

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: P652578

Luminaire Tested: **GALN-SA8B-840-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652578  
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-SA8B-840-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 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: 28370.3 lumens  
Efficiency: N/A  
Efficacy: 87.3 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

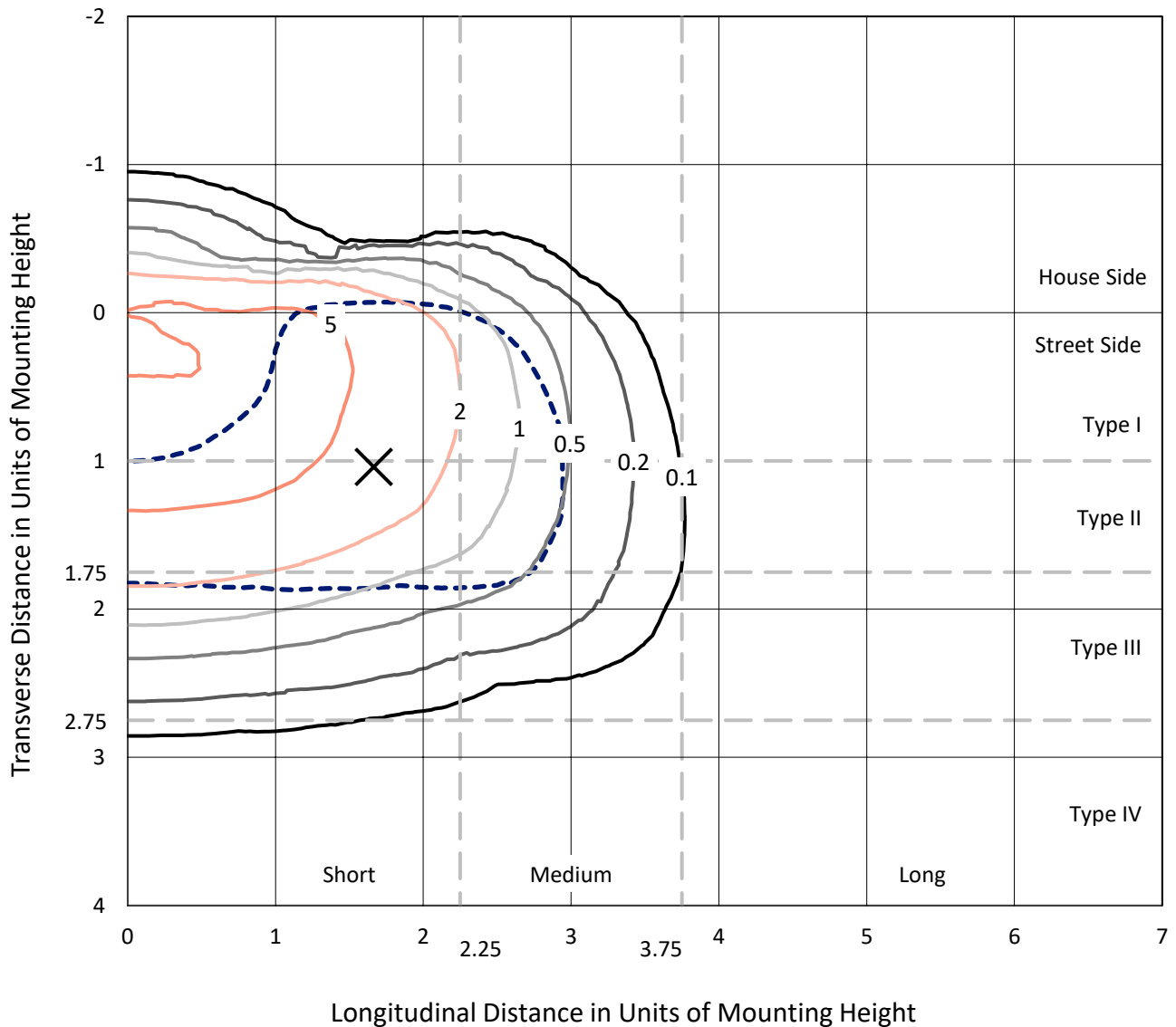
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

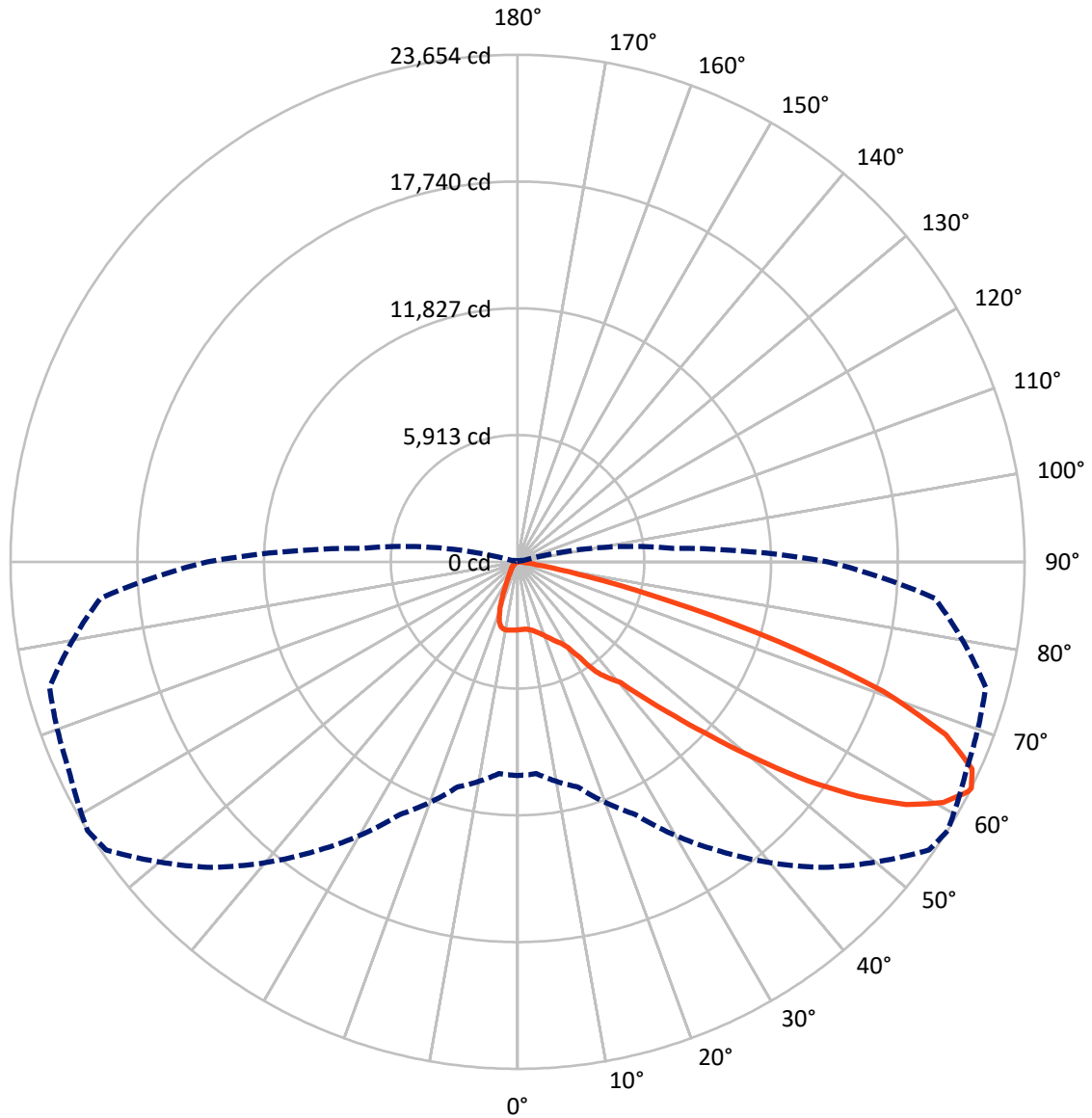
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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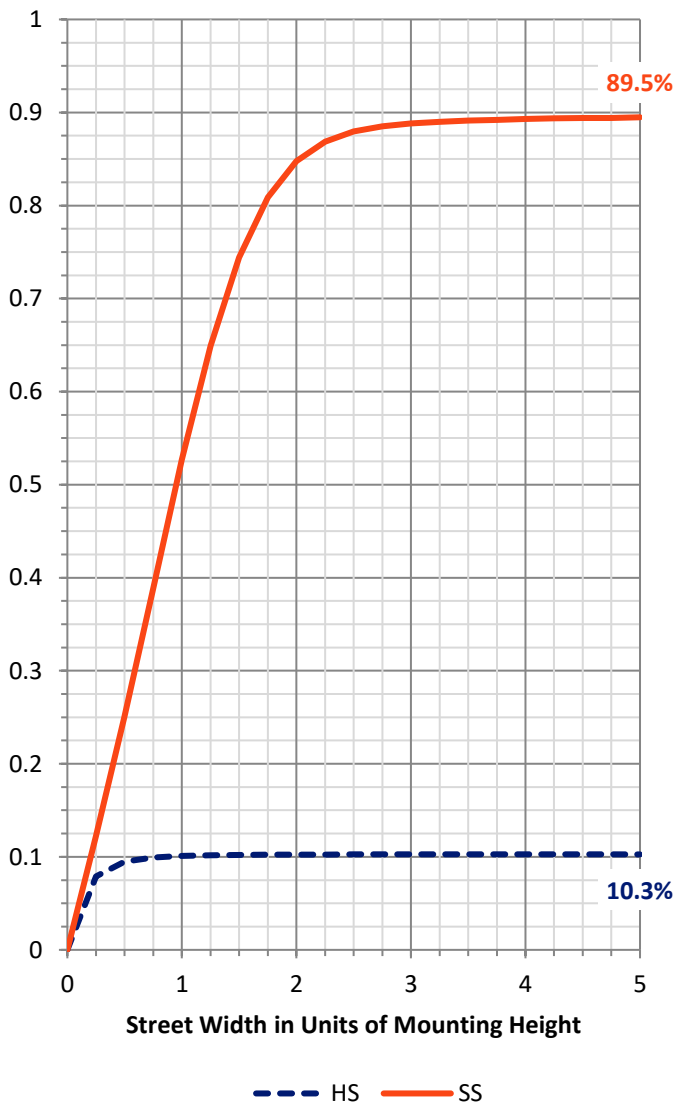
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2937.6	0.0	2937.6
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	25432.7	0.0	25432.7
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	28370.3	0.0	28370.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.3	1.0
10°-20°	809.8	2.9
20°-30°	1405.5	5.0
30°-40°	2582.8	9.1
40°-50°	4862.0	17.1
50°-60°	8316.0	29.3
60°-70°	7962.6	28.1
70°-80°	2030.5	7.2
80°-90°	103.8	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°	28370.3	100.0
0°-180°	28370.3	100.0

