

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: P285795

Luminaire Tested: **USSL-XL-C047-D-U-T3-BZ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-7)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C047-D-U-T3-BZ-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26594 lumens
Efficiency: N/A
Efficacy: 151.1 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): 176
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

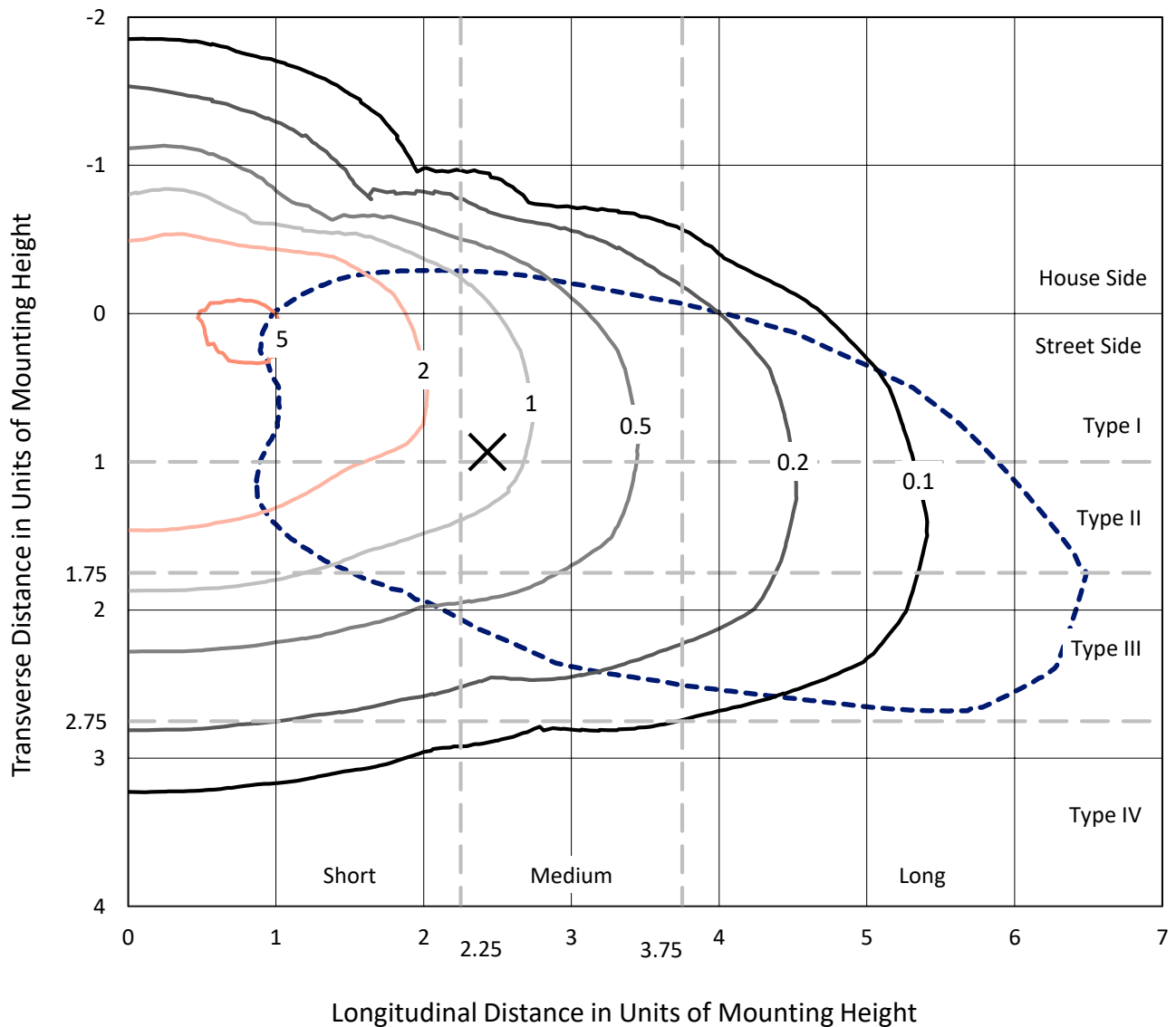


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

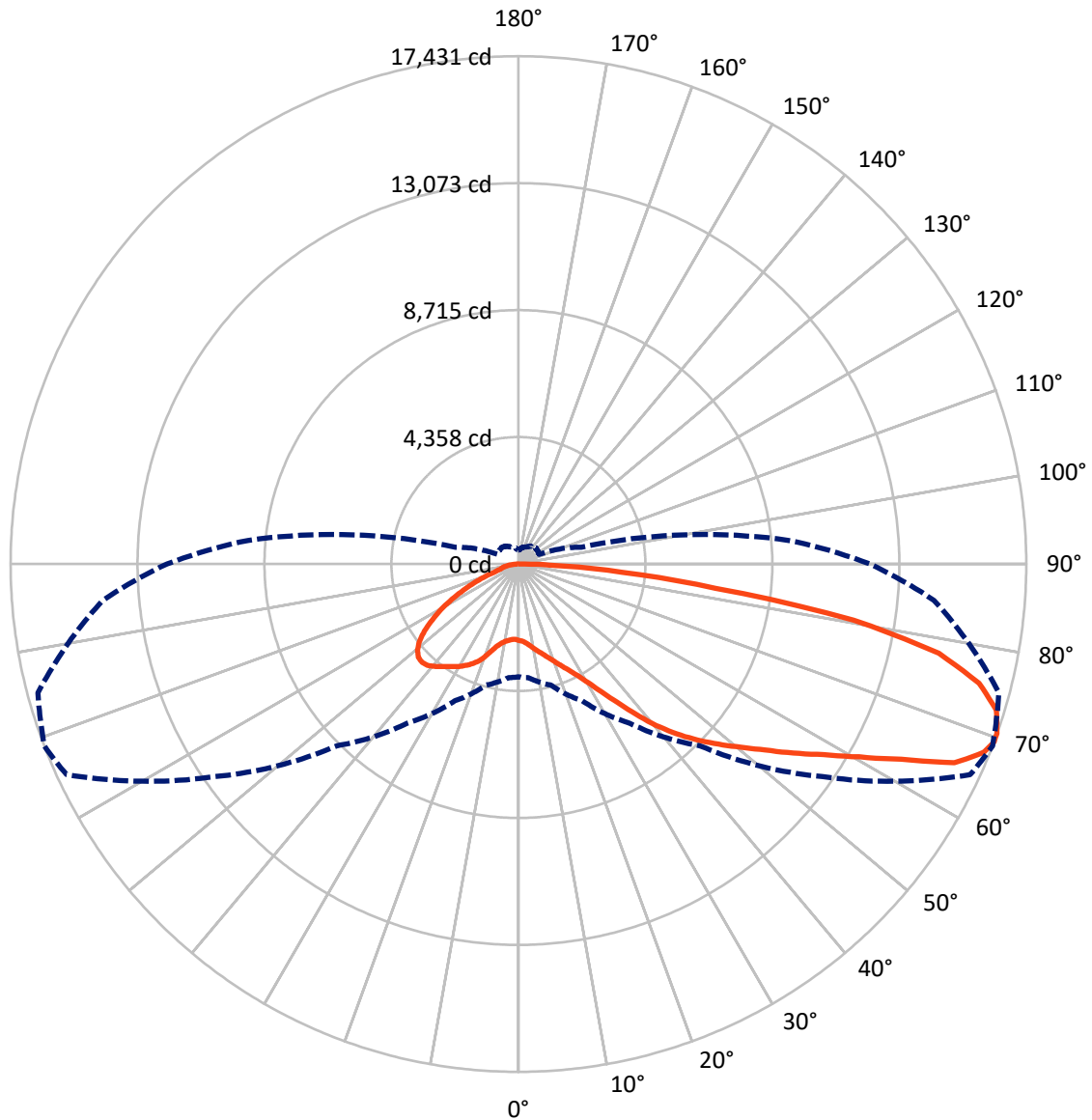


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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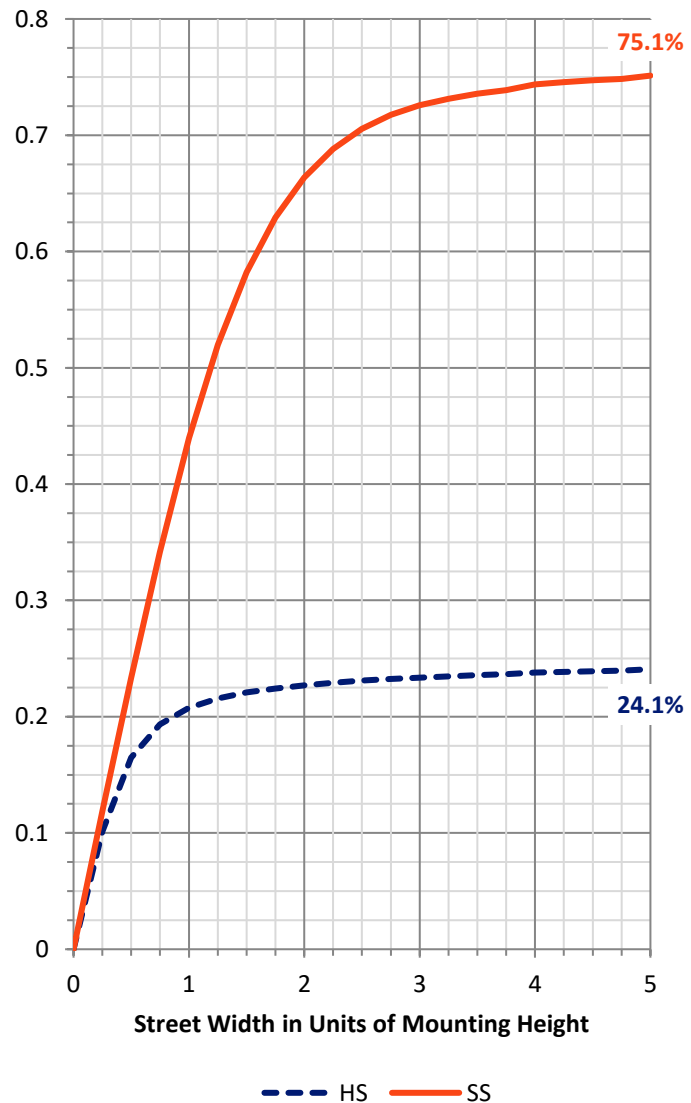
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6538.2	0.0	6538.2
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	20055.8	0.0	20055.8
	% Fixture	75.4	0.0	75.4
Total	Lumens	26594.0	0.0	26594.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.5	1.0
10°-20°	842.3	3.2
20°-30°	1577.5	5.9
30°-40°	2680.4	10.1
40°-50°	4113.3	15.5
50°-60°	5374.2	20.2
60°-70°	6119.5	23.0
70°-80°	4620.1	17.4
80°-90°	1008.3	3.8
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°	26594.0	100.0
0°-180°	26594.0	100.0



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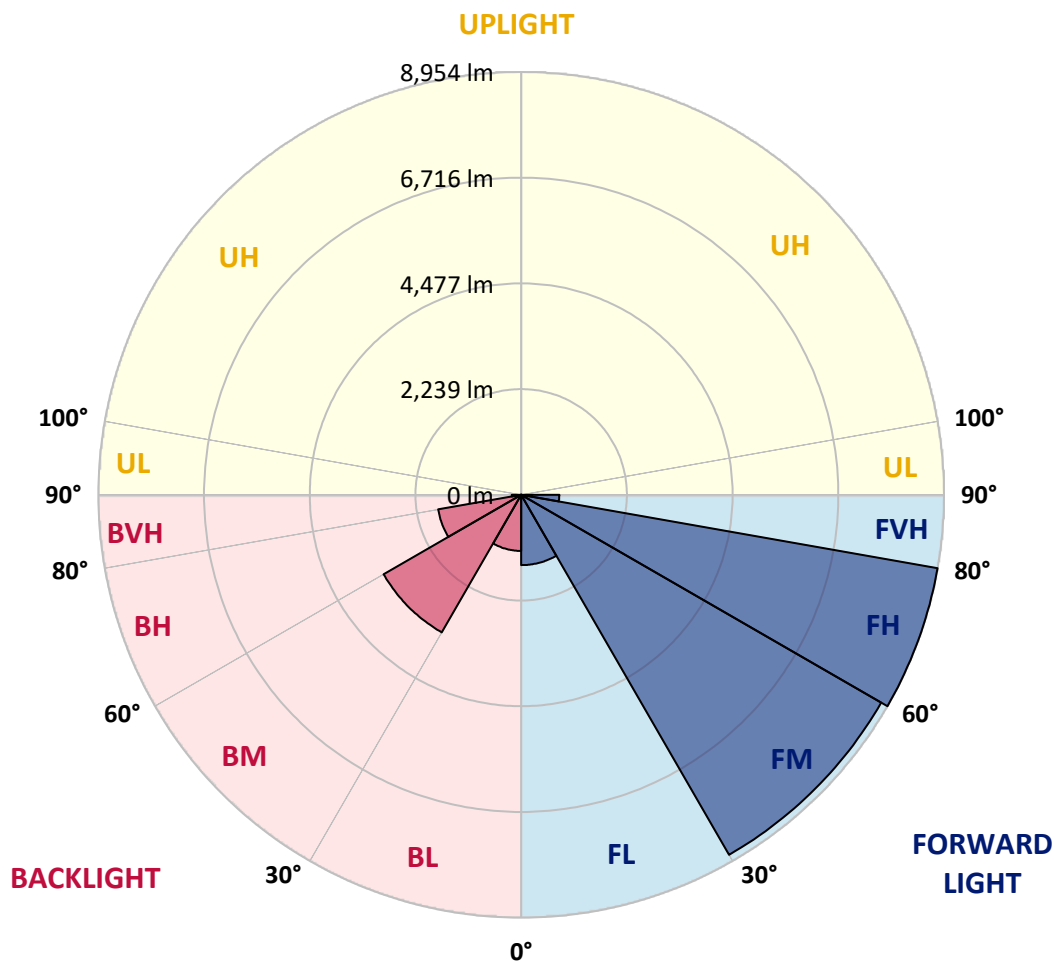
