

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: P652085

Luminaire Tested: **GALN-SA8A-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652085  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-840-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27111.3 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

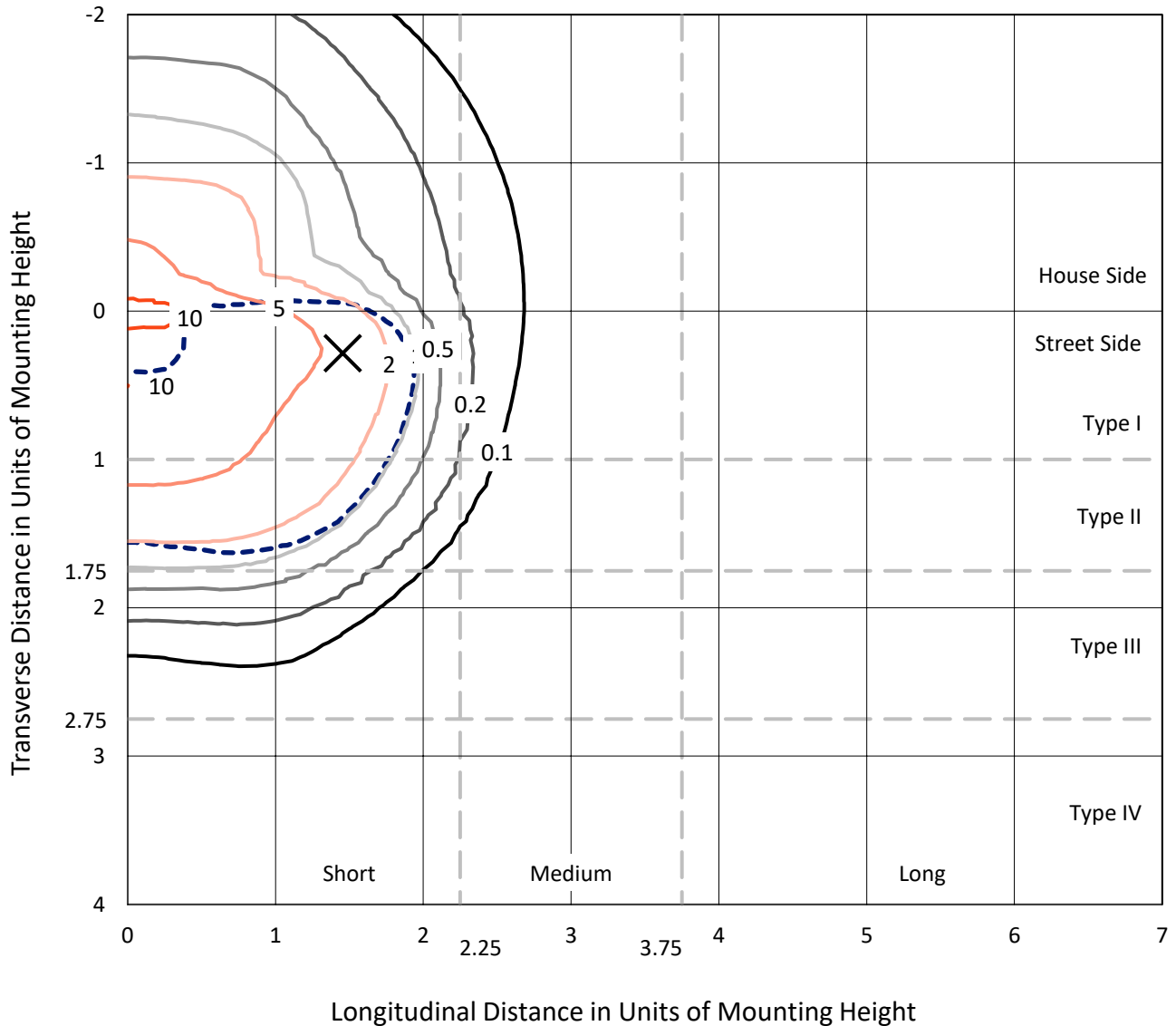
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

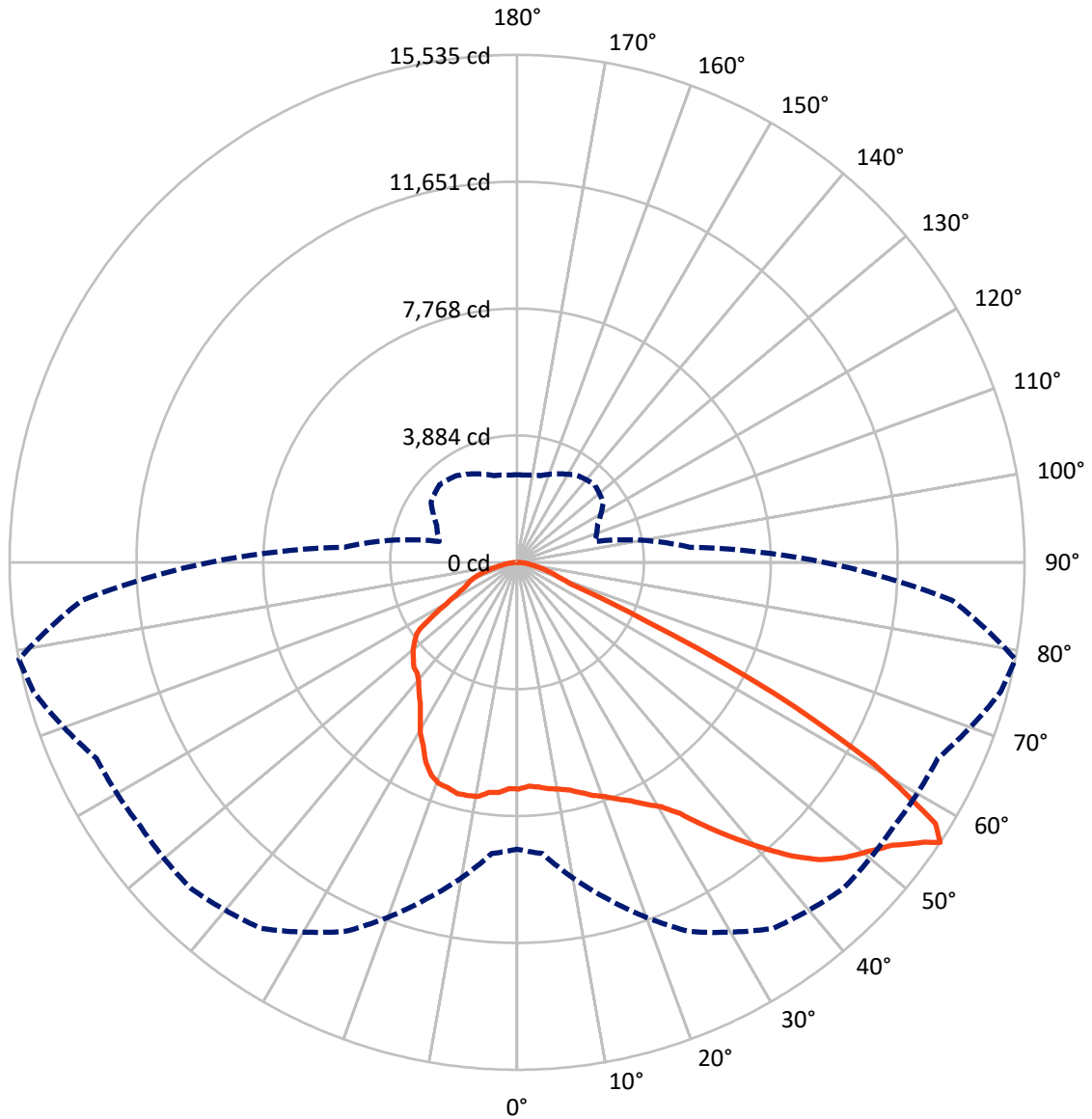
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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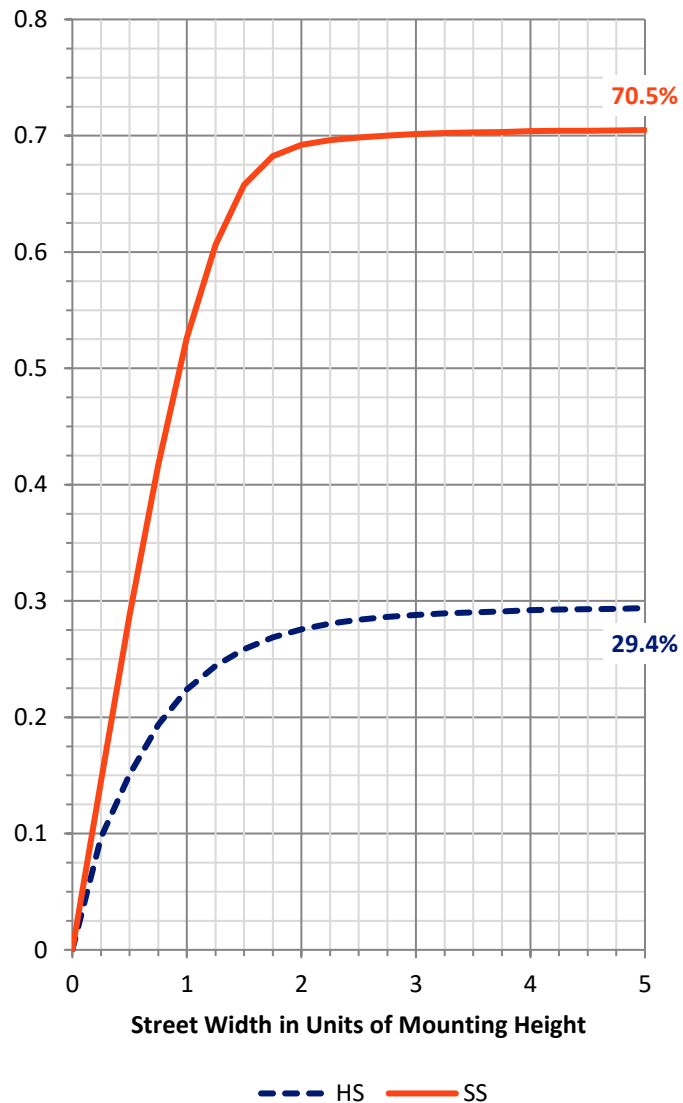
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8006.6	0.0	8006.6
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	19104.8	0.0	19104.8
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	27111.3	0.0	27111.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	630.7	2.3
10°-20°	1726.0	6.4
20°-30°	2952.8	10.9
30°-40°	4525.6	16.7
40°-50°	6116.3	22.6
50°-60°	7024.8	25.9
60°-70°	3202.1	11.8
70°-80°	789.5	2.9
80°-90°	143.5	0.5
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°	27111.3	100.0
0°-180°	27111.3	100.0

**Coefficient of Utilization**

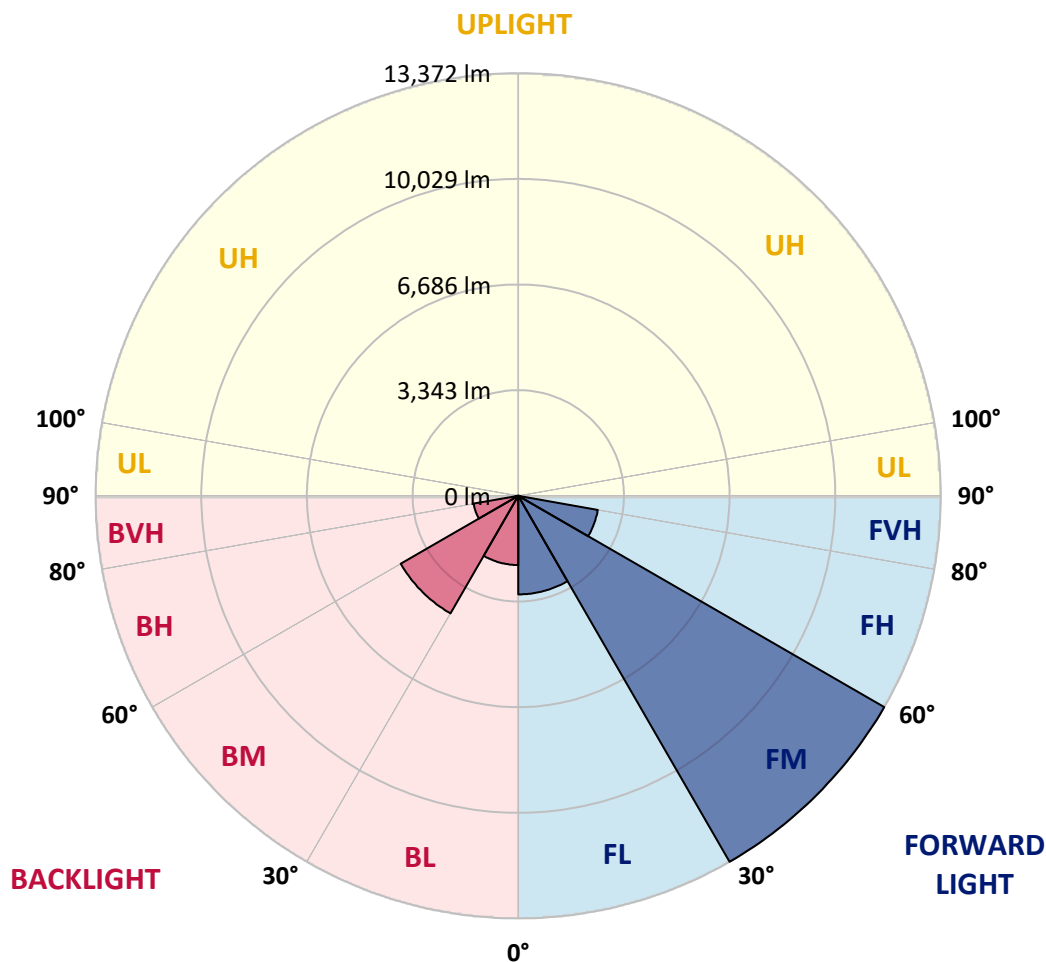


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3119.4	11.5			
