

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: P836019

Luminaire Tested: **ARCH3-130-722-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-130-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17049 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 132.6
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

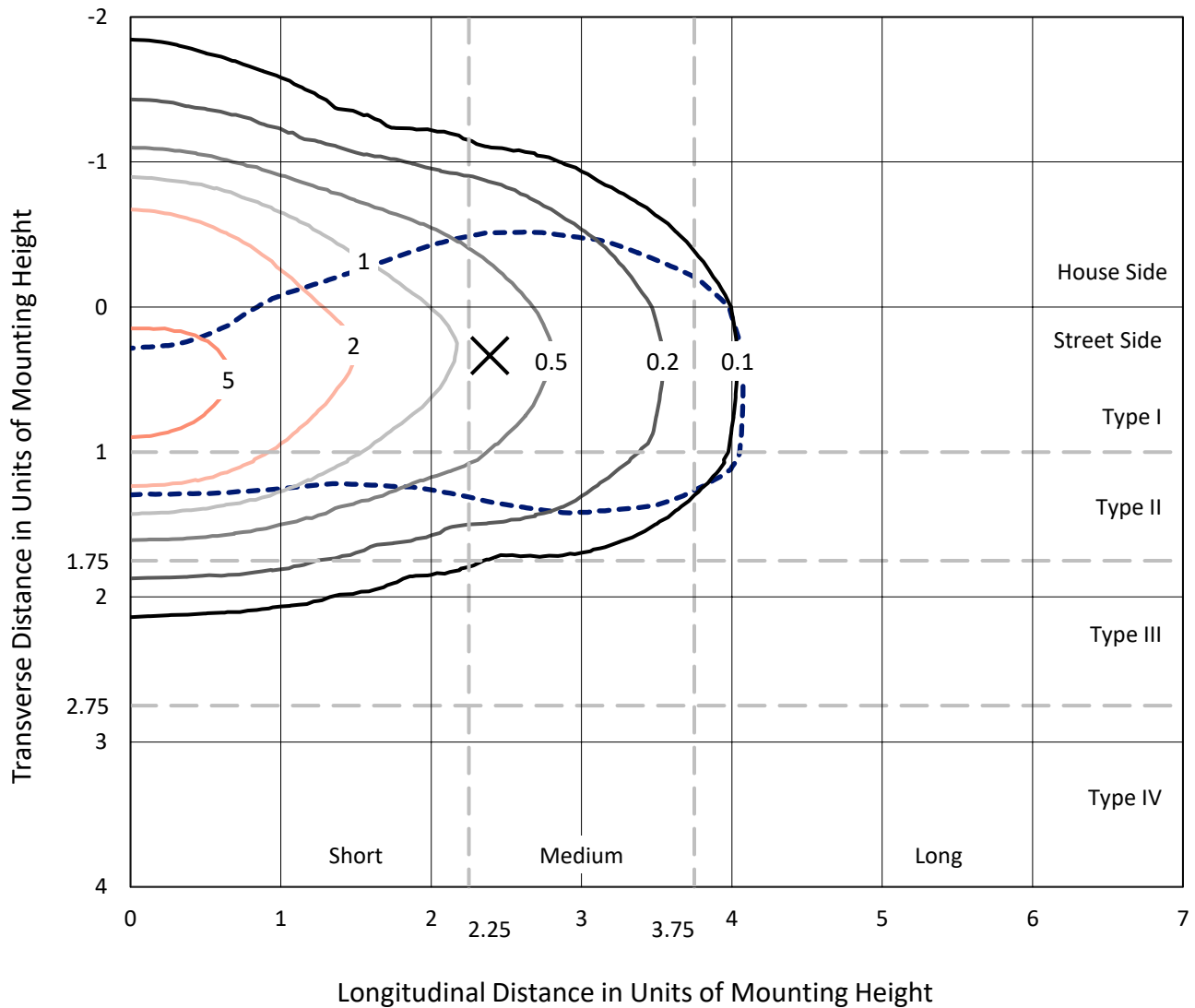


REPORT NUMBER: P836019

CATALOG NUMBER: ARCH3-130-722-U-T2R

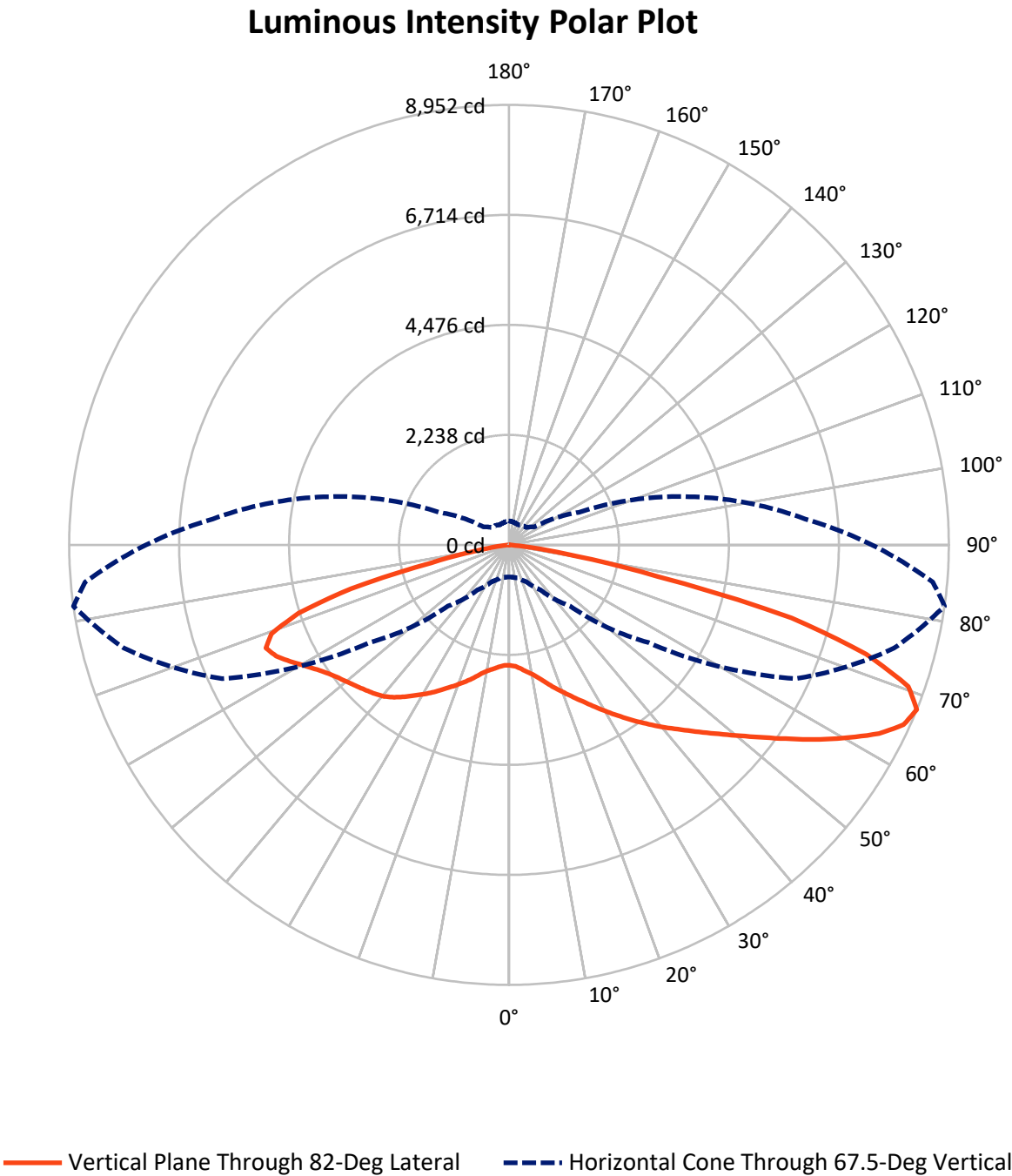
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type II - Medium - N/A

