

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: P269151

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14345.3 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 191
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

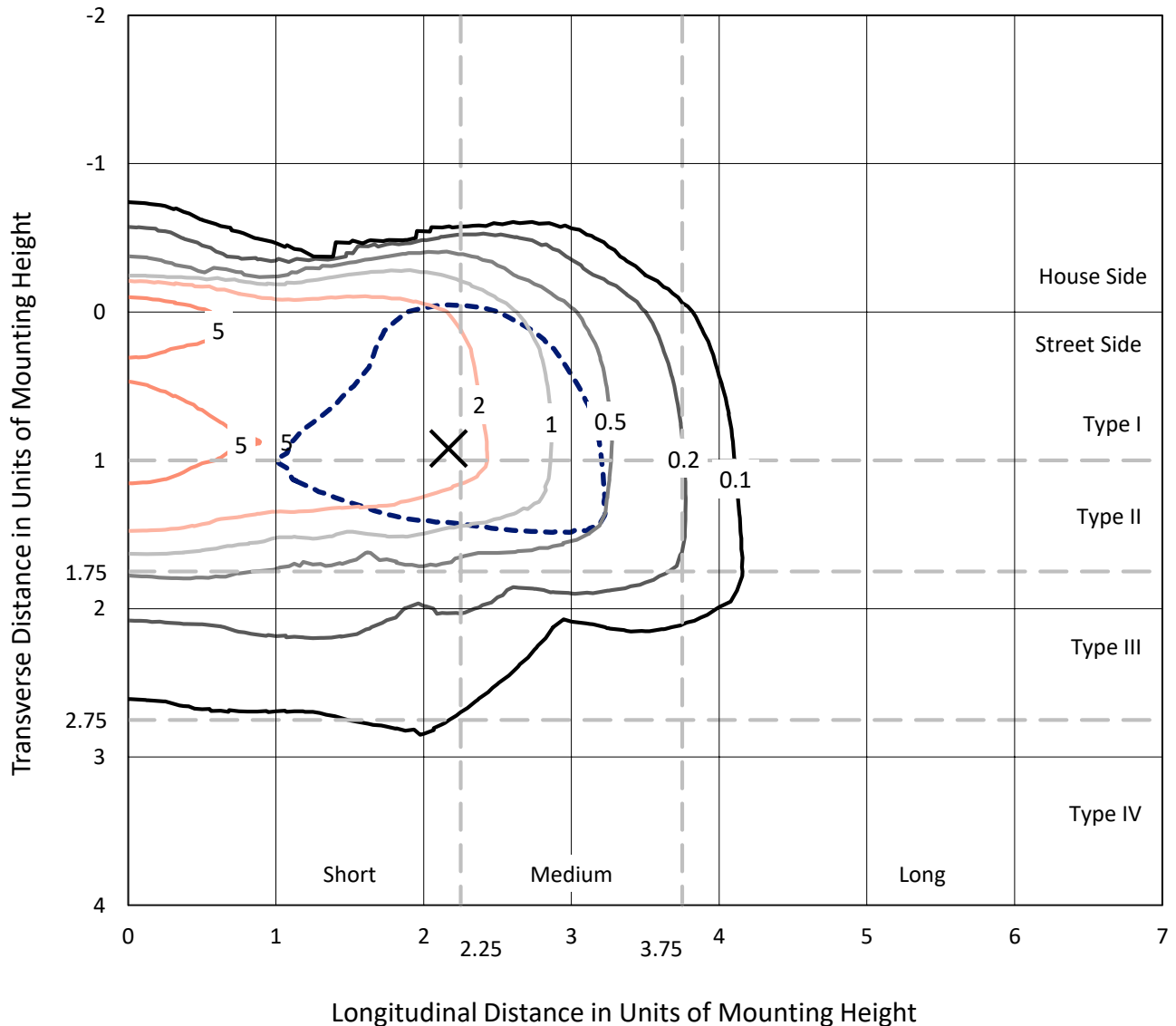


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

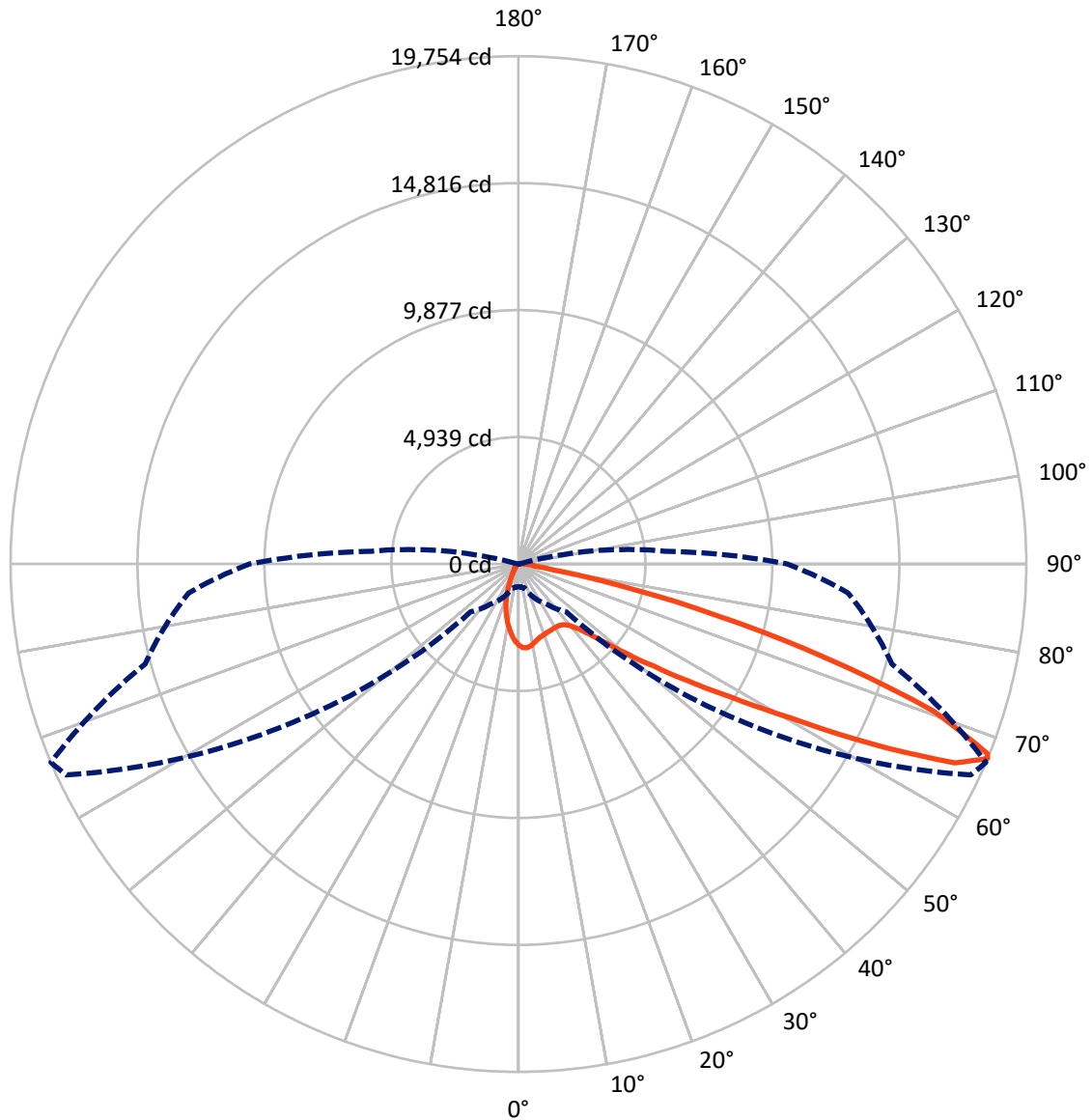


Based on 20 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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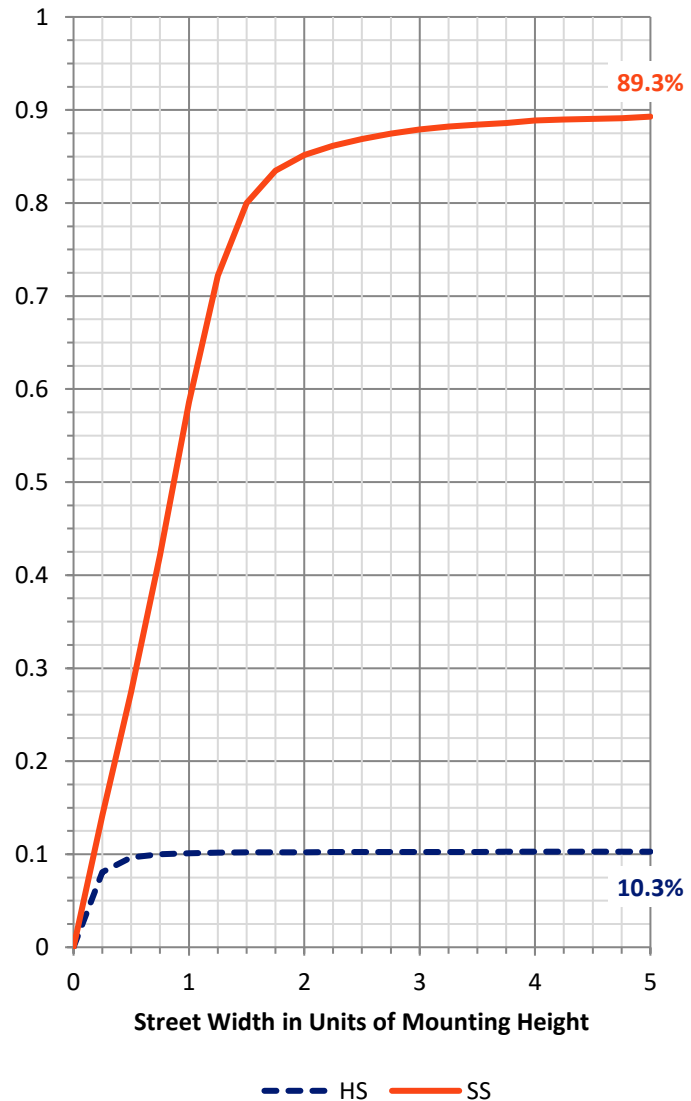
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1489.5	0.0	1489.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	12855.9	0.0	12855.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	14345.3	0.0	14345.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.4	1.8
10°-20°	547.9	3.8
20°-30°	796.6	5.6
30°-40°	1242.7	8.7
40°-50°	2201.4	15.3
50°-60°	3483.5	24.3
60°-70°	3989.9	27.8
70°-80°	1655.0	11.5
80°-90°	170.9	1.2
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°	14345.3	100.0
0°-180°	14345.3	100.0



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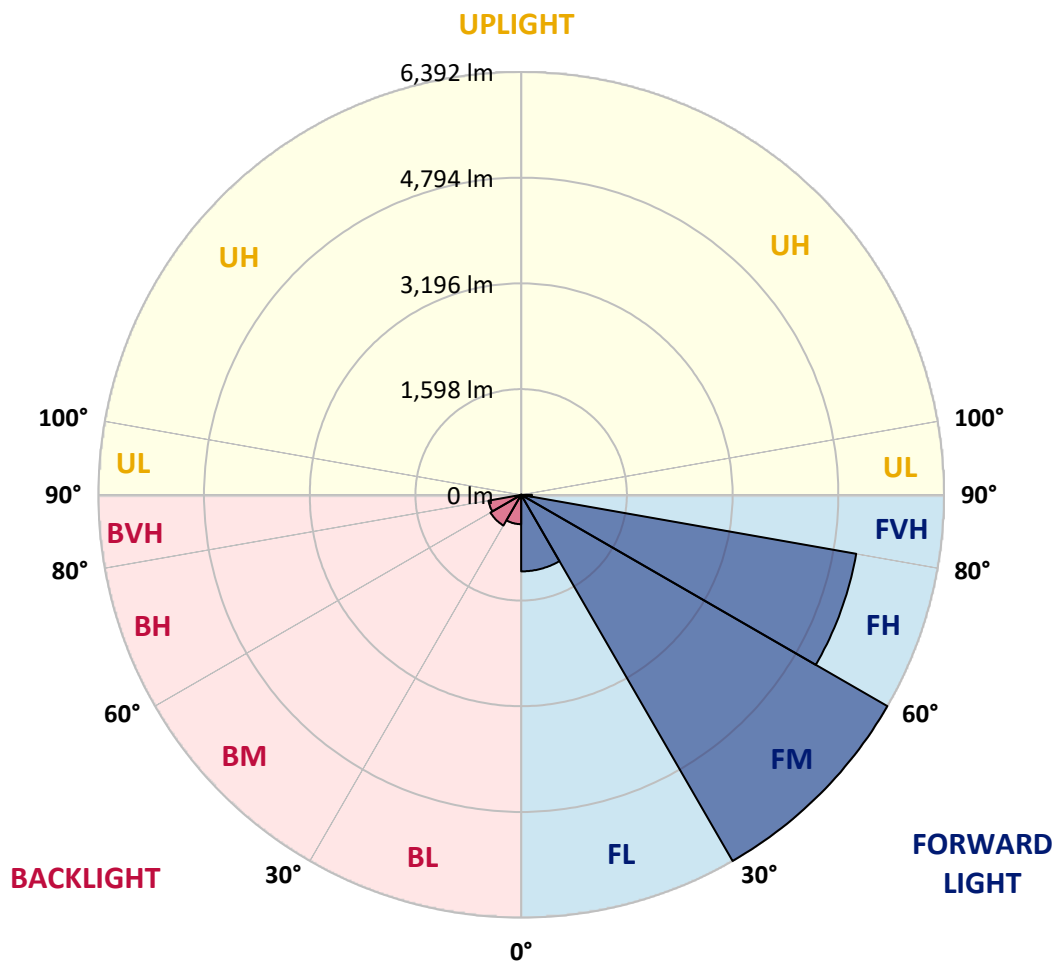
