

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: P648673

Luminaire Tested: **GALN-SA9B-835-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648673  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-835-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29654.6 lumens  
Efficiency: N/A  
Efficacy: 81.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

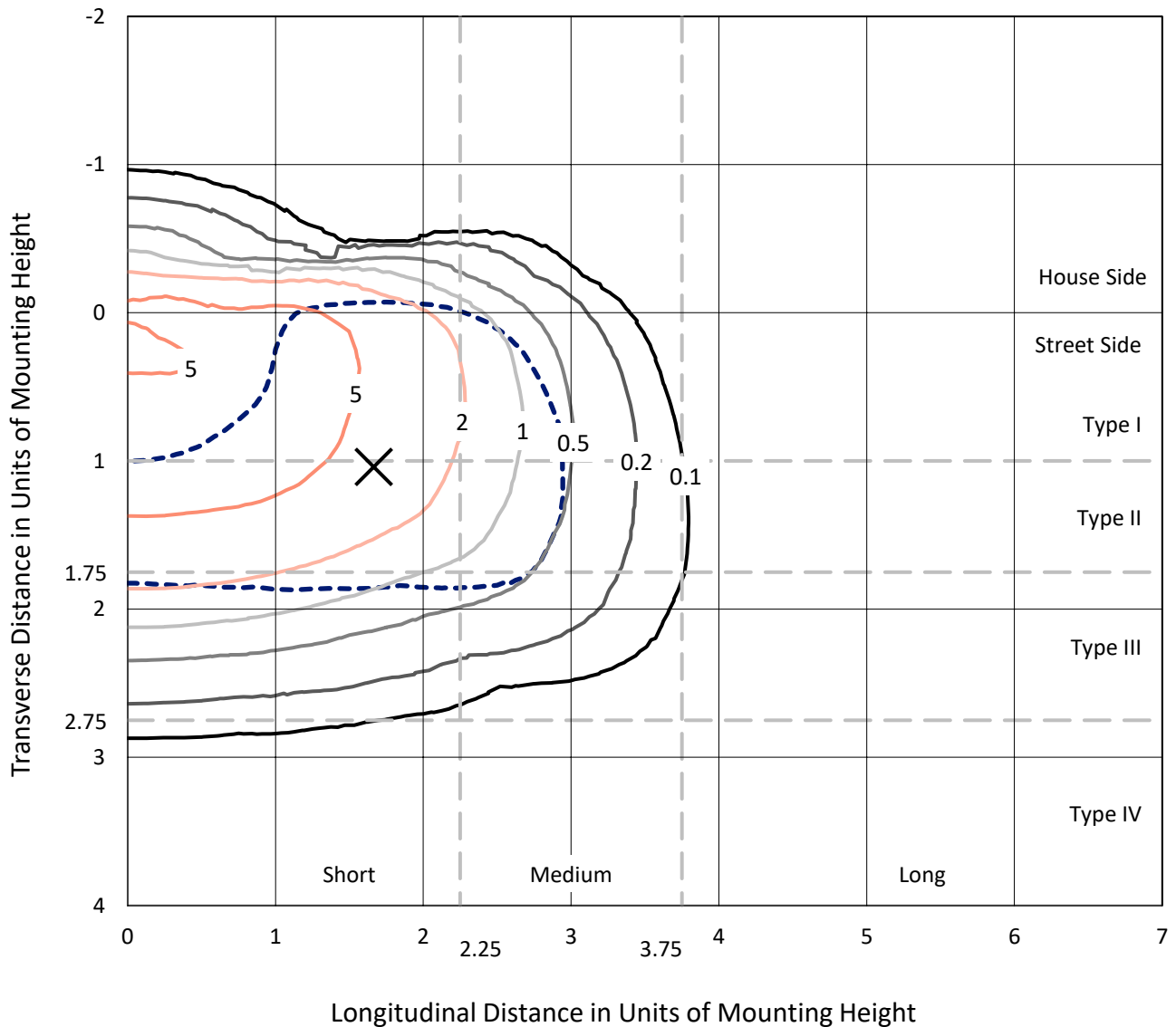
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

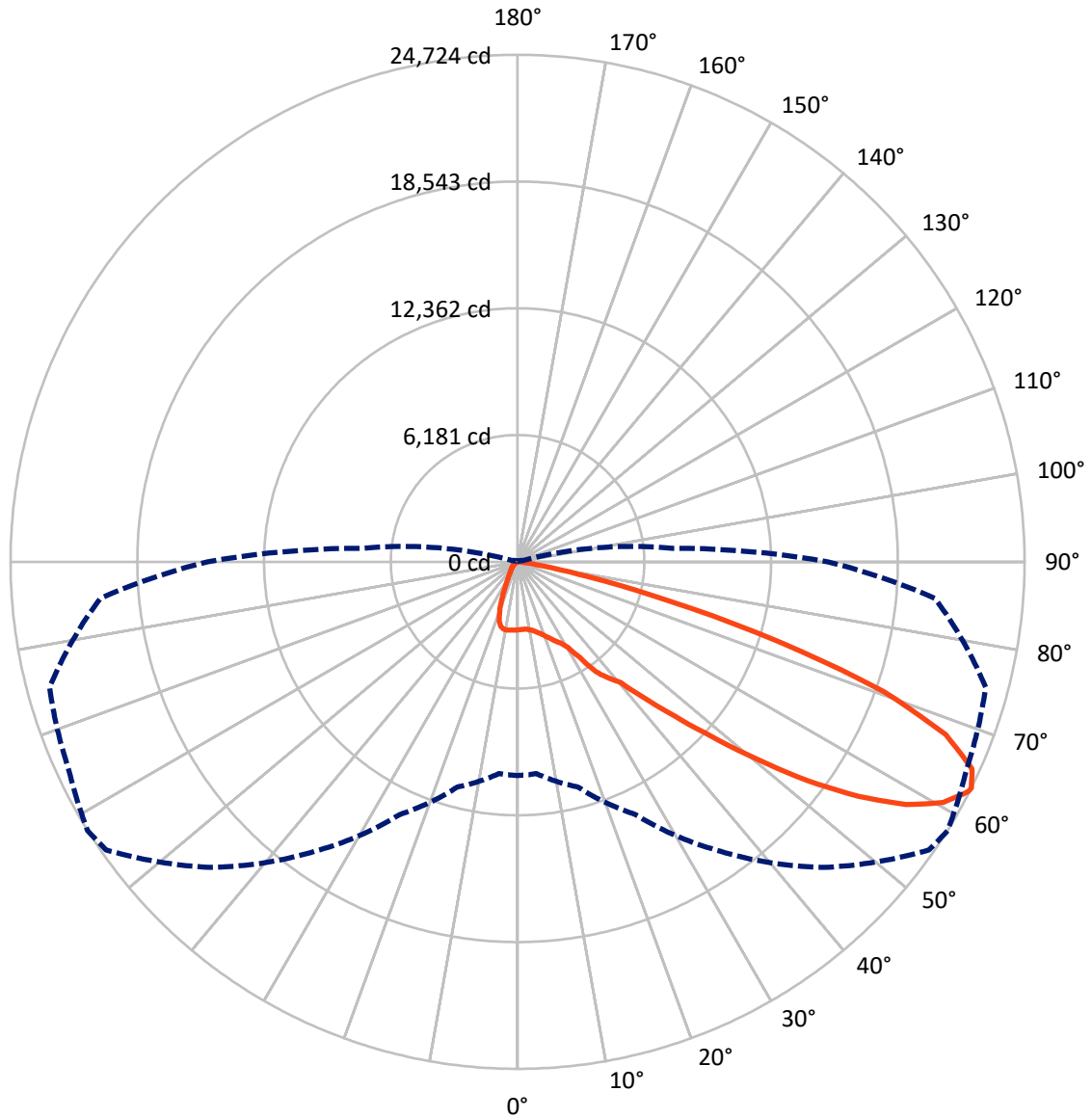
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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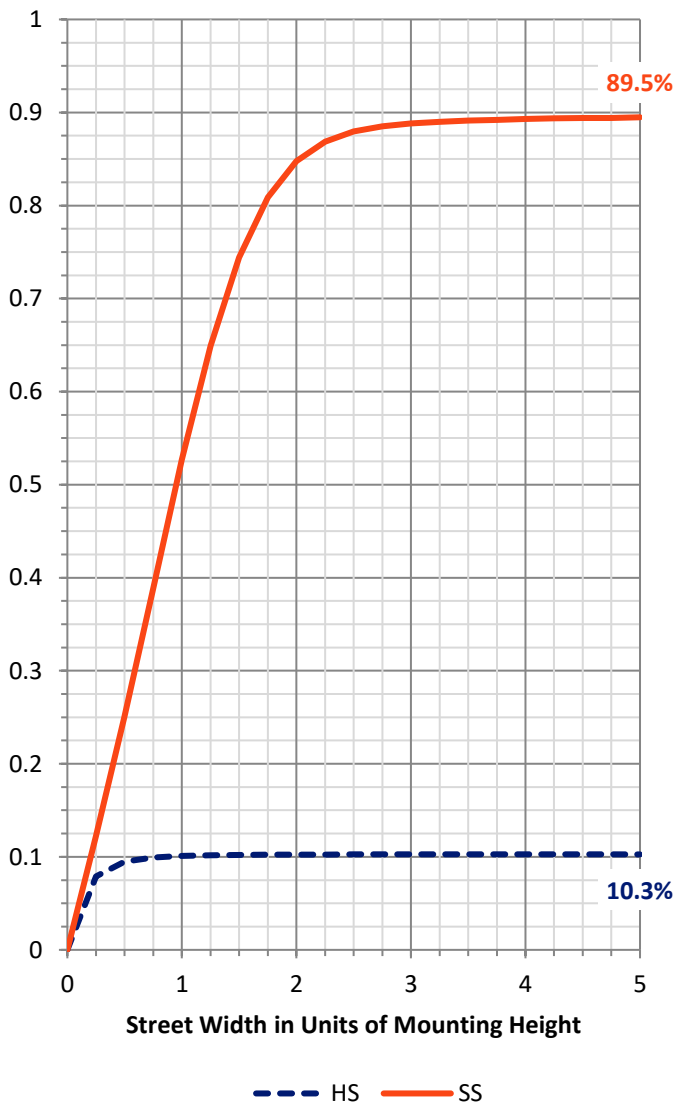
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3070.5	0.0	3070.5
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	26584.0	0.0	26584.0
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	29654.6	0.0	29654.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.8	1.0
10°-20°	846.5	2.9
20°-30°	1469.1	5.0
30°-40°	2699.7	9.1
40°-50°	5082.1	17.1
50°-60°	8692.5	29.3
60°-70°	8323.0	28.1
70°-80°	2122.4	7.2
80°-90°	108.5	0.4
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°	29654.6	100.0
0°-180°	29654.6	100.0



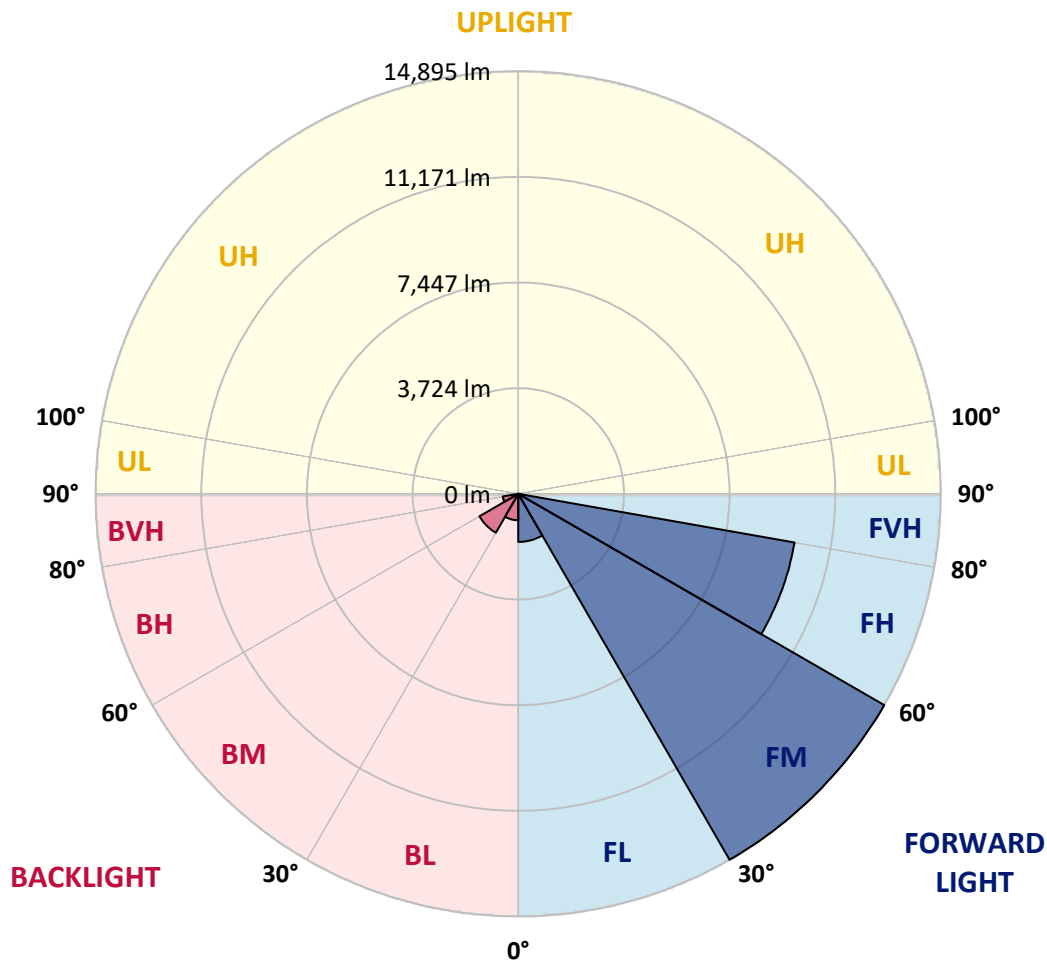