FM (30°-60°)	13372.1	49.3			
FH (60°-80°)	2556.0	9.4			G2/5000
FVH (80°-90°)	57.3	0.2			G1/100
BL (0°-30°)	2190.1	8.1	B3/2500		
BM (30°-60°)	4294.6	15.8	B3/5000		
BH (60°-80°)	1435.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	86.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6936.7	6936.7	6936.7	6936.7	6936.7	6936.7	6936.7	6936.7	6936.7	6936.7	6936.7
2.5°	6599.0	6582.1	6622.6	6653.1	6690.2	6737.4	6761.1	6774.6	6892.8	6862.4	6953.6
5°	6457.1	6413.2	6443.7	6467.3	6531.5	6588.9	6653.1	6754.3	6862.4	6909.7	7021.2
7.5°	6332.2	6308.6	6301.8	6318.7	6406.5	6480.8	6592.3	6740.9	6916.5	6994.1	7058.3
10°	6126.2	6092.5	6143.1	6254.5	6278.1	6433.5	6561.8	6774.6	6926.6	7061.7	7250.8
12.5°	6035.0	6001.2	6011.4	6075.6	6241.0	6389.6	6541.6	6781.4	7102.2	7156.2	7409.5
15°	6180.3	6146.4	6156.6	6139.7	6298.4	6376.1	6615.9	6916.5	7223.8	7314.9	7585.1
17.5°	6511.2	6514.6	6470.7	6433.5	6396.4	6561.8	6727.3	6997.5	7271.0	7500.7	7703.3
20°	7142.7	7031.3	6943.5	6734.1	6676.7	6747.6	6957.0	7217.0	7463.5	7652.7	7882.4
22.5°	7629.0	7639.1	7514.3	7169.8	7044.8	7075.2	7254.1	7466.9	7737.1	7872.2	8135.6
25°	8334.9	8263.9	8128.9	7855.3	7575.0	7598.6	7730.4	7922.8	7997.2	8091.7	8378.8
27.5°	8979.9	9000.1	8733.4	8476.7	8128.9	8061.3	8297.7	8331.5	8206.6	8385.5	8483.4