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1157.5	8.1			
FM (30°-60°)	6392.3	44.6			
FH (60°-80°)	5142.8	35.9			G3/7500
FVH (80°-90°)	163.2	1.1			G2/225
BL (0°-30°)	444.5	3.1	B1/500		
BM (30°-60°)	535.3	3.7	B1/1000		
BH (60°-80°)	502.0	3.5	B2/1000		G2/1000
BVH (80°-90°)	7.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7
2.5°	3270.8	3277.5	3276.7	3281.7	3293.4	3294.3	3282.4	3259.9	3254.9	3225.6	3174.6
5°	3016.4	3035.6	3047.4	3095.1	3148.6	3213.1	3261.6	3279.2	3276.7	3255.6	3178.7
7.5°	2726.0	2745.3	2758.7	2814.7	2885.8	2996.3	3122.7	3226.4	3235.7	3258.2	3175.4
10°	2532.9	2536.2	2554.5	2608.0	2682.6	2795.5	2946.1	3127.7	3155.2	3238.1	3167.1
12.5°	2373.9	2376.2	2400.6	2458.3	2537.8	2651.5	2809.8	3019.7	3062.4	3213.1	3165.4
15°	2260.9	2270.0	2291.8	2352.0	2436.6	2549.5	2711.9	2940.2	2991.3	3203.9	3180.4
17.5°	2223.1	2233.2	2240.0	2283.4	2360.4	2470.9	2637.3	2888.4	2946.1	3208.8	3209.7
20°	2262.6	2270.0	2254.9	2265.9	2313.6	2412.3	2574.6	2844.0	2912.7	3214.8	3247.4
22.5°	2409.0	2412.3	2371.3	2323.6	2315.2	2369.5	2525.2	2808.9	2882.5	3230.7	3291.7
25°	2660.1	2654.1	2587.2	2484.3	2387.2	2362.2	2496.0	2787.1	2867.5	3247.4	3337.7