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1489.5	5.6			
FM	(30°-60°)	8803.6	33.1			
FH	(60°-80°)	8954.3	33.7			G4/12000
FVH	(80°-90°)	808.4	3.0			G5
BL	(0°-30°)	1188.8	4.5	B3/2500		
BM	(30°-60°)	3364.2	12.7	B3/5000		
BH	(60°-80°)	1785.3	6.7	B3/2500		G3/2500
BVH	(80°-90°)	199.9	0.8			G2/225
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	2623.7	2623.7	2623.7	2623.7	2623.7	2623.7	2623.7	2623.7	2623.7	2623.7	2623.7
2.5°	2723.5	2731.7	2730.6	2726.6	2724.5	2713.3	2699.1	2680.8	2650.2	2636.0	2617.6
5°	2839.6	2845.7	2846.7	2839.6	2831.4	2814.1	2784.6	2756.1	2722.5	2702.1	2666.5
7.5°	2938.3	2943.4	2952.6	2946.5	2942.4	2928.2	2899.7	2866.1	2822.3	2793.8	2743.9
10°	3017.8	3021.8	3029.0	3039.1	3058.5	3046.3	3012.7	2989.3	2949.5	2905.8	2843.7
12.5°	3074.8	3071.7	3092.1	3110.4	3150.1	3163.4	3139.9	3122.6	3083.9	3039.1	2965.8
15°	3101.2	3100.2	3135.9	3181.7	3240.7	3262.1	3262.1	3242.8	3221.4	3186.8	3109.4
17.5°	3158.3	3162.3	3185.8	3244.8	3307.9	3357.8	3405.7	3407.7	3391.4	3368.0	3287.6
20°	3245.8	3253.0	3265.2	3312.0	3382.3	3469.8	3559.4	3592.0	3583.8	3574.7	3511.6
22.5°	3355.8	3358.8	3355.8	3396.5	3490.2	3608.3	3737.6	3791.5	3796.6	3797.7	3766.1
25°	3531.9	3518.7	3485.1	3521.7	3630.7	3767.1	3924.9	4014.5	4037.9	4059.3	4134.7
