

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: STREETWORKS

Report Number: P835962

Luminaire Tested: **ARCH3-120-727-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835962
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-120-727-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17260 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 122.7
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

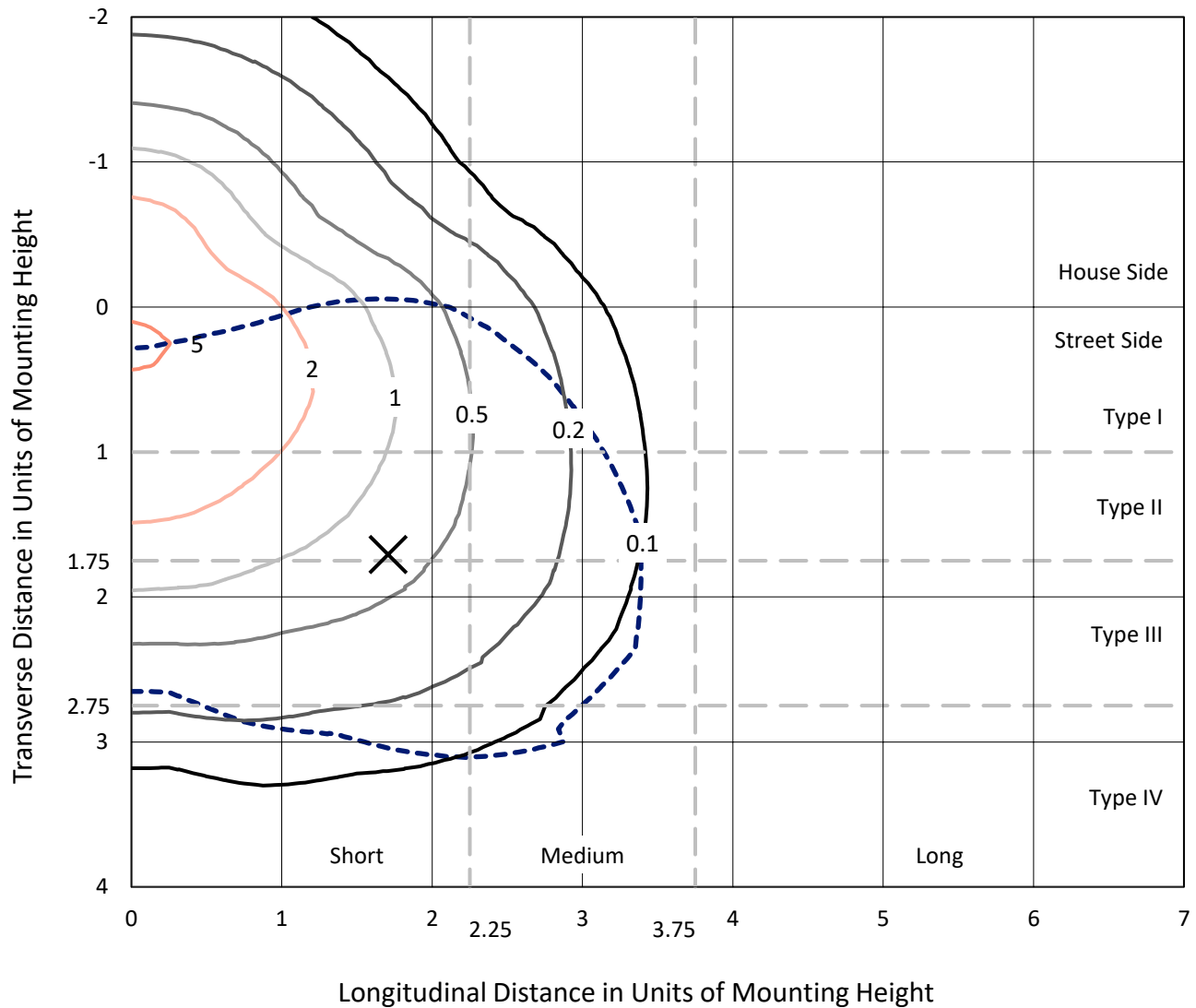


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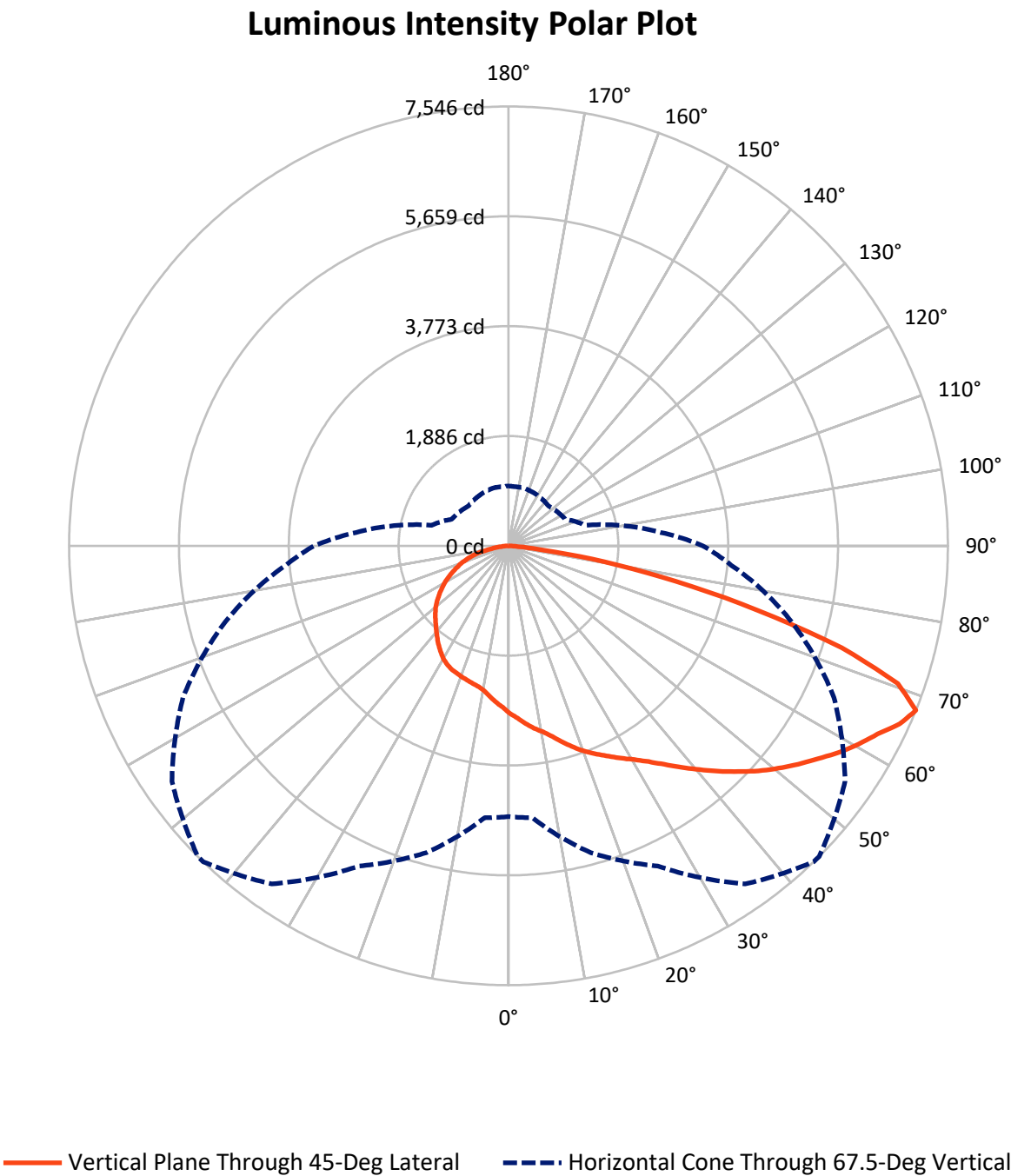
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type IV - Short - N/A

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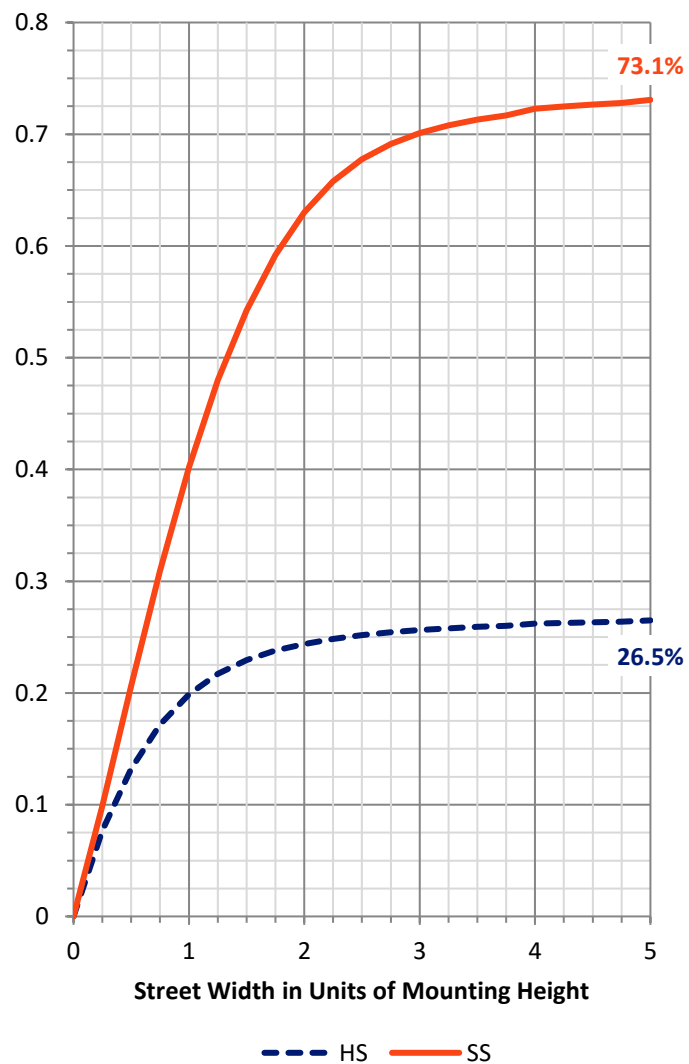
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4611.0	0.0	4611.0
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	12649.0	0.0	12649.0
	% Fixture	73.3	0.0	73.3
Total	Lumens	17260.0	0.0	17260.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.6	1.6
10°-20°	851.4	4.9
20°-30°	1469.6	8.5
30°-40°	2167.2	12.6
40°-50°	2936.1	17.0
50°-60°	3588.6	20.8
60°-70°	3701.2	21.4
70°-80°	2027.2	11.7
80°-90°	243.0	1.4
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°	17260.0	100.0
0°-180°	17260.0	100.0

Coefficient of Utilization



