

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: P652080

Luminaire Tested: **GALN-SA8A-840-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652080  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-840-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31233.1 lumens  
Efficiency: N/A  
Efficacy: 128.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

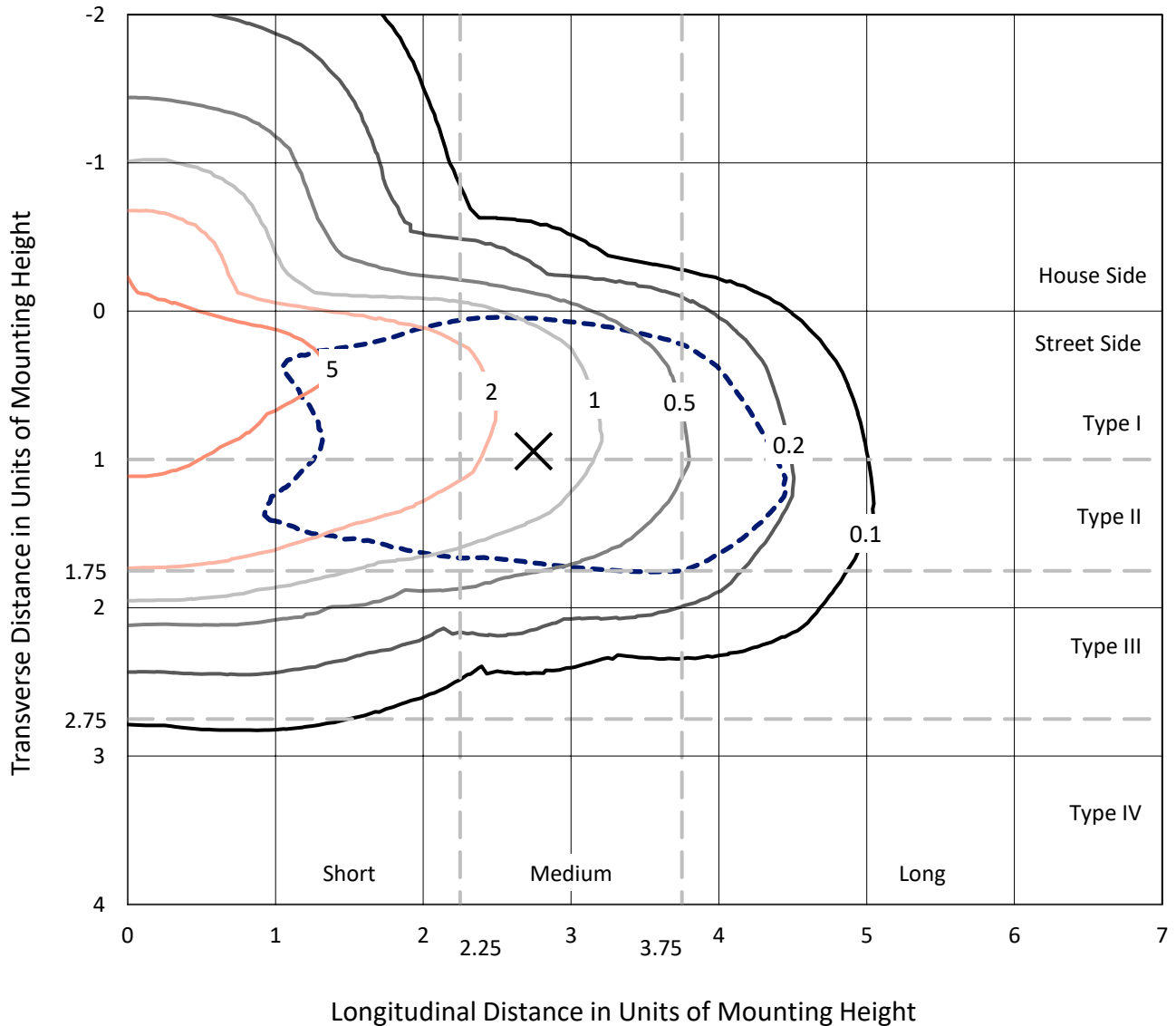
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

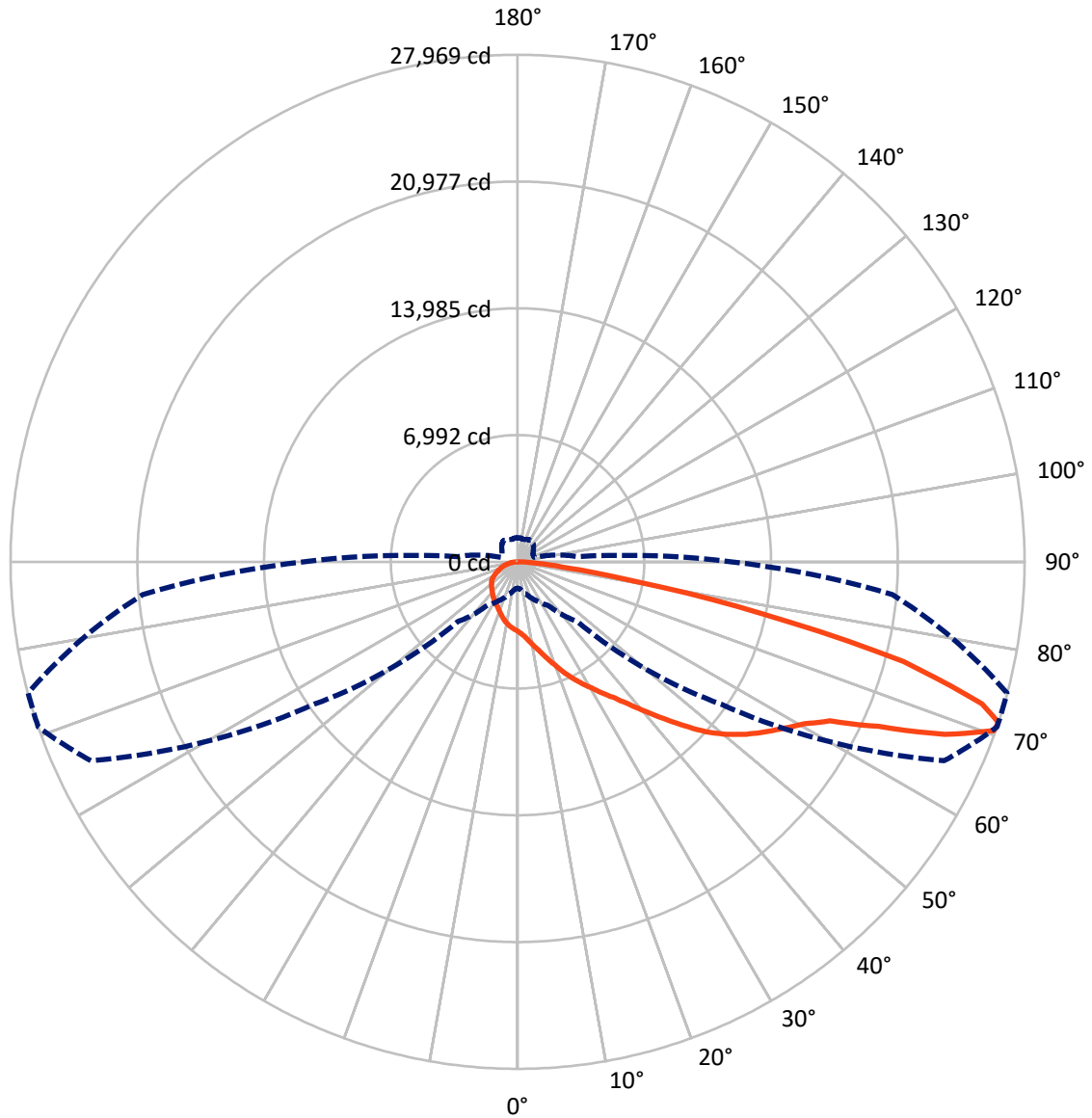
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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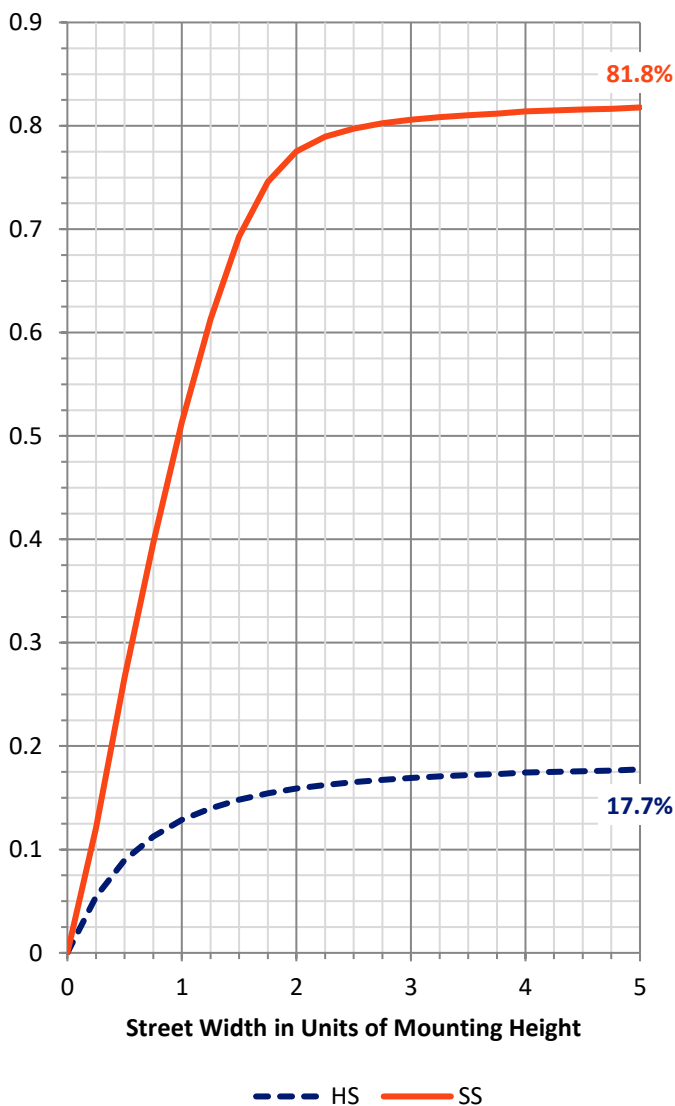
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5617.2	0.0	5617.2
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	25615.9	0.0	25615.9
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	31233.1	0.0	31233.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.9	1.2
10°-20°	1250.5	4.0
20°-30°	2185.3	7.0
30°-40°	3250.3	10.4
40°-50°	4788.9	15.3
50°-60°	6704.6	21.5
60°-70°	7498.8	24.0
70°-80°	4580.6	14.7
80°-90°	589.2	1.9
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°	31233.1	100.0
0°-180°	31233.1	100.0

**Coefficient of Utilization**

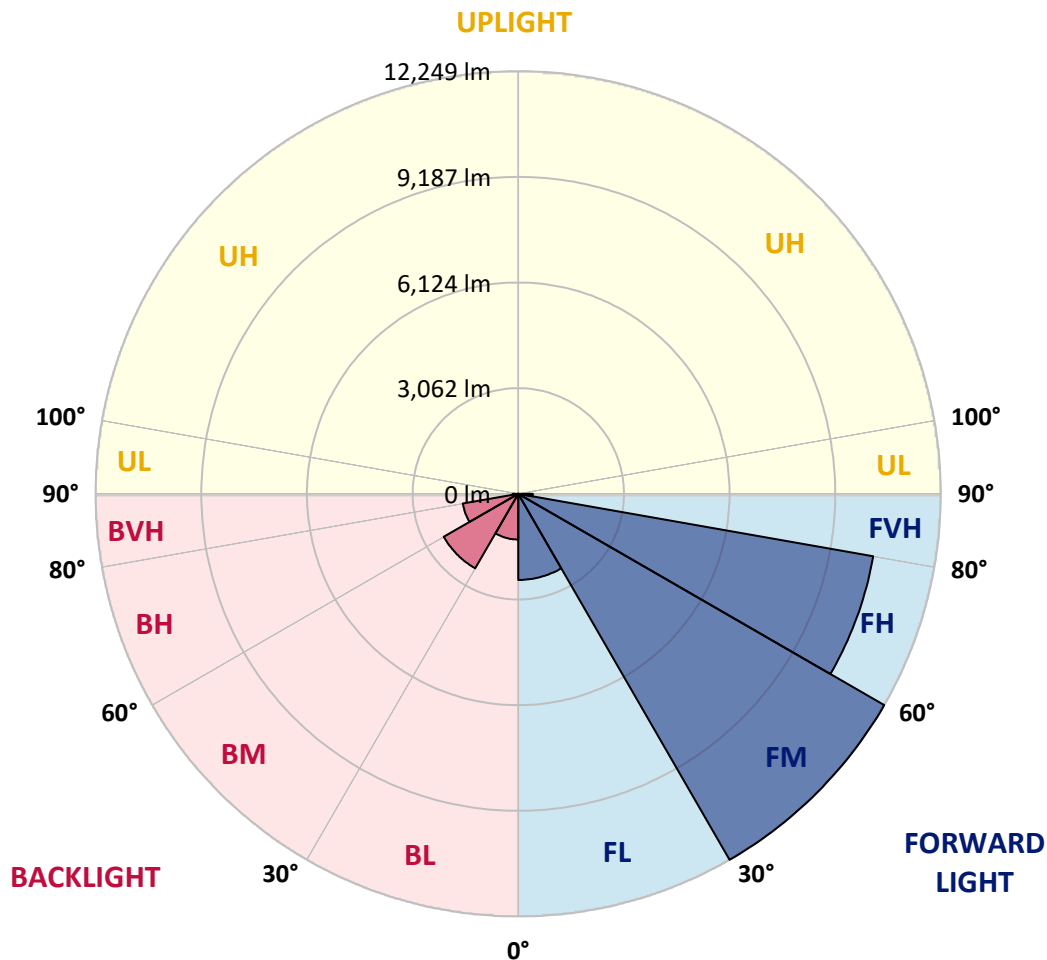