27.5°	2962.9	2971.2	2879.2	2729.4	2544.4	2412.3	2491.8	2778.0	2860.8	3259.1	3377.8
30°	3331.1	3342.8	3237.3	3049.0	2783.8	2536.2	2530.3	2776.3	2856.6	3251.5	3381.2
32.5°	3706.8	3720.9	3638.0	3444.0	3103.5	2743.7	2617.3	2794.6	2865.0	3225.6	3361.9
35°	4100.0	4120.0	4064.8	3898.4	3536.8	3043.2	2770.5	2850.7	2904.3	3223.1	3342.8
37.5°	4643.0	4661.5	4557.7	4381.2	4061.4	3444.8	3016.4	2956.1	2997.1	3263.3	3347.8
40°	5453.8	5451.3	5183.5	4913.3	4637.9	3955.1	3361.9	3146.9	3167.9	3384.5	3409.6
42.5°	6337.5	6333.2	5937.4	5526.6	5278.1	4583.6	3816.3	3476.6	3462.3	3608.0	3570.4
45°	7018.5	7017.6	6694.7	6231.9	6048.6	5304.9	4403.8	3935.1	3913.3	3971.0	3866.6
47.5°	7308.8	7313.9	7151.5	6826.0	6903.0	6280.5	5144.2	4599.5	4566.9	4543.4	4384.4
50°	7083.0	7092.9	7106.3	7042.7	7529.8	7591.7	6137.4	5535.9	5519.9	5415.3	5166.8
52.5°	6344.9	6395.9	6553.2	6755.0	7747.3	8850.1	7694.5	6698.9	6613.5	6502.2	6228.6
55°	5101.6	5157.6	5456.3	5945.8	7423.5	9676.8	9876.8	8198.3	8056.0	7723.8	7328.9
57.5°	3376.2	3463.2	3896.7	4519.2	6483.0	9809.9	12053.9	10279.2	9783.9	8874.4	8429.2
60°	1860.0	1943.8	2413.9	2977.9	4682.3	9152.1	13518.2	12988.6	12113.4	10160.4	9765.5