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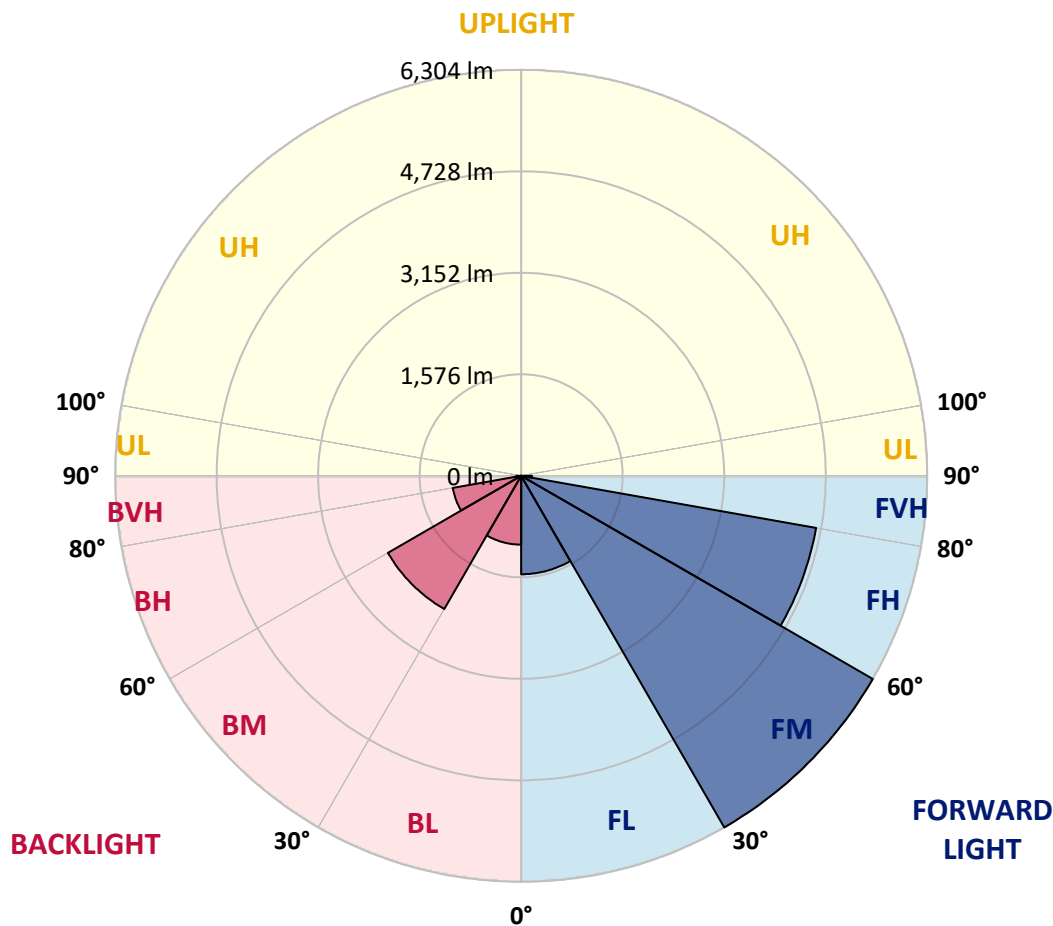
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1528.0	8.9			
FM	(30°-60°)	6303.5	36.5			
FH	(60°-80°)	4650.1	26.9			G2/5000
FVH	(80°-90°)	167.4	1.0			G2/225
BL	(0°-30°)	1068.7	6.2	B3/2500		
BM	(30°-60°)	2388.4	13.8	B2/2500		
BH	(60°-80°)	1078.3	6.2	B3/2500		G3/2500
BVH	(80°-90°)	75.6	0.4			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2878.6	2878.6	2878.6	2878.6	2878.6	2878.6	2878.6	2878.6	2878.6	2878.6	2878.6
2.5°	3004.7	3002.1	3007.3	2989.0	2965.3	2962.7	2962.7	2946.9	2928.5	2891.8	2862.9
5°	3146.5	3141.3	3143.9	3117.7	3086.1	3070.4	3067.7	3033.6	2991.6	2933.8	2881.3
7.5°	3277.9	3272.6	3270.0	3241.1	3193.8	3167.6	3164.9	3115.0	3065.1	2975.8	2899.7
10°	3401.3	3396.1	3390.8	3351.4	3293.6	3254.2	3249.0	3185.9	3122.9	3012.6	2915.4
12.5°	3558.9	3548.4	3543.1	3495.9	3411.8	3369.8	3361.9	3277.9	3199.1	3065.1	2946.9
15°	3724.4	3716.5	3708.6	3664.0	3569.4	3514.3	3501.1	3396.1	3288.4	3133.4	2994.2
17.5°	3847.8	3839.9	3839.9	3800.5	3713.9	3650.8	3640.3	3514.3	3380.3	3196.4	3031.0
20°	3924.0	3916.1	3924.0	3900.3	3834.7	3782.2	3771.6	3632.4	3472.2	3254.2	3062.5
22.5°	3979.1	3971.3	3984.4	3973.9	3926.6	3895.1	3887.2	3750.6	3566.8	3314.6	3094.0