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2495.5	8.0			
FM (30°-60°)	12249.0	39.2			
FH (60°-80°)	10447.4	33.4			G4/12000
FVH (80°-90°)	424.0	1.4			G3/500
BL (0°-30°)	1325.1	4.2	B3/2500		
BM (30°-60°)	2494.8	8.0	B2/2500		
BH (60°-80°)	1632.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	165.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3
2.5°	4255.5	4234.9	4236.6	4207.4	4169.7	4128.5	4070.1	4018.6	3977.4	3953.4	3883.1
5°	4715.6	4695.0	4669.2	4605.7	4578.2	4477.0	4348.2	4231.5	4142.3	4092.5	3951.7
7.5°	5088.1	5082.9	5076.1	5040.0	4969.6	4828.9	4719.0	4516.4	4384.3	4289.9	4049.5
10°	5318.1	5326.7	5331.9	5338.8	5309.6	5235.7	5084.7	4828.9	4660.7	4540.5	4176.6
12.5°	5434.9	5443.5	5472.6	5536.1	5575.7	5567.0	5443.5	5192.8	4961.1	4803.1	4312.1
15°	5507.0	5520.7	5572.2	5656.3	5788.5	5872.6	5812.5	5580.8	5326.7	5139.6	4473.5
17.5°	5585.9	5601.4	5658.0	5778.2	5951.6	6133.5	6198.8	5999.6	5723.3	5500.1	4653.8
20°	5630.6	5651.2	5731.8	5889.8	6092.4	6356.7	6573.0	6468.3	6166.1	5919.0	4861.5
22.5°	5702.7	5719.8	5788.5	5956.7	6198.8	6530.1	6947.2	6924.9	6658.8	6339.5	5089.8
25°	5898.4	5925.9	5960.2	6061.4	6294.9	6706.9	7257.9	7412.4	7136.1	6779.0	5299.2
27.5°	6267.5	6289.8	6288.0	6301.8	6433.9	6859.7	7527.5	7894.8	7609.9	7223.6	5501.8
30°	6688.0	6696.5	6703.4	6672.6	6701.8	7015.9	7774.6	8372.0	8087.1	7680.2	5678.6