27.5°	3853.7	3823.1	3760.0	3747.8	3809.9	3959.5	4155.0	4304.7	4338.3	4397.3	4597.9
30°	4372.9	4332.2	4273.1	4092.9	4068.5	4196.8	4445.2	4659.0	4726.2	4905.4	5136.5
32.5°	4899.3	4872.8	4806.6	4633.5	4450.3	4498.1	4742.5	5076.4	5221.0	5583.5	5797.3
35°	5351.3	5338.1	5300.4	5215.9	5003.1	4868.7	5081.5	5545.8	5815.6	6381.7	6574.1
37.5°	5787.1	5781.0	5783.0	5668.0	5578.4	5384.9	5470.5	6093.6	6536.4	7217.6	7346.9
40°	6167.9	6170.9	6202.5	6149.6	6134.3	6014.1	5928.6	6678.0	7284.8	8044.3	8074.9
42.5°	6480.5	6483.5	6630.1	6550.7	6645.4	6618.9	6495.7	7223.7	7973.0	8713.2	8709.2
45°	6686.1	6691.2	6835.8	6899.9	7100.5	7188.1	7096.4	7783.7	8615.5	9332.3	9251.8
47.5°	6838.8	6834.8	6917.2	7175.8	7517.9	7691.0	7724.6	8420.0	9238.6	9905.5	9766.0
50°	6921.3	6930.5	7088.3	7433.4	7938.4	8179.7	8364.0	9171.4	9878.0	10458.3	10261.8
52.5°	6973.2	7019.0	7250.2	7660.5	8318.2	8695.9	8927.0	10004.2	10598.8	11032.5	10787.2
55°	7009.9	7093.4	7321.4	7779.6	8554.4	9114.4	9455.5	10863.5	11450.0	11683.1	11363.4
57.5°	6748.2	6828.7	7199.3	7797.9	8740.7	9458.5	10018.5	11770.7	12337.8	12485.4	11933.6
60°	6301.3	6349.1	6826.6	7654.4	8700.0	9771.1	10757.6	12846.9	13440.4	13451.6	12534.3
62.5°	5841.1	5860.4	6343.0	7279.7	8516.7	9873.9	11496.8	14281.4	14747.7	14605.2	13172.7
