

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: P522770

Luminaire Tested: **GALN-SA5B-740-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522770  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5B-740-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28517 lumens  
Efficiency: N/A  
Efficacy: 139.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

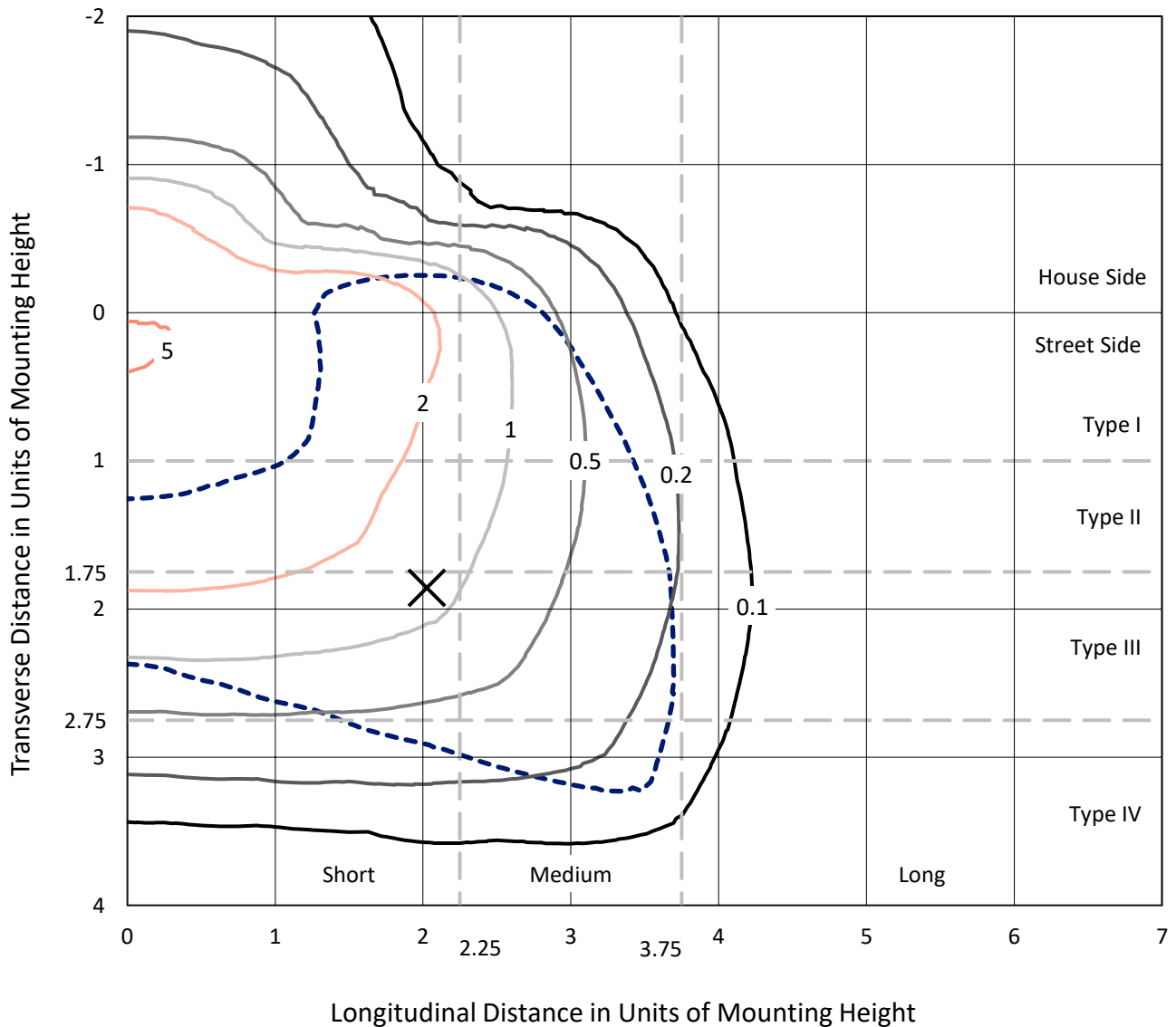
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

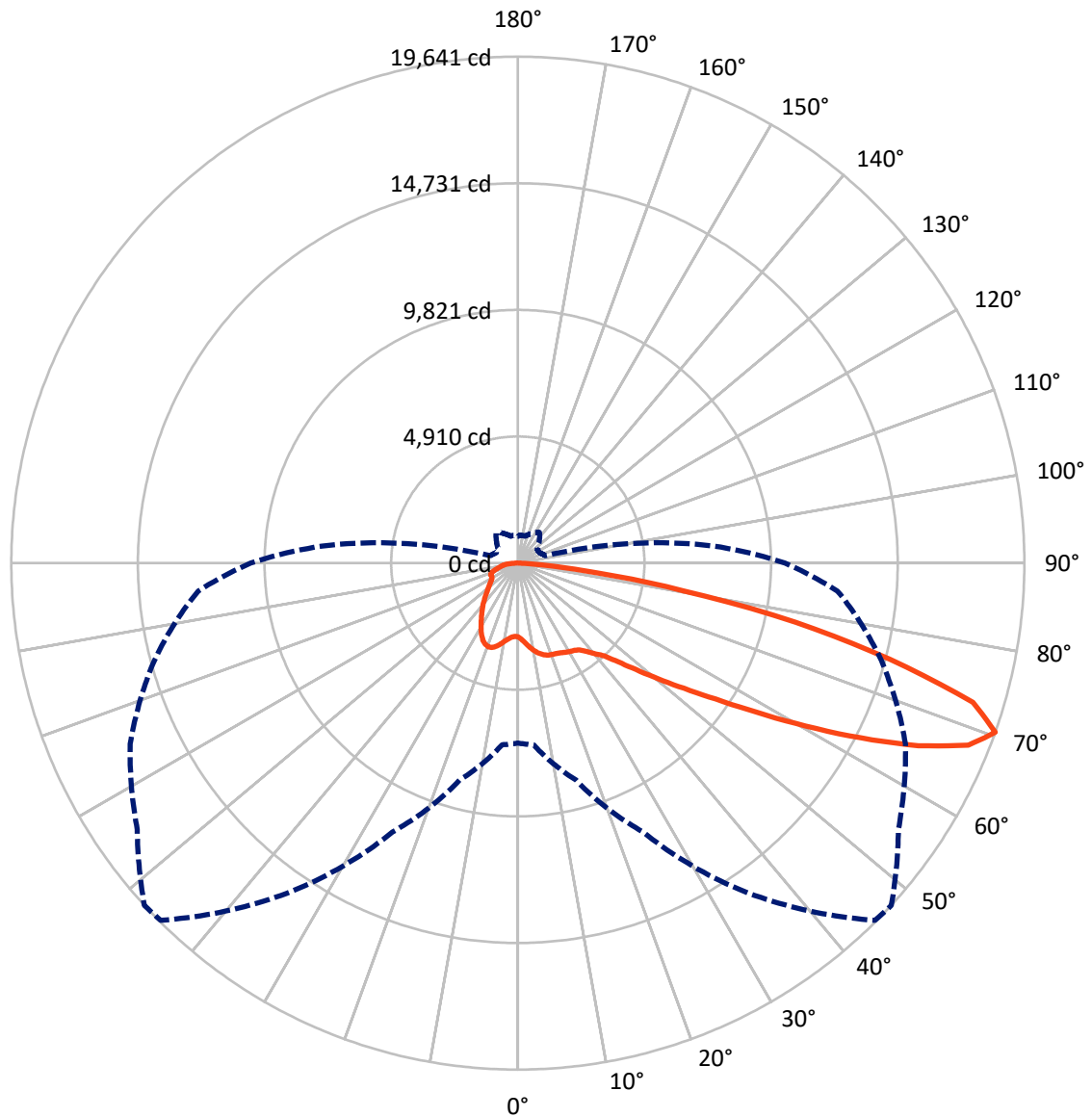
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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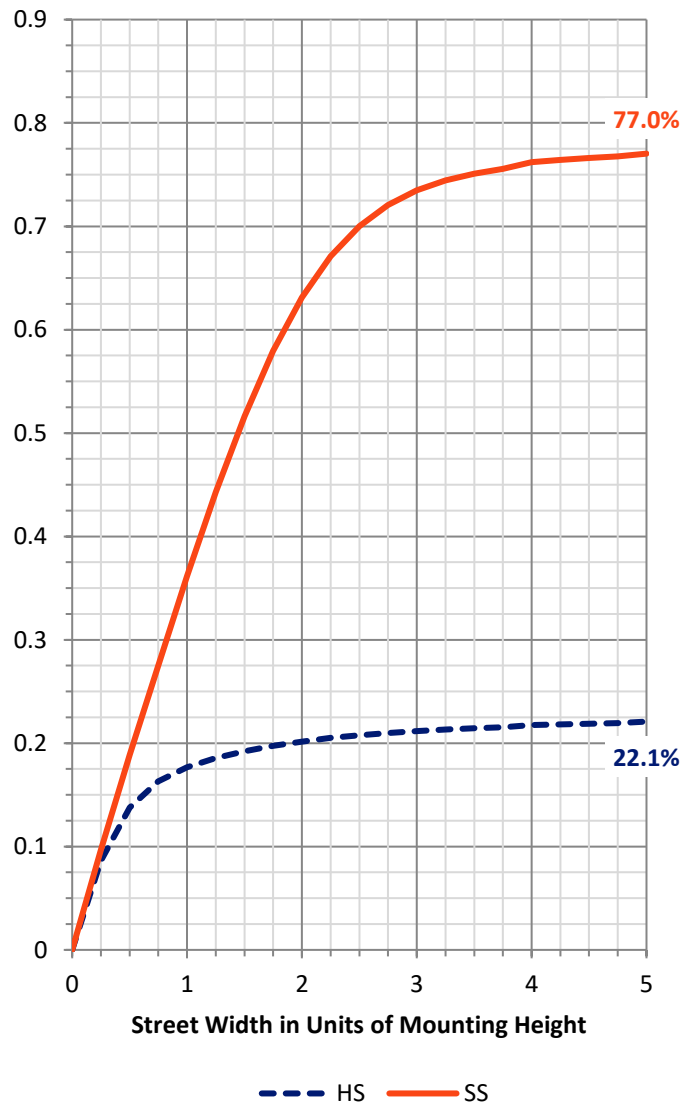
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6456.8	0.0	6456.8
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	22060.2	0.0	22060.2
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	28517.0	0.0	28517.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.1	1.0
10°-20°	986.5	3.5
20°-30°	1640.6	5.8
30°-40°	2325.2	8.2
40°-50°	3432.6	12.0
50°-60°	5945.3	20.8
60°-70°	8398.0	29.4
70°-80°	4827.6	16.9
80°-90°	666.1	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°	28517.0	100.0
0°-180°	28517.0	100.0



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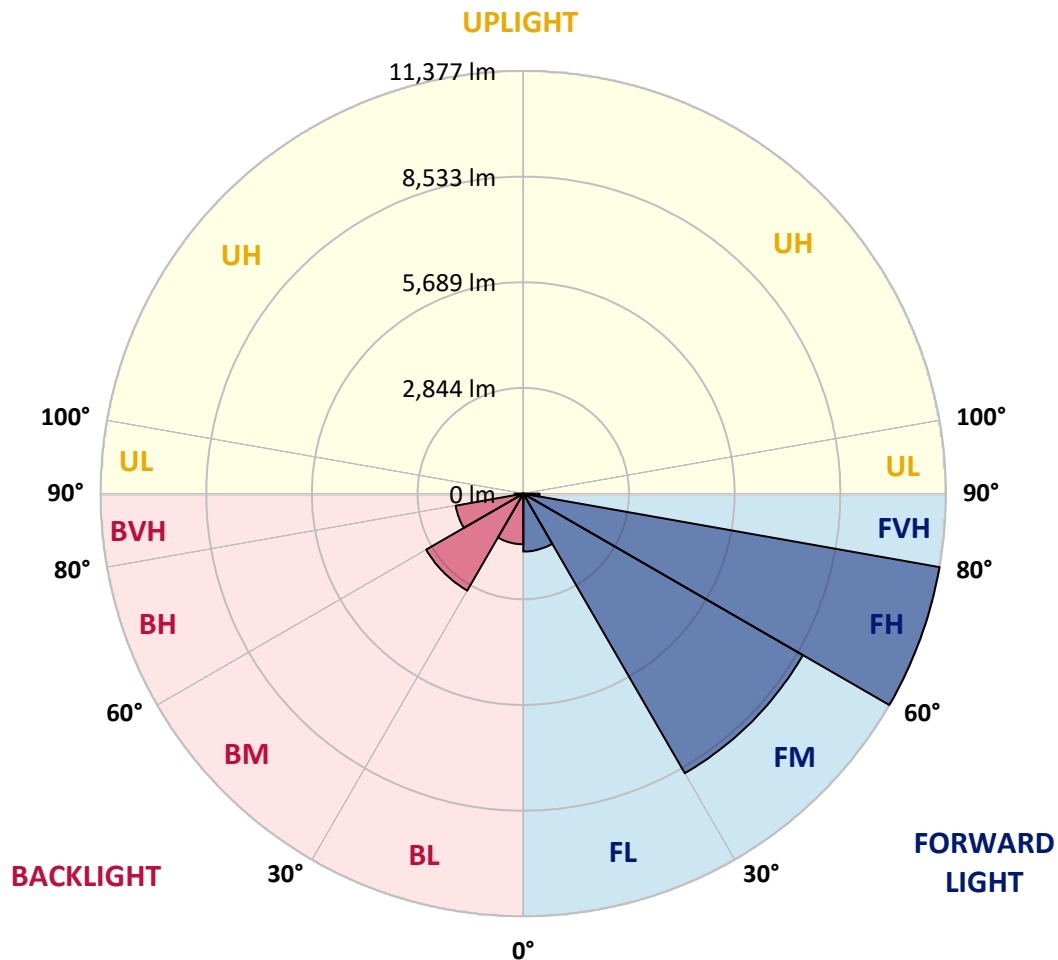
