

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: P319627

Luminaire Tested: **GAN-SA3A-730-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319627  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3A-730-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12957 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

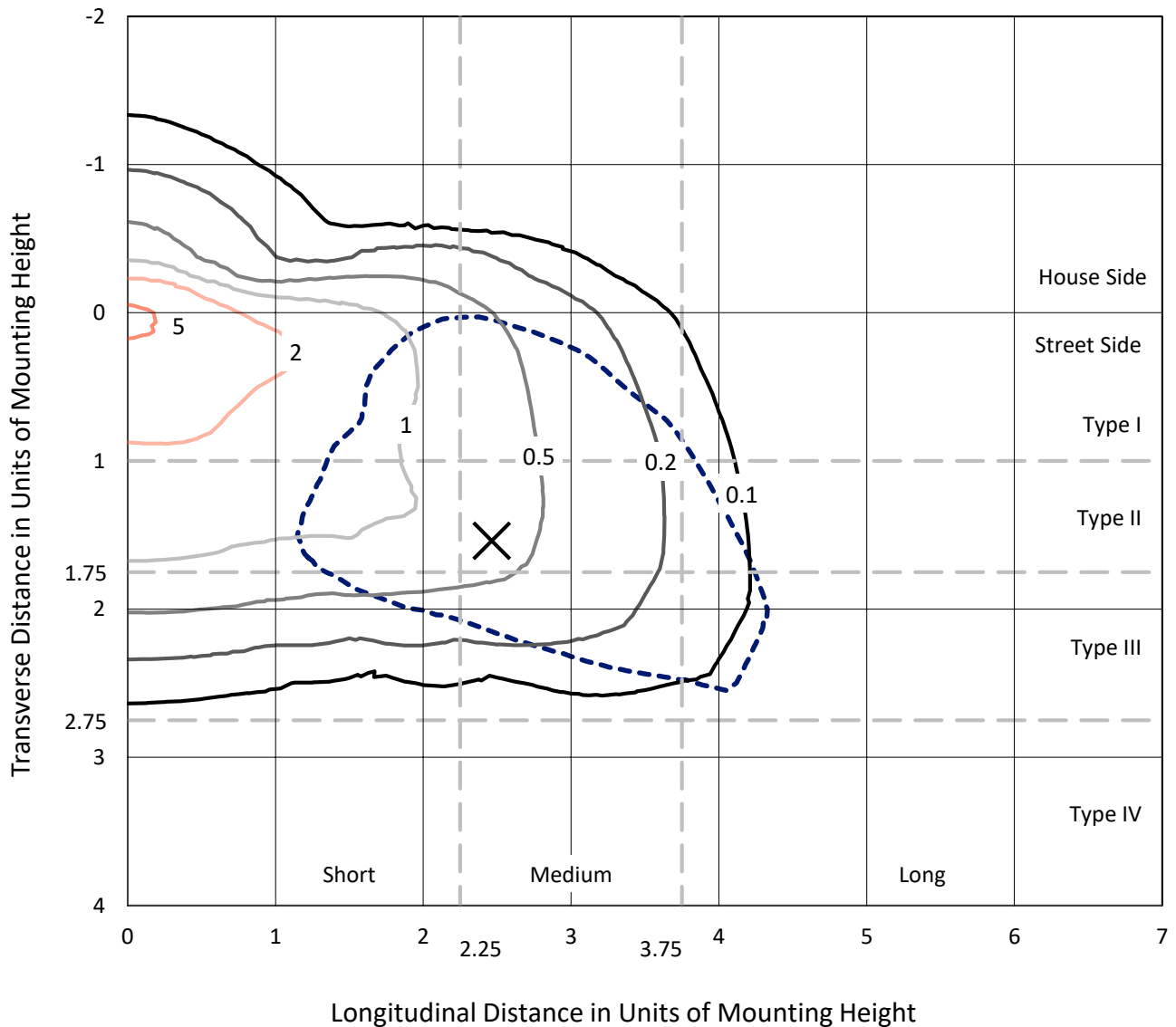
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

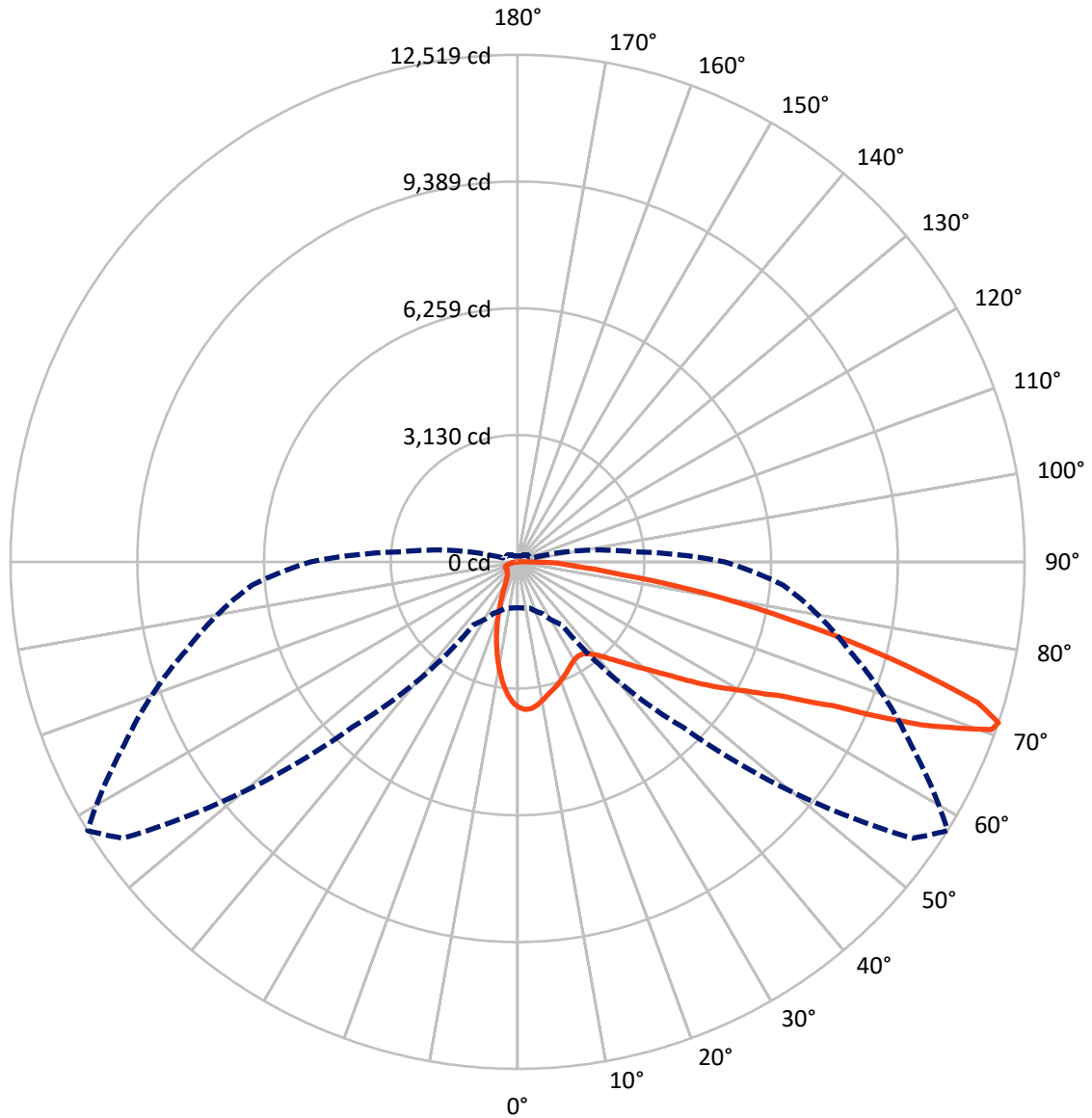
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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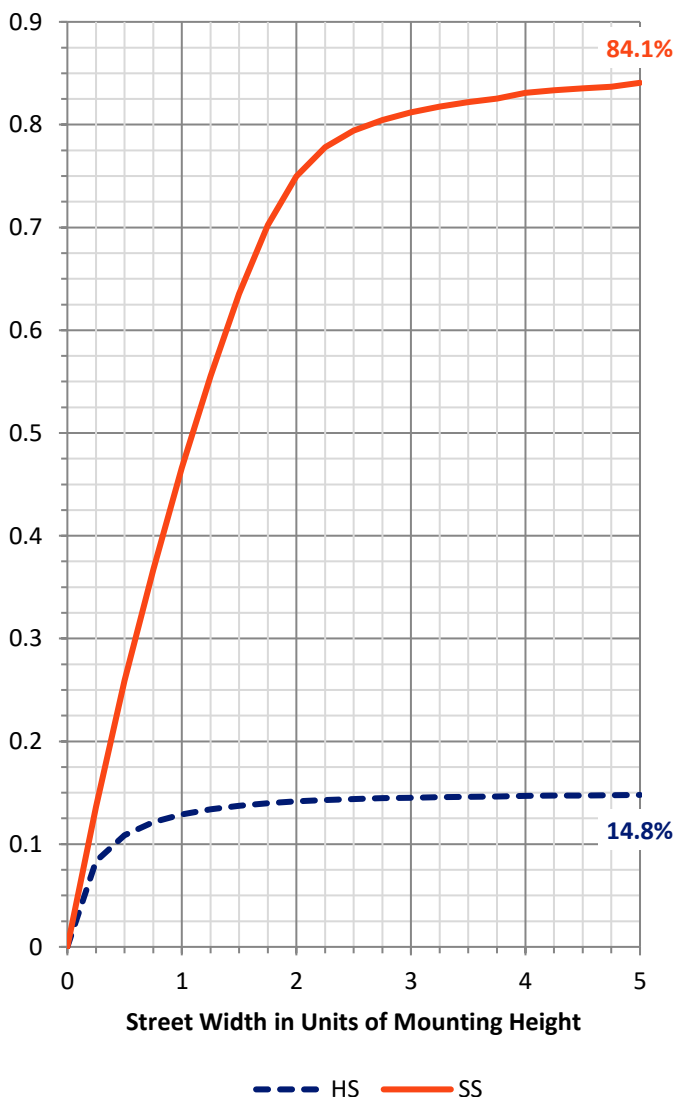
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1937.2	0.0	1937.2
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	11019.8	0.0	11019.8
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	12957.0	0.0	12957.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.7	2.4
10°-20°	688.7	5.3
20°-30°	875.2	6.8
30°-40°	1114.9	8.6
40°-50°	1580.9	12.2
50°-60°	2446.5	18.9
60°-70°	3330.7	25.7
70°-80°	2221.9	17.1
80°-90°	388.5	3.0
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°	12957.0	100.0
0°-180°	12957.0	100.0

**Coefficient of Utilization**

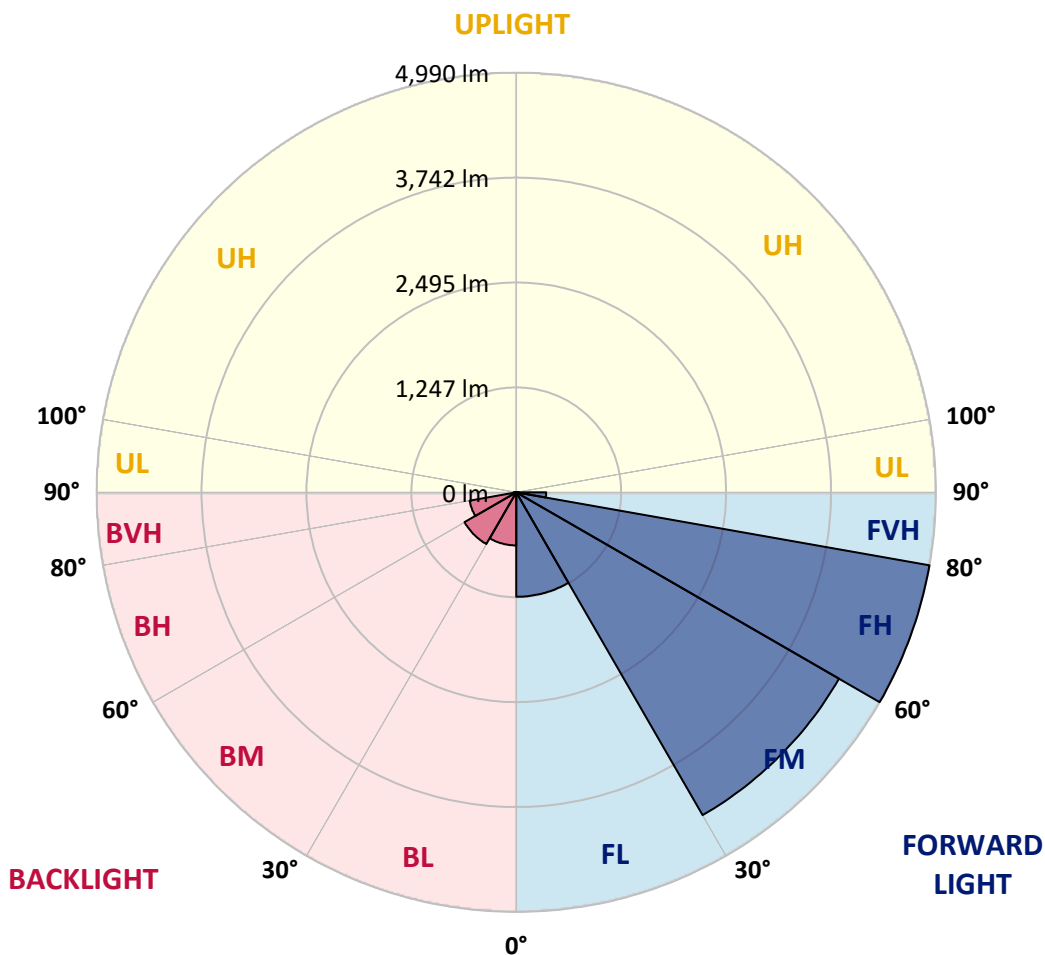


