

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: P532872

Luminaire Tested: **GALN-SA8B-730-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532872  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-730-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35677 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

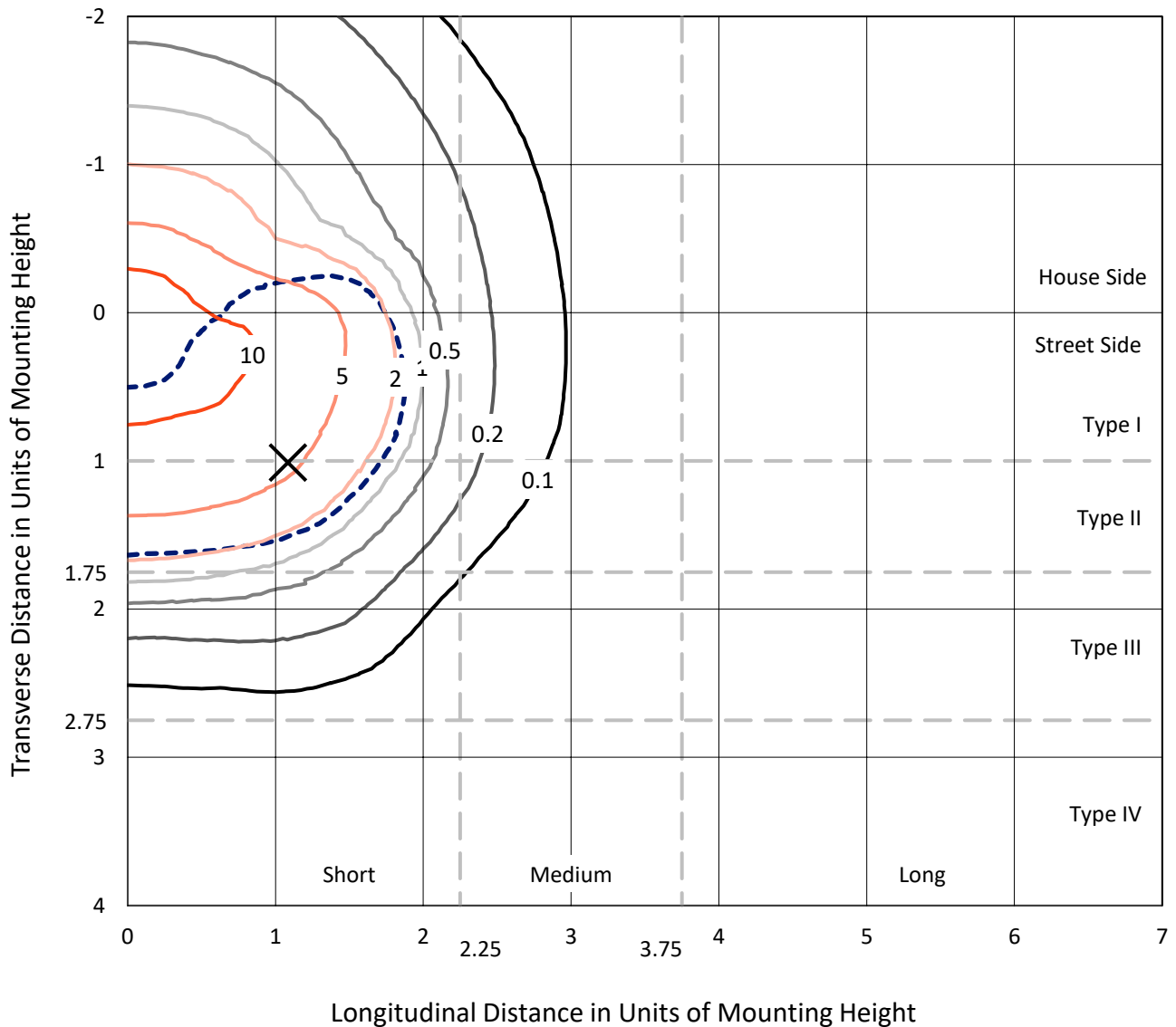
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

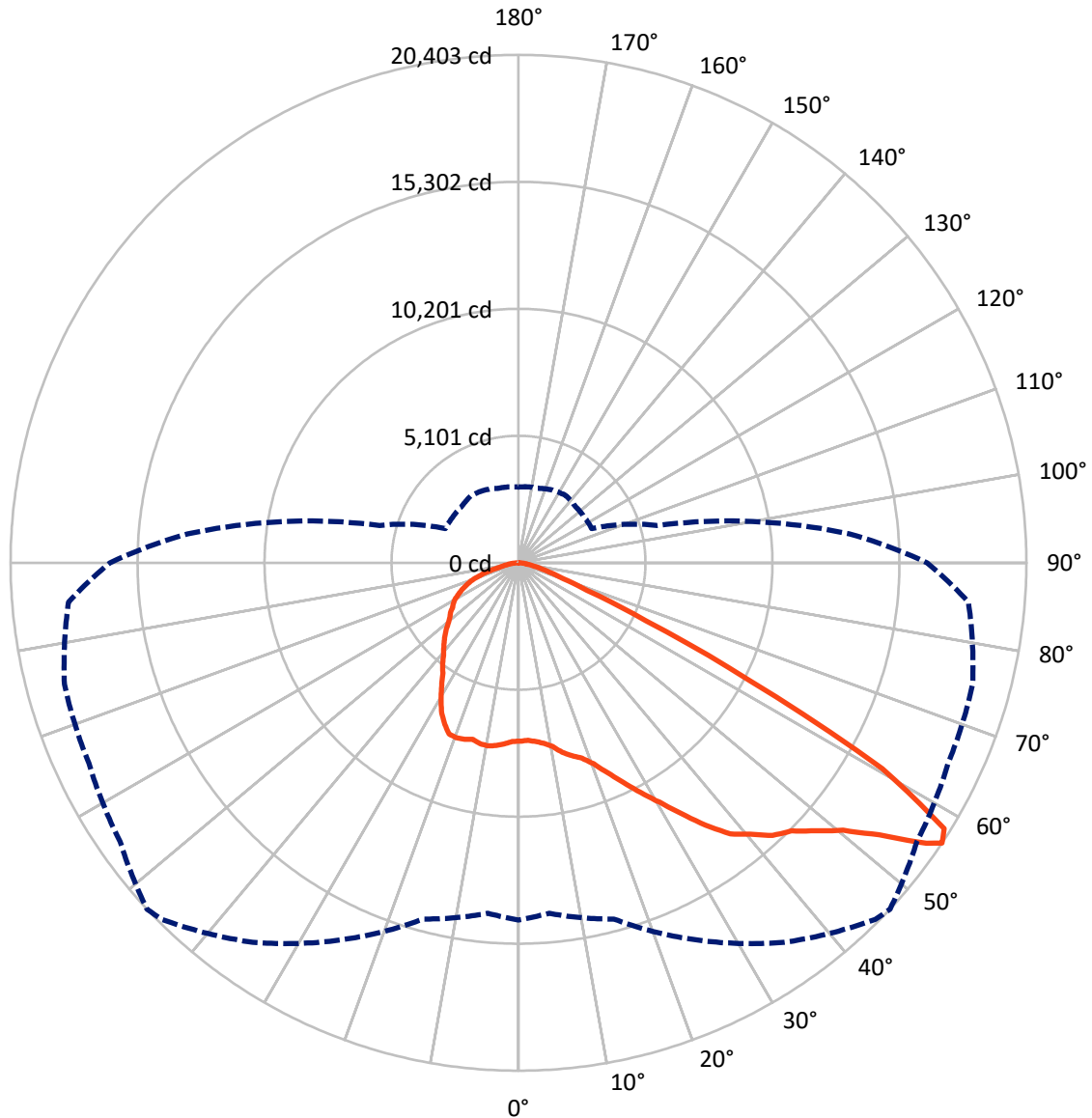
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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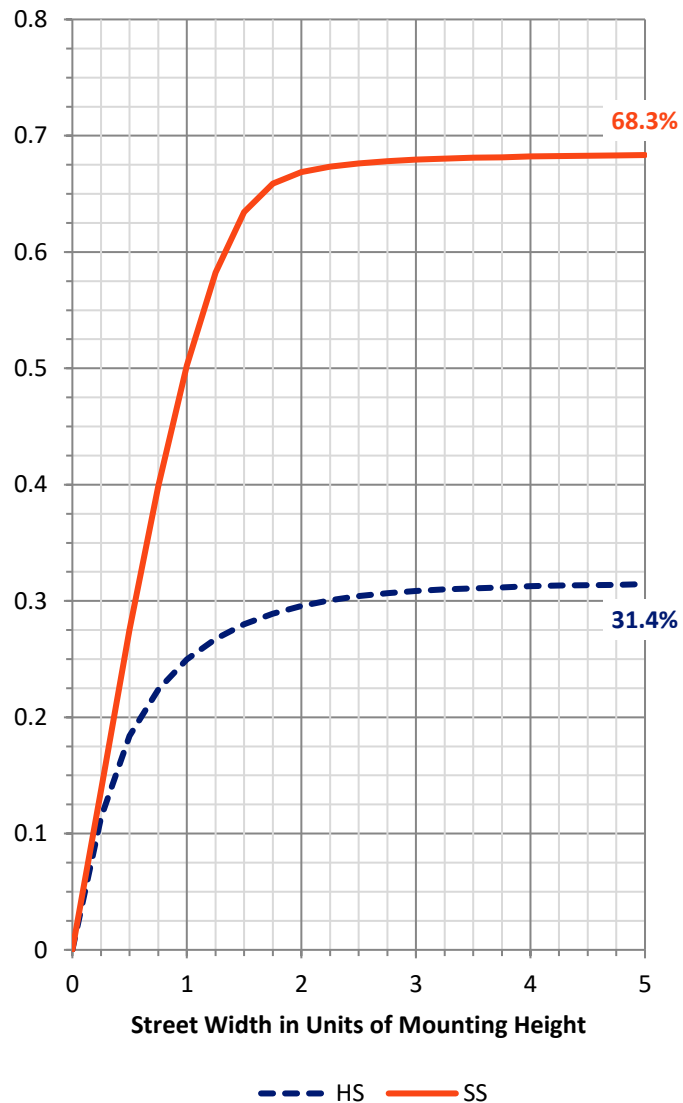
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11305.6	0.0	11305.6
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	24371.4	0.0	24371.4
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	35677.0	0.0	35677.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	698.3	2.0
10°-20°	2202.7	6.2
20°-30°	3893.8	10.9
30°-40°	5848.4	16.4
40°-50°	8026.4	22.5
50°-60°	9562.4	26.8
60°-70°	4092.1	11.5
70°-80°	1158.1	3.2
80°-90°	194.9	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°	35677.0	100.0
0°-180°	35677.0	100.0

**Coefficient of Utilization**



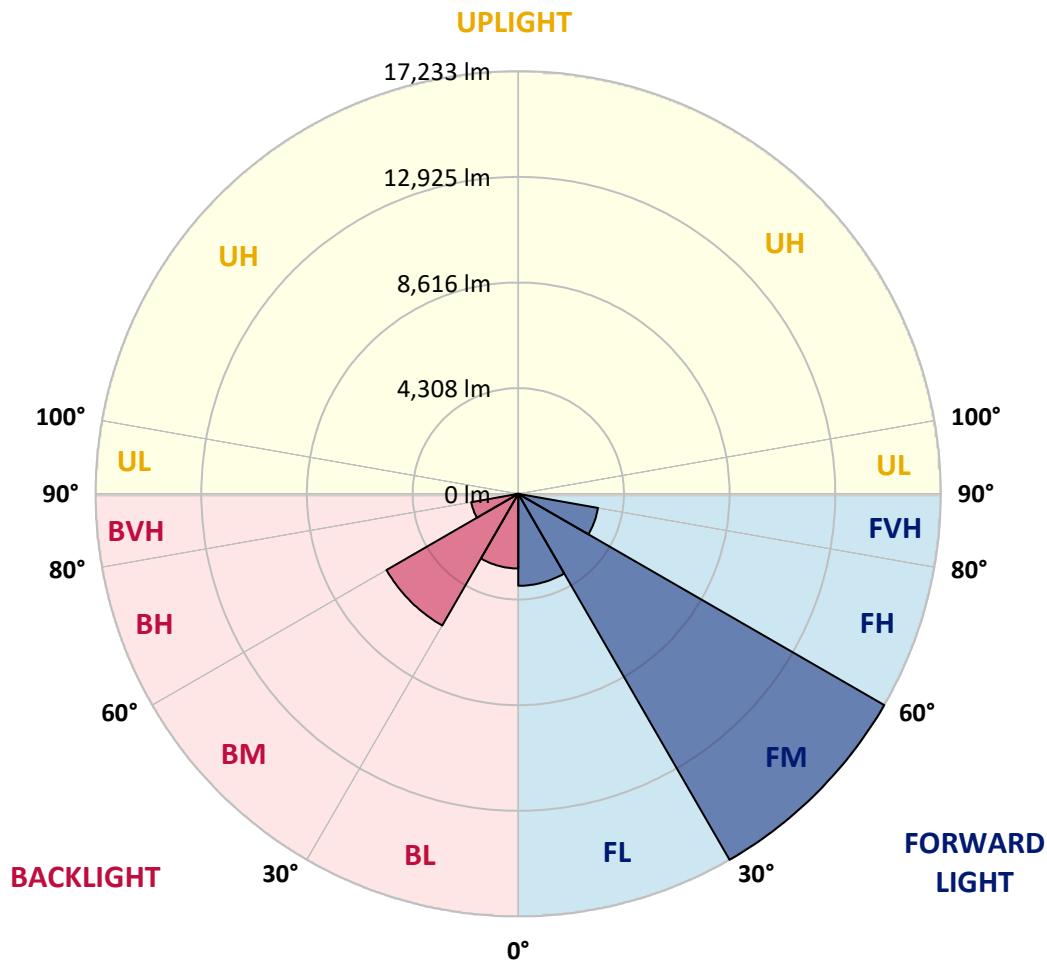
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3750.9	10.5			
