

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: P651038

Luminaire Tested: **GALN-SA7C-840-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651038  
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-SA7C-840-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1050mA 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: 30235.6 lumens  
Efficiency: N/A  
Efficacy: 80.2 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

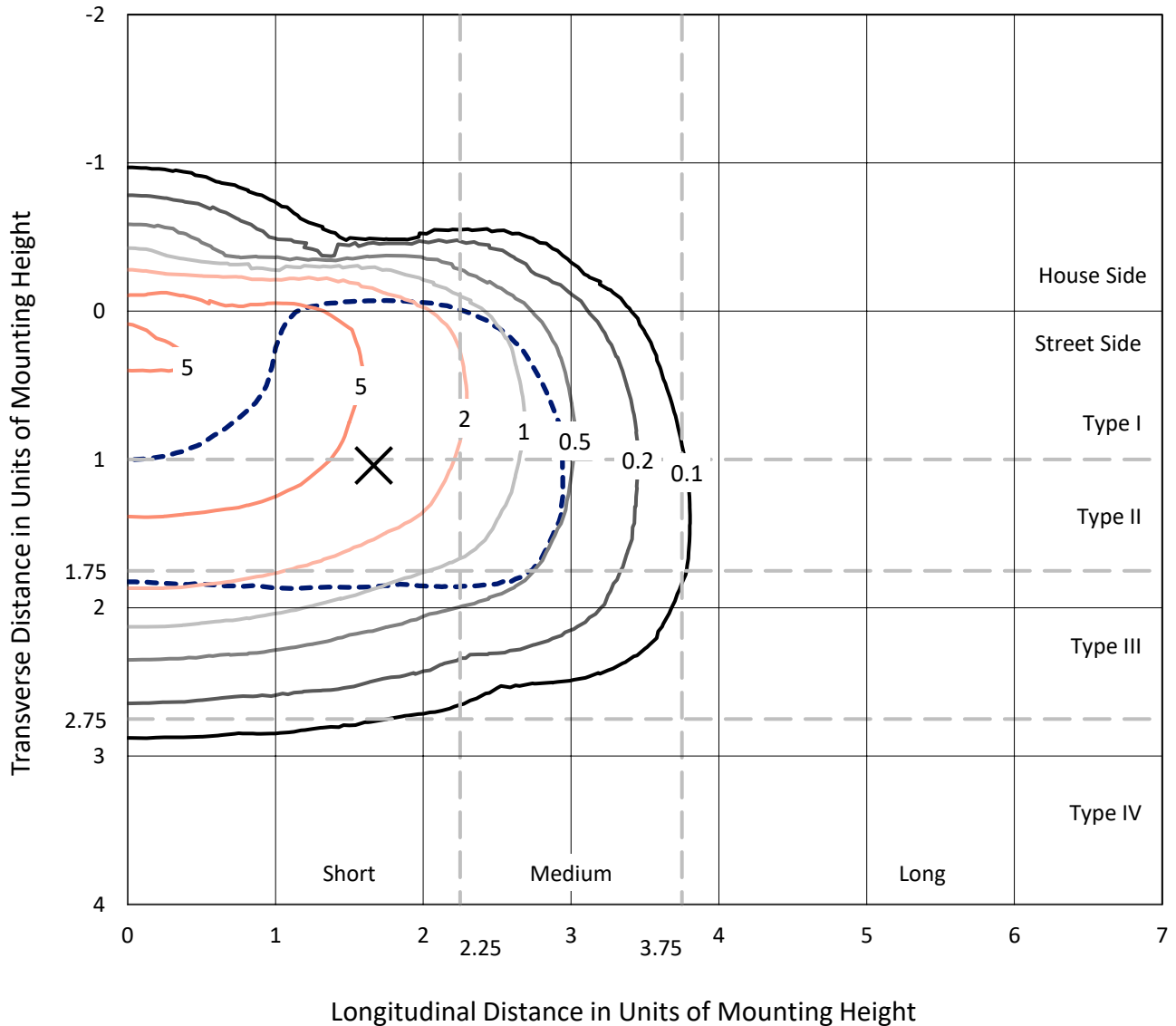
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

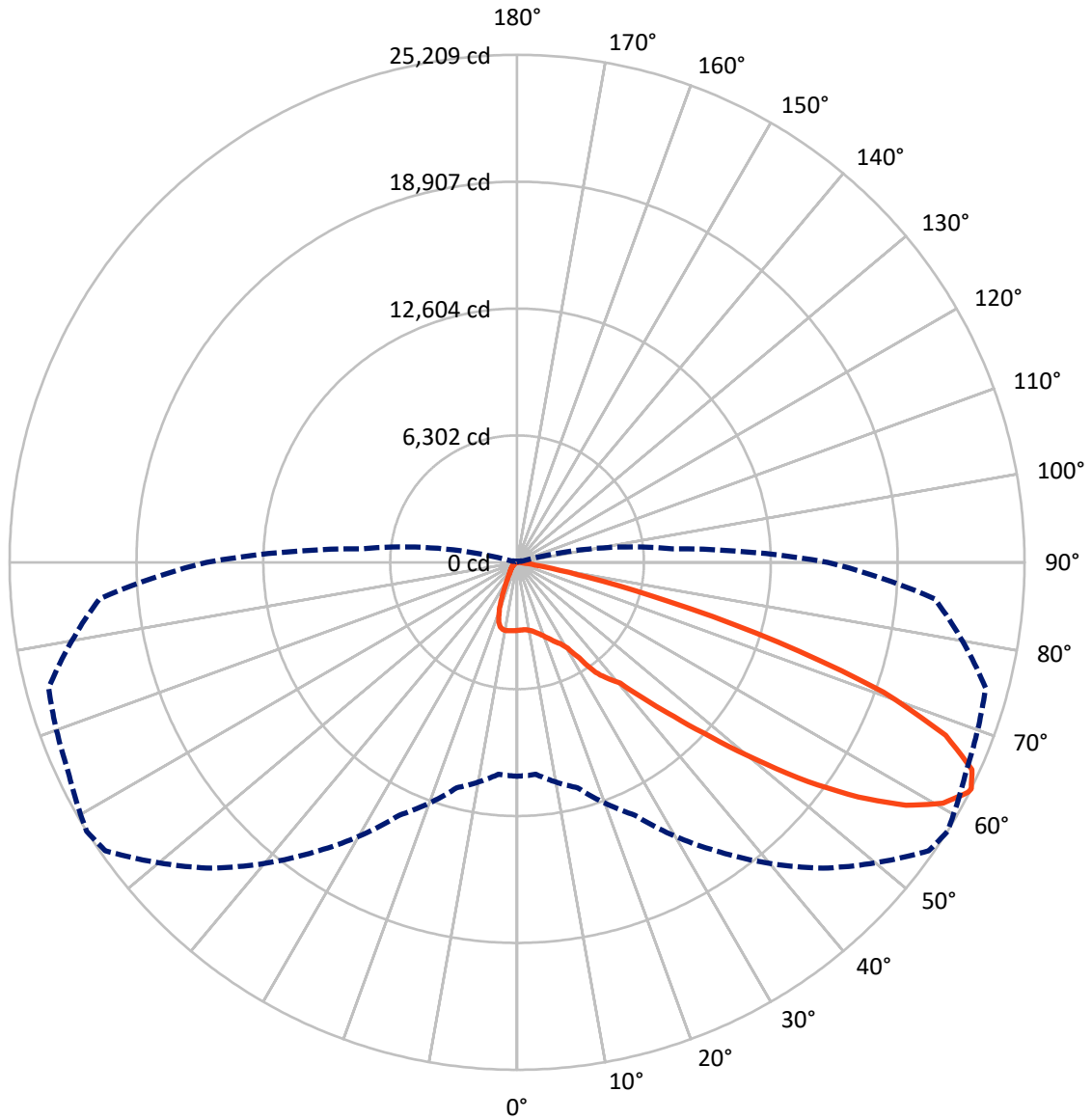
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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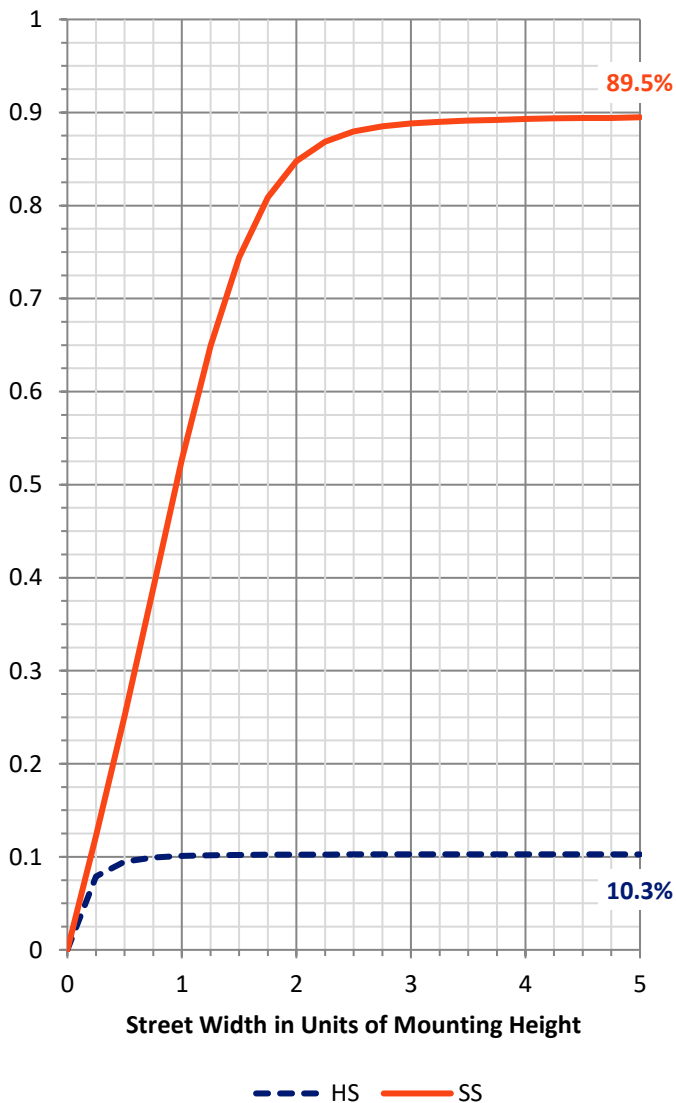
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3130.7	0.0	3130.7
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	27104.9	0.0	27104.9
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	30235.6	0.0	30235.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.9	1.0
10°-20°	863.1	2.9
20°-30°	1497.9	5.0
30°-40°	2752.6	9.1
40°-50°	5181.6	17.1
50°-60°	8862.8	29.3
60°-70°	8486.1	28.1
70°-80°	2164.0	7.2
80°-90°	110.6	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°	30235.6	100.0
0°-180°	30235.6	100.0

