

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: P648120

Luminaire Tested: **GALN-SA8A-835-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648120  
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-835-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29079.1 lumens  
Efficiency: N/A  
Efficacy: 119.2 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

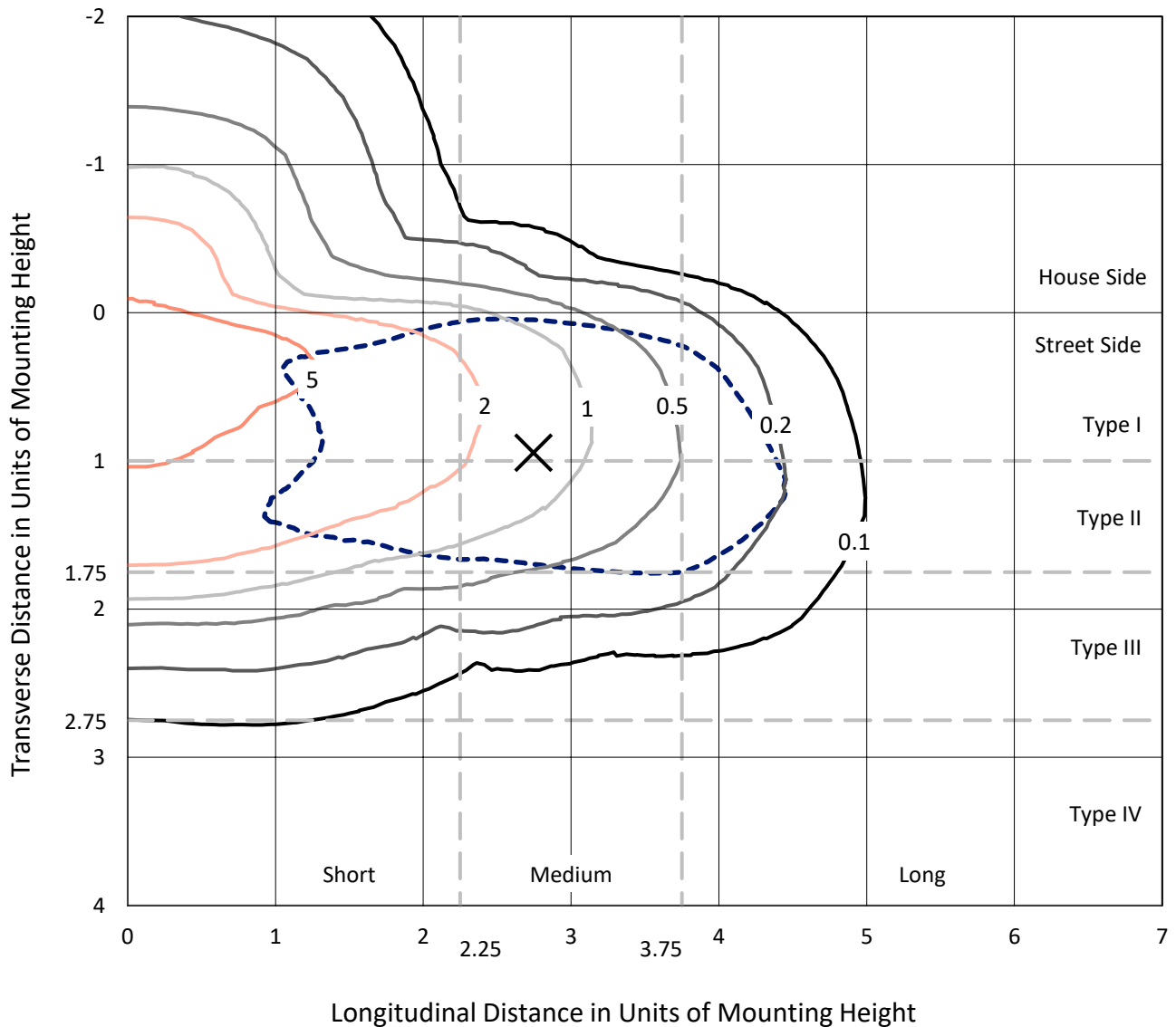
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

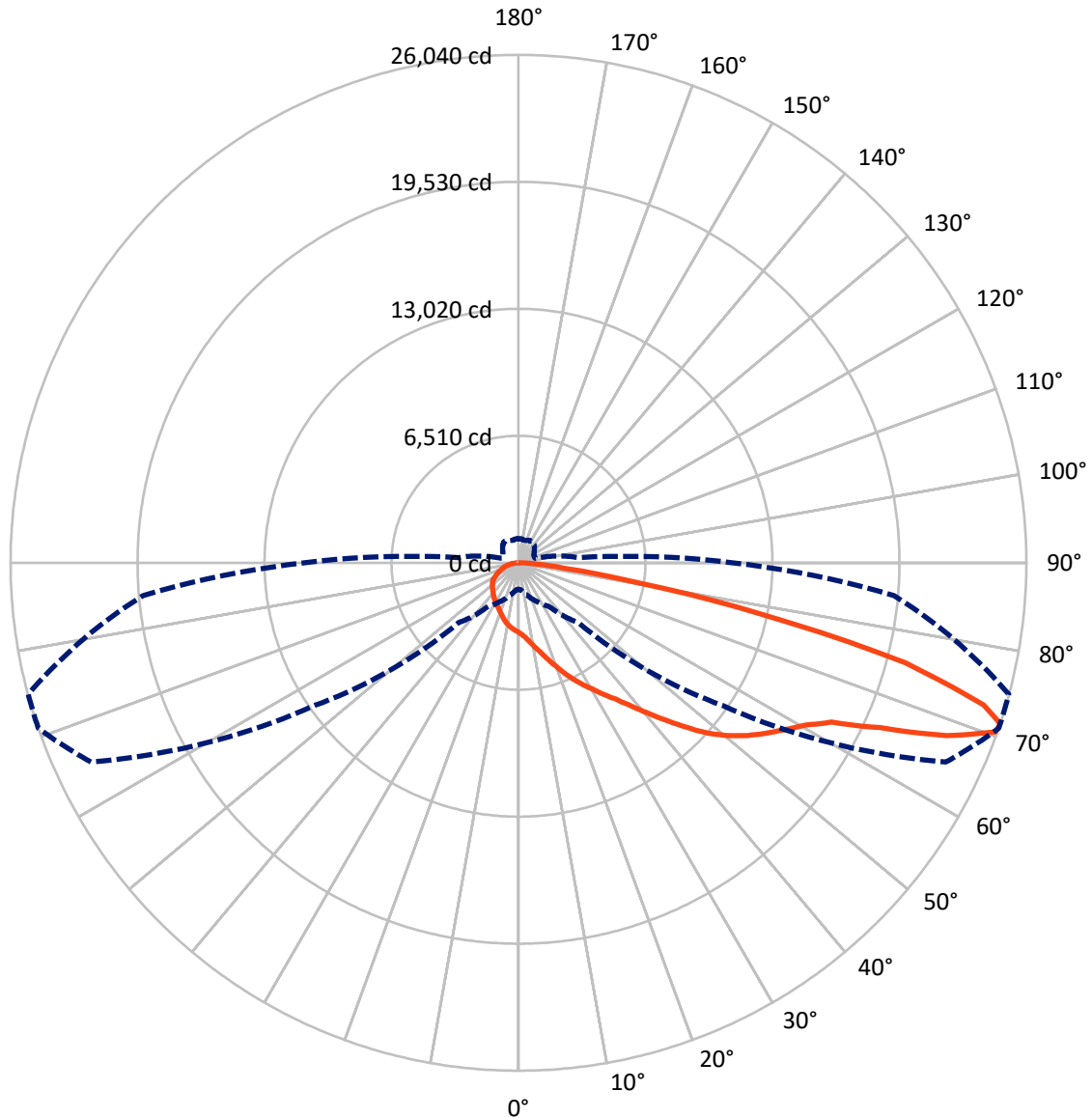
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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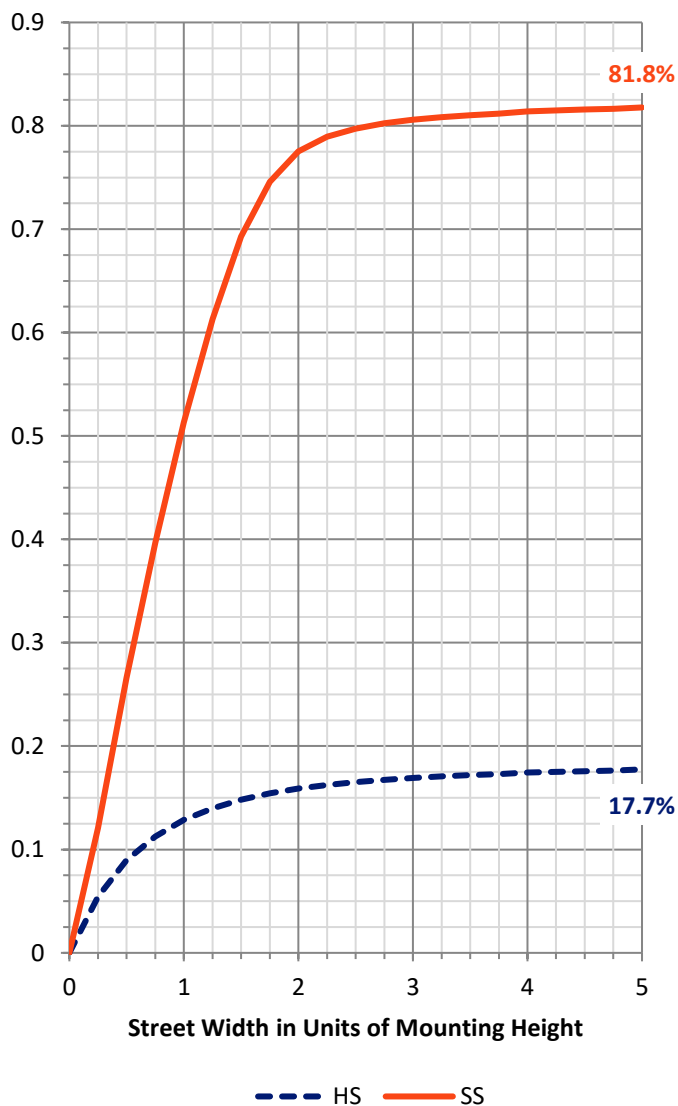
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5229.8	0.0	5229.8
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	23849.3	0.0	23849.3
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	29079.1	0.0	29079.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	358.3	1.2
10°-20°	1164.2	4.0
20°-30°	2034.6	7.0
30°-40°	3026.2	10.4
40°-50°	4458.7	15.3
50°-60°	6242.2	21.5
60°-70°	6981.7	24.0
70°-80°	4264.7	14.7
80°-90°	548.6	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°	29079.1	100.0
0°-180°	29079.1	100.0

**Coefficient of Utilization**

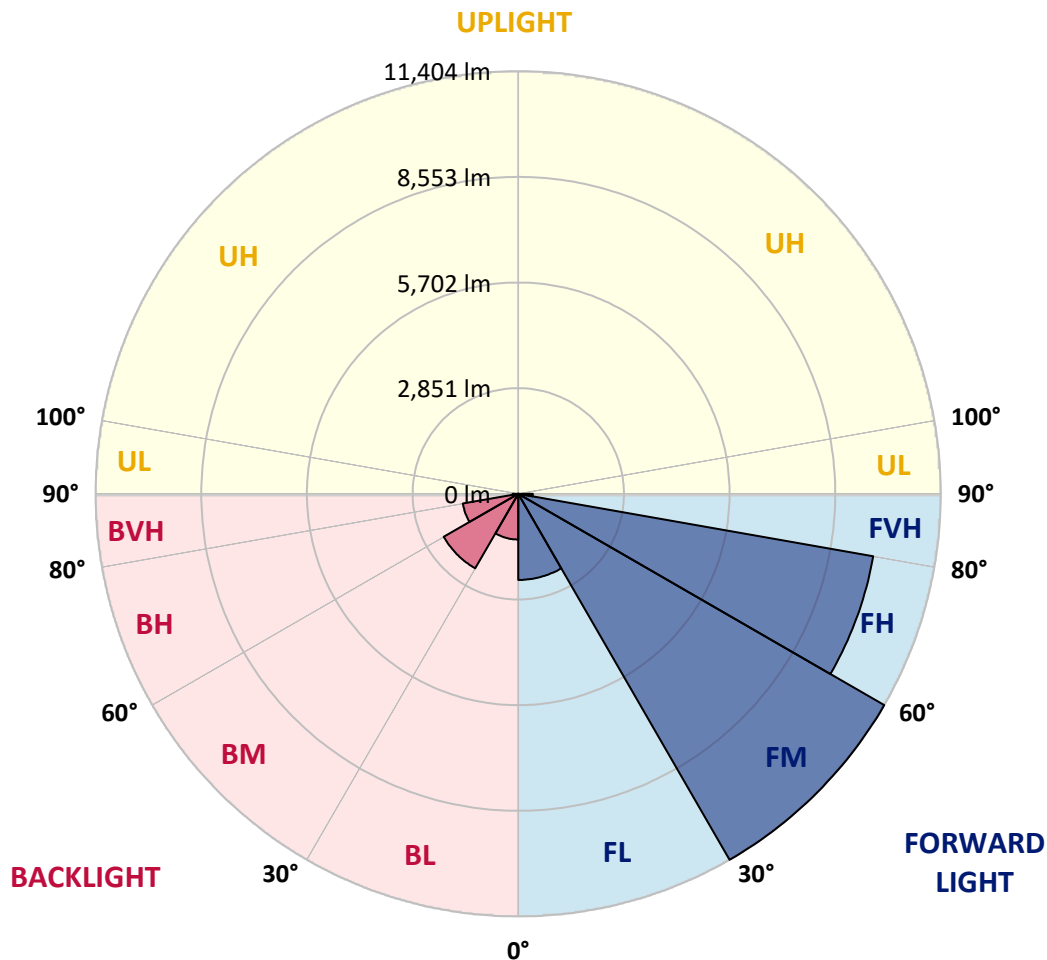


