

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: P285851

Luminaire Tested: **USSL-XL-C049-D-U-T4-BZ-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-10)
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-T4-BZ-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28155 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

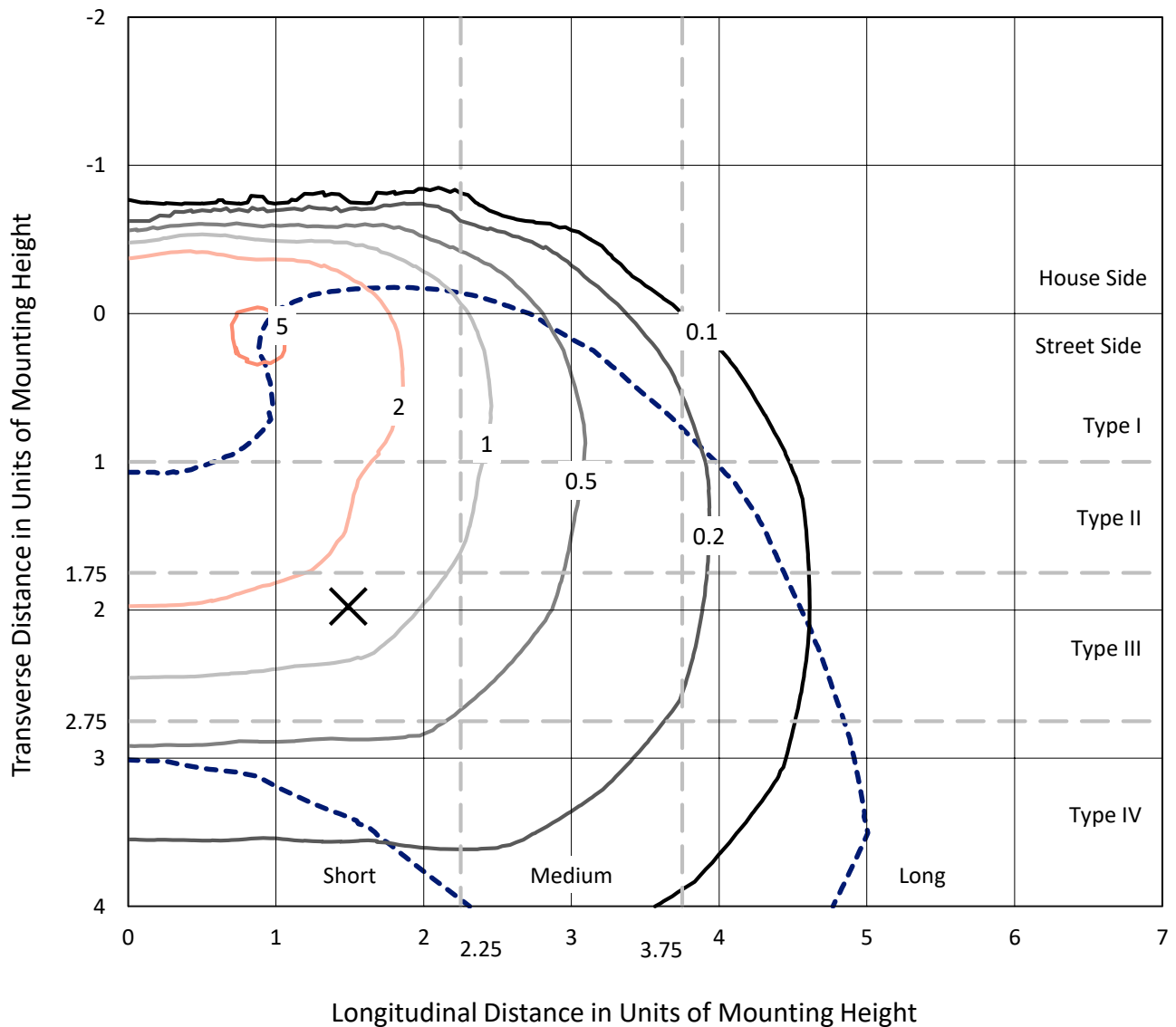
Input Watts (W): 217
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P285851
 CATALOG NUMBER: USSL-XL-C049-D-U-T4-BZ-HSS

