

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: McGRAW-EDISON

Report Number: P647881

Luminaire Tested: **GALN-SA4A-835-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647881  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-835-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 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: 14040 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

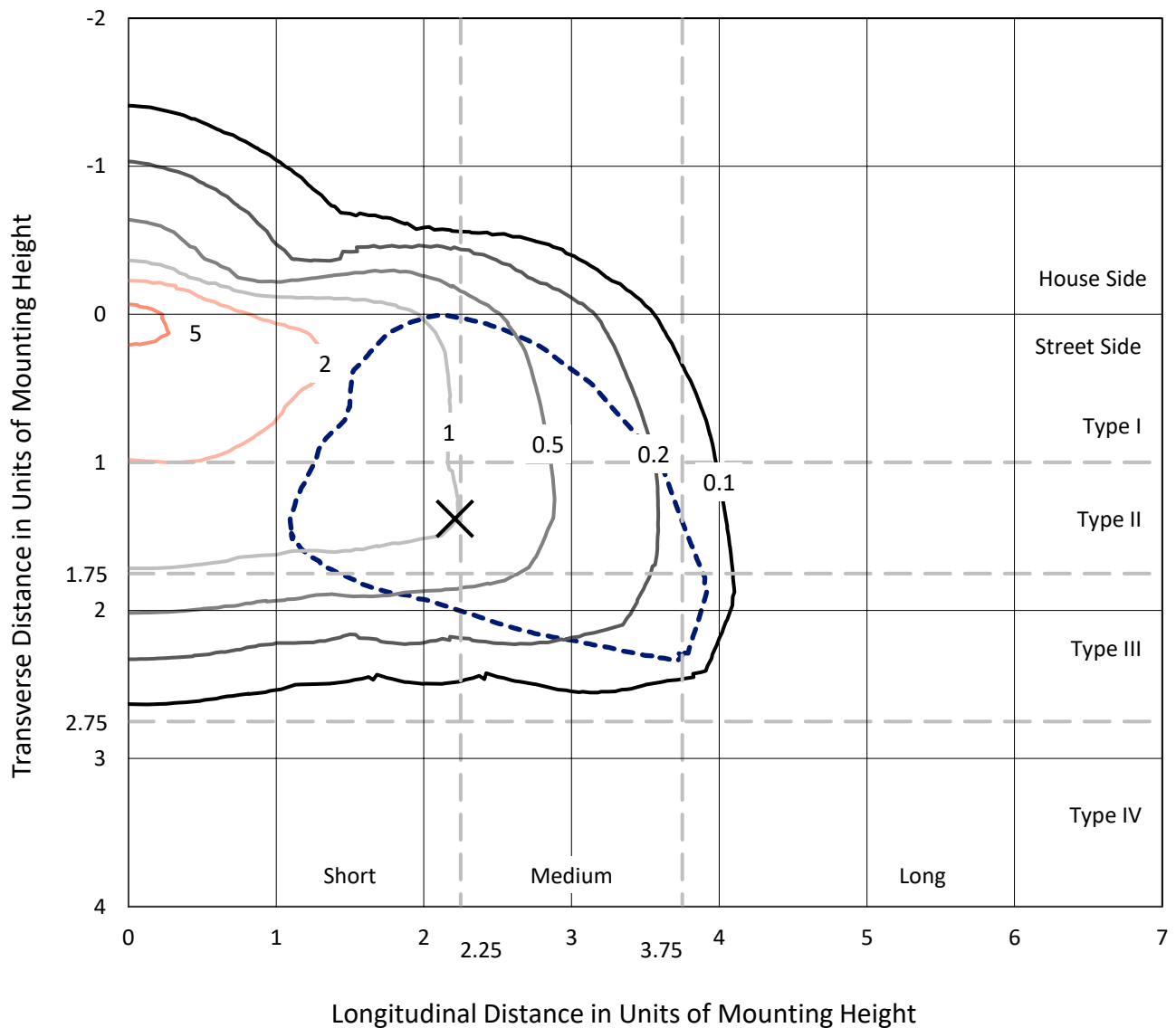
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

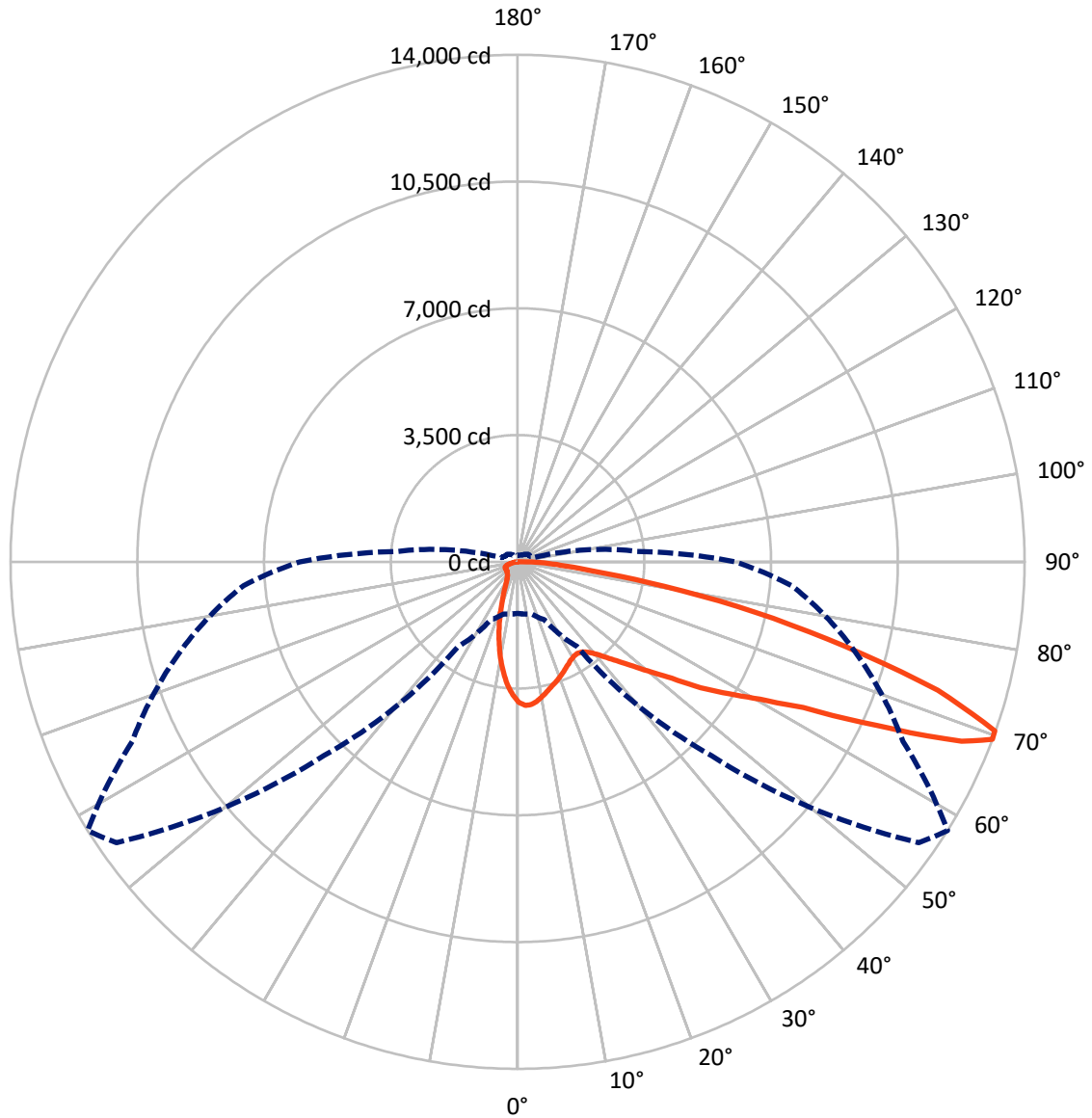
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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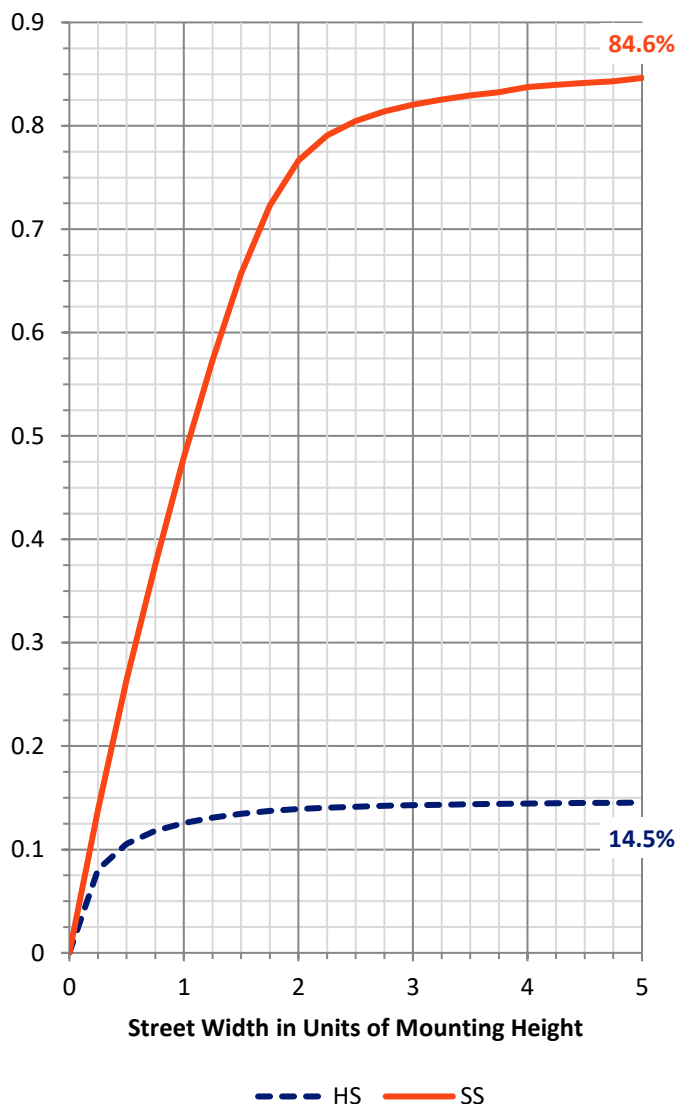
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2057.5	0.0	2057.5
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	11982.4	0.0	11982.4
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	14040.0	0.0	14040.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.5	2.3
10°-20°	723.5	5.2
20°-30°	934.8	6.7
30°-40°	1214.1	8.6
40°-50°	1765.1	12.6
50°-60°	2816.6	20.1
60°-70°	3762.6	26.8
70°-80°	2169.0	15.4
80°-90°	324.9	2.3
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°	14040.0	100.0
0°-180°	14040.0	100.0