30°	9635.1	9618.2	9442.6	9142.0	8800.9	8814.4	8919.1	8753.6	8581.4	8679.4	8746.9
32.5°	10313.9	10121.4	10114.6	9844.5	9584.5	9459.5	9331.1	9412.2	9145.4	9165.6	9101.5
35°	10857.6	10884.6	10729.3	10536.8	10408.5	10189.0	9837.7	9982.9	9932.3	9908.7	9631.7
37.5°	11252.7	11148.0	11225.8	11161.6	11040.0	10766.4	10401.7	10540.2	10563.8	10678.6	10357.8
40°	11577.0	11533.1	11739.0	11772.8	11688.4	11097.4	10442.2	10854.2	11208.8	11458.7	11077.1
42.5°	11732.3	11826.9	12043.0	12303.1	12113.9	11482.4	10651.6	11094.1	11884.3	12279.4	11759.3
45°	11941.7	11820.1	12140.9	12617.1	12620.5	11806.6	10854.2	11418.3	12411.1	12985.2	12225.4
47.5°	11728.9	11789.7	12120.7	12725.2	12880.5	12147.7	11401.4	11877.5	12992.0	13501.9	12657.6
50°	11252.7	11374.4	11978.9	12607.0	13076.4	12509.0	12029.5	12374.0	13528.9	13917.3	12728.5
52.5°	10756.3	10823.8	11769.5	12698.2	13164.3	12975.1	12870.4	13059.6	14184.1	14386.7	12816.3
55°	9405.4	9726.2	11077.1	12657.6	13593.1	13816.0	13735.0	14011.9	14927.1	15129.8	13296.0
56°	8780.6	8949.5	10661.7	12468.5	13677.5	14123.3	14082.8	14207.8	15322.3	15535.0	13370.2
57.5°	7625.7	7639.1	9091.4	11630.9	13360.1	14214.5	14174.0	14271.9	15244.6	15099.3	12718.4
60°	4771.9	4981.3	6187.0	8946.1	11360.8	13187.9	13417.5	12630.6	12853.5	12546.2	9895.1