Iso-Footcandle Lines of Horizontal Illumination

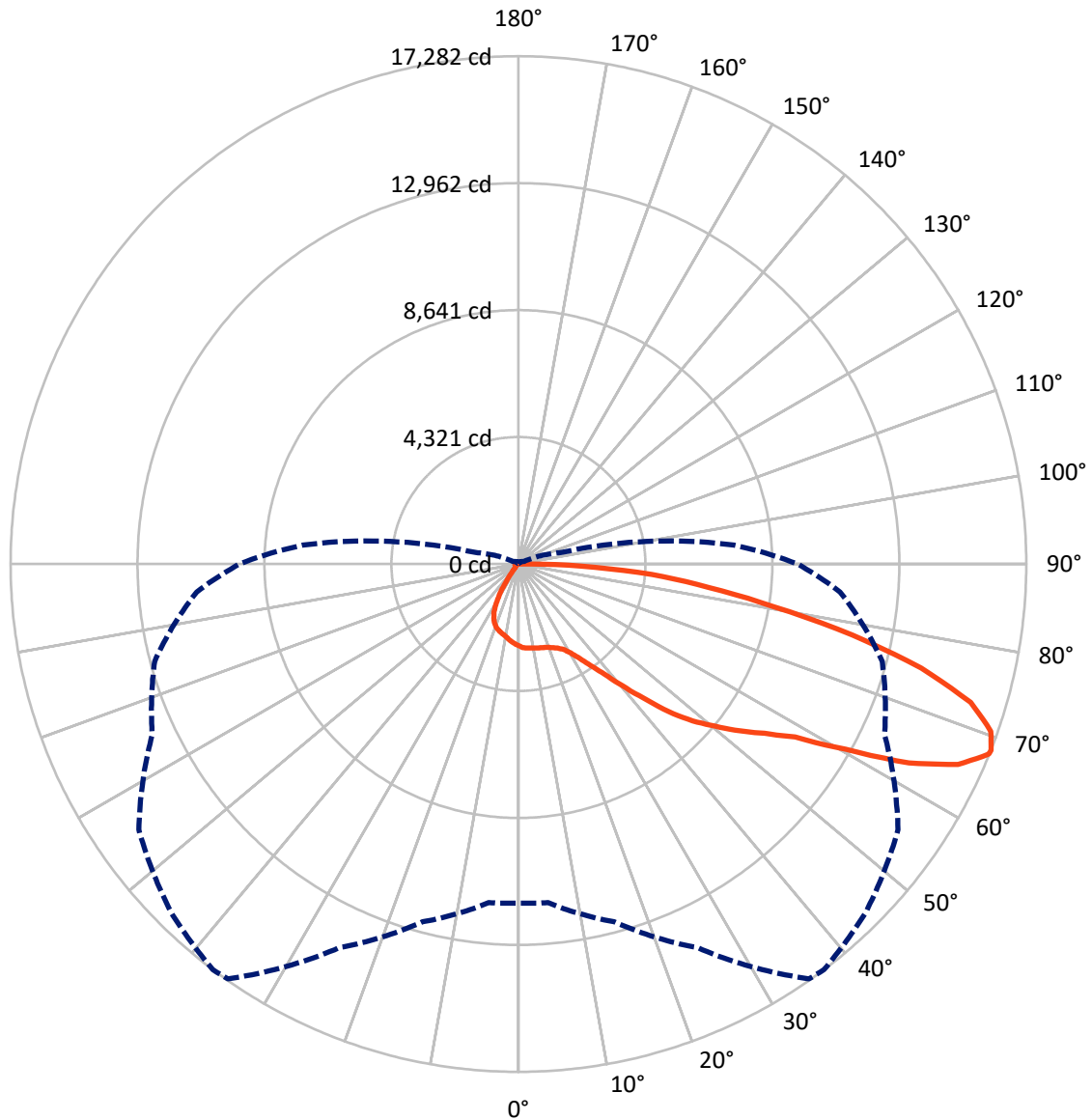
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P285851
CATALOG NUMBER: USSL-XL-C049-D-U-T4-BZ-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P285851