**Coefficient of Utilization**



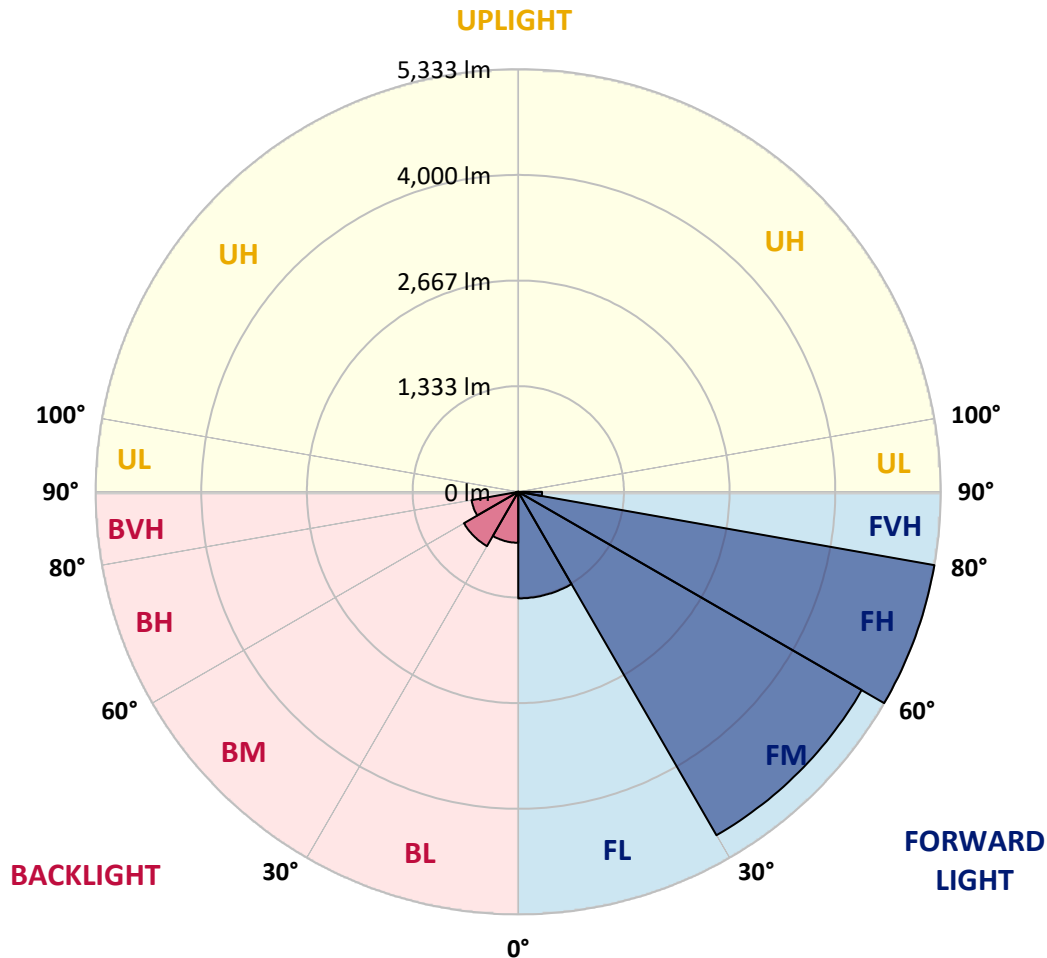
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1344.7	9.6			
FM (30°-60°)	5004.5	35.6			
FH (60°-80°)	5333.2	38.0			G3/7500
FVH (80°-90°)	300.0	2.1			G3/500
BL (0°-30°)	643.1	4.6	B2/1000		
BM (30°-60°)	791.3	5.6	B1/1000		
BH (60°-80°)	598.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	24.9	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8
2.5°	4023.9	4034.9	4031.7	4027.8	4021.6	4004.3	3976.2	3971.5	3953.4	3915.1	3867.3
5°	3962.1	3971.5	3972.2	3977.7	3985.5	3982.4	3962.1	3959.7	3933.1	3881.4	3801.5
7.5°	3749.9	3762.4	3789.8	3820.3	3847.7	3873.6	3879.8	3883.8	3867.3	3807.8	3701.3
10°	3511.1	3523.6	3536.1	3581.5	3648.9	3713.1	3766.3	3773.4	3777.3	3722.5	3592.5
12.5°	3246.4	3272.2	3298.9	3366.2	3456.2	3557.2	3651.2	3666.1	3692.7	3651.2	3498.5
15°	3021.7	3048.3	3086.7	3147.0	3255.8	3401.4	3533.8	3558.0	3610.5	3589.4	3410.8
17.5°	2865.9	2875.3	2901.9	2970.8	3088.2	3241.7	3418.7	3467.2	3551.0	3545.5	3335.7
20°	2742.9	2754.7	2771.1	2813.4	2935.5	3097.6	3311.4	3374.0	3487.6	3506.4	3261.3
22.5°	2691.2	2699.9	2697.5	2720.2	2803.2	2966.1	3202.5	3276.9	3431.2	3479.7	3192.4
25°	2694.4	2702.2	2690.5	2685.0	2734.3	2850.2	3089.0	3183.8	3385.8	3461.7	3129.7