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1242.1	9.6			
FM (30°-60°)	4431.9	34.2			
FH (60°-80°)	4989.6	38.5			G2/5000
FVH (80°-90°)	356.2	2.7			G3/500
BL (0°-30°)	631.5	4.9	B2/1000		
BM (30°-60°)	710.4	5.5	B1/1000		
BH (60°-80°)	563.0	4.3	B2/1000		G2/1000
BVH (80°-90°)	32.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3590.0	3590.0	3590.0	3590.0	3590.0	3590.0	3590.0	3590.0	3590.0	3590.0	3590.0
2.5°	3685.2	3680.2	3682.0	3678.4	3669.8	3661.3	3648.6	3650.9	3633.3	3607.1	3574.6
5°	3615.7	3613.9	3627.4	3635.1	3641.4	3636.4	3632.8	3637.3	3611.6	3575.5	3519.1
7.5°	3469.9	3450.0	3467.2	3492.9	3517.3	3535.8	3560.2	3563.3	3547.1	3509.2	3435.1
10°	3262.7	3243.8	3269.1	3309.2	3358.0	3402.2	3451.4	3460.4	3463.6	3429.3	3339.5
12.5°	3047.9	3033.5	3058.7	3115.1	3195.9	3264.1	3342.6	3356.2	3384.1	3361.1	3251.0
15°	2855.6	2850.2	2880.9	2936.4	3029.4	3133.7	3246.9	3271.8	3319.2	3311.5	3181.9
17.5°	2689.5	2688.2	2711.6	2769.9	2872.8	3004.6	3151.7	3193.7	3264.1	3273.1	3125.1
20°	2565.9	2563.2	2579.4	2622.3	2728.3	2877.7	3048.8	3106.6	3208.1	3239.7	3066.4
22.5°	2499.5	2499.1	2499.5	2519.8	2606.5	2745.5	2948.6	3019.0	3153.5	3213.1	3001.4
25°	2488.2	2486.9	2477.0	2474.7	2523.9	2634.9	2849.3	2926.9	3101.6	3194.6	2939.6