REPORT NUMBER: P836019
CATALOG NUMBER: ARCH3-130-722-U-T2R



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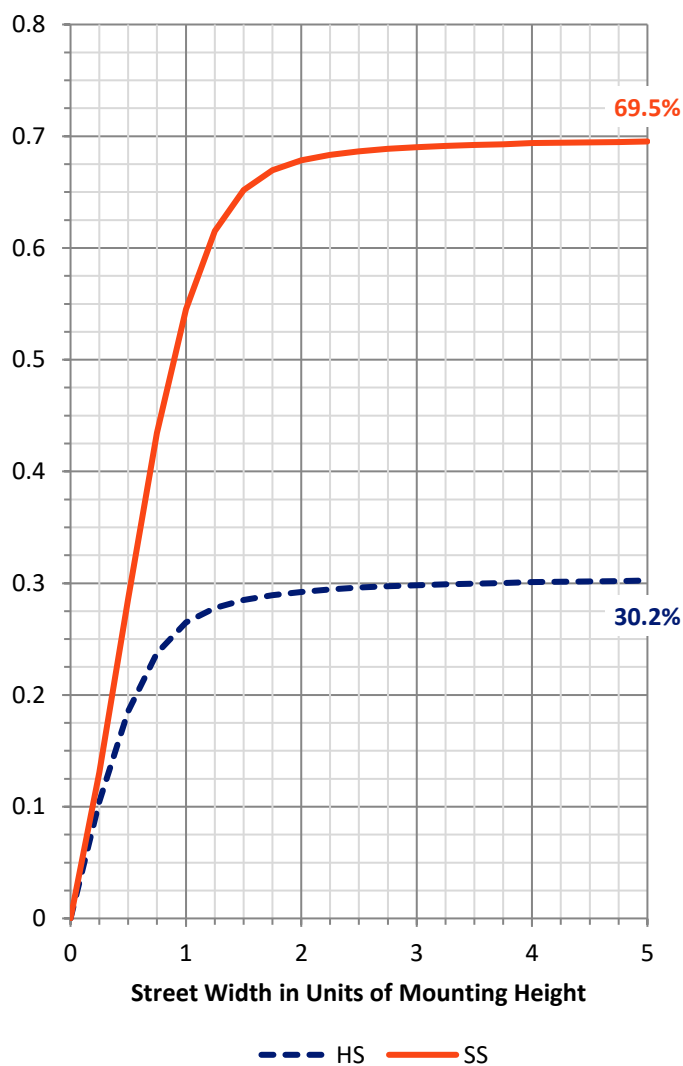
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5192.1	0.0	5192.1
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	11856.9	0.0	11856.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	17049.0	0.0	17049.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.3	1.5
10°-20°	912.3	5.4
20°-30°	1833.5	10.8
30°-40°	2880.2	16.9
40°-50°	3508.7	20.6
50°-60°	3315.3	19.4
60°-70°	2737.7	16.1
70°-80°	1490.8	8.7
80°-90°	117.2	0.7
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°	17049.0	100.0
0°-180°	17049.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836019