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2323.4	8.0			
FM (30°-60°)	11404.2	39.2			
FH (60°-80°)	9726.9	33.4			G4/12000
FVH (80°-90°)	394.7	1.4			G3/500
BL (0°-30°)	1233.7	4.2	B3/2500		
BM (30°-60°)	2322.8	8.0	B2/2500		
BH (60°-80°)	1519.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	153.9	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°	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9
2.5°	3962.1	3942.9	3944.4	3917.3	3882.1	3843.7	3789.4	3741.5	3703.1	3680.7	3615.3
5°	4390.4	4371.2	4347.2	4288.1	4262.5	4168.2	4048.3	3939.7	3856.6	3810.2	3679.2
7.5°	4737.2	4732.4	4726.0	4692.4	4626.9	4495.8	4393.6	4204.9	4081.9	3994.0	3770.2
10°	4951.4	4959.4	4964.1	4970.6	4943.4	4874.6	4734.0	4495.8	4339.2	4227.3	3888.5
12.5°	5060.1	5068.0	5095.2	5154.3	5191.1	5183.1	5068.0	4834.7	4618.9	4471.9	4014.8
15°	5127.2	5139.9	5187.9	5266.2	5389.3	5467.6	5411.6	5195.9	4959.4	4785.1	4165.0
17.5°	5200.7	5215.1	5267.8	5379.7	5541.1	5710.5	5771.3	5585.8	5328.5	5120.7	4332.8
20°	5242.3	5261.4	5336.5	5483.6	5672.2	5918.3	6119.7	6022.2	5740.9	5510.8	4526.2
22.5°	5309.4	5325.3	5389.3	5545.9	5771.3	6079.8	6468.1	6447.3	6199.6	5902.3	4738.8
25°	5491.6	5517.2	5549.1	5643.4	5860.8	6244.3	6757.4	6901.2	6643.9	6311.4	4933.8
27.5°	5835.2	5856.0	5854.3	5867.2	5990.2	6386.6	7008.3	7350.3	7085.1	6725.4	5122.4