**Coefficient of Utilization**

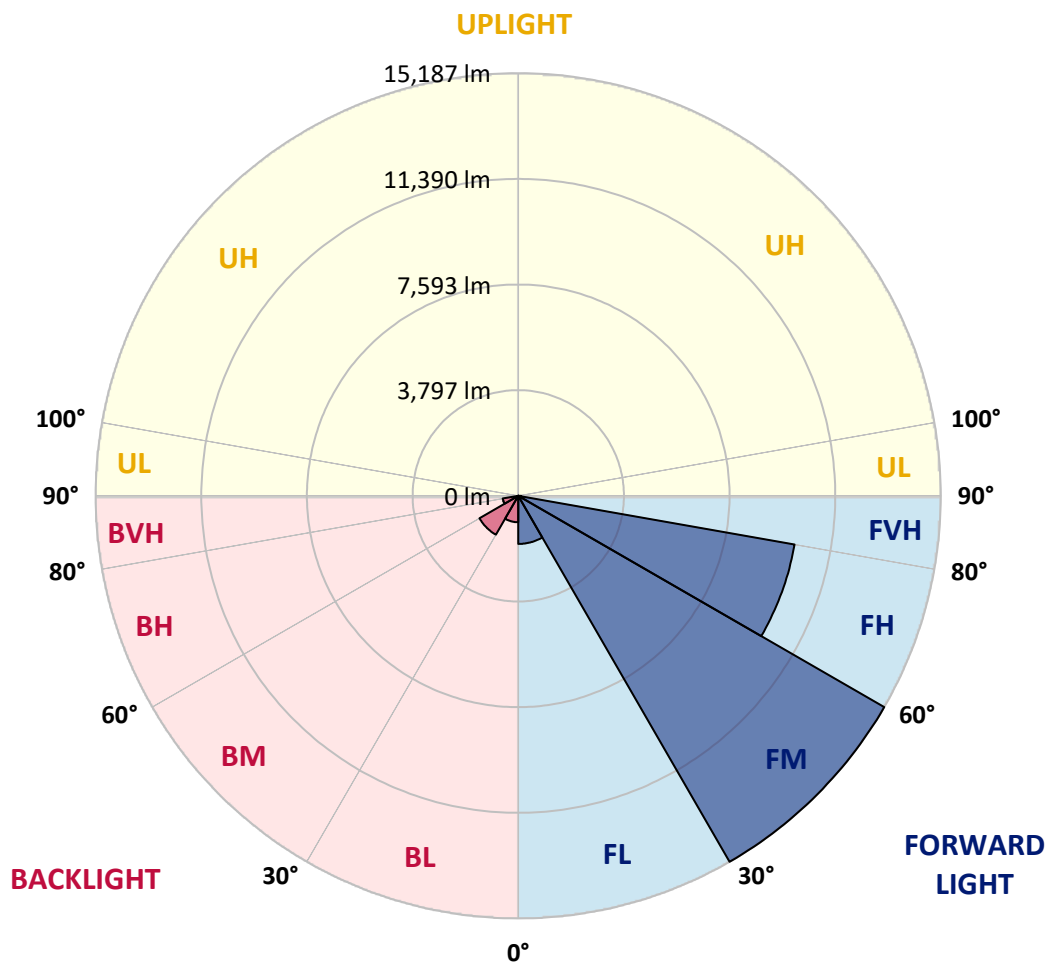


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1728.4	5.7			
FM (30°-60°)	15186.8	50.2			
FH (60°-80°)	10083.4	33.3			G4/12000
FVH (80°-90°)	106.4	0.4			G2/225
BL (0°-30°)	949.5	3.1	B2/1000		
BM (30°-60°)	1610.3	5.3	B2/2500		
BH (60°-80°)	566.7	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.3	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°	3385.0	3385.0	3385.0	3385.0	3385.0	3385.0	3385.0	3385.0	3385.0	3385.0	3385.0
2.5°	3300.8	3312.1	3323.5	3328.1	3344.0	3360.0	3371.3	3369.0	3387.3	3396.4	3396.4
5°	3168.7	3168.7	3198.3	3225.7	3271.2	3316.7	3360.0	3369.0	3403.2	3435.1	3446.4
7.5°	3057.2	3064.0	3086.8	3136.8	3198.3	3278.0	3364.5	3385.0	3444.1	3514.8	3544.3
10°	3004.8	3009.4	3039.0	3091.3	3168.7	3278.0	3398.6	3437.3	3528.4	3639.9	3680.9
12.5°	2993.5	3000.3	3029.9	3089.1	3177.8	3309.8	3473.8	3514.8	3646.7	3790.2	3851.7
15°	3014.0	3018.5	3048.1	3111.9	3209.7	3366.8	3573.9	3630.8	3787.9	3954.1	4033.8
17.5°	3086.8	3082.3	3102.7	3155.1	3264.3	3437.3	3694.6	3762.9	3947.2	4174.9	4227.3
20°	3396.4	3366.8	3348.6	3303.0	3346.3	3537.5	3840.3	3940.4	4168.1	4400.3	4436.7
22.5°	4063.4	3997.4	3867.6	3690.1	3553.5	3674.1	4015.5	4131.7	4425.3	4652.9	4652.9