32.5°	7199.5	7216.7	7158.3	7079.4	7055.4	7247.7	7978.9	8849.3	8651.9	8143.7	5853.7
35°	7803.8	7848.5	7730.0	7591.0	7493.1	7580.7	8253.6	9336.8	9230.3	8736.0	6085.5
37.5°	8493.9	8548.8	8438.9	8166.0	8027.0	8051.0	8612.3	9939.3	9961.6	9410.6	6430.5
40°	9058.7	9130.7	9134.2	8748.0	8536.8	8564.3	9067.2	10588.2	10843.9	10244.9	6837.3
42.5°	9431.1	9501.5	9575.4	9348.8	9127.4	9283.5	9597.7	11292.0	11836.1	11257.7	7405.6
45°	9839.7	9903.3	9944.5	9841.5	9717.8	10122.9	10238.0	12040.4	12893.6	12388.9	8027.0
47.5°	10313.5	10383.9	10423.4	10325.5	10279.2	10859.4	10928.1	12739.1	14023.2	13487.6	8713.6
50°	10945.3	10998.4	10977.9	10916.1	10905.8	11424.2	11590.7	13393.2	14955.3	14670.3	9426.0
52.5°	11731.4	11795.0	11817.3	11729.8	11690.2	11827.6	12124.6	13988.9	15803.3	15686.6	10186.5
55°	12206.9	12308.3	12648.1	12785.5	12879.9	12349.5	12699.7	14646.4	16563.8	16757.8	11003.6
57.5°	11597.6	11728.0	12488.5	13175.2	14062.7	13654.1	13515.0	15332.9	17324.3	17796.3	11982.1
60°	10111.0	10140.2	11120.4	12385.5	14170.8	15331.3	15216.2	16424.7	18148.3	18843.4	13271.3
62.5°	7014.2	7075.9	8234.7	10253.5	12835.3	15935.5	18110.5	18309.6	19329.3	20410.7	15161.3
65°	3617.0	3536.2	4592.0	6444.2	9676.6	14500.4	20455.4	21775.5	21890.5	22862.1	17822.1