CATALOG NUMBER: USSL-XL-C049-D-U-T4-BZ-HSS

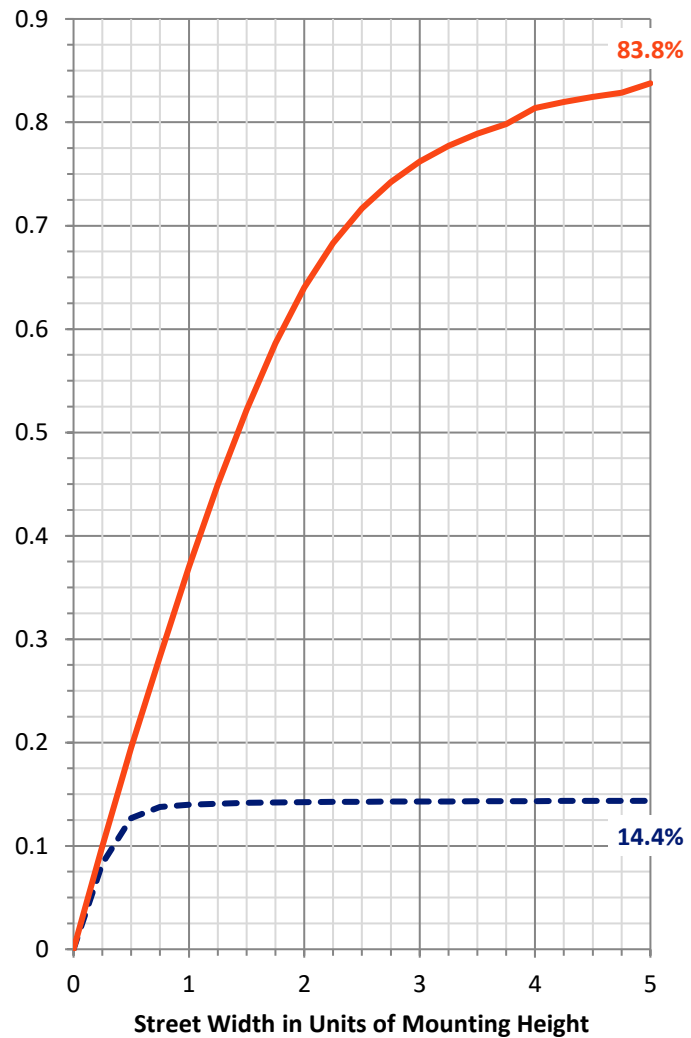
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4089.7	0.0	4089.7
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	24065.4	0.0	24065.4
	% Fixture	85.5	0.0	85.5
Total	Lumens	28155.0	0.0	28155.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.2	0.9
10°-20°	781.2	2.8
20°-30°	1305.4	4.6
30°-40°	2120.3	7.5
40°-50°	3830.6	13.6
50°-60°	5705.9	20.3
60°-70°	7432.9	26.4
70°-80°	5472.5	19.4
80°-90°	1243.0	4.4
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°	28155.0	100.0
0°-180°	28155.0	100.0