25°	4912.4	4828.3	4698.5	4311.5	3976.8	3899.5	4213.6	4359.3	4705.3	4935.2	4860.1
27.5°	5975.6	5909.5	5656.8	5206.1	4694.0	4293.3	4443.5	4577.8	4953.4	5231.2	5074.1
30°	6840.5	6808.7	6601.5	6198.6	5634.1	5049.0	4871.5	4960.2	5283.5	5604.5	5442.9
32.5°	7571.3	7571.3	7359.6	6984.0	6455.9	5936.9	5597.6	5661.4	5971.0	6342.1	6041.6
35°	8374.8	8347.5	8176.8	7819.4	7227.6	6770.0	6631.1	6717.7	6997.6	7273.1	6533.2
37.5°	9219.4	9210.3	9032.8	8686.7	8204.1	7628.2	7302.7	7325.4	7468.8	7637.3	7109.1
40°	10136.7	10150.4	9918.2	9704.3	9249.0	8659.4	8035.7	7892.3	8026.6	8502.3	8172.2
42.5°	11220.4	11188.5	11088.3	10796.9	10430.4	10077.6	9328.6	9276.3	9394.6	9904.6	9547.2
45°	12479.2	12524.7	12351.7	12190.0	11944.2	11650.5	11024.6	10933.5	11063.3	11855.5	11347.8
47.5°	13740.3	13697.0	13808.6	13779.0	13911.1	13692.5	13139.4	12952.7	13264.5	14015.8	13269.1
50°	14700.9	14748.8	14980.9	15320.2	15886.9	16009.9	15479.4	15415.7	15554.6	16037.2	14987.8
52.5°	15324.7	15484.0	15848.2	16720.1	17742.2	18536.6	18133.7	18099.6	18042.7	18172.4	16631.4
55°	15732.2	15893.8	16369.6	17653.4	19413.1	20703.8	20724.3	20578.6	20203.0	20109.7	18167.9
57.5°	15481.7	15513.6	16191.9	17908.4	20339.6	22249.5	22918.8	22773.0	22078.8	21725.9	19524.7
