

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: P285806

Luminaire Tested: **USSL-XL-C049-D-U-T3-AP-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-8)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C049-D-U-T3-AP-7030-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, GRAY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29385.7 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 217
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: 28.75 FT

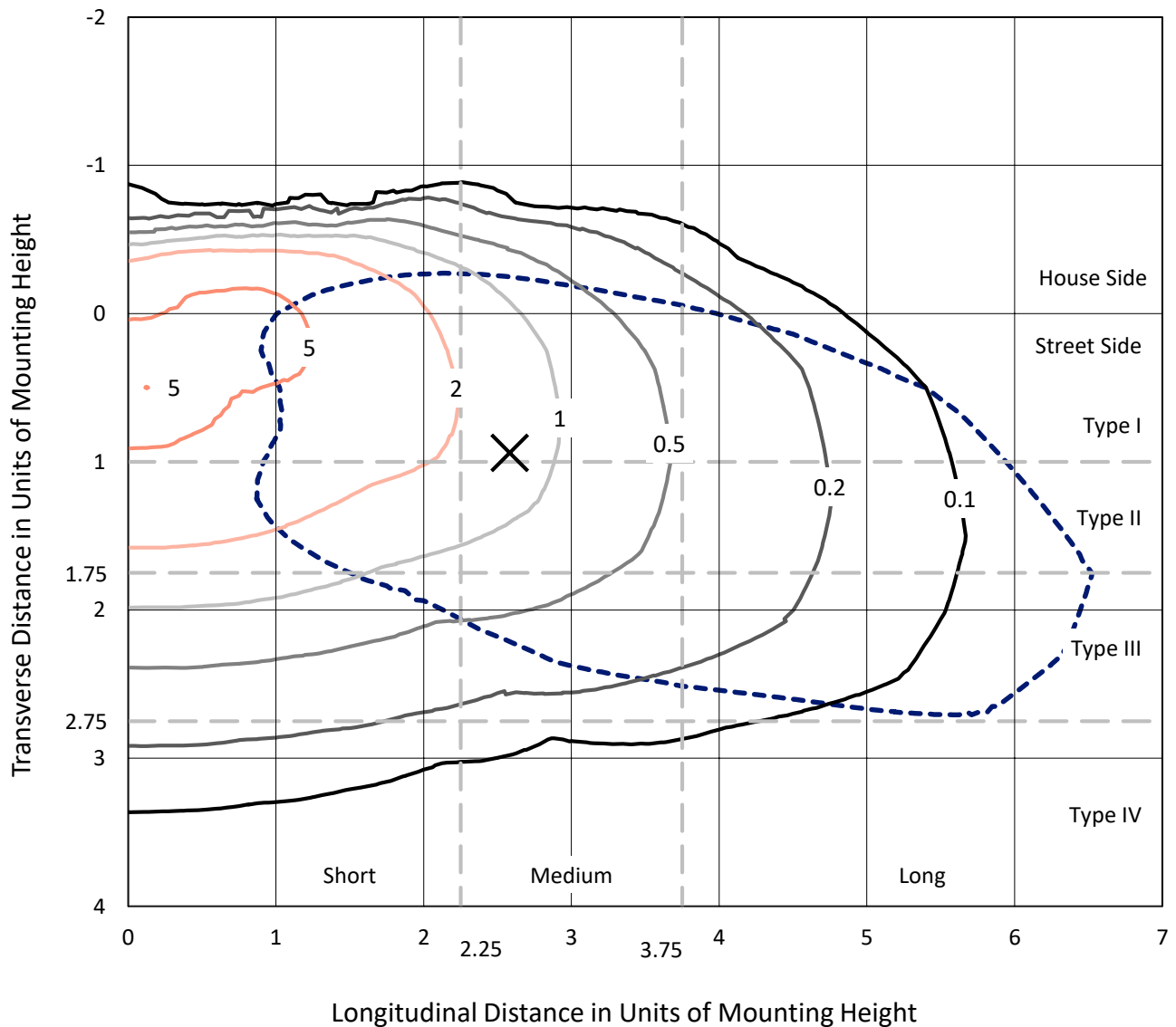


REPORT NUMBER: P285806

CATALOG NUMBER: USSL-XL-C049-D-U-T3-AP-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