FM (30°-60°)	17232.8	48.3			
FH (60°-80°)	3305.0	9.3			G2/5000
FVH (80°-90°)	82.7	0.2			G1/100
BL (0°-30°)	3043.9	8.5	B4/5000		
BM (30°-60°)	6204.3	17.4	B4/8500		
BH (60°-80°)	1945.2	5.5	B3/2500		G3/2500
BVH (80°-90°)	112.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	7166.4	7166.4	7166.4	7166.4	7166.4	7166.4	7166.4	7166.4	7166.4	7166.4	7166.4
2.5°	7139.1	7125.5	7116.4	7189.2	7161.9	7166.4	7139.1	7166.4	7184.6	7143.7	7202.8
5°	7125.5	7166.4	7130.0	7152.8	7211.9	7193.7	7211.9	7266.5	7252.9	7239.2	7221.0
7.5°	7252.9	7257.4	7284.7	7293.8	7312.0	7293.8	7321.1	7371.2	7357.5	7280.2	7289.3
10°	7434.9	7444.0	7448.5	7498.6	7530.4	7535.0	7503.1	7457.6	7453.1	7557.7	7484.9
12.5°	7644.2	7621.4	7676.0	7694.2	7730.6	7771.6	7812.5	7717.0	7776.1	7780.7	7694.2
15°	7949.0	7971.8	7908.1	7908.1	7921.7	7926.3	8040.0	7994.5	7985.4	7935.4	7971.8
17.5°	8404.1	8249.4	8244.8	8181.1	8172.0	8208.4	8249.4	8285.8	8408.6	8308.5	8112.8
20°	8736.2	8772.6	8640.7	8563.3	8577.0	8658.9	8617.9	8781.7	8868.2	8704.4	8513.3
22.5°	9323.2	9200.3	9232.2	9059.3	9072.9	9159.4	9154.8	9323.2	9373.2	9113.9	8836.3
25°	9719.0	9687.2	9714.5	9578.0	9596.2	9664.4	9773.6	10051.2	9969.3	9682.6	9041.1
27.5°	10296.9	10233.2	10210.4	10160.4	10142.2	10324.2	10451.6	10747.4	10688.2	10269.6	9405.1