60°	13915.6	13981.6	14926.3	16943.2	19936.7	22754.9	24373.4	24307.3	23547.0	23148.6	20580.9
62.5°	11140.6	11331.9	12303.9	14553.0	18063.2	21903.4	24962.9	25149.6	24557.7	24009.1	20913.2
63°	10630.7	10569.3	11596.0	13856.4	17566.9	21482.3	24972.1	25208.8	24603.3	24091.0	20822.2
65°	7869.5	8053.8	8720.8	10926.7	14619.0	19522.4	24409.8	24828.6	24434.8	23729.2	19813.7
67.5°	4418.4	4409.4	5146.9	7150.2	10232.4	15313.3	22071.9	22957.4	22875.5	21293.4	16424.1
70°	2162.5	2196.7	2499.5	3706.0	5934.5	10564.7	18340.9	19297.0	19326.6	16724.6	11356.9
72.5°	978.8	994.8	1211.0	1805.2	3050.4	5624.9	12638.5	13551.4	13382.9	10658.1	6271.4
75°	516.7	550.9	667.0	908.3	1470.6	2319.6	6874.7	7758.0	7405.1	4869.2	2308.3
77.5°	382.4	393.8	453.0	578.2	787.6	903.7	2966.1	3528.4	3305.3	1761.9	764.9
80°	280.0	289.1	336.9	409.7	496.3	459.9	1117.7	1281.6	1149.6	598.7	234.5
82.5°	170.7	173.0	245.8	305.0	311.8	257.3	368.8	396.1	414.3	336.9	127.5
85°	61.5	77.4	166.2	220.8	184.3	129.8	154.8	170.7	186.7	214.0	75.1
87.5°	6.8	9.1	79.6	107.0	52.4	47.8	56.9	63.7	68.3	79.6	36.4
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°	3385.0	3385.0	3385.0	3385.0	3385.0	3385.0	3385.0	3385.0	3385.0	3385.0	3385.0
2.5°	3405.5	3414.6	3407.7	3396.4	3394.1	3387.3	3373.6	3373.6	3373.6	3378.1	3373.6