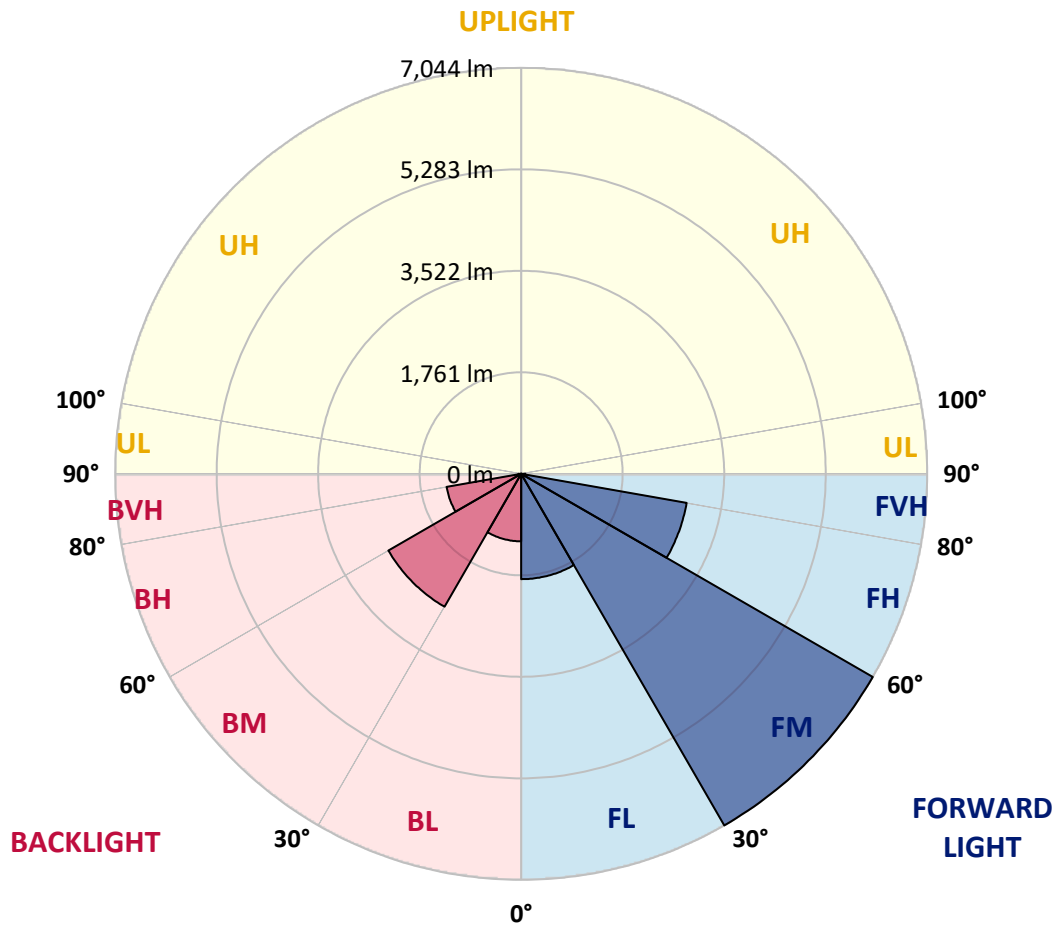
CATALOG NUMBER: ARCH3-130-722-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1828.3	10.7			
FM	(30°-60°)	7043.7	41.3			
FH	(60°-80°)	2914.3	17.1			G2/5000
FVH	(80°-90°)	70.7	0.4			G1/100
BL	(0°-30°)	1170.9	6.9	B3/2500		
BM	(30°-60°)	2660.5	15.6	B3/5000		
BH	(60°-80°)	1314.1	7.7	B3/2500		G3/2500
BVH	(80°-90°)	46.6	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 Medium