30°	10888.4	10847.5	10870.2	10665.5	10738.3	11125.0	11161.4	11566.4	11539.1	10802.0	9810.0
32.5°	11297.9	11320.7	11361.6	11247.9	11570.9	11880.3	12003.2	12462.8	12485.5	11716.5	10592.7
35°	11957.7	11880.3	11903.1	12035.0	12185.2	12749.4	12949.6	13254.5	13445.6	12676.6	11343.4
37.5°	12371.8	12453.7	12358.1	12567.4	12958.7	13636.7	13818.7	14132.6	14332.9	13623.0	12367.2
40°	13017.9	12885.9	12954.2	13104.3	13504.7	14387.5	14337.4	14660.5	14724.2	14428.4	13322.7
42.5°	13714.0	13650.3	13554.8	13896.0	14232.7	14874.3	14974.4	14824.3	15147.3	15215.6	14687.8
45°	14546.7	14624.1	14637.7	14646.8	14942.6	15502.2	15365.7	15233.8	15606.9	16102.8	15534.1
47.5°	15320.2	15074.5	15252.0	15497.7	15916.3	15920.8	16080.1	15766.1	16162.0	16603.4	16298.5
50°	15579.6	15461.3	15697.9	16162.0	16808.1	16876.4	16894.6	16448.7	16653.4	17003.8	16562.4
52.5°	15479.5	15438.5	16043.7	16762.6	17709.0	18054.8	18145.8	17595.3	17709.0	17549.8	17144.8
55°	15001.7	15124.6	15734.3	17199.4	18650.9	19720.2	19893.1	19196.9	18473.5	18596.3	18150.4
56°	14346.5	14132.6	14815.2	16703.5	18610.0	20261.6	20402.7	19533.6	19042.2	18883.0	18141.3
57.5°	12171.5	11894.0	12790.4	15029.0	17577.1	20056.9	20161.5	19674.7	18946.7	18623.6	16817.2
60°	7125.5	7262.0	8399.5	10365.2	13559.3	16444.1	16794.5	17149.4	16662.5	15215.6	12517.4