5°	3455.6	3462.4	3446.4	3423.7	3398.6	3366.8	3332.6	3312.1	3309.8	3305.3	3293.9
7.5°	3551.2	3560.3	3523.9	3469.2	3400.9	3323.5	3250.7	3182.4	3150.6	3125.5	3125.5
10°	3690.1	3699.1	3626.3	3528.4	3391.8	3234.7	3061.7	2904.6	2781.8	2724.8	2711.2
12.5°	3856.2	3860.8	3740.1	3569.4	3344.0	3041.2	2672.4	2328.7	2089.7	1980.5	1969.1
15°	4038.3	4006.4	3847.1	3585.4	3207.4	2642.9	2005.5	1584.4	1336.3	1263.4	1290.7
17.5°	4222.7	4163.5	3929.1	3560.3	2900.1	2005.5	1347.6	1081.3	1003.9	983.4	983.4
20°	4395.7	4313.7	3988.3	3451.0	2367.4	1381.8	999.4	935.6	921.9	908.3	910.6
22.5°	4568.7	4443.5	4040.6	3207.4	1764.2	987.9	894.7	874.1	855.9	837.7	835.4
25°	4737.2	4564.2	4061.1	2756.7	1202.0	849.1	817.2	789.9	753.5	733.0	728.5
27.5°	4912.4	4709.9	4047.4	2187.6	876.4	760.3	728.5	689.8	646.5	610.1	610.1
30°	5249.4	4987.6	3999.6	1573.0	737.6	669.3	628.3	566.8	519.0	482.6	480.3
32.5°	5709.2	5349.5	3835.7	1106.3	655.6	589.6	528.1	459.9	409.7	382.4	382.4
35°	6118.9	5713.8	3528.4	814.9	589.6	512.2	437.1	371.0	332.4	314.1	307.3
37.5°	6742.6	6246.4	3105.0	662.5	525.9	443.9	366.5	305.0	273.2	259.5	259.5
40°	7678.2	6897.5	2586.0	580.5	464.4	377.9	305.0	257.3	232.2	216.2	216.2
42.5°	8839.2	7694.2	2060.1	521.3	407.5	325.6	255.0	218.5	195.8	184.3	182.1