30°	6226.7	6234.7	6241.1	6212.4	6239.6	6532.0	7238.4	7794.6	7529.3	7150.5	5287.0
32.5°	6703.0	6719.0	6664.7	6591.1	6568.8	6747.8	7428.6	8239.0	8055.2	7582.1	5450.0
35°	7265.6	7307.2	7196.9	7067.4	6976.4	7057.9	7684.4	8692.9	8593.7	8133.5	5665.8
37.5°	7908.1	7959.3	7856.9	7602.9	7473.4	7495.7	8018.4	9253.8	9274.6	8761.6	5987.1
40°	8433.9	8501.0	8504.2	8144.7	7948.1	7973.7	8441.9	9858.0	10096.1	9538.3	6365.8
42.5°	8780.7	8846.3	8915.0	8704.1	8497.9	8643.3	8935.8	10513.3	11019.9	10481.3	6894.9
45°	9161.1	9220.3	9258.7	9162.7	9047.6	9424.8	9531.9	11210.1	12004.4	11534.5	7473.4
47.5°	9602.2	9667.8	9704.6	9613.4	9570.3	10110.5	10174.5	11860.6	13056.1	12557.4	8112.7
50°	10190.4	10239.9	10220.8	10163.3	10153.6	10636.4	10791.4	12469.5	13923.9	13658.6	8775.9
52.5°	10922.4	10981.6	11002.3	10920.8	10884.0	11011.9	11288.4	13024.1	14713.4	14604.8	9484.0
55°	11365.1	11459.4	11775.9	11903.7	11991.6	11497.8	11823.8	13636.3	15421.5	15602.1	10244.8
57.5°	10797.7	10919.2	11627.2	12266.6	13092.9	12712.5	12583.0	14275.5	16129.5	16569.0	11155.7
60°	9413.7	9440.9	10353.5	11531.3	13193.5	14273.9	14166.8	15292.0	16896.7	17543.9	12356.1
62.5°	6530.5	6587.9	7666.7	9546.3	11950.1	14836.5	16861.5	17046.8	17996.2	19003.1	14115.7
65°	3367.5	3292.4	4275.3	5999.8	9009.3	13500.4	19044.7	20273.7	20380.8	21285.4	16592.9
