

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: P533730

Luminaire Tested: **GALN-SA9A-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28087 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 274
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

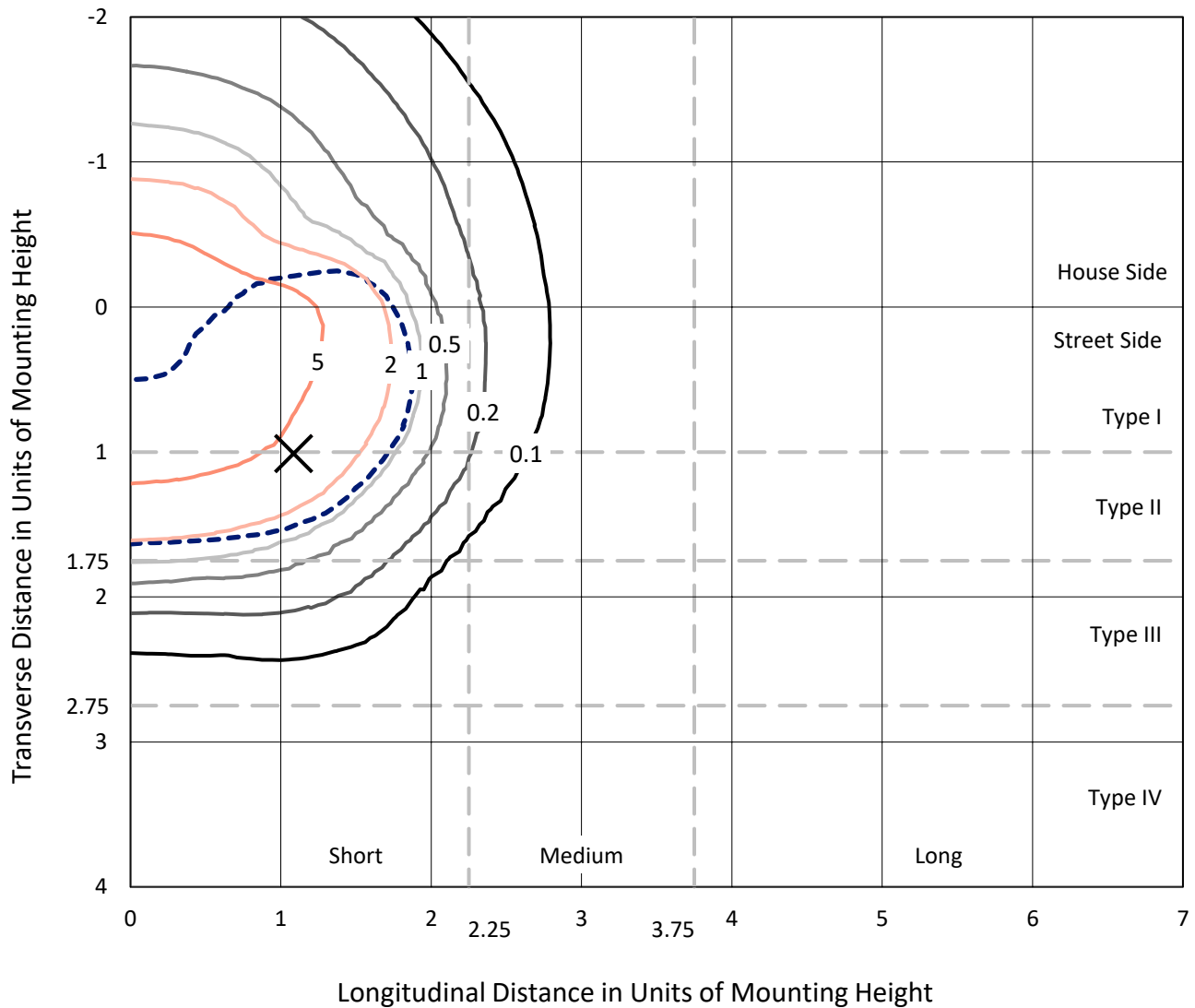


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

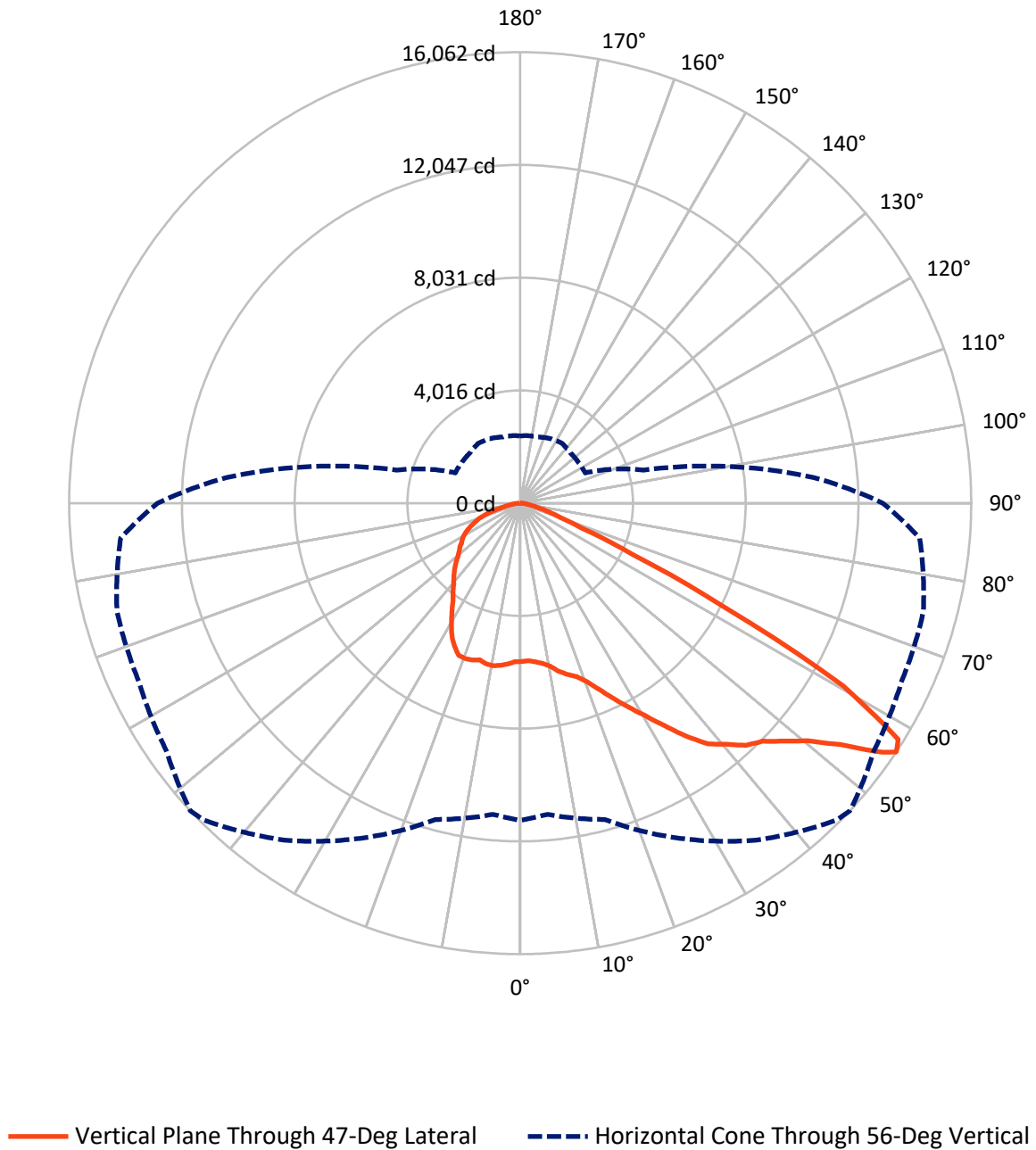


Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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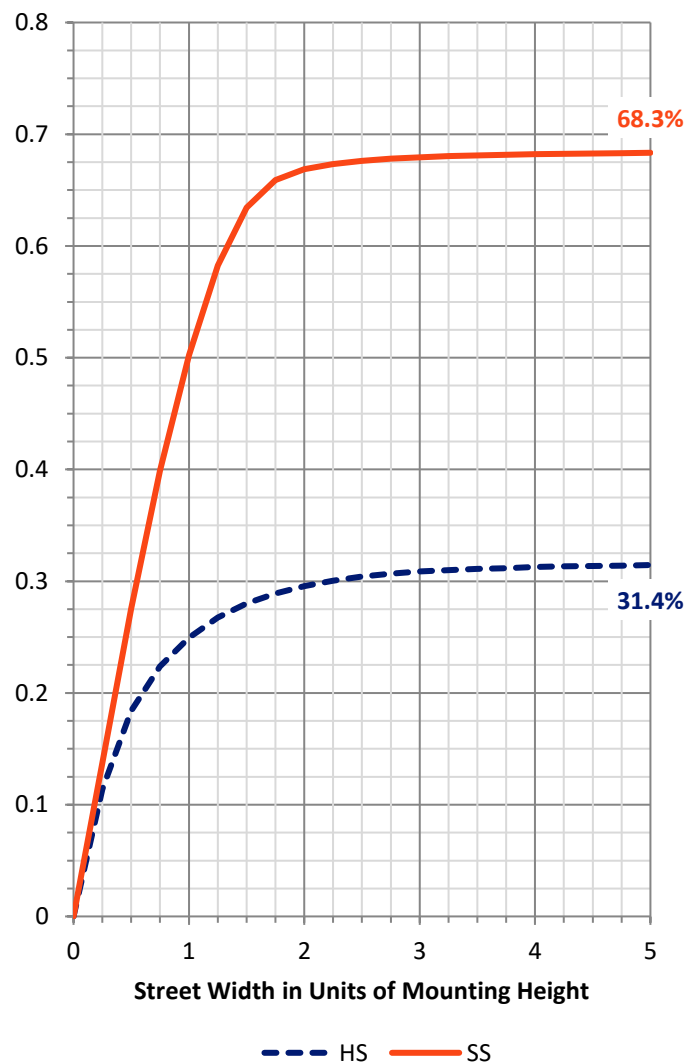
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8900.4	0.0	8900.4
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	19186.6	0.0	19186.6
	% Fixture	68.3	0.0	68.3
Total	Lumens	28087.0	0.0	28087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.7	2.0
10°-20°	1734.1	6.2
20°-30°	3065.5	10.9
30°-40°	4604.2	16.4
40°-50°	6318.8	22.5
50°-60°	7528.0	26.8
60°-70°	3221.5	11.5
70°-80°	911.7	3.2
80°-90°	153.4	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°	28087.0	100.0
0°-180°	28087.0	100.0

Coefficient of Utilization



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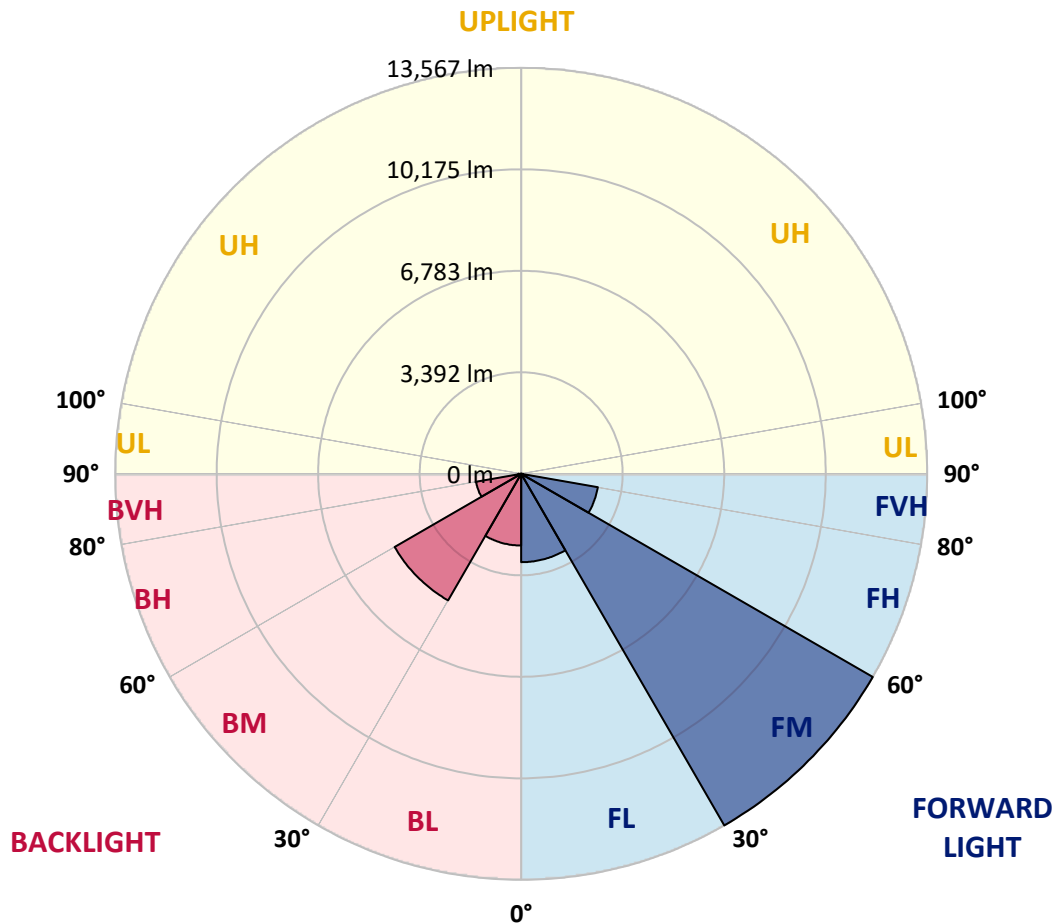
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2952.9	10.5			
FM	(30°-60°)	13566.7	48.3			