45°	10300.7	8534.2	1586.6	466.7	362.0	277.7	216.2	184.3	161.6	154.8	157.1
47.5°	11825.9	9274.0	1229.3	418.8	314.1	234.5	184.3	159.4	143.4	134.3	134.3
50°	13127.9	9783.9	933.3	364.2	277.7	198.1	161.6	143.4	129.8	125.2	123.0
52.5°	14216.1	9931.9	714.8	316.4	243.6	170.7	143.4	129.8	118.4	111.5	111.5
55°	15142.5	9802.1	560.0	266.3	204.9	147.9	127.5	116.1	102.4	95.6	93.4
57.5°	15684.3	9385.6	428.0	220.8	166.2	123.0	111.5	97.9	81.9	70.6	70.6
60°	15957.6	8780.0	327.8	182.1	127.5	97.9	91.1	72.8	56.9	47.8	45.5
62.5°	15629.7	7976.5	248.1	143.4	95.6	72.8	61.5	52.4	36.4	27.3	27.3
63°	15427.1	7744.3	239.0	136.6	88.8	68.3	56.9	47.8	31.9	25.1	22.8
65°	14063.5	6731.3	195.8	109.2	70.6	47.8	38.7	34.1	22.8	11.4	9.1
67.5°	11168.0	5149.2	154.8	81.9	50.0	34.1	22.8	20.5	6.8	0.0	0.0
70°	7550.8	3325.8	120.7	59.2	34.1	20.5	11.4	9.1	2.3	0.0	0.0
72.5°	3938.2	1705.0	93.4	43.2	20.5	13.6	6.8	2.3	0.0	0.0	0.0
75°	1393.1	580.5	68.3	27.3	13.6	6.8	2.3	0.0	0.0	0.0	0.0
77.5°	421.2	216.2	43.2	20.5	9.1	4.5	0.0	0.0	0.0	0.0	0.0
80°	147.9	79.6	25.1	13.6	6.8	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	72.8	38.7	15.9	11.4	6.8	2.3	0.0	0.0	0.0	0.0	0.0
85°	41.0	25.1	13.6	11.4	6.8	4.5	0.0	0.0	0.0	0.0	0.0
87.5°	29.6	18.2	13.6	11.4	9.1	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)