62.5°	2472.1	2441.7	3242.1	5231.3	7541.2	9442.6	9655.4	9618.2	9273.7	8824.5	6463.9
65°	1232.7	1239.4	1695.4	2590.3	3863.5	4944.2	5538.6	5602.7	4687.5	4312.6	3066.5
67.5°	895.0	928.7	1219.2	1583.9	1820.3	2036.4	2495.8	2448.5	1854.1	1762.9	1634.6
70°	695.7	726.1	989.5	1209.0	1097.6	1097.6	1195.5	1236.0	1320.5	1357.6	1401.5
72.5°	506.5	530.3	756.5	834.2	719.3	773.4	895.0	989.5	1077.3	1090.9	1141.5
75°	347.8	368.1	496.4	459.3	432.3	533.6	655.1	742.9	807.1	840.9	871.3
77.5°	226.2	233.0	283.7	239.8	276.9	344.5	425.5	499.8	564.0	591.0	597.8
80°	101.3	111.4	121.6	152.0	192.5	246.5	303.9	364.7	405.3	415.4	435.6
82.5°	57.4	57.4	74.3	108.1	141.9	179.0	219.5	263.4	310.7	320.8	317.5
85°	30.4	30.4	43.9	64.2	87.8	104.7	101.3	104.7	111.4	128.3	125.0
87.5°	10.1	10.1	13.5	13.5	16.9	20.3	16.9	23.6	30.4	30.4	30.4
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°	6936.7	6936.7	6936.7	6936.7	6936.7	6936.7	6936.7	6936.7	6936.7	6936.7	6936.7
2.5°	6926.6	6957.0	6916.5	7004.3	7004.3	6987.4	6902.9	6929.9	6950.2	6950.2	6967.1
5°	7058.3	7048.2	7075.2	6970.5	6906.3	6882.7	6744.2	6676.7	6619.3	6615.9	6565.2
7.5°	7132.6	7105.6	7095.4	7017.7	6734.1	6561.8	6264.7	6092.5	6055.3	5923.6	5974.2
10°	7250.8	7301.5	7250.8	6828.7	6433.5	6038.4	5748.0	5481.1	5376.4	5292.0	5241.4