FH	(60°-80°)	2601.9	9.3			G2/5000
FVH	(80°-90°)	65.1	0.2			G1/100
BL	(0°-30°)	2396.4	8.5	B3/2500		
BM	(30°-60°)	4884.4	17.4	B3/5000		
BH	(60°-80°)	1531.4	5.5	B3/2500		G3/2500
BVH	(80°-90°)	88.3	0.3			G1/100
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°	47°	55°	65°	75°	85°
0°	5641.8	5641.8	5641.8	5641.8	5641.8	5641.8	5641.8	5641.8	5641.8	5641.8	5641.8
2.5°	5620.3	5609.6	5602.4	5659.7	5638.2	5641.8	5620.3	5641.8	5656.2	5623.9	5670.5
5°	5609.6	5641.8	5613.2	5631.1	5677.6	5663.3	5677.6	5720.6	5709.9	5699.1	5684.8
7.5°	5709.9	5713.5	5735.0	5742.1	5756.5	5742.1	5763.6	5803.0	5792.3	5731.4	5738.5
10°	5853.2	5860.3	5863.9	5903.3	5928.4	5932.0	5906.9	5871.1	5867.5	5949.9	5892.6
12.5°	6017.9	6000.0	6043.0	6057.3	6086.0	6118.2	6150.5	6075.3	6121.8	6125.4	6057.3
15°	6257.9	6275.9	6225.7	6225.7	6236.5	6240.0	6329.6	6293.8	6286.6	6247.2	6275.9
17.5°	6616.2	6494.4	6490.8	6440.6	6433.5	6462.1	6494.4	6523.0	6619.7	6540.9	6386.9
20°	6877.7	6906.3	6802.4	6741.5	6752.3	6816.8	6784.5	6913.5	6981.5	6852.6	6702.1
22.5°	7339.7	7243.0	7268.1	7132.0	7142.7	7210.8	7207.2	7339.7	7379.1	7175.0	6956.5
25°	7651.4	7626.3	7647.8	7540.3	7554.7	7608.4	7694.4	7912.9	7848.4	7622.7	7117.7
27.5°	8106.3	8056.2	8038.3	7998.9	7984.5	8127.8	8228.1	8460.9	8414.4	8084.8	7404.2