62.5°	1145.5	1190.7	1537.9	2062.6	2808.0	7223.5	13821.1	16393.2	15379.9	11816.2	11379.5
65°	912.0	931.4	1101.1	1685.9	2013.2	4296.7	12843.0	18988.7	18650.7	13821.1	12824.6
67°	885.3	892.7	973.1	1447.6	1897.7	2634.0	10759.4	19411.3	19754.4	15034.4	12869.7
67.5°	891.1	899.6	975.6	1381.5	1894.3	2420.7	10041.7	19244.7	19678.2	15130.6	12669.8
70°	859.3	885.3	1117.0	1380.7	1801.6	2011.6	6013.6	16674.3	17125.4	14058.7	10750.2
72.5°	304.5	306.2	482.7	1117.0	1958.8	2033.3	3019.7	12223.7	12557.6	10754.5	7750.7
75°	180.6	154.0	160.6	318.0	1871.8	1974.7	1742.1	7810.9	7935.5	6162.6	3925.1
77.5°	124.7	108.8	112.1	140.6	712.9	1947.0	1384.0	4073.3	3940.1	2161.3	836.0
80°	71.1	62.7	67.0	123.0	259.4	1816.6	1305.2	1651.8	1408.3	366.5	231.0
82.5°	37.6	31.8	38.4	101.2	180.6	1132.1	1307.8	798.2	632.5	123.8	157.4
85°	13.4	10.9	18.4	69.4	120.6	347.3	1212.4	671.0	527.1	60.2	119.7
87.5°	2.5	2.5	7.5	28.4	48.5	106.3	717.0	398.3	266.9	36.0	81.9
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°	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7
2.5°	3153.6	3117.7	3069.1	3009.7	2939.4	2877.5	2831.5	2783.8	2773.7	2757.0	2754.6
5°	3132.7	3070.8	2950.4	2812.2	2665.0	2532.0	2423.9	2327.8	2285.1	2248.3	2244.1