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1559.4	5.5			
FM	(30°-60°)	8688.6	30.5			
FH	(60°-80°)	11377.1	39.9			G4/12000
FVH	(80°-90°)	435.1	1.5			G3/500
BL	(0°-30°)	1362.8	4.8	B3/2500		
BM	(30°-60°)	3014.6	10.6	B3/5000		
BH	(60°-80°)	1848.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	231.0	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8
2.5°	3047.4	3036.7	3035.2	3012.3	3000.1	2977.2	2968.1	2946.7	2920.8	2894.8	2870.4
5°	3287.0	3287.0	3276.3	3244.3	3193.9	3142.0	3119.1	3077.9	3004.7	2945.2	2894.8
7.5°	3532.7	3535.7	3514.4	3467.1	3395.3	3311.4	3290.0	3229.0	3125.2	3038.3	2963.5
10°	3744.8	3744.8	3715.8	3651.7	3561.7	3470.1	3448.7	3380.1	3264.1	3155.8	3058.1
12.5°	3906.5	3906.5	3868.4	3784.5	3686.8	3604.4	3580.0	3514.4	3406.0	3285.5	3161.9
15°	4011.8	4004.2	3961.5	3866.9	3772.3	3700.5	3683.7	3628.8	3529.6	3407.5	3268.7
17.5°	4016.4	4013.4	3972.2	3892.8	3810.4	3761.6	3750.9	3714.3	3636.4	3520.5	3374.0
20°	3927.9	3934.0	3906.5	3850.1	3810.4	3789.0	3784.5	3772.3	3717.3	3609.0	3462.5
22.5°	3833.3	3844.0	3818.0	3787.5	3784.5	3805.8	3808.9	3811.9	3776.8	3671.5	3537.3
25°	3810.4	3818.0	3792.1	3764.6	3781.4	3837.9	3850.1	3862.3	3834.8	3746.3	3625.8
27.5°	3926.4	3920.3	3869.9	3810.4	3821.1	3897.4	3914.2	3927.9	3914.2	3837.9	3735.6
