

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: P648615

Luminaire Tested: **GALN-SA8B-835-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648615  
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-SA8B-835-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36182.4 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

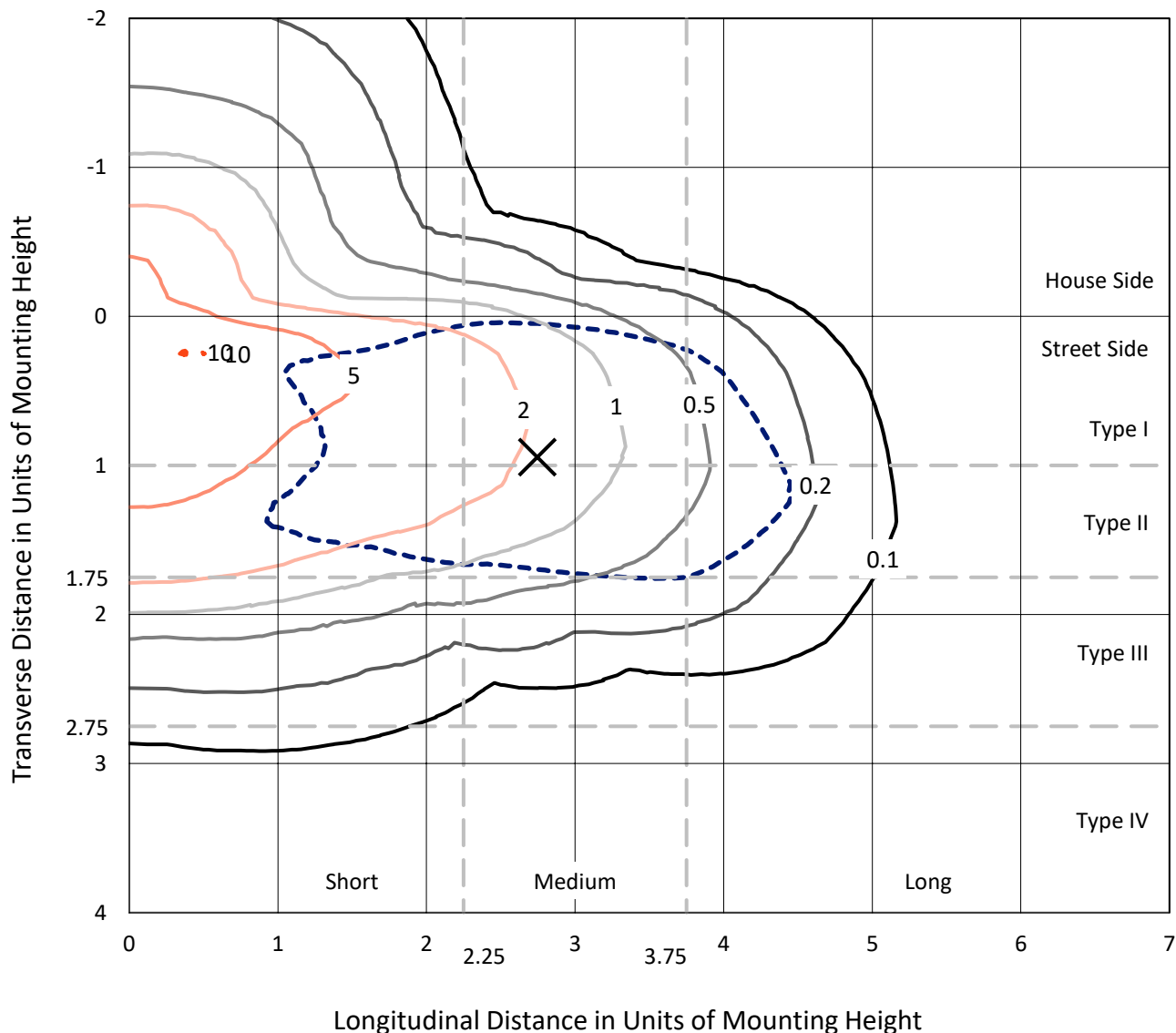
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