62.5°	3439.9	3353.4	4167.9	5942.4	8263.0	10497.1	10392.5	11388.9	11934.9	10811.1	7903.5
65°	1801.8	1792.7	2275.1	3244.2	4541.0	5514.7	5610.3	6147.2	6898.0	5569.3	4013.2
67.5°	1324.1	1360.5	1601.6	2279.6	2921.2	2980.3	2966.7	3235.1	3307.9	2798.3	2466.2
70°	1037.4	1055.6	1233.1	1733.6	2175.0	1947.4	1906.5	1938.3	2152.2	2243.2	2134.0
72.5°	750.8	769.0	919.1	1169.4	1360.5	1328.6	1355.9	1533.4	1797.3	1892.8	1779.1
75°	500.5	514.2	596.1	714.4	805.4	869.1	919.1	1123.9	1369.6	1424.2	1369.6
77.5°	345.8	359.5	414.1	505.1	514.2	555.1	573.3	668.9	819.0	887.3	850.9
80°	195.7	195.7	223.0	259.4	318.5	373.1	382.2	459.6	527.8	573.3	582.4
82.5°	91.0	95.6	118.3	159.3	209.3	259.4	268.5	318.5	368.6	414.1	427.7
85°	45.5	50.1	68.3	95.6	127.4	154.7	150.2	154.7	163.8	154.7	159.3
87.5°	13.7	13.7	18.2	22.8	18.2	22.8	22.8	27.3	31.9	36.4	41.0
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°	7166.4	7166.4	7166.4	7166.4	7166.4	7166.4	7166.4	7166.4	7166.4	7166.4	7166.4
2.5°	7207.4	7221.0	7130.0	7216.5	7184.6	7180.1	7243.8	7234.7	7257.4	7248.3	7193.7
5°	7211.9	7180.1	7275.6	7189.2	7230.1	7316.6	7257.4	7393.9	7325.7	7371.2	7271.1
7.5°	7353.0	7362.1	7343.9	7380.3	7362.1	7403.0	7371.2	7403.0	7348.4	7353.0	7444.0
10°	7475.8	7448.5	7480.4	7434.9	7466.7	7453.1	7380.3	7357.5	7375.7	7353.0	7412.1
12.5°	7703.3	7653.3	7630.5	7575.9	7539.5	7403.0	7289.3	7225.6	7312.0	7325.7	7298.4