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1695.2	5.7			
FM (30°-60°)	14894.9	50.2			
FH (60°-80°)	9889.6	33.3			G4/12000
FVH (80°-90°)	104.3	0.4			G2/225
BL (0°-30°)	931.2	3.1	B2/1000		
BM (30°-60°)	1579.3	5.3	B2/2500		
BH (60°-80°)	555.8	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9
2.5°	3237.3	3248.5	3259.6	3264.1	3279.8	3295.4	3306.5	3304.3	3322.2	3331.1	3331.1
5°	3107.8	3107.8	3136.9	3163.6	3208.3	3253.0	3295.4	3304.3	3337.8	3369.1	3380.2
7.5°	2998.4	3005.2	3027.5	3076.6	3136.9	3215.0	3299.9	3319.9	3378.0	3447.2	3476.2
10°	2947.1	2951.5	2980.6	3031.9	3107.8	3215.0	3333.3	3371.3	3460.6	3570.0	3610.2
12.5°	2935.9	2942.6	2971.6	3029.7	3116.8	3246.2	3407.0	3447.2	3576.7	3717.4	3777.7
15°	2956.1	2960.5	2989.5	3052.1	3148.1	3302.1	3505.3	3561.1	3715.1	3878.1	3956.3
17.5°	3027.5	3023.0	3043.1	3094.4	3201.6	3371.3	3623.6	3690.6	3871.4	4094.7	4146.0
20°	3331.1	3302.1	3284.2	3239.6	3282.0	3469.6	3766.5	3864.7	4088.0	4315.7	4351.4
22.5°	3985.2	3920.6	3793.2	3619.1	3485.1	3603.5	3938.4	4052.3	4340.2	4563.6	4563.6
25°	4818.0	4735.4	4608.2	4228.6	3900.4	3824.5	4132.6	4275.5	4614.8	4840.3	4766.7
27.5°	5860.7	5795.9	5548.1	5106.0	4603.7	4210.7	4358.1	4489.9	4858.2	5130.6	4976.6
