398.5	386.1	386.1	386.1
37.5°	6307.7	3220.3	899.8	662.5	490.7	403.9	387.9	372.0	364.9	364.9	364.9
40°	6828.5	3395.6	889.2	685.5	487.1	379.1	347.2	341.9	336.6	336.6	336.6
42.5°	7466.1	3776.5	903.4	687.3	485.3	361.4	318.8	329.5	317.1	315.3	313.5
45°	8164.0	4192.7	993.7	650.1	483.6	352.5	304.7	317.1	297.6	297.6	297.6
47.5°	8856.6	4605.4	1085.8	596.9	478.3	350.7	292.3	285.2	279.9	281.6	281.6
50°	9811.4	4942.0	1121.2	524.3	465.9	347.2	269.2	271.0	267.5	271.0	271.0
52.5°	10851.1	5012.9	1078.7	442.8	430.4	336.6	253.3	260.4	258.6	262.2	262.2
55°	11499.4	4936.7	891.0	368.4	375.5	294.0	237.4	251.5	251.5	251.5	251.5
57.5°	12169.0	4612.5	632.4	299.4	311.8	240.9	223.2	242.7	240.9	239.1	239.1
60°	12650.8	4088.2	416.3	246.2	248.0	198.4	207.2	228.5	226.7	217.9	217.9
62.5°	13010.4	3509.0	267.5	209.0	189.5	178.9	189.5	207.2	200.2	180.7	177.1
65°	12969.6	2706.6	205.5	178.9	155.9	155.9	164.7	180.7	159.4	127.5	124.0
67.5°	<b>12213.3</b>	<b>1831.6</b>	<b>170.0</b>	<b>150.6</b>	<b>131.1</b>	<b>129.3</b>	<b>136.4</b>	<b>150.6</b>	<b>136.4</b>	<b>108.1</b>	<b>104.5</b>
70°	10861.8	1197.4	136.4	116.9	104.5	95.7	109.8	129.3	115.1	86.8	83.3
72.5°	8815.9	729.8	102.7	85.0	76.2	62.0	86.8	106.3	92.1	63.8	60.2
75°	5703.7	372.0	70.9	54.9	40.7	37.2	63.8	79.7	63.8	39.0	33.7
77.5°	2182.3	155.9	39.0	24.8	21.3	17.7	35.4	47.8	26.6	8.9	7.1
80°	419.8	65.5	19.5	12.4	10.6	7.1	5.3	3.5	0.0	0.0	0.0
82.5°	72.6	21.3	7.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	0.0	0.0	0.0	0.0	0.0	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)