12.5°	7494.0	7470.3	7176.5	6605.7	6051.9	5582.5	5150.2	4869.9	4765.2	4690.9	4684.1
15°	7699.9	7581.8	7132.6	6254.5	5457.5	4957.7	4603.0	4403.8	4356.5	4363.3	4393.7
17.5°	7770.8	7689.9	6902.9	5889.8	5015.1	4427.4	4262.0	4231.6	4275.5	4326.2	4339.6
20°	7882.4	7754.0	6808.4	5393.3	4468.0	4096.5	4086.4	4194.5	4275.5	4349.8	4359.9
22.5°	8115.3	7791.1	6501.1	4923.9	4093.1	3998.5	4096.5	4187.7	4312.6	4373.5	4319.4
25°	8182.9	7710.1	6068.7	4359.9	3856.7	3937.8	4042.4	4167.4	4255.2	4289.0	4312.6
27.5°	8240.3	7585.1	5484.5	3985.1	3782.4	3934.4	4042.4	4147.1	4194.5	4224.8	4251.8
30°	8402.4	7548.0	4978.0	3735.1	3735.1	3866.8	4005.3	4032.3	4096.5	4133.7	4180.9
32.5°	8483.4	7291.3	4457.9	3576.4	3687.9	3900.6	3910.7	3961.4	3964.8	3995.2	3944.5
35°	8696.2	7109.0	3974.9	3461.6	3708.1	3866.8	3917.5	3887.1	3721.7	3640.6	3657.5
37.5°	8851.6	7017.7	3627.1	3448.1	3711.5	3904.0	3931.0	3701.4	3529.2	3394.0	3427.8
40°	9270.3	6791.5	3363.7	3424.5	3741.9	3944.5	3870.2	3620.3	3309.6	3171.2	3147.5
42.5°	9591.2	6629.4	3198.2	3397.5	3765.6	4002.0	3839.8	3458.2	3140.8	3012.5	3046.2
45°	9962.7	6592.3	3110.4	3404.2	3806.1	4032.3	3802.7	3333.3	2995.6	2944.9	2934.8
47.5°	10094.4	6325.4	3015.8	3346.8	3795.9	4022.3	3677.8	3238.7	2941.5	2948.3	2975.3
50°	9874.9	6051.9	2944.9	3228.6	3728.4	3931.0	3481.8	3113.7	2911.1	2995.6	3042.8