67.5°	2072.9	2106.5	2566.8	3503.4	5327.0	9811.6	18816.1	24216.6	23652.4	24087.1	18892.9
70°	1556.7	1598.3	1914.7	2397.4	3247.6	5609.8	15132.2	25172.4	25960.3	25848.4	19592.9
71°	1353.7	1396.9	1726.1	2181.6	2728.2	4329.7	12749.2	24171.8	26040.2	26021.0	19329.1
72.5°	1153.9	1181.1	1438.4	1847.6	2299.9	3035.1	9578.3	21678.6	24929.4	25567.1	18387.8
75°	906.2	927.0	1042.0	1409.6	1810.8	1863.5	5139.9	16252.6	20475.1	21689.8	15308.0
77.5°	738.4	752.8	811.9	1046.9	1396.9	1320.1	2696.3	10578.8	12827.5	14050.2	9017.3
80°	586.5	602.5	637.7	709.6	1046.9	941.4	1286.6	5360.5	6196.4	6183.6	3599.2
82.5°	455.5	460.3	501.8	521.0	716.0	668.1	696.9	2269.5	2514.1	2597.1	1299.4
85°	287.7	302.1	444.3	399.6	428.3	391.6	343.7	901.4	1110.8	1094.8	519.4
87.5°	87.9	92.7	150.3	169.4	190.2	171.0	126.3	265.3	324.5	351.6	129.4
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°	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9
2.5°	3589.7	3572.0	3509.7	3458.6	3410.7	3357.9	3313.2	3300.3	3289.2	3284.4	3282.8
5°	3623.3	3570.5	3447.4	3346.7	3266.8	3193.3	3147.0	3126.1	3105.4	3105.4	3111.8
7.5°	3671.2	3575.3	3385.1	3234.9	3134.2	3065.4	3031.9	3028.6	3033.5	3038.3	3039.8
10°	3723.9	3572.0	3294.0	3107.0	3017.4	2985.5	2987.1	3014.3	3039.8	3059.0	3062.2
