

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: P269157

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-SL3-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10898.4 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 124
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: 25 FT

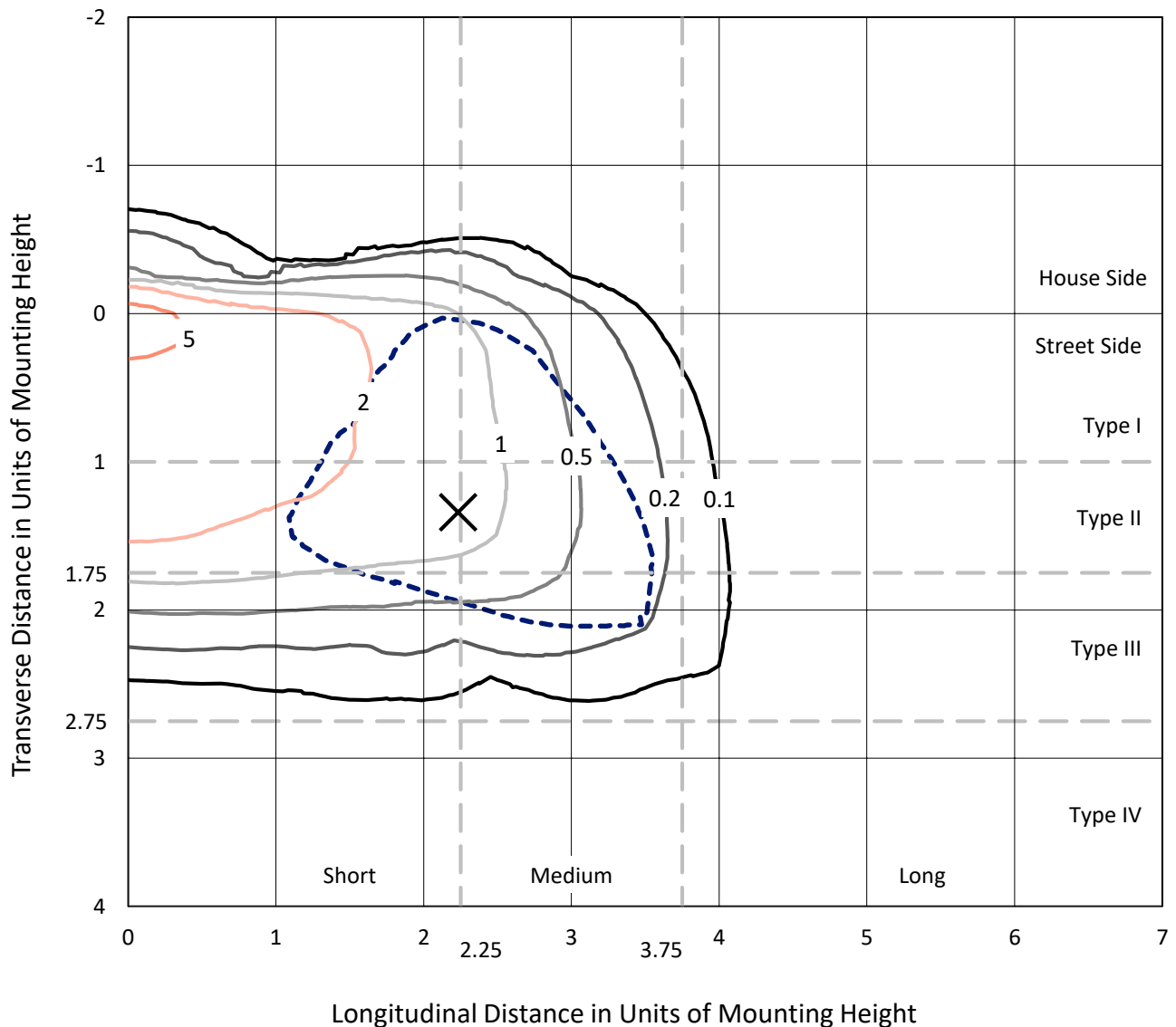


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

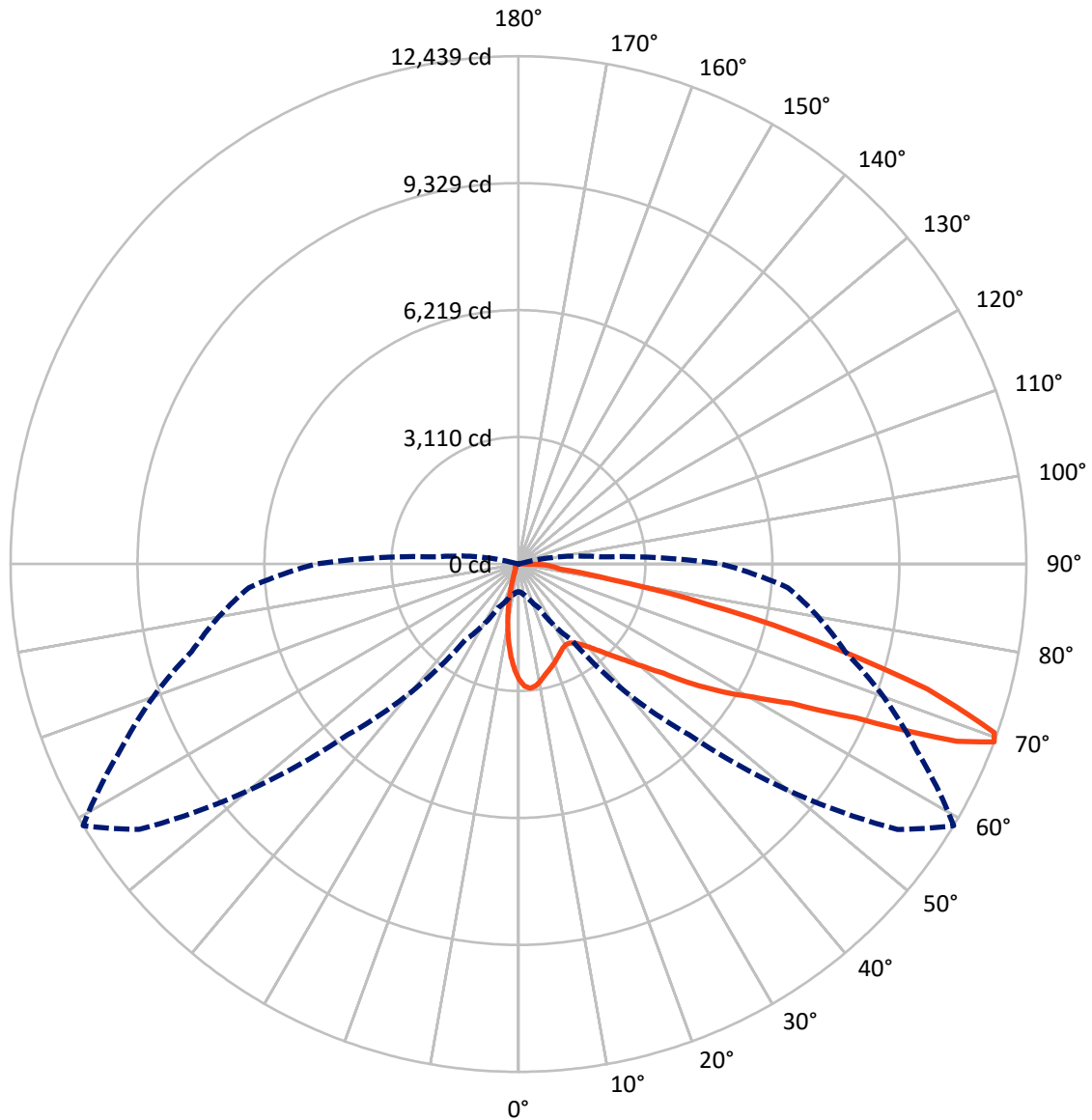


Based on 20 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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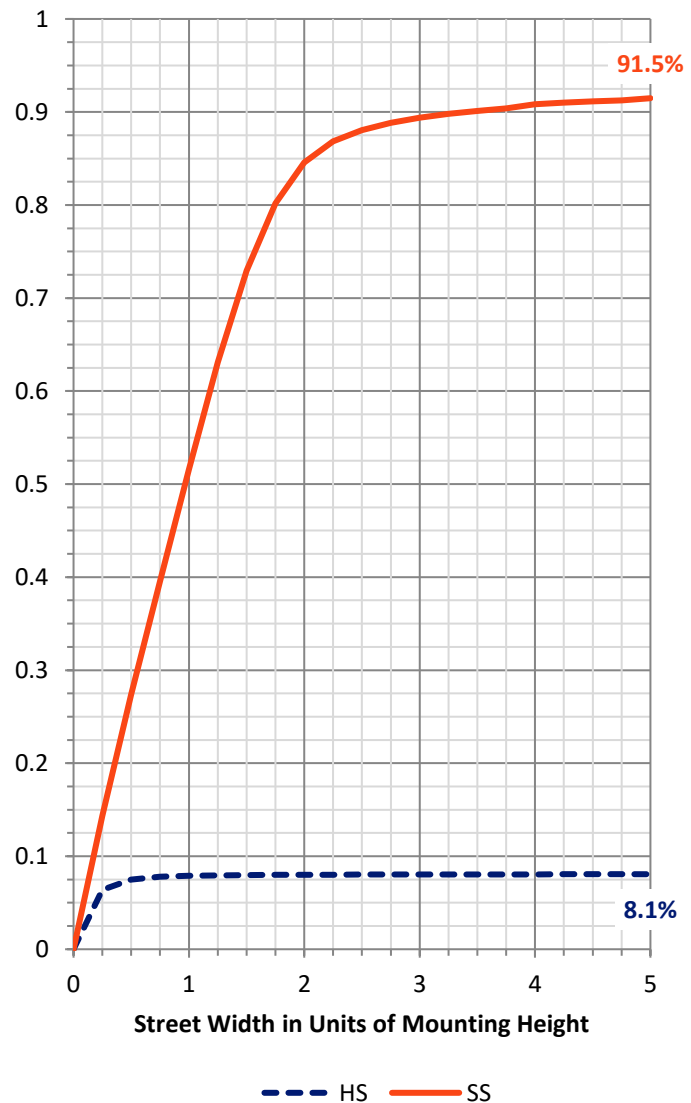
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	887.5	0.0	887.5
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	10010.8	0.0	10010.8
	% Fixture	91.9	0.0	91.9
Total	Lumens	10898.4	0.0	10898.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.3	2.1
10°-20°	475.8	4.4
20°-30°	640.2	5.9
30°-40°	929.5	8.5
40°-50°	1547.8	14.2
50°-60°	2414.5	22.2
60°-70°	2987.7	27.4
70°-80°	1514.2	13.9
80°-90°	158.4	1.5
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°	10898.4	100.0
0°-180°	10898.4	100.0



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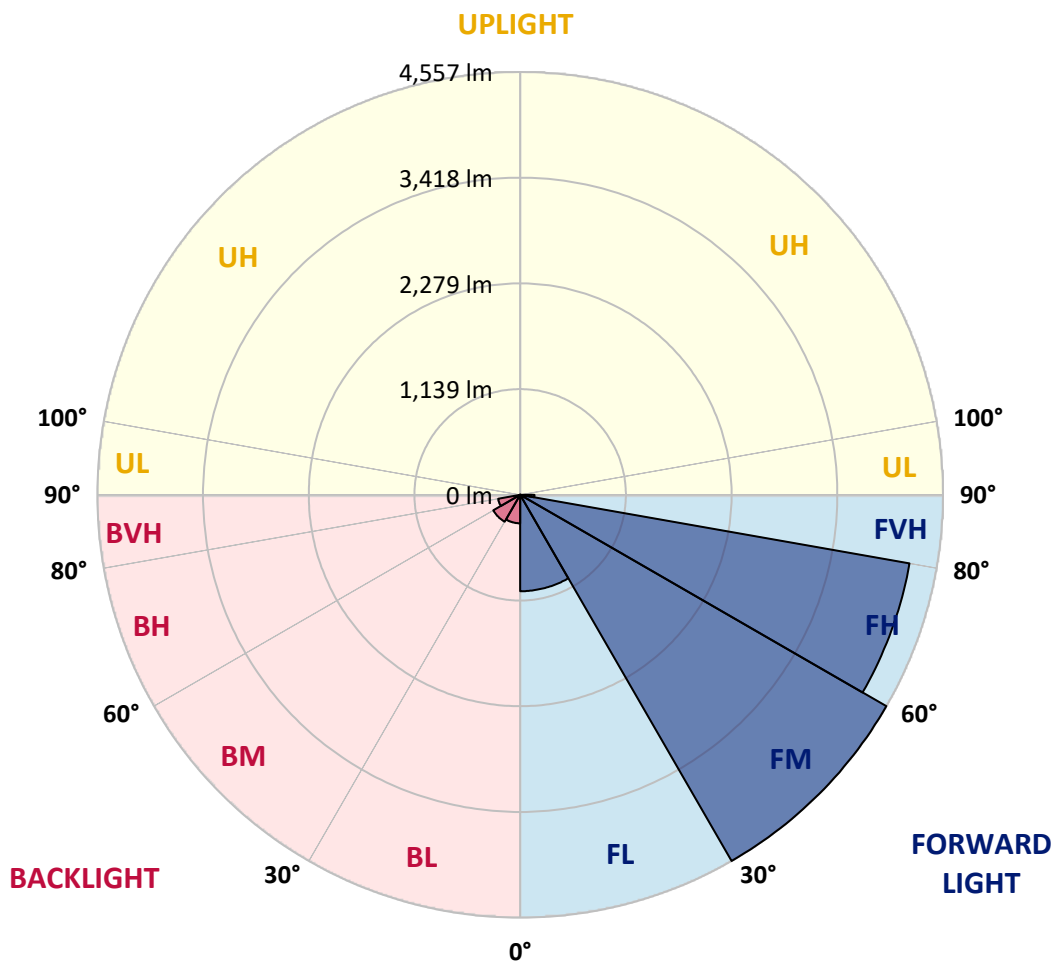