52.5°	9594.5	5771.6	2799.7	3069.8	3589.9	3789.2	3390.7	3107.0	2880.8	2853.7	2863.9
55°	9679.0	5541.9	2597.0	2853.7	3367.0	3525.8	3289.4	3042.8	2806.4	2705.1	2738.9
56°	9405.4	5305.5	2465.3	2718.6	3215.1	3356.9	3238.7	2985.4	2745.6	2678.1	2678.1
57.5°	8632.0	4511.9	2293.1	2502.5	2894.2	3063.1	3140.8	2951.7	2678.1	2559.9	2563.3
60°	6365.9	3208.3	2056.7	2205.3	2397.8	2532.8	2894.2	2857.1	2509.2	2428.2	2397.8
62.5°	3924.3	2343.8	1887.9	1945.2	2043.2	2154.6	2526.1	2586.9	2330.2	2242.4	2222.2
65°	2198.5	1793.3	1759.5	1783.2	1830.4	1887.9	2097.2	2232.4	2056.7	1921.6	1914.9
67.5°	1607.6	1604.1	1631.2	1651.5	1671.7	1671.7	1722.4	1776.4	1752.7	1644.7	1634.6
70°	1428.5	1438.7	1459.0	1462.3	1469.1	1445.4	1404.9	1388.0	1415.1	1347.5	1334.0
72.5°	1178.7	1212.4	1236.0	1239.4	1202.3	1171.8	1117.9	1060.4	1040.1	1026.7	1023.2
75°	905.1	928.7	938.9	935.4	922.0	878.1	813.9	756.5	719.3	678.8	699.0
77.5°	611.2	645.0	662.0	662.0	641.7	574.2	543.7	499.8	462.6	418.7	425.5
80°	428.9	452.5	479.5	476.2	442.5	408.6	364.7	324.2	293.8	260.0	256.7
82.5°	320.8	334.4	347.8	341.1	317.5	283.7	253.3	216.1	182.3	158.7	158.7
85°	114.8	125.0	152.0	158.7	172.2	172.2	145.2	121.6	98.0	81.1	81.1
87.5°	33.8	33.8	37.2	37.2	33.8	37.2	30.4	33.8	37.2	23.6	23.6
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)