27.5°	2746.8	2752.3	2730.4	2708.5	2712.4	2778.2	2995.1	3100.0	3347.4	3469.6	3077.3
30°	2817.3	2827.5	2813.4	2786.8	2757.8	2760.9	2934.8	3038.1	3329.4	3497.0	3052.2
32.5°	2908.1	2917.5	2911.3	2890.1	2852.5	2811.0	2919.9	3015.4	3331.0	3552.5	3046.7
35°	3003.7	3022.5	3032.6	3031.1	3000.5	2928.5	2978.6	3057.7	3368.5	3645.7	3078.8
37.5°	3111.7	3127.4	3171.2	3199.4	3171.2	3087.4	3110.9	3165.7	3451.5	3780.4	3149.3
40°	3216.6	3240.1	3304.3	3392.0	3381.1	3307.5	3313.0	3349.0	3598.0	3980.9	3287.1
42.5°	3326.3	3354.5	3466.4	3596.4	3622.2	3565.1	3580.0	3612.1	3806.2	4258.8	3523.6
45°	3467.2	3500.9	3638.7	3800.8	3902.6	3867.3	3909.6	3925.3	4085.0	4620.6	3835.2
47.5°	3648.9	3688.0	3857.9	4059.9	4204.0	4236.1	4309.7	4300.3	4430.3	5048.9	4239.2
50°	3955.0	3976.9	4137.5	4343.4	4541.5	4686.3	4766.2	4781.1	4858.6	5465.4	4691.0
52.5°	4319.1	4338.7	4454.6	4634.7	4882.9	5189.8	5387.1	5338.6	5357.4	5972.8	5219.6
55°	4728.6	4761.5	4835.1	4954.9	5276.7	5728.5	6124.7	6136.4	5928.2	6458.3	5726.2
57.5°	5045.7	5101.3	5227.4	5398.1	5806.0	6327.5	6859.9	6867.8	6601.6	6976.6	6285.2
60°	4886.0	4951.8	5239.9	5655.7	6500.5	7372.8	7738.5	7693.9	7256.9	7567.1	6967.2
62.5°	4197.0	4208.7	4627.6	5277.5	6714.3	8771.3	9046.2	8857.5	8131.6	8315.6	7660.2