7.5°	3101.8	3009.0	2803.9	2581.3	2351.3	2142.0	1964.7	1839.1	1723.7	1668.4	1660.1
10°	3065.7	2932.7	2639.0	2330.4	2012.4	1717.0	1453.4	1232.6	1098.6	1019.1	1009.1
12.5°	3032.3	2858.2	2470.9	2070.1	1647.5	1252.5	913.7	702.8	562.2	505.3	498.6
15°	3016.4	2798.0	2313.6	1803.9	1266.0	797.3	499.5	386.6	340.5	327.2	326.4
17.5°	3014.7	2746.9	2159.5	1528.6	886.9	463.5	325.5	297.0	287.8	284.6	284.6
20°	3014.0	2698.5	2005.6	1243.3	563.1	308.7	271.1	264.5	257.8	253.5	253.5
22.5°	3023.1	2654.9	1844.9	952.3	354.8	250.2	238.5	231.8	223.4	217.6	216.8
25°	3032.3	2621.4	1681.0	677.7	256.8	217.6	205.8	196.5	185.0	177.3	176.5
27.5°	3033.9	2579.7	1505.3	453.6	215.1	189.9	174.9	160.6	147.2	139.7	138.9
30°	3009.0	2509.3	1310.3	306.2	189.9	164.7	144.7	129.6	117.1	111.3	111.3
32.5°	2959.6	2422.3	1096.1	231.0	169.1	141.5	119.7	105.5	97.0	94.5	93.8
35°	2915.2	2328.6	876.0	195.8	151.5	119.7	97.8	88.8	83.7	82.9	81.9
37.5°	2889.2	2253.3	669.3	177.3	134.7	100.4	82.9	76.1	73.7	72.0	72.9
40°	2909.3	2190.5	494.4	162.4	117.9	83.7	70.2	67.0	64.4	63.6	63.6
42.5°	2997.1	2179.6	367.3	148.8	102.0	69.4	61.1	58.6	57.0	56.1	57.0
45°	3228.1	2246.7	285.3	136.5	86.1	58.6	51.9	51.1	50.2	50.2	50.2