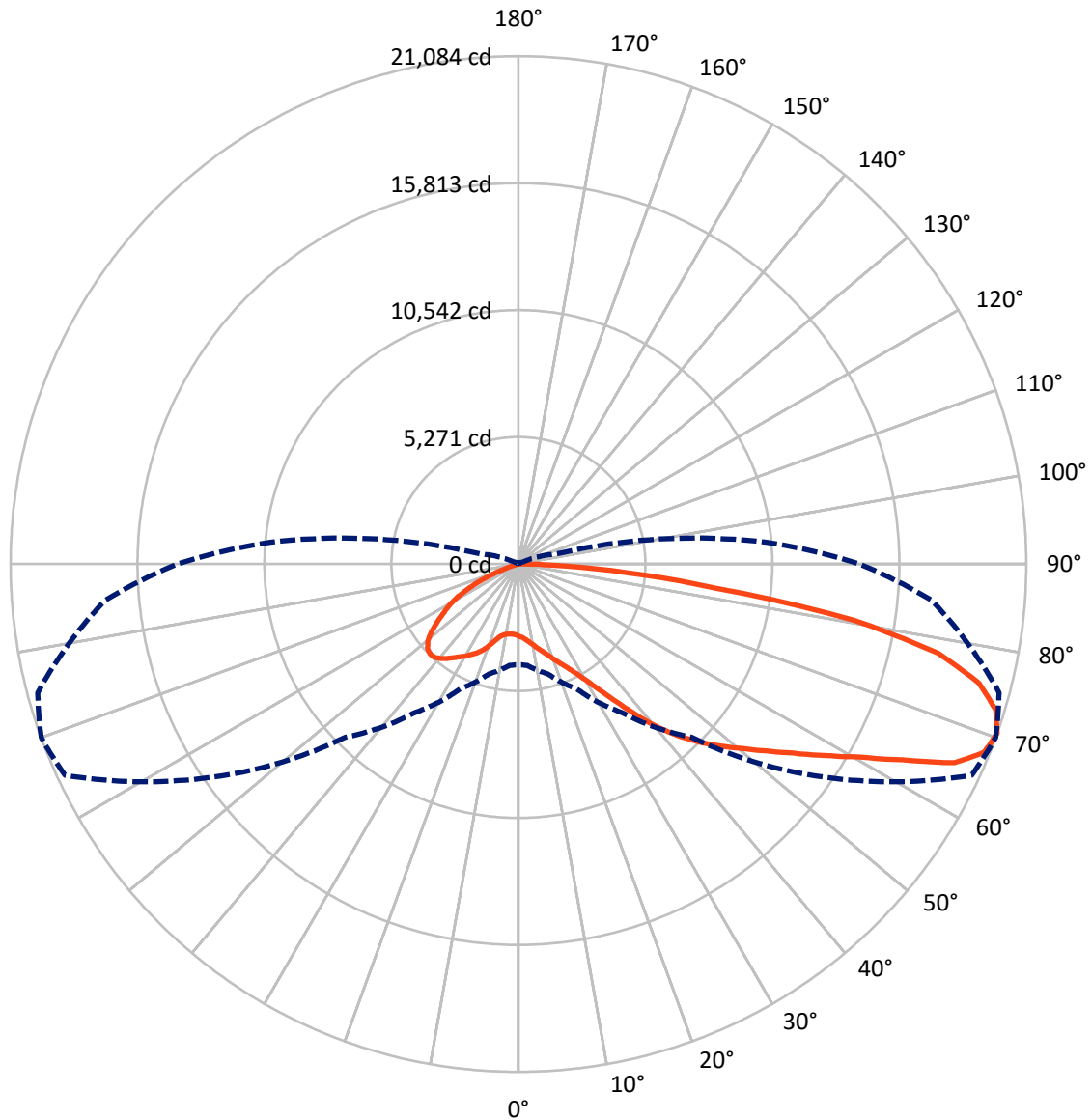


Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P285806

CATALOG NUMBER: USSL-XL-C049-D-U-T3-AP-7030-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P285806