65°	2716.3	2793.0	3125.0	4035.7	6012.0	9547.3	11337.2	10901.1	9357.8	9165.2	8240.4
67.5°	1714.8	1695.2	1833.0	2304.4	4135.1	8863.7	13292.4	13223.5	10961.4	9701.5	8101.9
69°	1421.9	1443.9	1490.8	1766.4	2845.5	7567.9	13523.4	13999.5	11738.9	9659.2	7598.4
70°	1289.6	1299.8	1349.1	1566.0	2195.5	6338.5	13144.5	13978.4	12044.3	9482.3	7233.4
72.5°	1023.4	1022.6	1107.2	1302.9	1641.2	3618.3	10793.0	12135.9	11702.9	8658.6	5976.7
75°	777.5	790.0	883.2	1102.5	1512.0	1977.1	7531.8	9346.0	9346.8	6838.8	3729.5
77.5°	560.6	568.5	677.3	925.5	1424.3	1602.8	5016.8	6703.3	6301.7	3133.6	1172.2
80°	367.2	371.9	454.9	732.9	1284.1	1512.0	2974.7	4103.0	2972.3	831.5	387.6
82.5°	201.2	224.7	278.0	474.5	1030.4	1396.9	1807.9	2076.5	1115.0	370.4	202.0
85°	101.0	107.3	156.6	277.2	673.4	1155.7	1259.1	1190.9	575.5	184.0	104.9
87.5°	29.8	37.6	65.0	107.3	273.3	602.1	700.8	628.7	221.6	66.6	21.9
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°	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8
2.5°	3847.7	3833.6	3771.0	3714.6	3663.0	3608.1	3561.9	3521.2	3525.1	3525.9	3484.4
5°	3760.0	3727.9	3608.9	3497.7	3403.8	3284.8	3183.0	3117.2	3084.3	3040.5	3056.1
7.5°	3641.0	3579.2	3414.0	3229.2	3056.1	2901.9	2734.3	2619.2	2545.6	2474.4	2483.8