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1039.0	9.5			
FM	(30°-60°)	4557.4	41.8			
FH	(60°-80°)	4260.9	39.1			G2/5000
FVH	(80°-90°)	153.6	1.4			G2/225
BL	(0°-30°)	307.2	2.8	B1/500		
BM	(30°-60°)	334.4	3.1	B1/1000		
BH	(60°-80°)	241.0	2.2	B1/500		G1/500
BVH	(80°-90°)	4.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2836.7	2836.7	2836.7	2836.7	2836.7	2836.7	2836.7	2836.7	2836.7	2836.7	2836.7
2.5°	3109.0	3107.9	3094.3	3088.2	3077.1	3053.6	3017.2	2998.2	2967.3	2913.7	2841.6
5°	3080.7	3095.5	3103.6	3104.2	3112.2	3103.6	3070.9	3054.9	3012.3	2926.0	2796.7
7.5°	2888.5	2894.0	2916.7	2936.5	2974.7	3011.1	3022.7	3016.0	2990.7	2898.3	2726.4
10°	2682.6	2688.2	2715.2	2741.2	2792.9	2849.1	2908.3	2920.5	2931.0	2858.9	2658.7
12.5°	2505.2	2510.8	2538.4	2572.2	2632.8	2701.7	2793.5	2813.9	2860.2	2821.2	2604.4
15°	2352.3	2354.7	2381.9	2423.7	2495.9	2584.7	2688.7	2721.4	2792.3	2794.7	2556.9
17.5°	2222.2	2228.4	2245.0	2285.1	2364.0	2473.8	2595.2	2641.9	2725.2	2772.6	2510.8
20°	2142.7	2148.9	2148.3	2170.6	2241.5	2358.5	2501.4	2557.6	2658.7	2749.8	2469.4
22.5°	2127.4	2127.4	2111.3	2108.2	2150.2	2248.2	2404.0	2472.4	2598.7	2739.9	2440.4