CATALOG NUMBER: USSL-XL-C049-D-U-T3-AP-7030-HSS

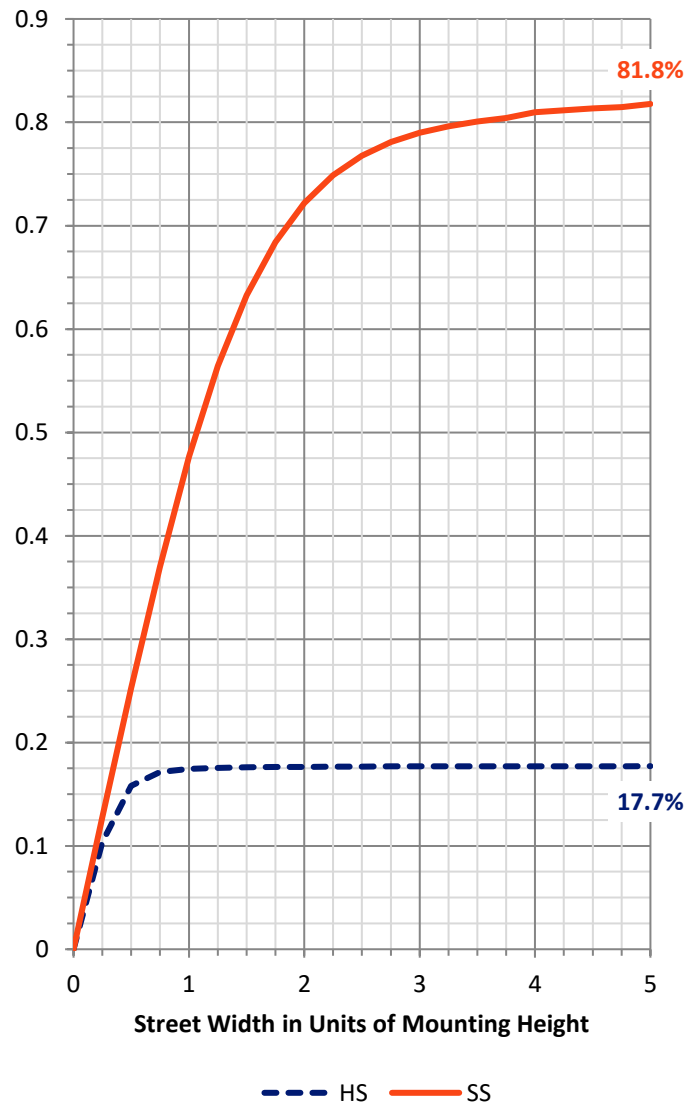
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5265.7	0.0	5265.7
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	24120.0	0.0	24120.0
	% Fixture	82.1	0.0	82.1
Total	Lumens	29385.7	0.0	29385.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.3	1.0
10°-20°	912.4	3.1
20°-30°	1661.4	5.7
30°-40°	2824.6	9.6
40°-50°	4442.9	15.1
50°-60°	5997.5	20.4
60°-70°	7016.4	23.9
70°-80°	5221.0	17.8
80°-90°	1019.2	3.5
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°	29385.7	100.0
0°-180°	29385.7	100.0