67.5°	2226.5	2262.5	2756.9	3762.9	5721.6	10538.4	20209.9	26010.4	25404.4	25871.3	20292.3
70°	1672.0	1716.6	2056.5	2575.0	3488.2	6025.3	16253.1	27037.0	27883.3	27763.1	21044.2
71°	1454.0	1500.3	1854.0	2343.2	2930.3	4650.4	13693.6	25962.3	27969.1	27948.5	20760.9
72.5°	1239.4	1268.6	1545.0	1984.4	2470.3	3259.9	10287.8	23284.4	26776.0	27461.0	19749.9
75°	973.3	995.7	1119.2	1514.1	1945.0	2001.6	5520.7	17456.5	21991.8	23296.5	16441.9
77.5°	793.1	808.5	872.0	1124.4	1500.3	1417.9	2896.0	11362.4	13777.7	15090.9	9685.2
80°	630.0	647.1	684.9	762.2	1124.4	1011.1	1381.9	5757.6	6655.4	6641.6	3865.8
82.5°	489.2	494.4	539.0	559.6	769.0	717.5	748.5	2437.6	2700.3	2789.5	1395.6
85°	309.0	324.5	477.2	429.2	460.0	420.6	369.1	968.2	1193.0	1175.9	557.9
87.5°	94.4	99.6	161.4	182.0	204.3	183.7	135.7	284.9	348.5	377.7	139.0
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°	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3	3833.3
2.5°	3855.6	3836.6	3769.7	3714.8	3663.3	3606.6	3558.6	3544.8	3532.9	3527.7	3526.0
5°	3891.6	3835.0	3702.8	3594.6	3508.8	3429.9	3380.1	3357.7	3335.4	3335.4	3342.3
7.5°	3943.1	3840.1	3635.8	3474.5	3366.4	3292.5	3256.4	3253.0	3258.2	3263.3	3265.0
10°	3999.8	3836.6	3538.0	3337.2	3241.0	3206.6	3208.4	3237.6	3265.0	3285.6	3289.1