25°	2182.3	2179.7	2139.8	2107.1	2109.0	2167.4	2309.8	2391.1	2548.3	2746.7	2425.1
27.5°	2298.0	2295.0	2244.4	2182.3	2132.2	2131.7	2238.2	2325.8	2508.2	2778.7	2431.3
30°	2458.3	2457.0	2402.2	2323.9	2233.4	2150.2	2213.7	2293.2	2482.3	2836.7	2445.4
32.5°	2633.3	2631.4	2590.3	2507.6	2392.9	2233.4	2239.6	2306.0	2489.7	2913.7	2480.0
35°	2818.8	2815.7	2798.0	2725.7	2599.4	2386.8	2324.5	2376.3	2536.5	3028.9	2547.7
37.5°	3019.7	3022.7	3035.7	2966.7	2834.2	2601.9	2466.9	2502.0	2630.9	3185.5	2657.9
40°	3316.2	3315.6	3319.9	3229.2	3101.7	2865.1	2666.0	2677.0	2788.6	3393.2	2825.6
42.5°	3854.2	3816.5	3702.5	3517.7	3389.5	3165.7	2916.7	2905.1	2981.6	3650.2	3060.3
45°	4577.0	4496.9	4201.2	3846.7	3682.8	3504.7	3225.5	3187.9	3236.7	3958.9	3350.0
47.5°	5198.9	5115.7	4697.1	4189.4	3994.0	3826.4	3587.3	3519.5	3535.5	4304.7	3717.4
50°	5410.2	5369.6	5004.1	4487.8	4295.4	4231.3	4007.0	3924.4	3901.6	4704.7	4143.3
52.5°	5336.9	5333.9	5090.3	4681.2	4571.6	4650.3	4535.2	4439.7	4355.8	5126.2	4576.4
55°	5219.2	5234.7	5125.5	4850.7	4847.0	5033.1	5257.4	5177.9	4935.1	5584.0	4949.9
57.5°	4894.4	4960.4	5105.7	5171.2	5322.7	5513.2	5858.8	5905.7	5618.5	5934.7	5259.8
60°	3971.2	4116.0	4591.9	5217.4	5935.9	6410.5	6584.8	6624.9	6179.4	6226.2	5678.4