30°	6709.1	6677.8	6474.7	6079.5	5525.8	4952.0	4777.9	4864.9	5182.0	5496.7	5338.3
32.5°	7425.7	7425.7	7218.2	6849.8	6331.8	5822.7	5490.1	5552.6	5856.2	6220.2	5925.4
35°	8213.9	8187.1	8019.6	7669.2	7088.7	6639.9	6503.7	6588.6	6863.2	7133.3	6407.7
37.5°	9042.2	9033.3	8859.1	8519.7	8046.4	7481.6	7162.3	7184.7	7325.3	7490.5	6972.5
40°	9942.0	9955.4	9727.6	9517.8	9071.2	8493.0	7881.2	7740.6	7872.3	8339.0	8015.2
42.5°	11004.7	10973.4	10875.2	10589.4	10230.0	9883.9	9149.4	9098.0	9214.1	9714.2	9363.7
45°	12239.4	12284.0	12114.3	11955.8	11714.7	11426.7	10812.7	10723.4	10850.7	11627.6	11129.7
47.5°	13476.2	13433.9	13543.2	13514.2	13643.7	13429.4	12886.8	12703.8	13009.6	13746.4	13014.1
50°	14418.4	14465.3	14693.1	15025.7	15581.6	15702.2	15182.0	15119.5	15255.7	15729.0	14699.7
52.5°	15030.2	15186.4	15543.6	16398.8	17401.2	18180.4	17785.2	17751.8	17696.0	17823.2	16311.7
55°	15429.8	15588.4	16054.9	17314.2	19040.0	20305.9	20326.0	20183.1	19814.8	19723.2	17818.7
57.5°	15184.2	15215.5	15880.8	17564.2	19948.6	21821.9	22478.3	22335.4	21654.4	21308.3	19149.4
60°	13648.2	13712.9	14639.4	16617.6	19553.5	22317.5	23904.9	23840.2	23094.5	22703.8	20185.3