12.5°	4054.7	3816.0	3423.0	3208.4	3146.6	3153.4	3201.5	3266.8	3319.9	3349.1	3350.9
15°	4116.5	3783.5	3283.9	3086.5	3065.9	3119.1	3208.4	3308.0	3388.6	3436.7	3441.9
17.5°	4168.0	3728.5	3138.0	2968.1	2993.8	3091.7	3215.2	3344.0	3441.9	3501.9	3512.3
20°	4226.4	3658.2	2987.0	2854.8	2928.6	3060.7	3201.5	3340.5	3441.9	3500.2	3514.0
22.5°	4272.7	3558.6	2842.7	2762.1	2870.2	3023.0	3155.2	3266.8	3349.1	3380.1	3400.7
25°	4291.6	3433.3	2707.1	2686.5	2823.8	2961.2	3050.5	3114.0	3139.7	3136.3	3144.8
27.5°	4281.3	3289.1	2590.4	2626.4	2765.5	2865.0	2909.7	2904.6	2858.2	2815.2	2835.9
30°	4238.4	3117.4	2492.6	2564.6	2689.9	2744.9	2738.0	2671.1	2583.6	2502.8	2508.0
32.5°	4161.1	2932.0	2401.6	2494.2	2583.6	2607.6	2561.2	2473.6	2348.3	2243.6	2228.2
35°	4095.9	2755.2	2320.9	2413.6	2477.1	2465.1	2420.5	2307.1	2193.8	2101.2	2085.7
37.5°	4085.6	2604.2	2243.6	2322.6	2358.7	2341.5	2286.6	2190.4	2149.3	2078.9	2070.3
40°	4140.5	2497.7	2164.6	2226.5	2243.6	2229.9	2169.9	2114.9	2152.6	2135.5	2135.5
42.5°	4289.9	2441.1	2094.3	2130.3	2144.0	2154.4	2111.5	2065.1	2111.5	2032.5	2006.7
45°	4526.8	2442.8	2030.8	2035.9	2077.1	2113.2	2084.0	2015.3	1991.3	1833.4	1802.4
47.5°	4875.3	2501.1	1979.3	1946.7	2020.5	2080.5	2039.3	1939.8	1833.4	1728.7	1709.8
50°	5282.1	2605.8	1933.0	1854.0	1945.0	2039.3	2008.5	1891.7	1781.8	1718.3	1706.3