15°	7935.4	7939.9	7835.3	7712.4	7484.9	7280.2	7307.5	7330.2	7330.2	7366.6	7298.4
17.5°	8081.0	8081.0	7985.4	7739.7	7507.7	7389.4	7362.1	7289.3	7225.6	7216.5	7211.9
20°	8335.8	8258.5	8040.0	7735.2	7498.6	7444.0	7239.2	7066.3	6934.4	6888.9	6884.3
22.5°	8627.0	8431.4	8126.5	7744.3	7484.9	7407.6	7025.4	6766.0	6529.4	6429.3	6443.0
25°	8895.5	8581.5	8176.6	7703.3	7434.9	7061.8	6634.1	6274.6	6028.9	5947.0	5906.0
27.5°	9082.0	8740.8	8176.6	7739.7	7248.3	6675.0	6238.2	5778.6	5564.8	5510.2	5519.3
30°	9332.3	8941.0	8317.6	7662.4	6875.2	6174.5	5651.2	5350.9	5223.5	5178.0	5209.9
32.5°	9919.2	9464.2	8513.3	7475.8	6433.9	5674.0	5250.8	5082.5	4895.9	4804.9	4773.1
35°	10556.3	9960.2	8704.4	7161.9	5937.9	5219.0	4955.1	4800.4	4577.4	4477.3	4495.5
37.5°	11457.2	10597.2	8718.0	6643.2	5401.0	4964.2	4723.0	4481.9	4299.9	4145.2	4099.7
40°	12672.1	11466.3	8686.2	6097.1	4968.7	4663.9	4486.4	4186.1	3981.3	3872.1	3894.9
42.5°	13741.3	12485.5	8554.2	5478.3	4577.4	4459.1	4258.9	3963.1	3762.9	3649.2	3640.1
45°	14642.3	13236.3	8304.0	4950.5	4249.8	4231.6	3999.5	3772.0	3612.8	3508.1	3553.6
47.5°	15474.9	13841.4	7926.3	4422.7	3949.5	3985.9	3762.9	3621.9	3521.8	3426.2	3421.7
50°	15775.2	13832.3	7594.1	3985.9	3708.3	3690.1	3681.0	3530.9	3426.2	3344.3	3380.7