30°	8572.0	8539.8	8557.7	8396.5	8453.8	8758.3	8786.9	9105.7	9084.2	8503.9	7723.0
32.5°	8894.4	8912.3	8944.5	8855.0	9109.3	9352.9	9449.6	9811.4	9829.3	9223.9	8339.2
35°	9413.8	9352.9	9370.8	9474.7	9592.9	10037.1	10194.7	10434.7	10585.1	9979.8	8930.2
37.5°	9739.8	9804.2	9729.0	9893.8	10201.9	10735.6	10878.9	11126.0	11283.6	10724.8	9736.2
40°	10248.4	10144.5	10198.3	10316.5	10631.7	11326.6	11287.2	11541.6	11591.7	11358.9	10488.4
42.5°	10796.5	10746.3	10671.1	10939.8	11204.8	11709.9	11788.7	11670.5	11924.8	11978.6	11563.1
45°	11452.0	11512.9	11523.7	11530.8	11763.7	12204.3	12096.8	11992.9	12286.6	12677.1	12229.3
47.5°	12061.0	11867.5	12007.2	12200.7	12530.2	12533.8	12659.2	12412.0	12723.7	13071.1	12831.1
50°	12265.1	12172.0	12358.3	12723.7	13232.3	13286.0	13300.4	12949.3	13110.5	13386.3	13038.9
52.5°	12186.3	12154.1	12630.5	13196.5	13941.6	14213.8	14285.5	13852.0	13941.6	13816.2	13497.4
55°	11810.2	11906.9	12386.9	13540.4	14683.1	15524.9	15661.0	15112.9	14543.4	14640.1	14289.0
56°	11294.4	11126.0	11663.4	13149.9	14650.8	15951.1	16062.2	15378.0	14991.1	14865.8	14281.9
57.5°	9582.1	9363.6	10069.3	11831.7	13837.7	15789.9	15872.3	15489.0	14915.9	14661.6	13239.5
60°	5609.6	5717.0	6612.6	8160.0	10674.7	12945.7	13221.6	13501.0	13117.7	11978.6	9854.4
62.5°	2708.1	2640.0	3281.2	4678.2	6505.1	8263.9	8181.5	8966.0	9395.9	8511.1	6222.1
