

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: P951651

Luminaire Tested: **GALN-SB5D-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39694 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 364.9
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



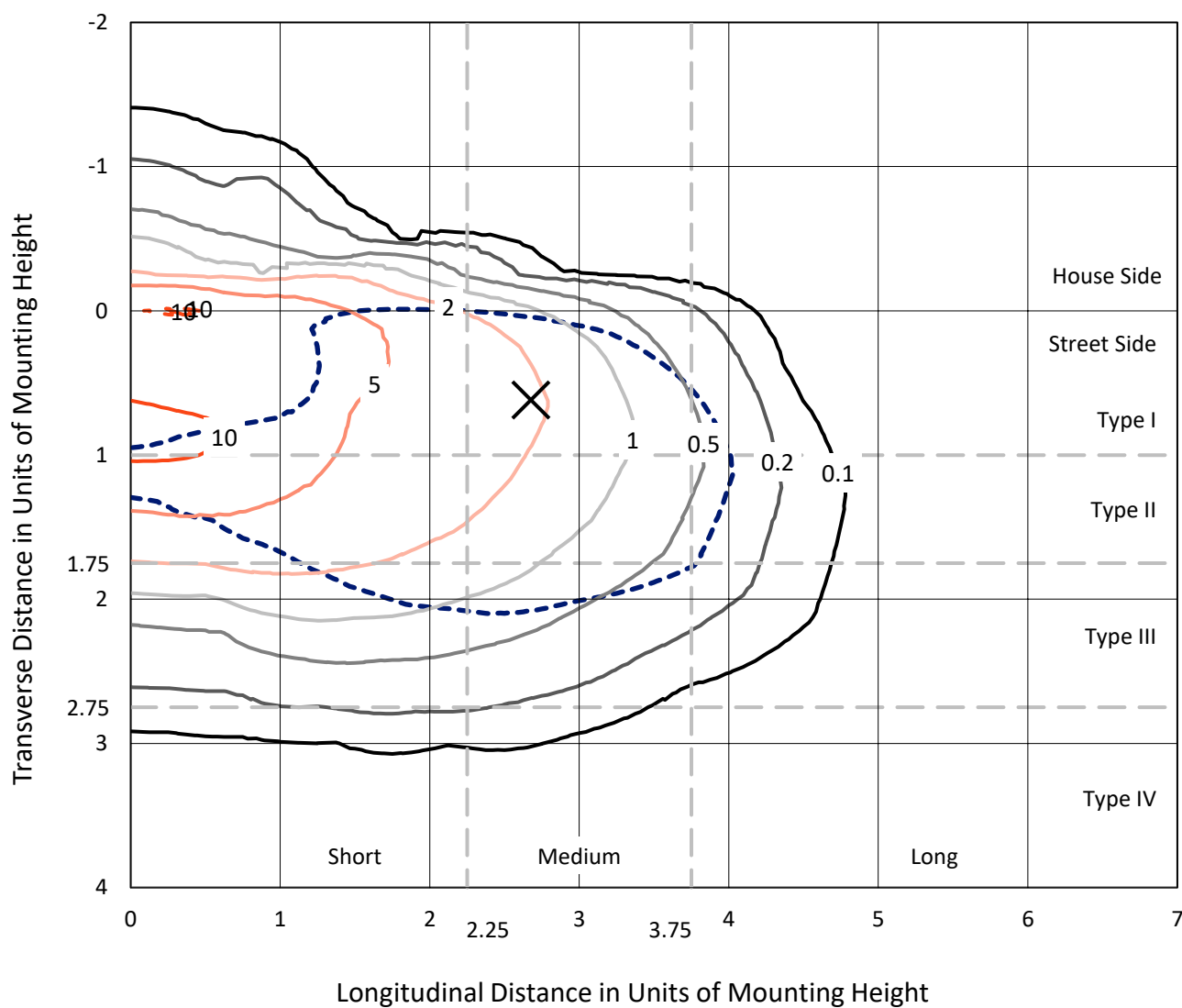
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

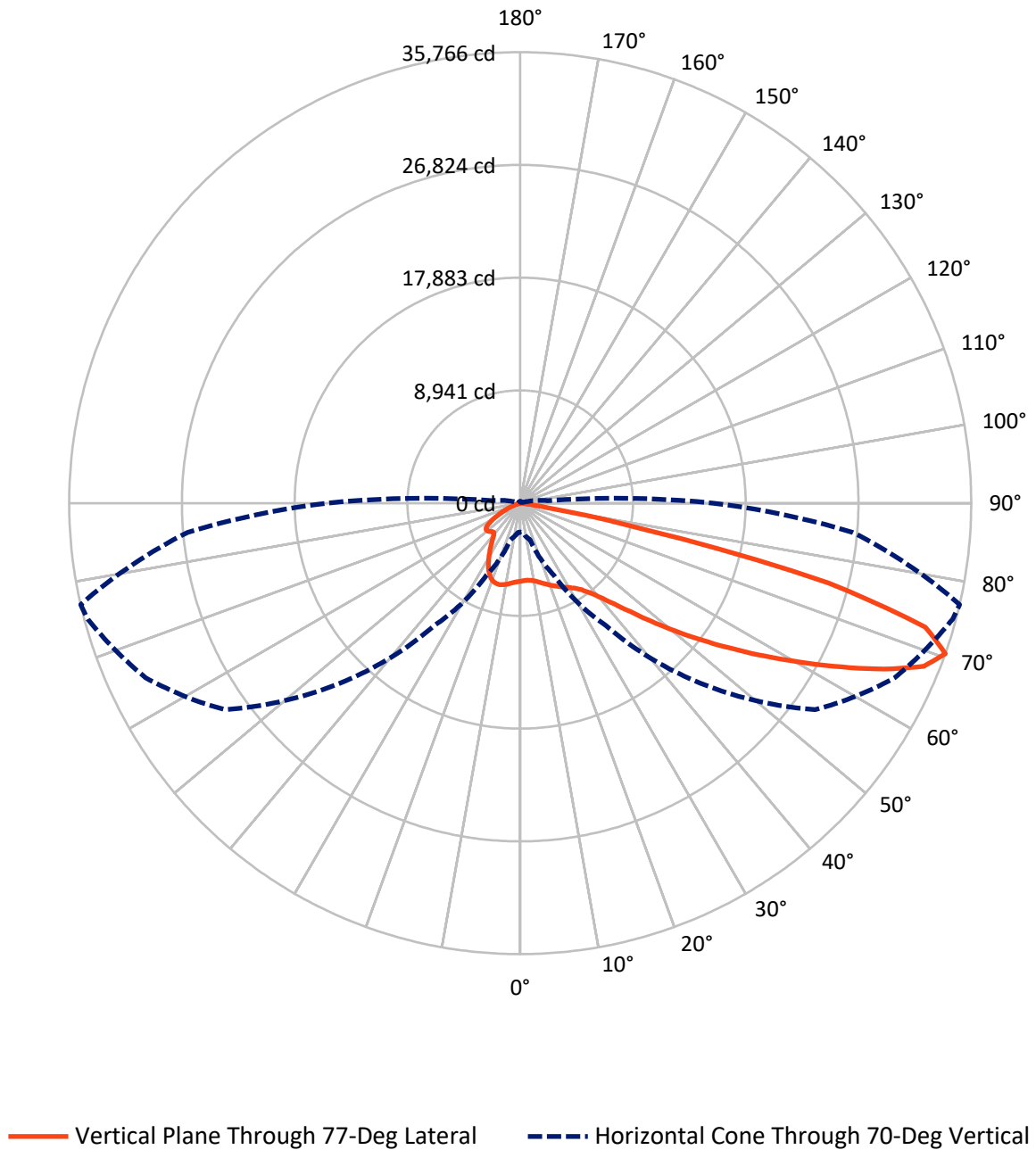
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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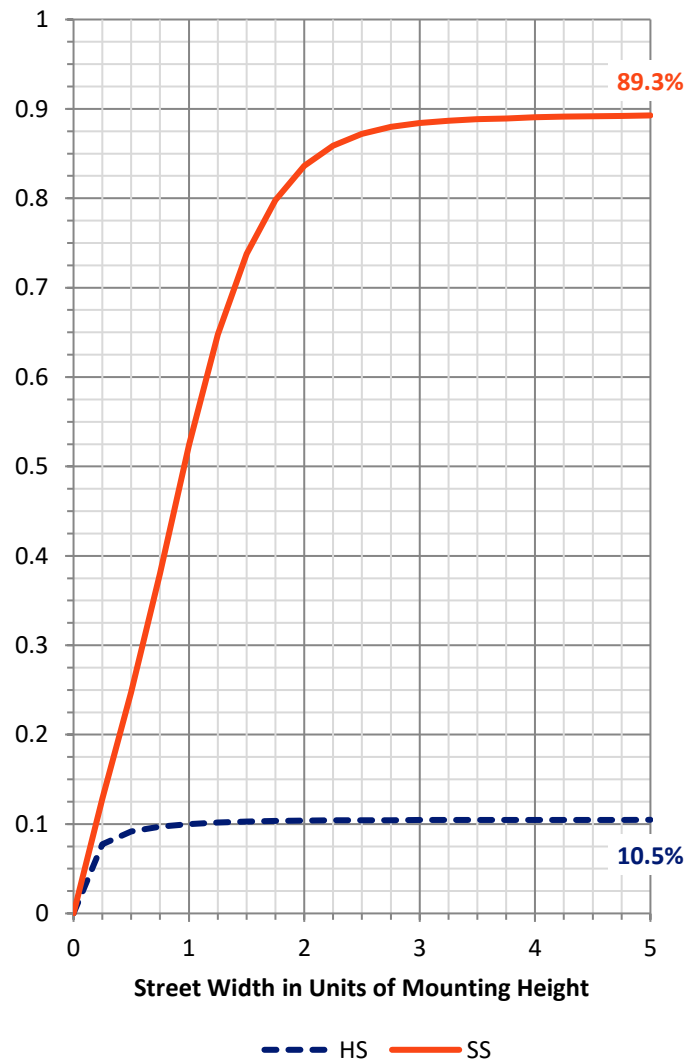
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4184.3	0.0	4184.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	35509.7	0.0	35509.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	39694.0	0.0	39694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.6	1.3
10°-20°	1266.7	3.2
20°-30°	1959.3	4.9
30°-40°	3555.2	9.0
40°-50°	6710.9	16.9
50°-60°	9696.7	24.4
60°-70°	10321.9	26.0
70°-80°	5469.9	13.8
80°-90°	179.6	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°	39694.0	100.0
0°-180°	39694.0	100.0

Coefficient of Utilization



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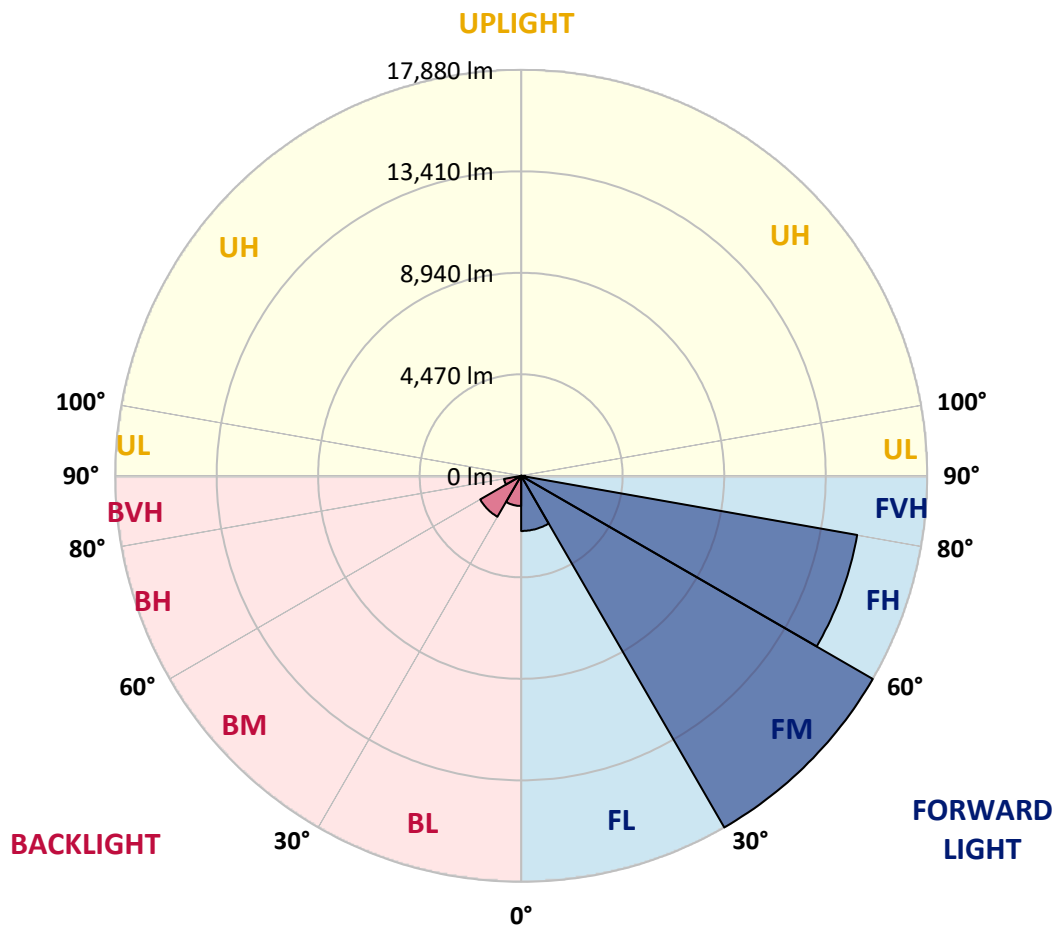