30°	4254.5	4234.6	4133.9	3960.0	3905.0	3958.4	3975.2	4013.4	4013.4	3956.9	3854.7
32.5°	4803.8	4765.7	4581.0	4239.2	4048.5	4016.4	4033.2	4095.8	4127.8	4083.6	3972.2
35°	5470.7	5431.0	5167.0	4707.7	4310.9	4132.4	4127.8	4198.0	4283.5	4184.3	4039.3
37.5°	6140.6	6099.4	5782.0	5266.2	4694.0	4376.5	4349.1	4373.5	4410.1	4228.5	4132.4
40°	6810.5	6761.7	6483.9	5890.3	5162.4	4700.1	4628.3	4518.5	4503.2	4373.5	4312.5
42.5°	7474.3	7430.1	7289.7	6590.8	5724.0	5015.9	4906.1	4716.8	4774.8	4697.0	4643.6
45°	8144.2	8147.3	7997.7	7376.7	6401.5	5598.9	5450.8	5154.8	5292.1	5263.2	5293.7
47.5°	8737.8	8730.2	8676.8	8139.6	7242.4	6349.7	6158.9	5815.6	6050.6	6157.4	6390.9
50°	9313.1	9308.6	9311.6	9004.9	8219.0	7242.4	7031.8	6671.6	7201.2	7572.0	7990.1
52.5°	10137.2	10163.1	9978.5	9897.6	9406.2	8296.8	8064.9	7692.5	8560.8	9145.3	9961.7
55°	10964.3	10942.9	10797.9	10881.9	10648.4	9545.1	9302.5	9006.4	10074.6	10714.0	11940.9
57.5°	11451.1	11458.7	11606.7	12017.2	12182.0	11101.6	10881.9	10653.0	11776.1	12229.3	13701.9
60°	11889.0	11924.1	12349.9	13125.1	13572.2	13013.7	12818.3	12595.5	13337.2	13517.2	15230.9
62.5°	12026.4	12134.7	12877.9	14037.6	14927.3	15171.4	14928.8	14437.4	14823.5	14753.3	16267.1