65°	1418.5	1411.4	1791.1	2554.0	3574.9	4341.5	4416.7	4839.4	5430.5	4384.5	3159.4
67.5°	1042.4	1071.1	1260.9	1794.6	2299.7	2346.3	2335.5	2546.9	2604.2	2203.0	1941.5
70°	816.7	831.0	970.8	1364.8	1712.2	1533.1	1500.9	1526.0	1694.3	1766.0	1680.0
72.5°	591.0	605.4	723.6	920.6	1071.1	1046.0	1067.5	1207.2	1414.9	1490.2	1400.6
75°	394.0	404.8	469.3	562.4	634.0	684.2	723.6	884.8	1078.2	1121.2	1078.2
77.5°	272.2	283.0	326.0	397.6	404.8	437.0	451.3	526.6	644.8	698.5	669.9
80°	154.0	154.0	175.5	204.2	250.7	293.7	300.9	361.8	415.5	451.3	458.5
82.5°	71.6	75.2	93.1	125.4	164.8	204.2	211.3	250.7	290.2	326.0	336.7
85°	35.8	39.4	53.7	75.2	100.3	121.8	118.2	121.8	129.0	121.8	125.4
87.5°	10.7	10.7	14.3	17.9	14.3	17.9	17.9	21.5	25.1	28.7	32.2
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°	5641.8	5641.8	5641.8	5641.8	5641.8	5641.8	5641.8	5641.8	5641.8	5641.8	5641.8
2.5°	5674.1	5684.8	5613.2	5681.2	5656.2	5652.6	5702.7	5695.6	5713.5	5706.3	5663.3
5°	5677.6	5652.6	5727.8	5659.7	5692.0	5760.0	5713.5	5820.9	5767.2	5803.0	5724.2
7.5°	5788.7	5795.9	5781.5	5810.2	5795.9	5828.1	5803.0	5828.1	5785.1	5788.7	5860.3
10°	5885.4	5863.9	5889.0	5853.2	5878.2	5867.5	5810.2	5792.3	5806.6	5788.7	5835.3
12.5°	6064.5	6025.1	6007.2	5964.2	5935.6	5828.1	5738.5	5688.4	5756.5	5767.2	5745.7