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2430.2	6.1			
FM	(30°-60°)	17880.0	45.0			
FH	(60°-80°)	15024.7	37.9			G5
FVH	(80°-90°)	174.8	0.4			G2/225
BL	(0°-30°)	1329.4	3.3	B3/2500		
BM	(30°-60°)	2083.0	5.2	B2/2500		
BH	(60°-80°)	767.1	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	6191.5	6191.5	6191.5	6191.5	6191.5	6191.5	6191.5	6191.5	6191.5	6191.5	6191.5
2.5°	5813.0	5865.7	5858.2	5893.2	5905.8	5955.9	6006.1	6073.7	6148.9	6146.4	6196.6
5°	5484.7	5537.3	5549.8	5597.5	5657.6	5735.3	5838.1	5973.5	6113.8	6136.4	6236.7
7.5°	5096.1	5151.3	5183.9	5279.1	5389.4	5549.8	5717.8	5915.8	6148.9	6181.5	6374.5
10°	4707.6	4757.7	4800.3	4935.7	5111.2	5349.3	5622.5	5908.3	6221.6	6269.3	6542.5
12.5°	4466.9	4514.6	4562.2	4680.0	4898.1	5188.9	5559.9	5943.4	6341.9	6409.6	6770.6
15°	4381.7	4424.3	4461.9	4567.2	4770.2	5101.1	5547.3	6016.1	6494.9	6585.1	7046.3
17.5°	4394.2	4416.8	4441.9	4522.1	4720.1	5061.0	5569.9	6141.4	6675.3	6755.6	7322.1
20°	4466.9	4479.5	4482.0	4537.1	4712.6	5056.0	5615.0	6261.7	6845.8	6953.6	7595.3
22.5°	4559.7	4564.7	4559.7	4597.3	4760.2	5093.6	5675.2	6407.1	7036.3	7136.6	7871.0
25°	4993.3	4898.1	4777.8	4705.1	4840.4	5166.3	5765.4	6602.6	7244.4	7342.1	8139.3