27.5°	2517.6	2519.4	2506.3	2485.1	2495.0	2562.3	2763.1	2846.1	3060.1	3191.0	2896.7
30°	2578.5	2577.6	2566.3	2544.2	2524.8	2535.2	2701.7	2784.8	3032.1	3206.8	2867.4
32.5°	2645.8	2650.7	2648.5	2636.3	2607.4	2565.9	2683.2	2764.5	3024.0	3244.7	2854.7
35°	2726.5	2732.0	2748.2	2757.7	2723.8	2657.0	2722.9	2793.3	3047.4	3316.0	2875.0
37.5°	2803.3	2817.3	2862.8	2903.0	2874.1	2799.7	2828.5	2878.6	3120.1	3428.4	2929.6
40°	2891.7	2903.9	2978.4	3063.7	3059.2	2982.0	2998.7	3032.1	3248.3	3589.5	3028.5
42.5°	2978.8	3003.2	3111.1	3232.0	3266.8	3198.6	3225.3	3242.9	3428.8	3803.0	3200.9
45°	3094.8	3121.0	3270.9	3416.6	3497.9	3459.5	3501.9	3508.7	3655.9	4093.7	3451.4
47.5°	3270.4	3300.2	3474.9	3627.9	3752.0	3756.0	3826.0	3823.3	3939.3	4426.3	3766.9
50°	3543.9	3586.8	3729.9	3872.9	4023.7	4107.6	4201.1	4188.0	4279.2	4780.6	4130.2
52.5°	3902.3	3922.1	4028.2	4133.8	4321.1	4509.3	4643.4	4631.6	4664.6	5144.8	4542.7
55°	4273.7	4288.6	4332.4	4390.2	4642.0	4948.9	5232.4	5213.9	5130.4	5523.0	4950.3
57.5°	4607.7	4638.0	4668.2	4692.1	4965.2	5408.4	5834.9	5836.3	5635.9	5931.1	5371.4
60°	4659.6	4686.3	4886.2	5074.9	5518.1	6021.3	6479.9	6466.3	6159.0	6373.8	5840.8
62.5°	4118.9	4179.0	4512.9	5014.8	6050.7	7142.4	7302.7	7286.0	6784.5	6919.5	6387.4