10°	3518.1	3418.7	3178.3	2934.0	2710.0	2463.3	2249.6	2066.3	1930.1	1879.2	1845.5
12.5°	3392.0	3261.3	2955.9	2631.0	2321.6	2026.4	1723.4	1526.9	1376.5	1296.6	1306.8
15°	3276.9	3118.0	2724.1	2327.9	1926.2	1574.6	1272.4	1085.2	980.3	958.4	970.9
17.5°	3170.4	2962.2	2507.2	2033.5	1564.4	1180.8	956.0	850.3	808.1	796.3	795.5
20°	3060.8	2829.8	2263.7	1718.7	1219.1	915.3	784.6	735.2	727.4	732.1	732.9
22.5°	2949.6	2666.2	2013.1	1406.3	970.9	748.5	685.9	672.6	678.9	689.8	691.4
25°	2847.1	2522.1	1771.9	1132.2	775.2	657.7	627.2	627.2	641.3	657.7	658.5
27.5°	2762.5	2382.7	1531.5	898.9	649.1	591.9	581.8	587.2	606.8	619.4	620.1
30°	2692.8	2252.7	1304.5	720.4	570.8	539.5	537.1	546.5	560.6	572.4	573.2
32.5°	2640.4	2138.4	1092.3	605.3	516.8	499.6	498.8	505.8	513.6	516.8	519.9
35°	2620.0	2043.6	898.1	532.4	480.8	469.8	469.8	469.0	472.1	473.7	475.3
37.5°	2636.4	1970.8	747.8	485.5	454.1	446.3	441.6	436.9	435.3	435.3	436.1
40°	2706.1	1932.4	635.8	454.9	435.3	423.6	415.0	409.5	404.0	405.6	407.2
42.5°	2854.1	1939.5	559.8	434.6	418.9	402.5	389.9	383.7	379.8	384.5	383.7
45°	3089.8	2010.0	511.3	420.5	402.5	381.3	369.6	363.3	363.3	370.4	372.7
47.5°	3419.4	2144.6	485.5	409.5	389.9	364.9	353.1	348.4	350.0	361.7	362.5