Coefficient of Utilization



REPORT NUMBER: P285806

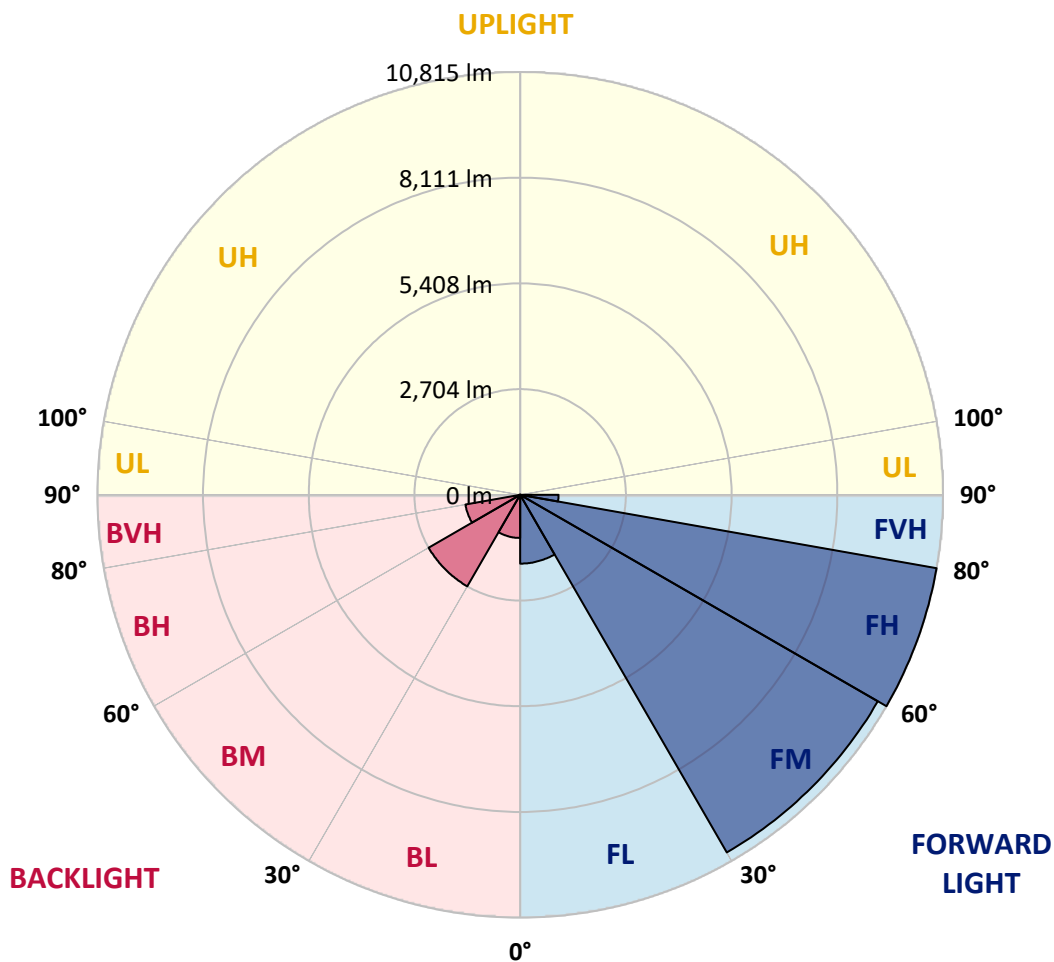
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1760.4	6.0			
FM	(30°-60°)	10562.5	35.9			
FH	(60°-80°)	10815.3	36.8			G4/12000
FVH	(80°-90°)	981.9	3.3			G5
BL	(0°-30°)	1103.7	3.8	B3/2500		
BM	(30°-60°)	2702.5	9.2	B3/5000		
BH	(60°-80°)	1422.1	4.8	B3/2500		G3/2500
BVH	(80°-90°)	37.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