65°	2951.8	3019.9	3423.0	4177.1	5792.5	8377.8	8787.6	8562.8	7637.6	7590.6	7027.4
67.5°	1702.9	1719.2	1893.8	2499.5	4410.5	8442.3	11052.9	10738.3	8962.3	8352.0	7340.6
70°	1259.2	1258.8	1300.3	1538.2	2386.7	6890.2	12130.2	12412.3	10356.9	8602.5	6897.8
71°	1138.7	1140.1	1186.6	1400.1	1890.2	5767.2	11901.4	12518.8	10724.3	8478.9	6577.4
72.5°	974.0	978.5	1043.0	1255.6	1590.1	3977.2	10915.6	11879.7	10898.5	8173.8	6075.9
75°	738.8	749.2	838.6	1058.4	1453.3	2017.0	8011.3	9486.3	9681.7	7212.4	4514.8
77.5°	527.2	538.9	640.0	890.0	1381.6	1520.1	5365.1	6919.5	7124.8	4622.2	2036.4
80°	333.1	347.1	423.4	708.2	1298.1	1443.4	3371.5	4651.1	3885.1	1479.0	518.1
82.5°	195.4	206.3	262.7	462.6	1060.2	1390.1	1983.6	2578.1	1512.0	446.8	235.6
85°	113.3	118.3	163.8	294.7	770.0	1312.0	1457.4	1441.1	656.2	218.4	111.5
87.5°	52.8	58.7	97.0	153.9	427.4	951.0	1151.8	995.2	408.0	102.5	52.4
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°	3590.0	3590.0	3590.0	3590.0	3590.0	3590.0	3590.0	3590.0	3590.0	3590.0	3590.0
2.5°	3558.8	3551.1	3519.1	3490.7	3460.9	3422.1	3379.2	3373.8	3347.6	3352.6	3343.5
5°	3488.4	3469.0	3391.8	3321.9	3239.3	3165.2	3084.9	3047.9	2994.6	2991.0	2977.5
7.5°	3387.8	3351.6	3232.0	3099.3	2966.7	2840.3	2715.3	2633.1	2549.2	2513.5	2510.4