27.5°	6339.4	6066.2	5635.1	5151.3	5005.9	5271.6	5890.7	6800.7	7454.9	7542.7	8427.5
30°	8525.3	8166.8	7434.9	6344.5	5537.3	5492.2	6053.7	6998.7	7678.0	7773.3	8735.8
32.5°	10716.1	10628.4	9783.6	8274.6	6733.0	5983.5	6324.4	7266.9	7973.8	8049.0	9152.0
35°	12932.1	12754.1	12062.2	10570.8	8575.4	6983.7	6775.6	7617.9	8362.3	8447.6	9758.6
37.5°	14629.1	14521.3	14092.7	12864.4	10761.3	8527.8	7547.7	8161.8	8926.4	9021.6	10535.7
40°	16128.1	16078.0	15932.6	15122.9	13205.3	10548.2	8748.4	9004.1	9708.4	9821.2	11488.2
42.5°	17306.3	17424.1	17506.8	17281.2	15724.5	12854.4	10362.7	10187.2	10798.9	10914.2	12701.4
45°	18512.0	18552.1	18885.5	19211.3	18226.2	15265.8	12182.6	11573.4	12155.0	12297.9	14155.3
47.5°	19286.5	19447.0	20033.5	20607.6	20329.3	17657.2	14137.8	13210.3	13726.7	13994.9	15784.7
50°	19344.2	19647.5	20454.7	21454.8	21860.9	19933.3	16263.5	15075.3	15624.3	15920.0	17524.3
52.5°	18384.1	18855.4	20106.2	21570.1	22688.1	21860.9	18461.8	16940.3	17644.7	18030.7	19329.2
55°	14095.2	14711.8	18795.2	20943.5	22720.7	23322.3	20602.6	18883.0	19895.7	20331.8	21279.4
57.5°	12280.3	12591.2	14777.0	19855.6	22116.6	23911.4	22537.7	20732.9	22344.7	22886.2	23121.8
60°	10217.3	10625.9	12393.1	18075.8	21296.9	23969.1	24247.3	23119.3	24999.3	25608.4	24811.3