62.5°	10926.5	11114.1	12067.4	14273.3	17716.0	21482.5	24483.2	24666.2	24085.8	23547.7	20511.3
63°	10426.4	10366.1	11373.1	13590.1	17229.3	21069.4	24492.1	24724.3	24130.4	23628.0	20422.0
65°	7718.3	7899.1	8553.3	10716.7	14338.1	19147.2	23940.6	24351.5	23965.2	23273.1	19433.0
67.5°	4333.6	4324.7	5048.0	7012.7	10035.7	15019.0	21647.8	22516.2	22435.8	20884.2	16108.5
70°	2121.0	2154.5	2451.4	3634.8	5820.5	10361.7	17988.4	18926.1	18955.2	16403.2	11138.6
72.5°	960.0	975.7	1187.7	1770.5	2991.8	5516.9	12395.7	13291.0	13125.7	10453.2	6150.9
75°	506.8	540.3	654.2	890.8	1442.3	2275.1	6742.6	7608.9	7262.8	4775.6	2263.9
77.5°	375.1	386.3	444.3	567.1	772.5	886.4	2909.2	3460.6	3241.8	1728.1	750.2
80°	274.6	283.5	330.4	401.9	486.7	451.0	1096.2	1256.9	1127.5	587.2	230.0
82.5°	167.5	169.7	241.2	299.2	305.8	252.3	361.7	388.4	406.4	330.4	125.0
85°	60.3	75.9	163.0	216.6	180.9	127.2	151.8	167.5	183.1	209.8	73.7
87.5°	6.7	8.9	78.1	104.9	51.4	46.9	55.8	62.5	66.9	78.1	35.7
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°	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9
2.5°	3340.0	3349.0	3342.2	3331.1	3328.8	3322.2	3308.8	3308.8	3308.8	3313.3	3308.8
5°	3389.1	3395.9	3380.2	3357.9	3333.3	3302.1	3268.6	3248.5	3246.2	3241.8	3230.7