50°	3821.9	2378.8	480.8	404.0	383.7	353.1	339.8	335.1	339.0	351.6	353.1
52.5°	4265.9	2680.3	503.5	404.8	378.2	346.1	328.9	321.8	325.7	335.9	339.0
55°	4792.0	3057.7	562.2	407.9	370.4	342.2	321.0	305.4	310.1	317.1	317.9
57.5°	5329.2	3533.8	665.6	408.7	364.1	335.1	307.7	287.4	287.4	292.1	294.4
60°	5985.3	4052.1	801.8	409.5	364.9	324.9	289.7	267.0	263.9	266.2	267.0
62.5°	6636.8	4485.9	824.5	407.2	372.7	314.8	270.1	246.6	241.2	240.4	238.8
65°	6924.1	4405.2	675.7	396.2	381.3	308.5	254.5	227.1	217.7	214.5	214.5
67.5°	6455.9	3726.4	508.2	381.3	375.8	302.2	239.6	210.6	199.7	193.4	193.4
69°	6015.9	3314.5	456.5	371.1	361.7	292.1	230.2	202.0	188.7	181.7	179.3
70°	5676.0	3031.1	434.6	362.5	348.4	280.3	223.2	195.8	180.9	173.0	171.5
72.5°	4529.7	2378.0	380.5	329.6	296.8	235.7	198.1	176.2	162.1	153.5	151.1
75°	2610.6	1288.8	315.5	286.6	238.8	183.2	167.6	153.5	142.5	134.7	132.3
77.5°	803.4	498.0	228.6	226.3	175.4	141.7	133.9	128.4	120.6	112.0	110.4
80°	338.3	253.7	155.0	152.7	116.7	98.7	96.3	95.5	92.4	85.3	83.0
82.5°	185.6	143.3	108.1	94.0	70.5	57.2	59.5	60.3	57.9	50.9	46.2
85°	90.8	78.3	52.5	42.3	32.1	20.4	19.6	23.5	21.9	15.7	17.2
87.5°	18.0	21.9	14.1	6.3	3.1	0.0	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)