62.5°	6943.6	7387.2	9144.4	15017.6	20176.4	23941.5	25648.5	25575.9	27949.7	28603.9	26242.6
65°	4301.5	4579.7	5737.8	12262.8	18609.7	23971.6	27115.0	28558.8	31063.0	31727.3	27350.6
67.5°	3399.1	3526.9	4131.0	9415.2	15910.0	23294.8	28578.9	31363.8	33993.3	34519.8	27689.0
70°	2283.6	2361.3	3005.5	6311.9	11836.6	20171.4	28551.3	32772.6	35502.4	35765.6	26455.7
72.5°	1203.2	1263.4	1757.2	2922.8	7149.1	14338.3	24066.8	31088.1	34000.9	33604.8	22612.9
75°	601.6	701.9	1183.2	1484.0	3053.2	7996.4	14944.9	24510.5	26761.5	25227.4	14508.8
77.5°	456.2	551.5	977.6	977.6	1062.8	2692.2	6329.4	13368.2	12330.5	10267.4	4258.9
80°	290.8	376.0	854.8	739.5	443.7	684.3	1649.4	3745.0	2619.5	1992.8	774.6
82.5°	170.5	245.7	711.9	488.8	248.2	253.2	466.2	797.1	679.3	528.9	238.1
85°	67.7	160.4	488.8	193.0	97.8	62.7	140.4	170.5	140.4	105.3	60.2
87.5°	0.0	37.6	85.2	0.0	7.5	5.0	10.0	12.5	12.5	10.0	20.1
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°	6191.5	6191.5	6191.5	6191.5	6191.5	6191.5	6191.5	6191.5	6191.5	6191.5	6191.5
2.5°	6219.1	6224.1	6239.2	6241.7	6206.6	6161.5	6143.9	6136.4	6106.3	6103.8	6108.8
5°	6294.3	6316.9	6294.3	6229.1	6073.7	5855.6	5690.2	5554.8	5432.0	5394.4	5371.9