65°	5230.2	5251.6	5749.4	6663.7	8073.8	9759.9	12101.6	15793.4	16446.0	16065.2	13806.0
67.5°	4432.0	4478.8	4941.0	5788.1	7285.8	9319.0	12535.3	16834.9	17235.0	16907.2	14243.8
69°	3873.0	3916.8	4304.7	5182.3	6671.9	8822.2	12717.6	17109.8	17430.5	17073.2	14317.1
70°	3470.8	3504.4	3867.9	4729.3	6191.3	8397.6	12757.3	17184.1	17420.3	17079.3	14277.4
72.5°	2474.1	2502.6	2700.1	3308.9	4692.6	7034.3	12562.8	16982.5	17155.6	16663.9	13757.1
75°	1829.6	1852.0	1970.1	2185.9	2731.7	4977.7	11351.2	16144.6	16328.9	15755.7	12672.8
77.5°	1327.7	1346.0	1460.0	1670.8	1922.2	2343.8	7869.2	14570.6	14751.8	14291.6	10909.4
80°	906.1	925.5	1028.3	1206.5	1405.0	1559.8	3863.8	10664.0	11662.8	11438.8	7774.5
82.5°	170.0	208.7	441.9	626.2	790.1	845.1	1461.0	5863.5	6813.4	6949.8	4054.2
85°	113.0	122.2	269.8	262.7	257.6	377.7	572.2	2811.1	3556.4	3684.6	1750.2
87.5°	56.0	59.1	80.4	111.0	141.5	170.0	188.4	741.2	1071.1	1148.5	326.8
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°	2623.7	2623.7	2623.7	2623.7	2623.7	2623.7	2623.7	2623.7	2623.7	2623.7	2623.7
2.5°	2610.5	2605.4	2590.1	2584.0	2580.0	2577.9	2553.5	2549.4	2537.2	2529.1	2521.9
5°	2649.2	2641.1	2605.4	2592.2	2571.8	2554.5	2513.8	2496.5	2484.3	2468.0	2460.8
7.5°	2717.4	2703.2	2649.2	2624.8	2589.1	2559.6	2503.6	2477.1	2453.7	2431.3	2427.2
10°	2810.1	2783.6	2709.3	2671.6	2619.7	2585.1	2519.9	2469.0	2434.4	2408.9	2407.9