REPORT NUMBER: P285806

CATALOG NUMBER: USSL-XL-C049-D-U-T3-AP-7030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3003.4	3003.4	3003.4	3003.4	3003.4	3003.4	3003.4	3003.4	3003.4	3003.4	3003.4
2.5°	3171.6	3169.2	3174.2	3161.8	3169.2	3145.7	3124.7	3094.9	3049.1	3033.1	3002.2
5°	3326.4	3328.8	3327.6	3319.0	3307.8	3283.0	3241.0	3200.2	3145.7	3119.7	3059.1
7.5°	3458.8	3460.0	3464.9	3462.5	3456.3	3424.1	3385.7	3333.8	3268.2	3234.8	3151.9
10°	3564.0	3562.7	3570.2	3581.3	3606.0	3581.3	3530.5	3488.4	3418.0	3373.3	3270.6
12.5°	3633.2	3624.6	3645.6	3676.6	3721.1	3724.8	3691.4	3648.1	3586.3	3534.2	3419.1
15°	3665.5	3661.7	3700.1	3764.4	3828.8	3849.9	3844.9	3812.7	3766.9	3714.9	3590.0
17.5°	3740.9	3739.6	3765.7	3841.2	3916.6	3969.9	4024.3	4019.4	3977.3	3940.2	3810.2
20°	3863.4	3865.9	3865.9	3931.5	4014.4	4108.5	4216.2	4249.6	4216.2	4193.8	4068.9
22.5°	4013.2	4002.1	3994.7	4049.0	4150.6	4281.7	4433.9	4495.8	4490.8	4468.5	4393.1
25°	4223.6	4198.8	4145.6	4213.6	4338.6	4492.1	4670.2	4774.2	4782.9	4789.1	4843.5
27.5°	4557.7	4556.4	4466.1	4471.1	4556.4	4734.7	4952.4	5131.8	5156.6	5225.9	5412.8
30°	5230.8	5162.8	5058.9	4893.0	4864.5	5032.8	5292.7	5567.4	5638.0	5849.6	6076.1
32.5°	5860.7	5810.1	5737.0	5545.2	5311.3	5373.2	5669.0	6076.1	6261.7	6683.7	6890.3
35°	6401.5	6375.5	6321.1	6207.2	5995.6	5836.0	6078.5	6641.7	7032.6	7651.4	7832.0
37.5°	6929.9	6910.1	6874.3	6774.0	6641.7	6402.7	6555.0	7308.6	7944.7	8669.9	8762.6
40°	7394.0	7387.8	7418.8	7356.9	7298.7	7150.2	7105.7	8012.7	8897.5	9662.4	9640.0
42.5°	7799.9	7789.9	7941.0	7859.3	7928.6	7871.7	7778.8	8671.0	9761.4	10476.6	10401.1
45°	8070.9	8065.9	8225.6	8307.3	8502.8	8544.9	8489.2	9354.1	10548.3	11222.8	11057.0
47.5°	8277.6	8263.9	8351.8	8666.2	9027.5	9112.9	9220.5	10116.4	11288.4	11882.3	11681.9
50°	8390.2	8395.1	8575.8	9000.2	9534.9	9731.6	9958.1	11022.3	12040.8	12589.0	12257.3
52.5°	8463.2	8516.4	8782.4	9293.5	10023.7	10368.9	10628.8	12001.1	12893.4	13256.0	12902.1
55°	8515.1	8609.2	8875.3	9452.0	10329.4	10901.1	11280.9	13033.3	13863.6	14092.5	13585.2
57.5°	8179.8	8280.0	8728.0	9480.4	10581.7	11350.3	12028.4	14138.3	14998.3	15019.4	14219.9
60°	7631.6	7693.5	8266.5	9305.9	10545.9	11763.6	12945.4	15447.6	16263.1	16252.0	15004.6
62.5°	7064.9	7097.0	7678.7	8845.6	10342.9	11915.8	13819.1	17207.3	17907.8	17577.3	15804.0
65°	6316.2	6352.0	6952.2	8085.8	9778.6	11813.1	14566.5	19052.3	19892.6	19365.4	16577.4
67.5°	5341.0	5409.1	5963.4	7016.5	8860.4	11271.1	15135.7	20317.1	20857.9	20396.3	17119.4
70°	4165.4	4226.0	4721.0	5713.5	7536.3	10165.9	15400.6	20762.6	21084.4	20661.2	17211.0
72.5°	2966.2	3010.9	3229.8	4060.2	5715.9	8495.3	15149.4	20548.5	20715.5	20187.2	16589.8
75°	2258.4	2222.5	2352.4	2666.8	3343.7	5969.7	13621.1	19580.8	19751.6	19168.7	15378.3
77.5°	1634.7	1606.3	1762.2	2006.0	2332.6	2806.6	9574.5	17593.4	17813.6	17337.2	13321.6
80°	961.5	1002.3	1209.0	1440.4	1700.3	1869.9	4514.3	13143.4	14113.5	13919.2	9711.9
82.5°	183.2	198.0	502.4	763.6	936.7	991.2	1709.0	7229.4	8286.2	8497.9	5130.7
85°	120.1	129.9	300.7	306.9	299.4	383.6	690.5	3483.6	4473.5	4524.3	2253.5
87.5°	55.6	61.9	91.6	132.4	168.3	201.7	227.7	935.6	1382.3	1414.4	445.5
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: P285806