7.5°	6444.7	6467.3	6399.6	6143.9	5752.9	5319.2	4928.2	4652.4	4404.3	4311.5	4273.9
10°	6660.3	6690.4	6477.3	5960.9	5269.1	4572.2	3910.5	3444.2	3080.7	2932.8	2870.2
12.5°	6931.0	6943.6	6519.9	5682.7	4639.9	3644.7	2707.2	2208.4	1885.0	1764.7	1727.1
15°	7229.3	7211.8	6524.9	5304.2	3782.6	2576.9	1767.2	1451.4	1321.0	1280.9	1280.9
17.5°	7542.7	7470.0	6424.7	4757.7	2842.6	1762.2	1311.0	1235.8	1213.2	1203.2	1200.7
20°	7851.0	7688.0	6241.7	4043.3	2040.5	1316.0	1190.7	1168.1	1155.6	1150.6	1145.6
22.5°	8131.7	7853.5	5928.3	3213.6	1481.5	1163.1	1125.5	1105.5	1082.9	1072.9	1070.4
25°	8405.0	7948.7	5487.2	2439.0	1185.7	1087.9	1057.8	1020.2	990.1	977.6	972.6
27.5°	8670.7	8008.9	4935.7	1804.8	1057.8	1017.7	962.6	909.9	887.4	882.4	877.3
30°	8953.9	8029.0	4309.0	1346.1	980.1	930.0	849.8	789.6	777.1	779.6	779.6
32.5°	9299.9	8059.0	3677.3	1102.9	914.9	824.7	729.4	666.8	656.8	666.8	664.3
35°	9713.5	8119.2	3068.2	1015.2	857.3	716.9	614.1	561.5	551.5	559.0	556.5
37.5°	10275.0	8217.0	2499.2	997.7	809.7	626.7	516.4	473.8	473.8	476.3	473.8
40°	11022.0	8477.7	1990.3	985.1	784.6	559.0	436.2	418.6	426.1	431.2	431.2
42.5°	11931.9	9031.6	1646.9	970.1	757.0	528.9	396.1	388.5	401.1	406.1	406.1
45°	12952.1	9733.5	1526.6	945.0	732.0	549.0	378.5	368.5	383.5	386.0	388.5