52.5°	5733.5	2738.0	1876.3	1751.0	1852.2	2020.5	2015.3	1884.8	1733.8	1690.9	1680.6
55°	6291.4	2868.5	1805.9	1630.8	1769.9	2005.0	1996.4	1828.2	1723.5	1692.6	1689.1
57.5°	6940.4	3057.3	1704.6	1508.9	1675.4	1941.5	1922.6	1793.9	1689.1	1666.9	1665.1
60°	7985.8	3350.9	1560.4	1397.3	1579.3	1829.9	1854.0	1735.5	1634.2	1629.1	1627.3
62.5°	9360.8	3762.9	1411.1	1282.4	1467.7	1685.7	1754.4	1656.5	1575.9	1601.6	1605.0
65°	11259.4	4109.6	1256.5	1184.5	1344.1	1546.7	1660.0	1582.8	1510.6	1560.4	1560.4
67.5°	12497.1	4116.5	1115.8	1083.2	1218.8	1430.0	1560.4	1495.2	1426.5	1510.6	1514.1
70°	12239.6	3606.6	999.1	976.7	1096.9	1304.6	1450.6	1399.1	1320.1	1395.6	1368.1
71°	11824.2	3323.4	952.8	935.5	1048.9	1244.6	1399.1	1356.1	1277.1	1326.9	1311.5
72.5°	11161.6	2885.6	877.2	880.6	976.7	1169.0	1326.9	1282.4	1203.4	1230.8	1225.7
75°	9434.6	2520.1	750.2	765.6	839.4	1040.3	1182.8	1148.5	1067.7	1067.7	1062.6
77.5°	5898.4	1761.3	623.1	631.8	712.4	891.0	1016.3	987.1	909.8	884.1	877.2
80°	2200.7	909.8	487.5	497.8	547.6	702.1	841.2	813.7	734.7	705.5	678.1
82.5°	832.6	456.7	358.8	350.2	403.4	535.5	659.2	626.5	564.7	494.4	473.8
85°	314.1	226.6	219.8	212.9	236.9	317.6	408.6	401.7	336.5	286.7	281.6
87.5°	82.4	73.8	85.9	63.5	66.9	60.0	61.8	25.7	12.0	5.1	3.4
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)