**Coefficient of Utilization**

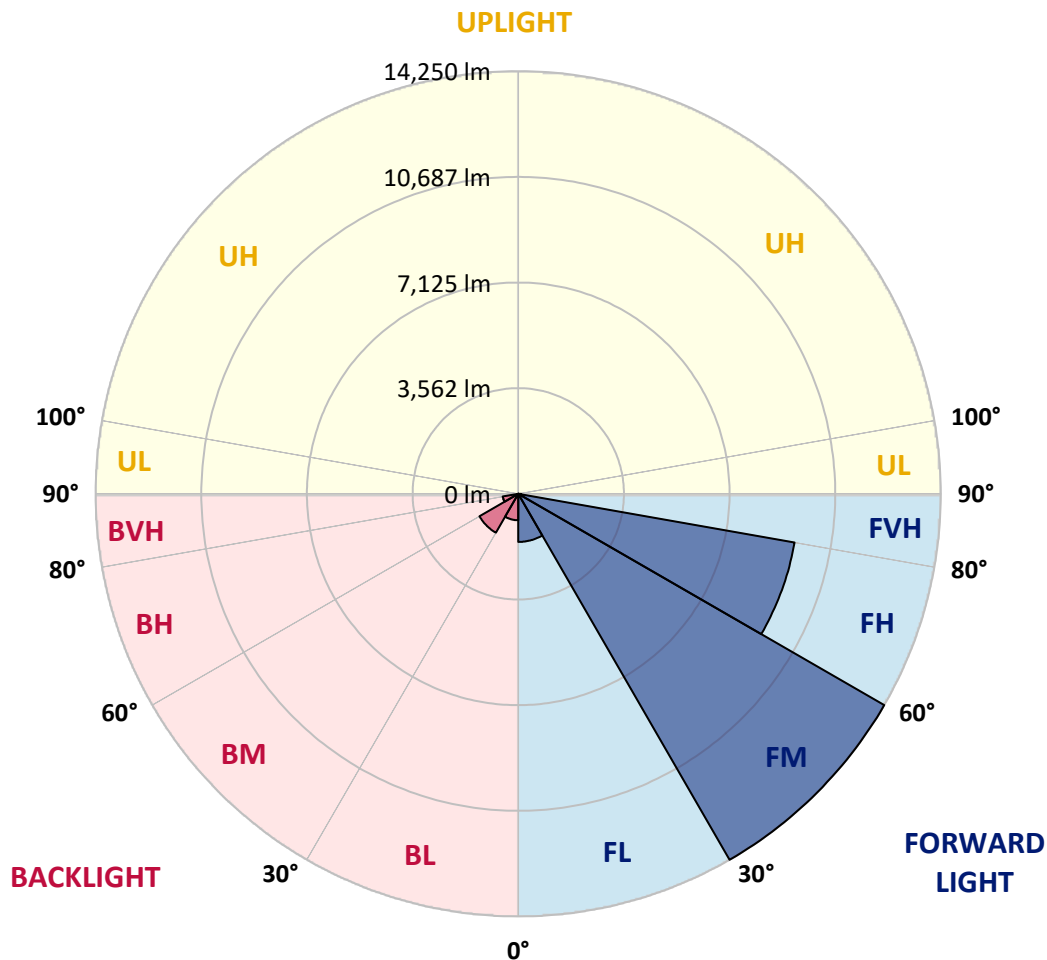


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1621.8	5.7			
FM (30°-60°)	14249.8	50.2			
FH (60°-80°)	9461.3	33.3			G4/12000
FVH (80°-90°)	99.8	0.4			G1/100
BL (0°-30°)	890.9	3.1	B2/1000		
BM (30°-60°)	1510.9	5.3	B2/2500		
BH (60°-80°)	531.7	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.0	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°	3176.2	3176.2	3176.2	3176.2	3176.2	3176.2	3176.2	3176.2	3176.2	3176.2	3176.2
2.5°	3097.2	3107.8	3118.5	3122.8	3137.7	3152.7	3163.3	3161.2	3178.3	3186.9	3186.9
5°	2973.3	2973.3	3001.0	3026.7	3069.4	3112.1	3152.7	3161.2	3193.3	3223.1	3233.8
7.5°	2868.6	2875.0	2896.3	2943.3	3001.0	3075.8	3156.9	3176.2	3231.7	3297.9	3325.7
10°	2819.5	2823.7	2851.5	2900.6	2973.3	3075.8	3189.0	3225.3	3310.8	3415.4	3453.8
12.5°	2808.8	2815.2	2842.9	2898.5	2981.8	3105.6	3259.5	3297.9	3421.8	3556.3	3614.0
15°	2828.0	2832.2	2860.1	2919.9	3011.7	3159.0	3353.5	3406.8	3554.2	3710.2	3784.9
17.5°	2896.3	2892.1	2911.3	2960.4	3062.9	3225.3	3466.7	3530.8	3703.8	3917.4	3966.5
20°	3186.9	3159.0	3142.0	3099.3	3139.9	3319.3	3603.3	3697.4	3910.9	4128.8	4163.0
22.5°	3812.7	3750.8	3629.0	3462.4	3334.2	3447.4	3767.8	3876.8	4152.3	4365.9	4365.9