15°	6247.2	6250.8	6168.4	6071.7	5892.6	5731.4	5752.9	5770.8	5770.8	5799.4	5745.7
17.5°	6361.8	6361.8	6286.6	6093.2	5910.5	5817.3	5795.9	5738.5	5688.4	5681.2	5677.6
20°	6562.4	6501.5	6329.6	6089.6	5903.3	5860.3	5699.1	5563.0	5459.1	5423.3	5419.7
22.5°	6791.7	6637.7	6397.7	6096.8	5892.6	5831.7	5530.8	5326.6	5140.3	5061.5	5072.3
25°	7003.0	6755.9	6437.1	6064.5	5853.2	5559.4	5222.7	4939.7	4746.3	4681.8	4649.6
27.5°	7149.9	6881.2	6437.1	6093.2	5706.3	5255.0	4911.1	4549.3	4380.9	4337.9	4345.1
30°	7346.9	7038.8	6548.1	6032.3	5412.6	4860.9	4449.0	4212.6	4112.3	4076.4	4101.5
32.5°	7809.0	7450.8	6702.1	5885.4	5065.1	4466.9	4133.8	4001.2	3854.4	3782.7	3757.6
35°	8310.5	7841.2	6852.6	5638.2	4674.7	4108.7	3900.9	3779.1	3603.6	3524.8	3539.1
37.5°	9019.8	8342.7	6863.3	5229.9	4252.0	3908.1	3718.2	3528.4	3385.1	3263.3	3227.5
40°	9976.2	9026.9	6838.3	4800.0	3911.7	3671.7	3532.0	3295.5	3134.3	3048.4	3066.3
42.5°	10818.0	9829.3	6734.4	4312.9	3603.6	3510.5	3352.9	3120.0	2962.4	2872.9	2865.7
45°	11527.2	10420.4	6537.4	3897.3	3345.7	3331.4	3148.7	2969.6	2844.2	2761.8	2797.6
47.5°	12182.8	10896.8	6240.0	3481.8	3109.3	3137.9	2962.4	2851.4	2772.6	2697.3	2693.7
50°	12419.2	10889.6	5978.5	3137.9	2919.4	2905.1	2897.9	2779.7	2697.3	2632.9	2661.5