REPORT NUMBER: P285851

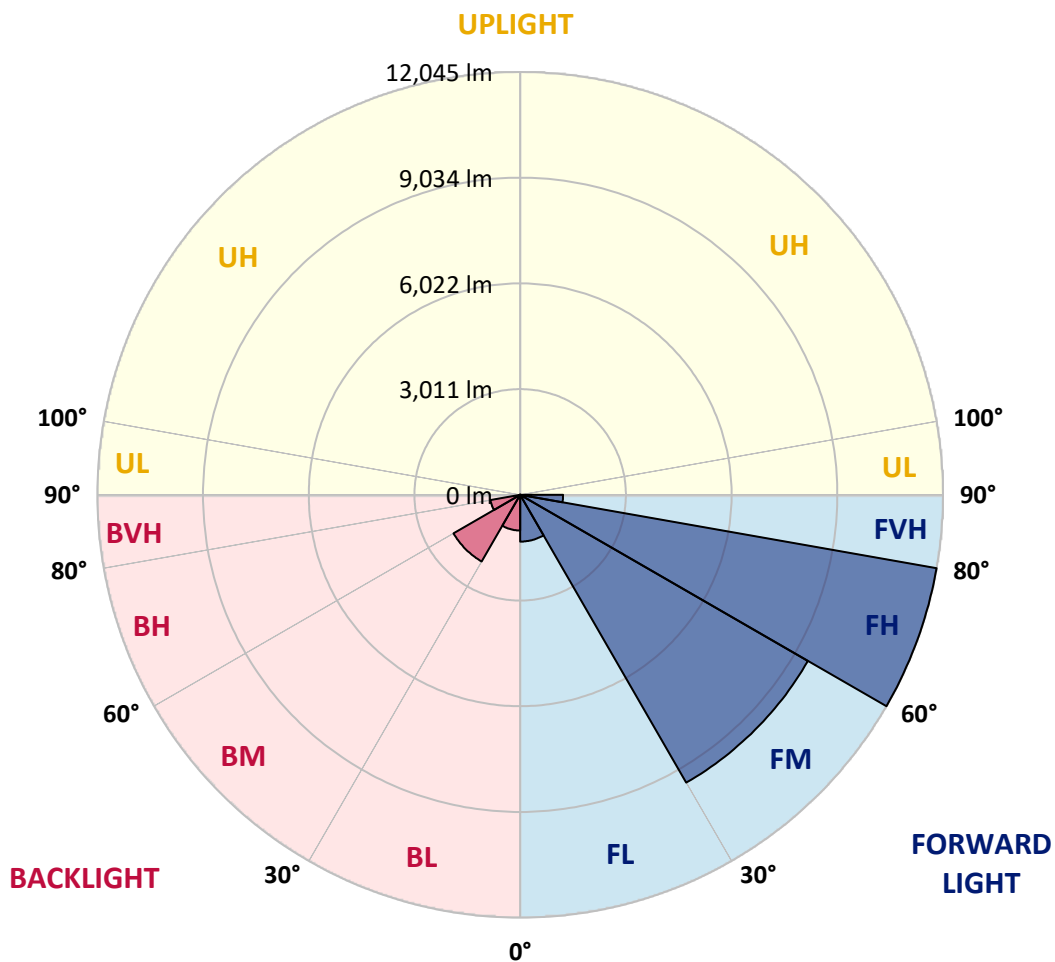
CATALOG NUMBER: USSL-XL-C049-D-U-T4-BZ-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1332.6	4.7			
FM	(30°-60°)	9465.2	33.6			
FH	(60°-80°)	12044.9	42.8			G5
FVH	(80°-90°)	1222.6	4.3			G5
BL	(0°-30°)	1017.1	3.6	B3/2500		
BM	(30°-60°)	2191.6	7.8	B2/2500		
BH	(60°-80°)	860.6	3.1	B2/1000		G2/1000
BVH	(80°-90°)	20.4	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 IV Short