25°	4609.4	4530.4	4408.6	4045.5	3731.5	3658.9	3953.6	4090.4	4415.0	4630.7	4560.2
27.5°	5606.9	5545.0	5307.9	4884.9	4404.3	4028.4	4169.3	4295.4	4647.9	4908.4	4761.1
30°	6418.5	6388.7	6194.3	5816.2	5286.5	4737.5	4570.9	4654.3	4957.5	5258.7	5107.1
32.5°	7104.2	7104.2	6905.5	6553.1	6057.6	5570.5	5252.3	5312.1	5602.6	5950.7	5668.8
35°	7858.1	7832.6	7672.4	7337.0	6781.7	6352.3	6222.1	6303.2	6565.9	6824.4	6130.2
37.5°	8650.6	8642.0	8475.4	8150.8	7698.0	7157.6	6852.1	6873.5	7008.1	7166.2	6670.6
40°	9511.4	9524.2	9306.3	9105.6	8678.4	8125.2	7539.9	7405.3	7531.4	7977.8	7668.1
42.5°	10528.1	10498.2	10404.3	10130.9	9787.0	9455.9	8753.1	8704.0	8815.1	9293.6	8958.2
45°	11709.3	11752.0	11589.7	11438.0	11207.3	10931.8	10344.5	10259.0	10380.7	11124.1	10647.7
47.5°	12892.6	12852.1	12956.7	12928.9	13052.8	12847.8	12328.7	12153.5	12446.2	13151.1	12450.5
50°	13794.0	13838.8	14056.7	14375.0	14906.8	15022.2	14524.5	14464.7	14595.0	15047.8	14063.1
52.5°	14379.2	14528.8	14870.5	15688.6	16647.6	17393.1	17015.0	16983.0	16929.6	17051.4	15605.3
55°	14761.6	14913.2	15359.7	16564.3	18215.4	19426.5	19445.8	19309.0	18956.6	18869.0	17047.1
57.5°	14526.6	14556.5	15193.0	16803.5	19084.7	20876.8	21504.8	21368.1	20716.6	20385.6	18320.1