65°	11341.2	11489.2	12821.4	14379.4	16137.4	17219.3	17065.2	16152.6	16090.1	15667.4	16436.5
67.5°	9537.5	9685.5	11396.1	13662.2	16637.9	18992.5	18838.4	17404.0	16859.2	15752.8	15154.6
70°	6978.4	7071.5	8707.3	11502.9	15632.3	19587.7	19641.1	18014.4	16584.5	14591.5	12443.0
72.5°	4021.0	4227.0	5373.0	8092.3	12771.0	18083.0	18453.8	16744.7	14847.9	12172.8	8699.7
75°	1729.0	1733.5	2484.3	4463.5	8649.3	14535.1	14893.7	13880.4	11660.1	8417.4	4645.1
77.5°	822.5	837.8	1092.6	1992.9	4761.1	10042.6	11010.0	9806.0	7457.5	4043.9	1754.9
80°	534.1	544.8	668.4	988.8	2334.8	5823.2	6497.7	5656.9	3290.0	1445.1	756.9
82.5°	323.5	326.6	447.1	604.3	1284.9	2636.9	3108.4	2455.3	1403.9	865.2	445.6
85°	196.9	198.4	271.6	373.9	779.8	911.0	935.4	927.8	824.0	566.1	238.1
87.5°	94.6	97.7	140.4	177.0	306.7	282.3	267.0	309.8	389.1	305.2	102.2
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°	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8
2.5°	2859.7	2855.1	2844.5	2839.9	2836.8	2838.3	2836.8	2836.8	2838.3	2838.3	2838.3
5°	2873.4	2865.8	2849.0	2849.0	2858.2	2879.5	2899.4	2914.6	2931.4	2929.9	2929.9
7.5°	2933.0	2919.2	2899.4	2905.5	2928.4	2962.0	2997.1	3030.6	3064.2	3067.2	3065.7
10°	3019.9	3006.2	2984.8	2992.5	3029.1	3079.5	3123.7	3172.5	3209.2	3219.8	3216.8