12.5°	2931.2	2891.5	2801.9	2752.0	2687.9	2634.9	2560.6	2484.3	2427.2	2386.5	2384.5
15°	3075.8	3034.1	2943.4	2879.3	2804.0	2732.7	2613.6	2500.5	2405.9	2340.7	2332.6
17.5°	3253.0	3213.2	3130.8	3078.9	2973.0	2832.5	2663.4	2494.4	2359.0	2269.4	2256.2
20°	3476.9	3488.1	3410.8	3297.7	3121.6	2914.9	2687.9	2462.9	2266.4	2141.1	2122.8
22.5°	3789.5	3827.2	3697.9	3490.2	3234.6	2958.7	2677.7	2379.4	2139.1	1987.4	1972.1
25°	4172.3	4161.1	3928.0	3631.7	3292.7	2957.7	2620.7	2260.3	1977.2	1806.2	1795.0
27.5°	4572.5	4505.3	4144.8	3730.5	3302.8	2901.7	2508.7	2081.1	1790.9	1648.4	1614.8
30°	5082.5	4895.2	4366.8	3813.9	3269.2	2794.8	2306.1	1909.0	1684.0	1529.2	1506.8
32.5°	5672.0	5360.5	4616.2	3839.4	3194.9	2630.9	2086.2	1829.6	1613.7	1437.6	1412.2
35°	6357.3	5956.1	4905.4	3848.6	3053.4	2387.5	1967.0	1783.8	1566.9	1367.4	1333.8
37.5°	7074.0	6587.4	5261.7	3838.4	2888.5	2120.8	1883.6	1717.6	1514.0	1351.1	1331.7
40°	7721.6	7195.2	5663.9	3809.9	2662.4	1947.7	1792.9	1626.0	1468.2	1345.0	1329.7
42.5°	8315.1	7724.6	6048.8	3762.0	2380.4	1824.5	1693.2	1557.8	1410.1	1259.4	1228.9
45°	8829.3	8213.3	6333.8	3648.0	2064.8	1698.3	1573.0	1463.1	1323.6	1173.9	1143.4
47.5°	9270.1	8616.5	6557.8	3452.5	1810.2	1580.2	1436.6	1350.1	1227.9	1085.3	1054.8