62.5°	2818.8	2966.7	3570.0	4628.2	5945.2	7589.4	7666.5	7509.2	6796.8	6658.1	6400.0
65°	1496.2	1610.3	2103.3	3340.7	5154.5	7863.0	9557.7	9089.4	7886.4	7508.0	7332.3
67.5°	765.4	799.9	996.0	1634.9	3543.5	6984.2	11253.1	11582.8	9764.1	8351.2	7287.4
69°	677.3	697.7	827.7	1182.0	2269.1	5915.6	11335.7	12438.8	10747.1	8280.8	6622.5
70°	655.8	673.5	791.9	1069.8	1773.7	4961.0	11019.6	12363.6	10998.6	8013.4	6125.7
72.5°	556.5	572.0	705.0	945.3	1441.5	2462.7	8951.3	10476.7	9869.6	6675.5	4434.0
75°	372.3	422.7	676.7	886.2	1341.0	1398.9	5901.4	7570.8	7032.9	4502.5	2309.8
77.5°	89.3	96.2	191.0	705.0	1226.4	1231.2	3035.2	4706.5	3838.7	1604.7	546.0
80°	48.1	46.3	53.5	139.9	1141.9	1155.5	1366.3	2284.5	1370.5	266.3	179.9
82.5°	33.9	32.1	34.6	58.6	359.3	1052.6	988.5	1034.0	568.2	102.2	80.8
85°	12.3	11.7	19.1	53.0	112.7	605.2	1015.7	852.9	460.3	46.8	59.2
87.5°	4.3	3.8	7.4	28.9	34.6	257.6	626.7	644.7	181.2	28.3	27.8
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°	2836.7	2836.7	2836.7	2836.7	2836.7	2836.7	2836.7	2836.7	2836.7	2836.7	2836.7
2.5°	2811.4	2773.2	2703.0	2630.9	2564.3	2484.3	2444.1	2404.8	2388.1	2381.9	2352.9