REPORT NUMBER: P285851

CATALOG NUMBER: USSL-XL-C049-D-U-T4-BZ-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3
2.5°	2846.9	2849.3	2849.3	2845.7	2850.5	2846.9	2838.6	2830.3	2820.7	2782.7	2774.4
5°	2860.0	2865.9	2865.9	2864.7	2871.9	2870.7	2863.6	2856.4	2845.7	2800.5	2785.1
7.5°	2867.1	2873.1	2874.3	2871.9	2886.2	2888.5	2883.8	2883.8	2875.4	2830.3	2807.7
10°	2865.9	2867.1	2870.7	2876.6	2899.2	2905.2	2911.1	2920.6	2920.6	2883.8	2857.6
12.5°	2835.0	2836.2	2848.1	2875.4	2920.6	2930.2	2948.0	2974.2	2987.2	2967.0	2944.4
15°	2813.6	2813.6	2830.3	2873.1	2942.0	2955.1	2993.2	3033.6	3071.7	3069.3	3064.5
17.5°	2832.6	2836.2	2862.4	2899.2	2969.4	2983.7	3033.6	3099.0	3159.7	3185.8	3190.6
20°	2889.7	2893.3	2921.8	2959.9	3020.5	3031.2	3080.0	3158.5	3248.9	3305.9	3339.2
22.5°	2974.2	2976.5	2999.1	3027.7	3087.1	3094.3	3141.8	3226.3	3340.4	3437.9	3496.2
25°	3053.8	3058.6	3078.8	3100.2	3166.8	3172.7	3231.0	3320.2	3453.4	3584.2	3691.2
27.5°	3134.7	3143.0	3168.0	3197.7	3294.0	3296.4	3349.9	3437.9	3596.1	3774.5	3933.8
30°	3314.3	3304.7	3326.1	3365.4	3501.0	3509.3	3562.8	3661.5	3809.0	4009.9	4240.6
32.5°	3619.9	3609.2	3608.0	3666.3	3791.1	3831.6	3889.8	4045.6	4229.9	4429.7	4671.1
35°	4224.0	4207.3	4127.7	4108.6	4182.4	4239.4	4356.0	4584.3	4894.7	5331.1	5605.8
37.5°	5227.7	5206.3	5031.4	4825.7	4719.9	4755.5	4853.1	5169.4	5690.2	6614.2	6886.6
40°	6219.4	6224.2	6012.5	5670.0	5439.3	5446.5	5407.2	5772.3	6547.7	7811.8	7922.3
42.5°	7167.2	7158.9	6899.7	6586.9	6292.0	6233.7	6087.4	6403.8	7350.4	8777.4	8729.8
45°	8008.0	7991.3	7702.3	7527.5	7204.1	7173.2	6938.9	7044.7	8160.2	9545.6	9382.7
47.5°	8810.7	8796.4	8453.9	8288.6	8028.2	7974.7	7754.7	7808.2	8911.8	10149.7	9908.3
50°	9646.7	9675.2	9176.9	8986.7	8747.6	8677.5	8566.9	8599.0	9687.1	10718.1	10356.6
52.5°	10662.2	10518.3	9990.3	9638.3	9446.9	9432.6	9291.1	9358.9	10539.7	11217.6	10756.2
55°	11745.6	11555.3	11035.6	10576.6	10147.3	10172.3	9963.0	10062.9	11305.6	11649.3	11071.3
57.5°	12485.3	12480.5	12342.5	11903.7	11155.7	11103.4	10715.7	10800.2	11976.3	12095.2	11308.0
60°	13192.8	13386.7	13535.3	13339.1	12976.4	12809.9	11725.4	11568.4	12588.7	12498.3	11443.5
62.5°	13668.5	13727.9	14288.1	14453.4	14942.1	14910.0	13743.4	12498.3	13110.8	12760.0	11487.5
65°	13230.9	13279.6	14129.9	14925.5	16377.5	16444.0	15957.7	14033.6	13522.2	12850.3	11397.1
67.5°	11874.0	11909.7	12908.6	14555.6	17175.4	17263.4	16696.2	15635.4	13730.3	12834.9	11089.1
68°	11543.4	11568.4	12605.4	14399.8	17234.9	17282.4	16733.0	15768.6	13747.0	12817.0	10989.3
70°	10124.7	10120.0	11099.9	13474.7	17042.2	17056.5	16520.2	15913.7	13681.6	12648.2	10351.9
72.5°	7828.4	7980.6	8797.6	11349.6	15980.3	16094.4	15815.0	15512.9	13403.3	11965.6	8826.1
75°	5570.1	5689.1	6528.6	8851.1	13794.5	14154.9	14650.8	14761.4	12392.5	10284.1	6502.5
77.5°	3886.3	4012.3	4797.2	6610.7	11151.0	11621.9	12668.4	12832.5	10423.2	7796.3	3317.8
80°	2486.6	2606.7	3327.3	4807.9	8419.4	8821.4	9965.4	9728.7	7294.5	4176.4	581.5
82.5°	1511.5	1572.1	2116.7	3288.1	6136.2	6509.6	6890.1	5842.5	3491.4	591.0	186.7
85°	858.6	901.4	1298.6	2123.9	4334.6	4551.0	4636.6	2915.9	726.6	159.4	107.0
87.5°	228.3	317.5	701.6	1309.3	2181.0	2125.1	2290.4	1044.1	130.8	69.0	51.1
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: P285851