CATALOG NUMBER: USSL-XL-C049-D-U-T3-AP-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3003.4	3003.4	3003.4	3003.4	3003.4	3003.4	3003.4	3003.4	3003.4	3003.4	3003.4
2.5°	2986.1	2973.7	2947.7	2925.4	2910.6	2901.9	2852.4	2843.7	2825.2	2811.6	2805.3
5°	3030.6	3007.1	2944.0	2900.6	2845.0	2799.2	2716.3	2674.2	2649.4	2623.5	2617.3
7.5°	3106.1	3067.8	2968.8	2890.8	2795.5	2712.6	2596.2	2529.5	2482.4	2445.3	2441.6
10°	3212.6	3151.9	3009.6	2895.8	2758.4	2644.6	2499.8	2392.1	2326.5	2278.3	2275.7
12.5°	3344.9	3262.1	3086.3	2935.3	2758.4	2601.2	2429.2	2285.7	2189.1	2123.5	2116.1
15°	3510.7	3411.7	3213.7	3028.1	2819.0	2618.5	2381.0	2187.8	2046.8	1941.6	1936.6
17.5°	3717.4	3614.7	3421.7	3212.6	2934.1	2645.7	2345.0	2072.8	1868.6	1743.6	1730.0
20°	3978.5	3930.2	3732.2	3426.7	3052.9	2659.4	2264.6	1913.1	1636.0	1475.1	1454.1
22.5°	4352.3	4325.0	4041.6	3609.8	3121.0	2617.3	2132.2	1658.2	1321.6	1148.4	1132.3
25°	4820.0	4726.0	4318.9	3745.9	3133.3	2524.5	1908.2	1332.8	956.6	784.5	778.4
27.5°	5307.6	5136.8	4558.9	3841.2	3097.5	2337.6	1593.9	947.9	596.5	486.3	487.6
30°	5922.6	5598.4	4831.1	3931.5	3014.6	2084.0	1181.8	590.3	375.0	308.1	299.4
32.5°	6631.7	6182.5	5103.4	3967.4	2859.8	1725.1	749.9	362.6	235.1	200.4	196.7
35°	7459.6	6905.1	5453.6	3971.1	2604.9	1282.1	449.2	212.8	159.6	160.9	163.3
37.5°	8323.4	7671.2	5880.5	3926.5	2286.8	801.9	253.6	137.4	137.4	163.3	172.0
40°	9105.5	8403.8	6333.4	3826.3	1838.9	466.6	143.5	118.8	126.2	153.5	160.9
42.5°	9823.2	9037.3	6748.1	3670.4	1313.0	252.5	123.8	107.7	113.8	126.2	129.9
45°	10444.4	9588.1	7046.2	3419.1	796.9	155.9	113.8	97.7	96.6	105.1	107.7
47.5°	10980.2	10080.6	7248.0	3060.4	417.1	148.5	110.1	89.1	82.9	86.6	87.9
50°	11529.7	10445.6	7323.5	2556.7	214.1	139.8	102.7	82.9	76.7	87.9	89.1
52.5°	12085.3	10993.8	7333.3	1852.5	169.6	126.2	94.0	76.7	74.3	97.7	101.4
55°	12626.1	11393.6	7191.0	1072.9	164.6	117.5	85.4	69.3	71.8	74.3	74.3
57.5°	13196.6	11872.5	6891.6	469.0	159.6	107.7	79.2	63.1	53.2	59.4	61.9
60°	13808.0	12285.8	6288.9	271.0	152.2	96.6	68.0	51.9	44.5	44.5	48.2
62.5°	14425.5	12589.0	5302.7	198.0	144.8	90.3	59.4	45.8	37.1	37.1	39.6
65°	14826.3	12387.3	4089.9	175.7	139.8	81.7	51.9	39.6	29.7	28.5	30.9
67.5°	14753.4	11615.0	2880.9	157.2	127.5	74.3	45.8	34.7	26.0	21.0	22.3
70°	14148.2	10352.8	1597.6	147.2	113.8	68.0	40.8	30.9	21.0	13.6	13.6
72.5°	13033.3	8699.6	613.8	132.4	101.4	59.4	37.1	29.7	18.5	7.4	6.1
75°	11368.8	6620.6	221.5	111.4	84.2	54.5	35.9	30.9	17.3	2.4	0.0
77.5°	8913.7	3705.1	131.2	82.9	63.1	47.1	38.4	30.9	9.9	0.0	0.0
80°	4787.9	1337.7	92.8	53.2	42.1	34.7	34.7	24.8	5.0	0.0	0.0
82.5°	1987.4	300.7	59.4	29.7	28.5	22.3	22.3	11.1	1.3	0.0	0.0
85°	563.0	87.9	27.2	16.1	16.1	12.4	6.1	0.0	0.0	0.0	0.0
87.5°	48.2	18.5	7.4	8.7	6.1	2.4	0.0	0.0	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)