5°	2730.0	2665.5	2516.2	2366.4	2228.4	2081.7	1985.1	1907.3	1861.7	1839.5	1804.4
7.5°	2625.9	2519.9	2293.7	2062.7	1847.5	1635.5	1478.4	1357.7	1274.4	1234.5	1198.0
10°	2524.9	2383.7	2062.0	1747.2	1455.1	1173.9	957.1	799.9	699.5	653.2	623.7
12.5°	2434.2	2251.2	1838.3	1439.7	1072.9	743.8	523.3	398.0	335.8	314.2	303.8
15°	2353.5	2129.3	1627.0	1147.5	726.5	425.3	285.9	243.4	233.6	233.6	232.3
17.5°	2277.2	2009.7	1422.9	873.2	456.0	260.1	217.5	212.0	212.0	214.4	214.4
20°	2203.8	1895.7	1225.7	626.7	287.2	206.4	196.5	195.3	196.5	199.7	199.7
22.5°	2140.9	1792.1	1041.5	430.2	213.3	186.0	181.2	179.3	179.9	181.7	183.1
25°	2094.0	1704.7	867.8	291.5	183.7	169.5	163.9	160.8	158.5	158.5	159.5
27.5°	2064.6	1630.7	699.5	212.0	165.2	154.1	145.4	140.6	134.9	132.0	133.0
30°	2042.9	1560.4	541.7	173.2	148.0	136.8	125.8	117.7	109.8	106.0	107.3
32.5°	2034.9	1503.8	404.9	152.8	132.5	120.2	106.5	96.2	87.6	84.4	85.1
35°	2056.5	1458.7	296.4	138.0	120.2	104.7	89.3	77.7	70.8	69.0	69.7
37.5°	2113.3	1434.7	221.8	125.8	109.1	91.8	74.6	63.5	59.2	59.2	59.7
40°	2220.4	1434.1	178.1	117.0	99.3	79.5	61.7	53.5	51.2	52.5	53.0
42.5°	2376.9	1466.8	155.2	109.1	90.5	67.8	51.2	45.6	44.9	46.3	46.8