7.5°	3482.9	3491.9	3456.2	3402.5	3335.6	3259.6	3188.2	3121.3	3090.0	3065.4	3065.4
10°	3619.1	3628.0	3556.6	3460.6	3326.7	3172.6	3002.9	2848.9	2728.3	2672.5	2659.1
12.5°	3782.1	3786.6	3668.2	3500.8	3279.8	2982.8	2621.1	2284.0	2049.6	1942.4	1931.3
15°	3960.7	3929.5	3773.2	3516.5	3145.8	2592.1	1967.0	1553.9	1310.6	1239.1	1265.9
17.5°	4141.5	4083.5	3853.5	3491.9	2844.4	1967.0	1321.7	1060.5	984.6	964.5	964.5
20°	4311.2	4230.9	3911.6	3384.7	2322.0	1355.2	980.2	917.6	904.2	890.8	893.1
22.5°	4481.0	4358.1	3962.9	3145.8	1730.3	969.0	877.4	857.3	839.5	821.6	819.4
25°	4646.2	4476.5	3983.0	2703.7	1178.8	832.8	801.6	774.7	739.0	719.0	714.4
27.5°	4818.0	4619.3	3969.7	2145.6	859.6	745.7	714.4	676.5	634.1	598.4	598.4
30°	5148.5	4891.7	3922.8	1542.7	723.4	656.4	616.2	555.9	509.0	473.3	471.1
32.5°	5599.5	5246.7	3762.0	1085.1	643.0	578.2	518.0	451.0	401.9	375.1	375.1
35°	6001.4	5603.9	3460.6	799.3	578.2	502.4	428.7	363.9	326.0	308.1	301.4
37.5°	6613.1	6126.3	3045.3	649.7	515.8	435.3	359.5	299.2	267.9	254.6	254.6
40°	7530.7	6764.9	2536.3	569.3	455.5	370.6	299.2	252.3	227.7	212.1	212.1
42.5°	8669.4	7546.3	2020.5	511.3	399.6	319.2	250.1	214.3	192.0	180.9	178.6
45°	10102.7	8370.2	1556.1	457.7	355.0	272.4	212.1	180.9	158.5	151.8	154.0