52.5°	16275.7	13987.0	7234.7	3685.6	3489.9	3494.5	3526.3	3417.1	3298.8	3248.8	3294.3
55°	16994.7	14009.8	6443.0	3335.2	3307.9	3339.8	3339.8	3267.0	3166.9	3125.9	3103.2
56°	16407.7	13331.8	5778.6	3244.2	3216.9	3216.9	3303.4	3221.5	3098.6	3066.8	3039.5
57.5°	15133.7	11680.1	4836.8	3135.0	3094.1	3157.8	3203.3	3116.8	3003.1	2957.6	2984.9
60°	10438.0	7903.5	3635.5	2898.4	2898.4	3003.1	3039.5	2912.1	2862.0	2857.5	2821.1
62.5°	6092.6	4604.7	2843.8	2684.6	2693.7	2780.1	2807.4	2734.6	2670.9	2748.3	2784.7
65°	3230.6	2748.3	2438.9	2457.1	2461.6	2529.9	2648.2	2643.6	2639.1	2661.8	2666.4
67.5°	2338.8	2284.2	2215.9	2197.7	2206.8	2256.9	2375.2	2466.2	2461.6	2407.0	2366.1
70°	2084.0	2006.6	1965.6	1970.2	1933.8	1992.9	2088.5	2147.7	2043.0	1979.3	1952.0
72.5°	1733.6	1710.8	1683.5	1688.1	1615.3	1601.6	1492.4	1492.4	1465.1	1446.9	1478.8
75°	1324.1	1315.0	1328.6	1305.9	1228.5	1146.6	1082.9	1023.8	932.8	896.4	878.2
77.5°	837.2	864.5	896.4	846.3	814.5	755.3	691.6	632.5	559.7	518.7	518.7
80°	568.8	591.5	614.3	605.2	568.8	514.2	464.1	400.4	350.4	318.5	314.0
82.5°	432.3	450.5	482.3	445.9	409.5	364.0	323.1	277.6	232.1	195.7	195.7
85°	154.7	177.5	195.7	213.9	227.5	232.1	200.2	163.8	132.0	104.7	100.1
87.5°	41.0	45.5	50.1	45.5	45.5	45.5	50.1	45.5	41.0	31.9	31.9
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)