12.5°	3119.1	3091.7	3073.4	3094.7	3152.7	3219.8	3262.6	3299.2	3325.1	3340.4	3334.3
15°	3219.8	3193.9	3172.5	3216.8	3287.0	3349.6	3370.9	3377.0	3381.6	3396.9	3393.8
17.5°	3317.5	3282.4	3274.8	3332.8	3399.9	3427.4	3415.2	3389.2	3369.4	3381.6	3380.1
20°	3404.5	3377.0	3374.0	3432.0	3457.9	3432.0	3380.1	3334.3	3299.2	3302.2	3300.7
22.5°	3486.9	3465.5	3468.6	3493.0	3451.8	3363.3	3277.8	3215.3	3177.1	3184.7	3189.3
25°	3578.5	3557.1	3564.7	3525.0	3389.2	3235.1	3111.5	3058.1	3042.8	3058.1	3068.8
27.5°	3697.5	3683.7	3679.2	3526.6	3277.8	3045.9	2905.5	2885.7	2899.4	2933.0	2949.7
30°	3825.7	3825.7	3801.2	3500.6	3125.2	2818.5	2696.4	2699.5	2746.8	2794.1	2810.9
32.5°	3949.3	3975.2	3898.9	3430.4	2928.4	2597.2	2504.2	2507.2	2548.4	2606.4	2621.7
35°	4051.5	4126.3	3982.8	3302.2	2696.4	2411.1	2340.9	2299.7	2301.2	2345.5	2357.7
37.5°	4191.9	4330.8	4031.7	3111.5	2449.2	2252.4	2173.0	2101.3	2054.0	2035.7	2035.7
40°	4436.1	4640.5	4043.9	2829.2	2215.7	2101.3	1988.4	1902.9	1811.4	1729.0	1713.7
42.5°	4849.6	5107.5	4019.5	2504.2	2005.2	1935.0	1825.1	1719.8	1593.1	1477.2	1468.0
45°	5582.1	5714.8	3953.8	2166.9	1817.5	1774.7	1667.9	1553.5	1419.2	1315.4	1307.8
47.5°	6755.6	6567.9	3866.9	1867.8	1646.5	1634.3	1551.9	1419.2	1284.9	1213.2	1205.5
50°	8469.3	7910.7	3854.7	1651.1	1509.2	1515.3	1448.2	1326.1	1208.6	1149.1	1139.9