52.5°	12813.2	11011.4	5695.6	2901.5	2747.5	2751.1	2776.1	2690.2	2597.0	2557.6	2593.4
55°	13379.2	11029.3	5072.3	2625.7	2604.2	2629.3	2629.3	2572.0	2493.1	2460.9	2443.0
56°	12917.1	10495.6	4549.3	2554.0	2532.6	2532.6	2600.6	2536.1	2439.4	2414.3	2392.9
57.5°	11914.1	9195.3	3807.8	2468.1	2435.8	2486.0	2521.8	2453.7	2364.2	2328.4	2349.9
60°	8217.4	6222.1	2862.1	2281.8	2281.8	2364.2	2392.9	2292.6	2253.1	2249.6	2220.9
62.5°	4796.4	3625.1	2238.8	2113.4	2120.6	2188.7	2210.2	2152.8	2102.7	2163.6	2192.3
65°	2543.3	2163.6	1920.0	1934.3	1937.9	1991.7	2084.8	2081.2	2077.6	2095.5	2099.1
67.5°	1841.2	1798.2	1744.5	1730.2	1737.3	1776.7	1869.9	1941.5	1937.9	1894.9	1862.7
70°	1640.6	1579.7	1547.5	1551.1	1522.4	1569.0	1644.2	1690.8	1608.4	1558.2	1536.7
72.5°	1364.8	1346.9	1325.4	1329.0	1271.6	1260.9	1174.9	1174.9	1153.4	1139.1	1164.2
75°	1042.4	1035.2	1046.0	1028.1	967.2	902.7	852.5	806.0	734.3	705.7	691.3
77.5°	659.1	680.6	705.7	666.3	641.2	594.6	544.5	497.9	440.6	408.4	408.4
80°	447.8	465.7	483.6	476.4	447.8	404.8	365.4	315.2	275.8	250.7	247.2
82.5°	340.3	354.6	379.7	351.0	322.4	286.6	254.3	218.5	182.7	154.0	154.0
85°	121.8	139.7	154.0	168.4	179.1	182.7	157.6	129.0	103.9	82.4	78.8
87.5°	32.2	35.8	39.4	35.8	35.8	35.8	39.4	35.8	32.2	25.1	25.1
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)