REPORT NUMBER: P836019

CATALOG NUMBER: ARCH3-130-722-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2450.8	2450.8	2450.8	2450.8	2450.8	2450.8	2450.8	2450.8	2450.8	2450.8	2450.8
2.5°	2562.2	2562.2	2582.0	2582.0	2564.7	2537.4	2530.0	2500.3	2473.1	2473.1	2475.5
5°	2807.3	2804.8	2819.6	2799.8	2757.8	2703.3	2666.2	2601.8	2547.3	2530.0	2527.5
7.5°	3106.8	3104.3	3111.8	3079.6	3000.4	2911.2	2837.0	2733.0	2643.9	2606.7	2596.8
10°	3441.0	3438.5	3431.1	3376.6	3270.2	3131.6	3020.2	2876.6	2742.9	2683.5	2671.1
12.5°	3824.7	3819.8	3802.4	3723.2	3577.2	3398.9	3238.0	3052.3	2874.1	2792.4	2765.2
15°	4253.0	4245.6	4213.4	4116.8	3921.3	3696.0	3488.0	3250.4	3032.5	2926.1	2889.0
17.5°	4703.5	4703.5	4654.0	4510.4	4292.6	4012.9	3755.4	3453.4	3198.4	3067.2	3022.6
20°	5161.5	5159.0	5097.1	4923.8	4666.4	4344.6	4017.8	3686.1	3369.2	3210.8	3156.3
22.5°	5644.2	5639.3	5562.5	5364.5	5057.5	4693.6	4312.4	3916.3	3557.4	3366.7	3297.4
25°	6198.8	6191.3	6097.3	5854.7	5490.7	5079.8	4644.1	4186.1	3772.7	3540.0	3458.3
27.5°	6787.9	6778.0	6666.6	6384.4	5985.9	5490.7	5010.5	4498.1	4010.4	3733.1	3641.5
30°	7312.7	7305.3	7184.0	6894.4	6436.4	5899.2	5359.5	4810.0	4260.4	3938.6	3824.7
32.5°	7708.8	7708.8	7599.9	7315.2	6839.9	6290.3	5711.1	5104.6	4520.3	4158.9	4025.2
35°	7949.0	7956.4	7862.3	7634.6	7186.5	6659.2	6075.0	5451.1	4797.6	4394.1	4250.5
37.5°	7983.6	8008.4	7953.9	7800.4	7426.6	6966.2	6431.5	5785.3	5084.8	4631.7	4470.8
40°	7822.7	7840.0	7842.5	7783.1	7525.6	7186.5	6745.8	6139.3	5389.3	4881.8	4696.1
42.5°	7500.9	7513.3	7535.5	7552.9	7453.9	7283.0	6986.0	6468.6	5713.5	5136.7	4918.9
45°	7085.0	7082.5	7119.7	7193.9	7189.0	7228.6	7119.7	6768.1	6050.2	5426.4	5166.5
47.5°	6463.6	6451.3	6582.5	6750.8	6835.0	7020.6	7122.1	7003.3	6416.6	5745.7	5448.7
50°	5490.7	5478.4	5765.5	6161.6	6409.2	6691.4	6986.0	7144.4	6800.3	6104.7	5755.6
52.5°	4307.4	4295.1	4659.0	5352.1	5891.8	6302.7	6711.2	7176.6	7164.2	6505.7	6102.2
55°	3203.3	3193.4	3547.4	4297.5	5171.4	5852.2	6374.5	7092.4	7505.8	6966.2	6523.0
57.5°	2257.7	2252.7	2559.7	3181.1	4245.6	5302.6	6050.2	6929.0	7820.2	7466.2	6998.4
60°	1584.3	1576.9	1799.7	2280.0	3210.8	4473.3	5728.4	6711.2	8055.4	7958.9	7503.4
62.5°	1067.0	1062.0	1220.4	1621.5	2280.0	3443.5	5240.7	6565.1	8189.1	8454.0	8013.3
65°	809.5	807.0	878.8	1099.1	1614.1	2473.1	4465.9	6547.8	8206.4	8825.3	8446.5
67.5°	653.5	656.0	695.6	821.9	1116.5	1757.6	3463.3	6438.9	8114.8	8951.6	8657.0
70°	534.7	534.7	552.0	636.2	824.4	1185.8	2418.6	5943.8	7859.8	8622.3	8406.9
72.5°	408.5	410.9	465.4	514.9	621.4	831.8	1549.7	4918.9	7258.3	7602.4	7439.0
75°	324.3	321.8	354.0	423.3	482.7	594.1	950.6	3527.6	6176.5	5941.3	5837.3
77.5°	232.7	230.2	255.0	314.4	366.4	420.8	566.9	1779.9	3359.3	3087.0	3010.3
80°	158.4	153.5	175.8	217.8	242.6	247.6	277.3	683.2	1465.5	1381.4	1364.0
82.5°	81.7	81.7	94.1	123.8	126.3	128.7	123.8	220.3	485.2	453.0	433.2
85°	32.2	32.2	34.7	42.1	42.1	44.6	44.6	56.9	52.0	49.5	47.0
87.5°	2.5	2.5	5.0	5.0	7.4	7.4	7.4	9.9	12.4	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P836019