47.5°	14007.4	10420.3	1511.5	917.5	706.9	579.0	373.5	350.9	368.5	371.0	373.5
50°	15075.3	10869.0	1526.6	874.8	666.8	579.0	376.0	333.4	348.4	356.0	358.5
52.5°	16150.7	11074.6	1516.6	782.1	596.6	544.0	376.0	318.4	333.4	338.4	338.4
55°	17193.5	11034.5	1363.6	644.2	506.4	481.3	366.0	305.8	315.8	318.4	318.4
57.5°	18018.2	10475.5	1080.4	501.3	411.1	401.1	333.4	290.8	298.3	295.8	295.8
60°	18449.3	9247.2	772.1	386.0	323.4	315.8	293.3	270.7	275.7	263.2	260.7
62.5°	18454.3	7622.9	516.4	305.8	258.2	250.7	250.7	243.1	238.1	213.1	205.5
65°	18060.8	5820.6	343.4	243.1	208.1	195.5	210.6	208.1	190.5	155.4	150.4
67.5°	17168.4	3815.2	260.7	190.5	160.4	152.9	167.9	175.5	162.9	130.3	127.8
70°	15333.5	2220.9	215.6	147.9	120.3	112.8	135.4	150.4	135.4	105.3	100.3
72.5°	12736.5	1198.2	175.5	110.3	82.7	75.2	107.8	122.8	107.8	77.7	75.2
75°	8264.6	641.7	135.4	72.7	42.6	47.6	80.2	90.2	75.2	50.1	45.1
77.5°	2774.9	283.3	85.2	35.1	20.1	20.1	47.6	55.1	35.1	17.5	15.0
80°	619.2	117.8	35.1	15.0	7.5	7.5	10.0	10.0	5.0	0.0	0.0
82.5°	203.0	47.6	15.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	77.7	17.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	30.1	2.5	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)