45°	2590.8	1526.5	143.0	102.2	81.3	56.8	43.2	39.4	39.4	41.3	42.0
47.5°	2852.7	1614.1	132.5	95.5	72.1	47.4	37.0	34.6	35.2	37.0	37.5
50°	3168.2	1724.3	122.0	88.2	65.3	39.4	32.1	30.3	30.8	33.2	33.9
52.5°	3527.6	1872.8	113.4	81.3	56.8	32.7	27.0	26.0	27.0	29.6	30.3
55°	3835.7	2005.9	102.9	75.7	45.6	27.0	22.2	22.2	23.4	26.5	27.0
57.5°	4132.2	2145.2	93.7	65.3	35.8	21.6	18.4	19.1	20.9	24.1	24.7
60°	4567.3	2381.2	82.6	54.8	27.0	17.2	15.5	16.0	18.4	21.6	22.2
62.5°	5306.1	2740.5	71.4	45.6	20.9	13.6	12.3	13.6	16.7	20.3	20.9
65°	5972.9	2886.7	58.6	38.2	16.0	10.5	10.5	12.3	16.0	19.8	20.3
67.5°	5601.3	2429.9	45.6	30.3	12.3	8.1	8.7	11.7	15.5	19.8	20.3
69°	4953.6	1986.8	38.8	24.1	10.5	7.4	8.1	11.7	15.5	19.1	19.8
70°	4448.9	1677.5	34.6	20.3	9.3	7.4	8.1	11.0	15.5	19.1	19.8
72.5°	2979.7	905.9	27.8	14.8	8.7	6.7	6.7	11.0	14.8	18.4	19.1
75°	1280.7	250.2	22.2	10.5	7.4	6.2	6.2	10.5	14.2	17.8	19.1
77.5°	234.2	63.5	17.8	9.3	7.4	6.2	5.6	9.8	13.6	17.2	17.8
80°	93.1	31.4	14.2	8.1	6.7	5.6	4.9	9.3	12.9	16.7	17.2
82.5°	56.1	17.8	11.7	7.4	6.7	4.9	4.3	8.1	12.3	16.0	16.7
85°	45.6	12.3	9.3	7.4	6.2	4.9	3.8	7.4	11.0	15.5	16.0
87.5°	22.2	8.7	8.7	6.7	6.2	4.9	3.8	6.7	10.5	14.8	15.5
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)