CATALOG NUMBER: ARCH3-130-722-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2450.8	2450.8	2450.8	2450.8	2450.8	2450.8	2450.8	2450.8	2450.8	2450.8	2450.8
2.5°	2470.6	2460.7	2428.5	2421.1	2416.1	2408.7	2411.2	2393.8	2386.4	2388.9	2379.0
5°	2515.1	2497.8	2458.2	2440.9	2435.9	2428.5	2435.9	2423.6	2411.2	2416.1	2411.2
7.5°	2577.0	2552.3	2502.8	2485.4	2483.0	2475.5	2485.4	2475.5	2465.6	2470.6	2460.7
10°	2641.4	2609.2	2554.8	2537.4	2537.4	2535.0	2544.9	2530.0	2520.1	2522.6	2517.6
12.5°	2735.5	2693.4	2634.0	2619.1	2611.7	2619.1	2621.6	2601.8	2584.5	2586.9	2579.5
15°	2849.3	2802.3	2737.9	2715.7	2710.7	2708.2	2698.3	2673.6	2651.3	2648.8	2641.4
17.5°	2973.1	2913.7	2837.0	2814.7	2792.4	2785.0	2760.2	2728.0	2693.4	2693.4	2683.5
20°	3091.9	3025.1	2933.5	2901.3	2869.2	2839.4	2797.4	2745.4	2700.8	2693.4	2683.5
22.5°	3220.7	3141.5	3035.0	2988.0	2931.0	2871.6	2799.8	2730.5	2673.6	2661.2	2653.8
25°	3364.3	3265.2	3139.0	3069.7	2978.1	2886.5	2780.0	2690.9	2624.1	2604.3	2599.3
27.5°	3522.7	3403.9	3250.4	3148.9	3015.2	2871.6	2735.5	2629.0	2547.3	2522.6	2515.1
30°	3683.6	3542.5	3351.9	3203.3	3015.2	2824.6	2653.8	2530.0	2435.9	2401.3	2396.3
32.5°	3844.5	3686.1	3443.5	3233.1	2985.5	2745.4	2547.3	2401.3	2294.8	2252.7	2262.6
35°	4037.6	3844.5	3527.6	3245.4	2936.0	2648.8	2426.0	2255.2	2146.3	2109.2	2116.6
37.5°	4238.1	4002.9	3594.5	3235.5	2866.7	2539.9	2289.9	2124.0	1987.9	1923.5	1930.9
40°	4411.4	4146.5	3641.5	3200.9	2777.6	2416.1	2156.2	1938.3	1750.2	1688.3	1680.9
42.5°	4574.8	4253.0	3666.3	3148.9	2676.1	2272.5	1965.6	1685.8	1497.7	1421.0	1423.4
45°	4745.6	4357.0	3656.4	3079.6	2549.8	2104.2	1720.5	1438.3	1272.4	1203.1	1205.6
47.5°	4941.2	4468.4	3646.5	3005.3	2396.3	1886.4	1485.3	1220.4	1076.9	1027.3	1022.4
50°	5149.1	4592.1	3634.1	2913.7	2225.5	1643.8	1252.6	1017.4	896.1	864.0	856.5
52.5°	5384.3	4725.8	3626.7	2804.8	2020.0	1386.3	1044.7	839.2	757.5	735.2	732.8
55°	5666.5	4881.8	3636.6	2673.6	1772.5	1143.7	868.9	722.9	668.4	656.0	653.5
57.5°	6010.6	5082.3	3666.3	2520.1	1512.6	933.3	740.2	651.1	616.4	606.5	606.5
60°	6384.4	5310.0	3720.7	2346.8	1252.6	769.9	656.0	594.1	579.3	591.7	591.7
62.5°	6787.9	5577.4	3817.3	2136.4	1010.0	651.1	589.2	547.1	537.2	561.9	564.4
65°	7161.7	5837.3	3879.2	1883.9	802.1	564.4	537.2	500.1	505.0	529.8	527.3
67.5°	7392.0	6052.7	3792.5	1567.0	636.2	500.1	482.7	450.5	462.9	482.7	485.2
70°	7250.9	5931.4	3364.3	1183.3	497.6	435.7	423.3	403.5	413.4	438.2	448.1
72.5°	6560.2	5312.5	2616.6	799.6	401.0	366.4	371.3	361.4	373.8	396.1	418.4
75°	5324.9	4015.3	1755.2	512.4	316.9	311.9	319.3	311.9	316.9	339.1	351.5
77.5°	2780.0	1958.2	873.9	319.3	235.2	242.6	255.0	257.5	272.3	277.3	282.2
80°	1297.2	881.3	363.9	178.2	156.0	170.8	195.6	198.0	203.0	210.4	212.9
82.5°	423.3	264.9	168.3	96.5	89.1	96.5	126.3	151.0	153.5	168.3	168.3
85°	44.6	27.2	37.1	39.6	34.7	42.1	56.9	54.5	24.8	14.9	14.9
87.5°	12.4	9.9	12.4	12.4	9.9	9.9	7.4	2.5	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)