47.5°	11598.6	9095.8	1205.7	410.8	308.1	230.0	180.9	156.3	140.6	131.7	131.7
50°	12875.7	9595.9	915.4	357.2	272.4	194.3	158.5	140.6	127.2	122.8	120.6
52.5°	13942.9	9741.0	701.0	310.3	238.9	167.5	140.6	127.2	116.1	109.4	109.4
55°	14851.6	9613.8	549.2	261.2	200.9	145.1	125.0	113.8	100.5	93.8	91.5
57.5°	15382.9	9205.2	419.8	216.6	163.0	120.6	109.4	96.0	80.4	69.2	69.2
60°	15650.8	8611.3	321.5	178.6	125.0	96.0	89.3	71.4	55.8	46.9	44.6
62.5°	15329.3	7823.2	243.4	140.6	93.8	71.4	60.3	51.4	35.7	26.8	26.8
63°	15130.6	7595.5	234.4	134.0	87.1	66.9	55.8	46.9	31.2	24.6	22.3
65°	13793.2	6601.9	192.0	107.2	69.2	46.9	38.0	33.5	22.3	11.2	8.9
67.5°	10953.4	5050.3	151.8	80.4	49.1	33.5	22.3	20.1	6.7	0.0	0.0
70°	7405.7	3261.9	118.3	58.0	33.5	20.1	11.2	8.9	2.3	0.0	0.0
72.5°	3862.5	1672.3	91.5	42.4	20.1	13.4	6.7	2.3	0.0	0.0	0.0
75°	1366.4	569.3	66.9	26.8	13.4	6.7	2.3	0.0	0.0	0.0	0.0
77.5°	413.0	212.1	42.4	20.1	8.9	4.5	0.0	0.0	0.0	0.0	0.0
80°	145.1	78.1	24.6	13.4	6.7	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	71.4	38.0	15.7	11.2	6.7	2.3	0.0	0.0	0.0	0.0	0.0
85°	40.2	24.6	13.4	11.2	6.7	4.5	0.0	0.0	0.0	0.0	0.0
87.5°	29.0	17.9	13.4	11.2	8.9	4.5	2.3	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)