12.5°	3775.1	3552.9	3186.9	2987.1	2929.6	2935.9	2980.7	3041.5	3091.0	3118.1	3119.8
15°	3832.6	3522.6	3057.5	2873.6	2854.4	2904.0	2987.1	3079.9	3154.9	3199.7	3204.5
17.5°	3880.5	3471.4	2921.6	2763.4	2787.3	2878.5	2993.5	3113.4	3204.5	3260.4	3270.0
20°	3934.9	3405.9	2781.0	2657.9	2726.6	2849.7	2980.7	3110.2	3204.5	3258.8	3271.6
22.5°	3978.0	3313.2	2646.7	2571.6	2672.3	2814.5	2937.6	3041.5	3118.1	3147.0	3166.1
25°	3995.6	3196.5	2520.4	2501.2	2629.1	2756.9	2840.1	2899.2	2923.2	2920.0	2928.0
27.5°	3986.0	3062.2	2411.7	2445.3	2574.7	2667.4	2709.0	2704.2	2661.1	2621.1	2640.3
30°	3946.1	2902.4	2320.7	2387.8	2504.4	2555.6	2549.2	2486.9	2405.4	2330.2	2335.1
32.5°	3874.1	2729.8	2235.9	2322.2	2405.4	2427.8	2384.5	2303.0	2186.4	2088.9	2074.6
35°	3813.4	2565.2	2160.8	2247.1	2306.2	2295.1	2253.6	2148.0	2042.5	1956.2	1941.8
37.5°	3803.8	2424.6	2088.9	2162.4	2196.0	2180.0	2128.9	2039.3	2001.0	1935.5	1927.5
40°	3854.9	2325.4	2015.4	2072.9	2088.9	2076.1	2020.2	1969.0	2004.2	1988.2	1988.2
42.5°	3994.0	2272.7	1949.8	1983.4	1996.2	2005.8	1965.9	1922.7	1965.9	1892.4	1868.3
45°	4214.6	2274.3	1890.7	1895.5	1933.9	1967.4	1940.3	1876.3	1854.0	1706.9	1678.1
47.5°	4539.1	2328.6	1842.8	1812.4	1881.2	1937.1	1898.7	1806.0	1706.9	1609.5	1591.8
50°	4917.8	2426.1	1799.6	1726.1	1810.8	1898.7	1870.0	1761.3	1658.9	1599.8	1588.6