60°	13057.1	13119.0	14005.4	15897.9	18706.7	21351.0	22869.6	22807.8	22094.3	21720.5	19311.1
62.5°	10453.4	10632.8	11544.8	13655.1	16948.8	20552.2	23422.9	23598.0	23042.6	22528.0	19623.1
63°	9974.9	9917.2	10880.5	13001.5	16483.2	20157.0	23431.4	23653.5	23085.4	22604.8	19537.6
65°	7384.0	7557.0	8182.8	10252.5	13717.1	18317.9	22903.9	23296.9	22927.3	22265.2	18591.3
67.5°	4145.9	4137.4	4829.4	6709.0	9601.1	14368.6	20710.2	21541.1	21464.2	19979.7	15410.9
70°	2029.2	2061.2	2345.3	3477.4	5568.4	9913.0	17209.4	18106.5	18134.2	15692.9	10656.3
72.5°	918.5	933.4	1136.4	1693.8	2862.2	5277.9	11858.9	12715.3	12557.3	10000.5	5884.6
75°	484.8	516.9	625.9	852.3	1379.8	2176.5	6450.6	7279.4	6948.3	4568.8	2165.8
77.5°	358.9	369.5	425.0	542.5	739.1	848.0	2783.1	3310.8	3101.4	1653.2	717.7
80°	262.7	271.3	316.1	384.5	465.7	431.4	1048.7	1202.5	1078.7	561.8	220.0
82.5°	160.2	162.3	230.7	286.2	292.6	241.4	346.0	371.6	388.7	316.1	119.6
85°	57.7	72.7	155.9	207.2	173.0	121.8	145.2	160.2	175.2	200.7	70.5
87.5°	6.4	8.6	74.8	100.4	49.1	44.8	53.4	59.8	64.1	74.8	34.1
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°	3176.2	3176.2	3176.2	3176.2	3176.2	3176.2	3176.2	3176.2	3176.2	3176.2	3176.2
2.5°	3195.4	3204.0	3197.5	3186.9	3184.7	3178.3	3165.5	3165.5	3165.5	3169.7	3165.5