52.5°	10532.4	9532.9	3935.5	1498.5	1388.7	1411.5	1378.0	1265.0	1161.3	1110.9	1101.8
55°	12534.5	10991.7	3984.4	1379.5	1275.7	1318.5	1323.0	1228.4	1133.8	1083.5	1077.4
57.5°	14159.7	12090.4	3767.7	1271.2	1178.1	1243.7	1277.3	1207.1	1120.1	1081.9	1075.8
60°	15290.5	12609.3	3151.2	1175.0	1106.3	1184.2	1260.5	1208.6	1153.7	1158.2	1161.3
62.5°	15650.6	12378.9	2363.8	1103.3	1057.5	1164.3	1287.9	1271.2	1214.7	1249.8	1255.9
65°	15053.9	11426.6	1713.7	1046.8	1014.8	1178.1	1370.3	1316.9	1193.3	1219.3	1219.3
67.5°	13056.4	9844.2	1333.7	994.9	966.0	1204.0	1452.7	1312.4	1143.0	1173.5	1146.0
70°	10356.9	7614.7	1110.9	937.0	914.1	1165.9	1460.4	1265.0	1083.5	1089.6	1037.7
72.5°	6873.1	5006.8	955.3	882.0	834.7	1048.4	1397.8	1204.0	1025.5	990.4	938.5
75°	3367.9	2496.5	833.2	813.4	731.0	912.5	1312.4	1146.0	962.9	908.0	879.0
77.5°	1304.7	1062.1	711.1	726.4	636.3	804.2	1199.4	1063.6	880.5	805.7	782.8
80°	633.3	602.8	582.9	605.8	523.4	685.2	1095.7	991.9	804.2	721.8	688.2
82.5°	393.7	372.3	447.1	471.5	402.9	625.7	1039.2	930.9	708.1	598.2	570.7
85°	199.9	213.6	299.1	322.0	288.4	497.5	856.1	698.9	511.2	424.2	427.3
87.5°	76.3	102.2	157.2	169.4	154.1	262.5	471.5	407.4	328.1	222.8	206.0
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)