47.5°	3575.3	2384.7	237.6	122.2	72.0	50.2	45.2	44.3	43.5	44.3	44.3
50°	4163.6	2637.3	212.4	107.9	59.4	42.7	38.4	38.4	38.4	38.4	39.3
52.5°	5058.0	3134.4	195.8	93.8	48.5	36.0	32.6	32.6	33.4	33.4	34.3
55°	6054.5	3793.7	180.6	79.5	41.1	30.2	26.8	27.6	28.4	29.3	29.3
57.5°	7135.6	4524.3	168.3	65.2	35.2	24.3	22.5	23.4	24.3	26.0	26.0
60°	8440.0	5314.9	149.7	51.1	29.3	19.3	17.5	19.3	21.7	23.4	24.3
62.5°	9872.6	6079.6	126.3	40.2	24.3	15.0	14.3	17.5	20.9	22.5	23.4
65°	10851.5	6319.8	97.0	32.6	18.4	10.9	11.7	15.9	20.1	22.5	22.5
67°	10455.0	5729.8	79.5	27.6	15.0	8.4	10.9	15.9	20.1	21.7	22.5
67.5°	10179.7	5499.0	76.1	26.8	14.3	8.4	10.9	15.9	20.1	22.5	22.5
70°	8282.8	4130.9	63.6	20.1	11.7	7.5	9.3	15.0	19.3	21.7	21.7
72.5°	5755.0	2547.1	57.0	14.3	10.1	6.6	8.4	14.3	18.4	20.9	21.7
75°	2736.1	922.1	48.5	10.9	9.3	5.8	7.5	14.3	18.4	20.9	20.9
77.5°	558.0	214.2	39.3	9.3	7.5	5.8	6.6	13.4	17.5	20.1	20.1
80°	183.3	82.9	29.3	8.4	7.5	5.8	6.6	12.5	17.5	19.3	20.1
82.5°	132.2	41.9	19.3	8.4	7.5	5.8	5.8	12.5	16.8	19.3	19.3
85°	101.2	29.3	12.5	8.4	7.5	5.8	5.8	11.7	15.9	18.4	18.4
87.5°	67.0	11.7	10.1	8.4	7.5	5.8	5.8	11.7	15.0	17.5	18.4
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)