25°	4076.3	4076.3	4076.3	4057.9	4013.3	4002.8	4002.8	3884.6	3687.6	3393.4	3141.3
27.5°	4270.7	4260.2	4247.0	4194.5	4118.3	4115.7	4131.5	4021.2	3826.8	3495.9	3199.1
30°	4557.0	4551.7	4501.8	4391.5	4262.8	4249.7	4260.2	4168.3	3976.5	3603.6	3264.7
32.5°	4927.3	4908.9	4806.5	4641.0	4457.2	4396.8	4417.8	4320.6	4134.1	3713.9	3327.8
35°	5190.0	5195.2	5121.7	4972.0	4754.0	4593.7	4609.5	4491.3	4304.8	3837.3	3406.6
37.5°	5492.0	5510.4	5400.1	5287.1	5084.9	4811.7	4827.5	4667.3	4475.6	3992.3	3490.6
40°	5909.6	5872.8	5686.4	5552.4	5329.2	5040.2	5053.4	4864.3	4672.5	4139.4	3587.8
42.5°	6258.9	6193.3	5967.4	5796.7	5528.8	5281.9	5295.0	5077.0	4872.2	4302.2	3695.5
45°	6760.6	6579.4	6253.7	6169.6	5733.6	5518.3	5531.4	5302.9	5082.3	4475.6	3811.0
47.5°	7052.1	6763.2	6555.7	6511.1	5959.5	5762.5	5778.3	5541.9	5308.2	4672.5	3931.9
50°	7033.8	6847.3	6786.9	6676.6	6159.1	5991.0	6006.8	5788.8	5536.7	4866.9	4047.4
52.5°	6912.9	6947.1	6915.6	6731.7	6358.7	6211.7	6230.1	6033.1	5770.4	5048.1	4155.1
55°	7099.4	7123.1	7062.7	6821.0	6579.4	6432.3	6453.3	6290.5	6001.5	5208.3	4247.0
57.5°	7322.7	7238.6	7178.2	6978.6	6807.9	6671.3	6694.9	6553.1	6201.2	5337.0	4318.0
60°	7312.2	7136.2	7196.6	6989.1	6962.8	6891.9	6912.9	6768.5	6353.5	5431.6	4346.9