50°	9720.2	8944.3	6689.2	3129.8	1597.5	1444.7	1301.2	1218.7	1113.8	1010.0	991.7
52.5°	10202.8	9476.8	6880.6	2598.3	1401.0	1302.2	1157.6	1068.0	990.6	946.9	929.6
55°	10690.5	9949.2	6950.8	1965.0	1228.9	1190.2	1022.2	906.1	851.2	823.7	819.6
57.5°	11175.1	10352.4	6710.5	1398.9	1114.9	1060.9	877.6	767.7	702.5	721.9	751.4
60°	11670.9	10646.7	6096.6	1094.5	1025.3	906.1	755.5	674.0	645.5	624.1	625.1
62.5°	12129.1	10784.1	5052.0	929.6	938.7	810.4	712.7	633.3	604.8	568.1	556.9
65°	12433.5	10541.8	3943.2	860.3	860.3	786.0	710.7	634.3	595.6	531.5	520.3
67.5°	12345.9	9910.6	2918.0	798.2	810.4	796.2	728.0	632.3	584.4	523.3	519.3
69°	12063.9	9305.8	2240.9	779.9	802.3	805.3	748.3	642.4	596.6	504.0	481.6
70°	11780.9	8839.5	1855.0	764.6	800.3	811.5	764.6	654.7	587.5	473.4	459.2
72.5°	10818.7	7471.1	934.7	705.6	797.2	818.6	800.3	700.5	582.4	456.1	443.9
75°	9511.4	5746.4	599.7	655.7	771.7	826.7	828.8	743.2	584.4	445.9	430.7
77.5°	7620.8	3331.3	497.9	599.7	723.9	810.4	837.9	775.8	608.8	463.3	445.9
80°	4052.2	1317.5	400.1	512.1	662.8	761.6	812.5	764.6	602.7	386.9	375.7
82.5°	1794.0	409.3	293.2	402.2	521.3	665.9	690.3	673.0	527.4	234.2	267.8
85°	504.0	169.0	195.5	289.2	360.4	471.4	540.6	542.7	409.3	101.8	23.4
87.5°	51.9	38.7	57.0	111.0	207.7	326.8	395.0	378.7	273.9	86.5	2.0
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)