52.5°	5338.1	2549.2	1746.9	1630.2	1724.5	1881.2	1876.3	1754.9	1614.2	1574.3	1564.7
55°	5857.5	2670.7	1681.3	1518.3	1647.8	1866.8	1858.8	1702.2	1604.6	1575.9	1572.7
57.5°	6461.7	2846.4	1587.1	1404.9	1559.9	1807.6	1790.0	1670.1	1572.7	1551.9	1550.3
60°	7435.1	3119.8	1452.8	1301.0	1470.4	1703.7	1726.1	1615.8	1521.5	1516.7	1515.1
62.5°	8715.3	3503.4	1313.8	1193.9	1366.5	1569.4	1633.4	1542.3	1467.2	1491.1	1494.4
65°	10482.9	3826.2	1169.9	1102.8	1251.4	1440.0	1545.5	1473.6	1406.4	1452.8	1452.8
67.5°	11635.2	3832.6	1038.9	1008.5	1134.7	1331.3	1452.8	1392.1	1328.1	1406.4	1409.6
70°	11395.5	3357.9	930.2	909.4	1021.3	1214.7	1350.5	1302.6	1229.1	1299.4	1273.8
71°	11008.7	3094.2	887.1	871.0	976.6	1158.8	1302.6	1262.6	1189.1	1235.4	1221.1
72.5°	10391.8	2686.6	816.7	819.9	909.4	1088.4	1235.4	1193.9	1120.4	1145.9	1141.1
75°	8783.9	2346.3	698.4	712.8	781.5	968.6	1101.2	1069.3	994.1	994.1	989.3
77.5°	5491.6	1639.8	580.1	588.2	663.3	829.5	946.2	919.0	847.0	823.1	816.7
80°	2049.0	847.0	453.9	463.5	509.8	653.6	783.2	757.6	684.0	656.9	631.3
82.5°	775.2	425.2	334.0	326.0	375.6	498.6	613.7	583.3	525.8	460.3	441.1
85°	292.5	210.9	204.6	198.2	220.6	295.7	380.4	374.0	313.3	266.9	262.1
87.5°	76.7	68.7	79.9	59.1	62.3	55.9	57.6	24.0	11.2	4.8	3.2
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)