62.5°	6773.7	6679.2	6983.9	6912.9	7088.9	7088.9	7115.2	6899.8	6445.4	5471.0	4331.1
65°	5838.7	5844.0	6379.8	6673.9	7238.6	7359.4	7380.5	6981.2	6392.9	5355.4	4184.0
67.5°	4651.5	4685.7	5455.2	6067.2	7088.9	7543.3	7545.9	7054.8	6167.0	5029.7	3842.6
70°	3403.9	3430.2	4339.0	5082.3	6382.4	7136.2	7094.2	6847.3	5675.9	4462.4	3309.4
72.5°	2300.8	2324.4	3259.5	3903.0	5237.2	6077.7	5985.8	6051.4	4838.0	3666.6	2660.6
75°	1547.0	1575.9	2319.2	2792.0	3853.1	4614.8	4409.9	4583.2	3742.8	2776.2	1941.0
77.5°	974.4	992.8	1473.5	1830.7	2631.7	3141.3	2936.4	2939.1	2156.4	1494.5	1042.7
80°	619.9	625.1	893.0	1055.9	1523.4	1888.5	1670.5	1357.9	971.8	793.2	622.5
82.5°	359.8	352.0	533.2	596.2	724.9	717.0	593.6	562.1	425.5	396.6	317.8
85°	144.5	134.0	233.8	218.0	220.6	233.8	173.3	173.3	139.2	107.7	78.8
87.5°	28.9	28.9	31.5	28.9	28.9	31.5	23.6	23.6	21.0	21.0	21.0
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°	2878.6	2878.6	2878.6	2878.6	2878.6	2878.6	2878.6	2878.6	2878.6	2878.6	2878.6
2.5°	2857.6	2852.4	2839.2	2805.1	2786.7	2776.2	2760.4	2755.2	2752.6	2755.2	2763.1
5°	2865.5	2847.1	2810.4	2755.2	2718.4	2694.8	2668.5	2658.0	2650.1	2650.1	2658.0
7.5°	2870.8	2841.9	2778.8	2697.4	2644.9	2608.1	2576.6	2563.5	2560.8	2568.7	2571.3
10°	2873.4	2831.4	2742.1	2639.6	2571.3	2524.1	2492.5	2484.7	2492.5	2508.3	2510.9