5°	3242.4	3248.8	3233.8	3212.5	3189.0	3159.0	3127.0	3107.8	3105.6	3101.4	3090.8
7.5°	3332.1	3340.6	3306.5	3255.2	3191.1	3118.5	3050.1	2986.1	2956.2	2932.7	2932.7
10°	3462.4	3470.9	3402.6	3310.8	3182.6	3035.2	2872.9	2725.5	2610.1	2556.7	2543.9
12.5°	3618.3	3622.6	3509.4	3349.2	3137.7	2853.6	2507.6	2185.1	1960.8	1858.3	1847.6
15°	3789.2	3759.3	3609.7	3364.2	3009.5	2479.9	1881.7	1486.6	1253.8	1185.5	1211.1
17.5°	3962.2	3906.7	3686.7	3340.6	2721.2	1881.7	1264.4	1014.6	941.9	922.7	922.7
20°	4124.5	4047.6	3742.2	3238.1	2221.4	1296.5	937.7	877.8	865.1	852.3	854.4
22.5°	4286.8	4169.3	3791.3	3009.5	1655.3	927.0	839.4	820.2	803.2	786.0	783.9
25°	4444.9	4282.6	3810.6	2586.7	1127.8	796.7	766.8	741.2	707.0	687.8	683.5
27.5°	4609.4	4419.3	3797.7	2052.6	822.3	713.4	683.5	647.2	606.6	572.5	572.5
30°	4925.5	4679.9	3752.9	1476.0	692.1	628.0	589.5	531.8	487.0	452.8	450.7
32.5°	5357.0	5019.5	3599.1	1038.0	615.2	553.2	495.5	431.4	384.5	358.9	358.9
35°	5741.4	5361.2	3310.8	764.6	553.2	480.6	410.1	348.2	311.8	294.8	288.4
37.5°	6326.7	5861.1	2913.5	621.6	493.4	416.5	343.9	286.2	256.3	243.5	243.5
40°	7204.6	6471.9	2426.5	544.6	435.7	354.6	286.2	241.4	217.9	202.9	202.9
42.5°	8293.9	7219.6	1933.0	489.1	382.3	305.5	239.3	205.0	183.7	173.0	170.9