10°	3274.5	3213.1	3037.1	2840.7	2649.4	2464.8	2286.0	2153.8	2034.6	1978.2	1976.0
12.5°	3167.0	3076.3	2834.9	2567.7	2305.9	2066.7	1821.6	1647.8	1498.4	1448.3	1427.1
15°	3075.9	2948.2	2638.1	2296.4	1978.7	1646.5	1367.6	1184.8	1046.7	998.8	989.8
17.5°	2987.4	2823.1	2436.3	2022.5	1638.4	1273.2	993.8	858.0	784.4	765.0	764.6
20°	2899.4	2694.5	2225.6	1742.2	1309.3	952.3	764.1	703.2	678.4	676.1	672.5
22.5°	2799.7	2558.2	2003.9	1461.0	1021.8	748.8	649.5	625.1	621.9	630.1	630.1
25°	2706.2	2422.8	1779.2	1185.7	794.8	624.7	580.0	575.0	583.6	598.0	599.4
27.5°	2619.1	2292.4	1559.8	941.0	636.8	550.2	531.7	537.5	552.9	569.6	570.0
30°	2547.4	2169.1	1346.8	741.6	538.0	494.7	491.5	503.2	519.9	533.0	536.2
32.5°	2491.8	2064.0	1141.0	596.2	473.5	453.1	455.9	465.8	476.2	483.4	488.3
35°	2466.1	1973.7	951.0	502.8	432.4	421.1	424.7	430.1	434.6	440.1	444.1
37.5°	2470.6	1903.8	781.3	444.6	404.9	399.0	399.0	399.0	399.0	401.7	402.1
40°	2512.6	1863.6	643.2	407.6	386.3	380.0	375.1	370.5	366.9	368.7	367.8
42.5°	2620.0	1860.0	542.1	384.1	371.5	361.1	351.1	344.8	340.3	342.1	343.0
45°	2802.4	1905.1	473.9	367.4	357.5	341.7	329.0	322.3	319.1	325.0	325.9
47.5°	3038.4	2003.5	432.4	355.2	344.4	323.6	310.1	303.8	304.7	313.2	315.5