12.5°	2891.8	2834.0	2721.1	2600.2	2518.8	2471.5	2447.9	2447.9	2468.9	2497.8	2500.4
15°	2923.3	2852.4	2710.5	2568.7	2484.7	2442.6	2434.8	2447.9	2479.4	2524.1	2529.3
17.5°	2946.9	2862.9	2686.9	2526.7	2440.0	2413.8	2426.9	2458.4	2503.1	2563.5	2568.7
20°	2962.7	2862.9	2652.8	2476.8	2395.4	2390.1	2426.9	2476.8	2524.1	2595.0	2602.9
22.5°	2978.4	2857.6	2613.4	2416.4	2345.5	2361.2	2429.5	2492.5	2539.8	2616.0	2629.1
25°	3007.3	2865.5	2574.0	2356.0	2292.9	2337.6	2426.9	2503.1	2553.0	2631.7	2652.8
27.5°	3046.7	2883.9	2545.1	2300.8	2240.4	2300.8	2408.5	2500.4	2553.0	2629.1	2652.8
30°	3088.8	2904.9	2510.9	2240.4	2180.0	2248.3	2369.1	2471.5	2531.9	2602.9	2631.7
32.5°	3133.4	2928.5	2482.0	2174.7	2106.5	2177.4	2311.3	2426.9	2492.5	2558.2	2589.7
35°	3193.8	2970.6	2466.3	2122.2	2040.8	2103.8	2237.8	2369.1	2440.0	2500.4	2537.2
37.5°	3267.4	3023.1	2458.4	2069.7	1969.9	2022.4	2159.0	2298.2	2374.4	2424.3	2458.4
40°	3351.4	3088.8	2455.8	2019.8	1899.0	1938.4	2077.6	2216.8	2290.3	2329.7	2358.6
42.5°	3446.0	3162.3	2450.5	1969.9	1828.0	1859.6	1998.8	2135.3	2198.4	2232.5	2258.8
45°	3545.8	3235.8	2440.0	1909.5	1751.9	1788.6	1917.3	2038.2	2103.8	2132.7	2161.6
47.5°	3645.6	3309.4	2419.0	1841.2	1683.6	1717.7	1830.7	1935.7	1988.3	2014.5	2043.4