45°	9665.2	8007.7	1488.7	437.9	339.6	260.6	202.9	173.0	151.6	145.2	147.3
47.5°	11096.3	8701.9	1153.4	393.0	294.8	220.0	173.0	149.5	134.6	126.0	126.0
50°	12318.0	9180.4	875.7	341.8	260.6	185.9	151.6	134.6	121.8	117.5	115.3
52.5°	13339.0	9319.2	670.7	296.9	228.6	160.2	134.6	121.8	111.1	104.6	104.6
55°	14208.4	9197.4	525.5	249.9	192.3	138.8	119.6	108.9	96.1	89.7	87.5
57.5°	14716.7	8806.5	401.6	207.2	155.9	115.3	104.6	91.8	76.9	66.2	66.2
60°	14973.1	8238.4	307.6	170.9	119.6	91.8	85.4	68.4	53.4	44.8	42.7
62.5°	14665.4	7484.4	232.8	134.6	89.7	68.4	57.7	49.1	34.1	25.7	25.7
63°	14475.4	7266.5	224.3	128.2	83.3	64.1	53.4	44.8	29.9	23.5	21.4
65°	13196.0	6316.0	183.7	102.5	66.2	44.8	36.3	32.0	21.4	10.7	8.6
67.5°	10479.0	4831.5	145.2	76.9	47.0	32.0	21.4	19.3	6.4	0.0	0.0
70°	7084.9	3120.6	113.2	55.5	32.0	19.3	10.7	8.6	2.1	0.0	0.0
72.5°	3695.2	1599.8	87.5	40.6	19.3	12.8	6.4	2.1	0.0	0.0	0.0
75°	1307.2	544.6	64.1	25.7	12.8	6.4	2.1	0.0	0.0	0.0	0.0
77.5°	395.2	202.9	40.6	19.3	8.6	4.3	0.0	0.0	0.0	0.0	0.0
80°	138.8	74.8	23.5	12.8	6.4	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	68.4	36.3	15.0	10.7	6.4	2.1	0.0	0.0	0.0	0.0	0.0
85°	38.4	23.5	12.8	10.7	6.4	4.3	0.0	0.0	0.0	0.0	0.0
87.5°	27.8	17.1	12.8	10.7	8.6	4.3	2.1	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)