50°	3342.6	2163.3	412.5	347.5	335.3	308.3	294.3	288.9	291.6	303.8	306.5
52.5°	3676.6	2393.5	414.8	345.3	329.5	297.0	282.1	275.8	280.3	291.6	293.8
55°	4062.1	2670.1	452.2	348.4	320.9	289.8	272.2	261.3	264.9	275.3	277.1
57.5°	4490.4	2987.0	527.6	347.5	310.1	283.0	261.8	245.5	248.2	254.6	256.4
60°	4936.3	3369.7	644.5	350.2	305.1	274.9	247.8	227.5	226.6	232.0	232.9
62.5°	5471.6	3812.5	778.1	352.0	308.3	264.5	229.3	209.4	206.7	208.1	209.0
65°	6023.1	4132.9	728.0	344.8	318.2	255.9	213.0	191.8	186.9	186.0	186.4
67.5°	6040.3	3789.4	510.5	330.4	322.3	251.4	200.8	176.9	168.8	165.6	165.2
70°	5417.0	3078.6	397.6	315.0	306.0	244.2	189.6	164.7	152.6	147.6	147.1
71°	5112.8	2834.0	376.9	307.4	293.8	237.0	184.6	159.3	146.7	141.3	140.4
72.5°	4635.7	2540.6	351.6	295.2	270.4	218.4	175.1	151.7	138.6	132.2	130.9
75°	3326.8	1661.4	301.9	263.1	223.9	174.2	153.5	136.3	125.0	117.3	116.4
77.5°	1281.8	661.2	228.4	218.9	171.5	136.3	126.4	117.8	109.7	102.0	101.6
80°	396.3	295.6	166.5	164.7	124.1	101.6	98.4	96.1	93.0	84.9	83.0
82.5°	211.7	169.7	114.6	106.5	81.2	67.7	71.3	72.2	72.7	64.1	63.2
85°	101.1	89.8	64.5	60.5	47.4	37.9	43.8	47.4	47.8	39.3	36.6
87.5°	48.3	46.9	30.2	23.0	17.6	12.6	15.3	19.0	20.8	14.9	13.1
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)