50°	3742.8	3375.0	2369.1	1762.4	1612.7	1644.2	1730.9	1801.8	1841.2	1862.2	1891.1
52.5°	3829.4	3419.7	2298.2	1670.5	1541.8	1557.5	1615.3	1675.7	1707.2	1709.8	1736.1
55°	3903.0	3443.3	2195.8	1575.9	1465.6	1468.2	1499.7	1547.0	1560.1	1549.6	1568.0
57.5°	3945.0	3430.2	2082.8	1478.7	1386.8	1376.3	1399.9	1423.6	1426.2	1399.9	1418.3
60°	3955.5	3369.8	1935.7	1381.5	1308.0	1279.1	1287.0	1281.7	1276.5	1266.0	1281.7
62.5°	3903.0	3241.1	1772.9	1287.0	1223.9	1179.3	1176.7	1174.0	1181.9	1184.6	1187.2
65°	3711.2	2999.5	1578.5	1189.8	1134.6	1074.2	1071.6	1103.1	1113.6	1097.9	1103.1
67.5°	3340.9	2629.1	1365.8	1076.9	1021.7	969.2	990.2	1008.6	1027.0	1021.7	1027.0
70°	2815.6	2159.0	1171.4	950.8	898.3	869.4	893.0	908.8	911.4	906.1	911.4
72.5°	2214.1	1686.2	990.2	822.1	774.8	761.7	790.6	803.7	827.3	837.9	840.5
75°	1599.5	1245.0	811.6	682.9	643.5	643.5	669.8	693.4	714.4	701.3	693.4
77.5°	893.0	743.3	583.1	470.1	478.0	514.8	525.3	551.6	572.6	569.9	564.7
80°	541.1	464.9	394.0	304.7	302.0	330.9	399.2	443.9	454.4	430.7	428.1
82.5°	281.0	244.3	210.1	170.7	189.1	220.6	231.1	278.4	307.3	296.8	309.9
85°	70.9	68.3	76.2	78.8	97.2	107.7	118.2	139.2	91.9	44.7	44.7
87.5°	21.0	21.0	26.3	26.3	34.1	42.0	39.4	39.4	21.0	2.6	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)