CATALOG NUMBER: USSL-XL-C049-D-U-T4-BZ-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3
2.5°	2764.9	2762.5	2754.2	2750.6	2754.2	2750.6	2724.4	2726.8	2726.8	2713.7	2705.4
5°	2770.8	2764.9	2738.7	2733.9	2719.7	2697.1	2654.3	2644.7	2636.4	2615.0	2611.4
7.5°	2787.4	2779.1	2737.5	2718.5	2679.2	2638.8	2580.5	2546.0	2529.4	2503.2	2506.8
10°	2836.2	2818.4	2758.9	2722.0	2648.3	2581.7	2497.3	2445.0	2414.0	2374.8	2387.9
12.5°	2924.2	2896.9	2823.1	2758.9	2645.9	2547.2	2427.1	2330.8	2282.0	2236.9	2249.9
15°	3044.3	3014.6	2924.2	2826.7	2676.9	2533.0	2367.7	2215.5	2127.5	2069.2	2072.7
17.5°	3178.7	3152.5	3049.1	2919.4	2724.4	2523.5	2299.9	2095.3	1934.8	1851.6	1849.2
20°	3321.4	3305.9	3193.0	3018.2	2773.2	2502.0	2213.1	1941.9	1720.8	1580.4	1568.5
22.5°	3485.5	3478.4	3346.4	3115.7	2795.8	2453.3	2096.5	1751.7	1457.9	1267.7	1255.8
25°	3700.7	3690.0	3498.6	3183.4	2786.3	2371.2	1933.6	1523.3	1125.0	906.2	896.6
27.5°	3960.0	3906.5	3633.0	3217.9	2739.9	2241.6	1720.8	1184.4	756.3	557.7	553.0
30°	4251.3	4146.7	3750.7	3221.5	2654.3	2060.9	1408.0	765.8	440.0	313.9	311.6
32.5°	4629.5	4445.2	3877.9	3201.3	2523.5	1817.1	1006.1	438.8	221.2	168.9	168.9
35°	5373.9	4972.0	4040.8	3149.0	2341.5	1468.6	620.8	212.9	129.6	127.2	128.4
37.5°	6479.9	5824.6	4307.2	3064.5	2098.9	1058.4	318.7	118.9	118.9	123.7	124.9
40°	7456.2	6716.5	4691.3	2945.6	1776.6	669.5	152.2	111.8	118.9	120.1	122.5
42.5°	8229.2	7432.4	5096.8	2766.0	1398.5	356.8	127.2	108.2	110.6	109.4	114.2
45°	8847.5	7997.3	5409.6	2530.6	987.0	183.1	132.0	104.6	96.3	96.3	98.7
47.5°	9329.2	8426.6	5605.8	2274.9	600.5	147.5	132.0	92.8	86.8	88.0	89.2
50°	9752.5	8747.6	5673.6	1959.8	302.1	149.8	127.2	88.0	77.3	78.5	80.9
52.5°	10056.9	8973.6	5622.5	1568.5	166.5	152.2	121.3	80.9	66.6	72.5	74.9
55°	10286.4	9080.6	5453.6	1115.5	151.0	149.8	117.7	72.5	59.5	71.4	74.9
57.5°	10416.1	9116.3	5167.0	726.6	165.3	132.0	108.2	66.6	55.9	70.2	74.9
60°	10469.6	9050.9	4753.2	425.7	168.9	116.5	101.1	61.8	51.1	58.3	60.6
62.5°	10413.7	8883.2	4144.3	268.8	154.6	110.6	96.3	58.3	42.8	41.6	40.4
65°	10191.3	8468.2	3138.3	215.2	143.9	110.6	90.4	51.1	33.3	25.0	22.6
67.5°	9659.7	7612.0	1775.5	212.9	140.3	108.2	82.1	46.4	26.2	13.1	10.7
68°	9499.2	7365.8	1496.0	216.4	143.9	108.2	80.9	44.0	25.0	10.7	8.3
70°	8520.5	6037.5	516.1	208.1	164.1	114.2	77.3	38.1	20.2	4.8	3.6
72.5°	6488.2	3709.1	228.3	167.7	180.8	118.9	77.3	36.9	16.6	1.2	0.0
75°	3772.1	913.3	195.0	113.0	151.0	141.5	89.2	42.8	15.5	0.0	0.0
77.5°	914.5	210.5	170.1	65.4	118.9	154.6	105.8	47.6	16.6	0.0	0.0
80°	217.6	164.1	165.3	41.6	95.1	137.9	91.6	51.1	23.8	0.0	0.0
82.5°	143.9	129.6	147.5	22.6	54.7	102.3	64.2	32.1	29.7	0.0	0.0
85°	97.5	118.9	84.4	13.1	21.4	34.5	26.2	4.8	5.9	0.0	0.0
87.5°	54.7	34.5	14.3	5.9	4.8	3.6	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)