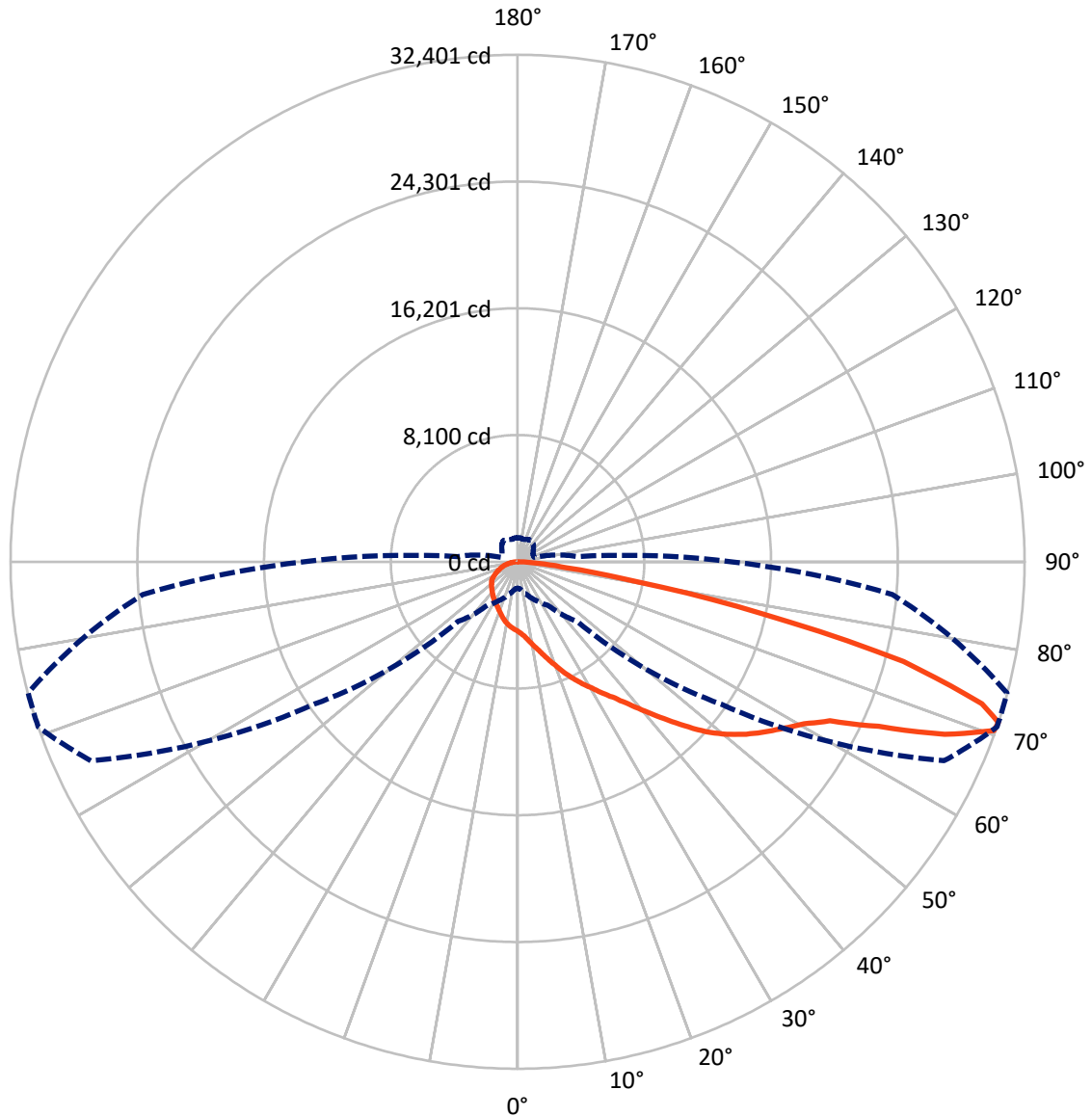
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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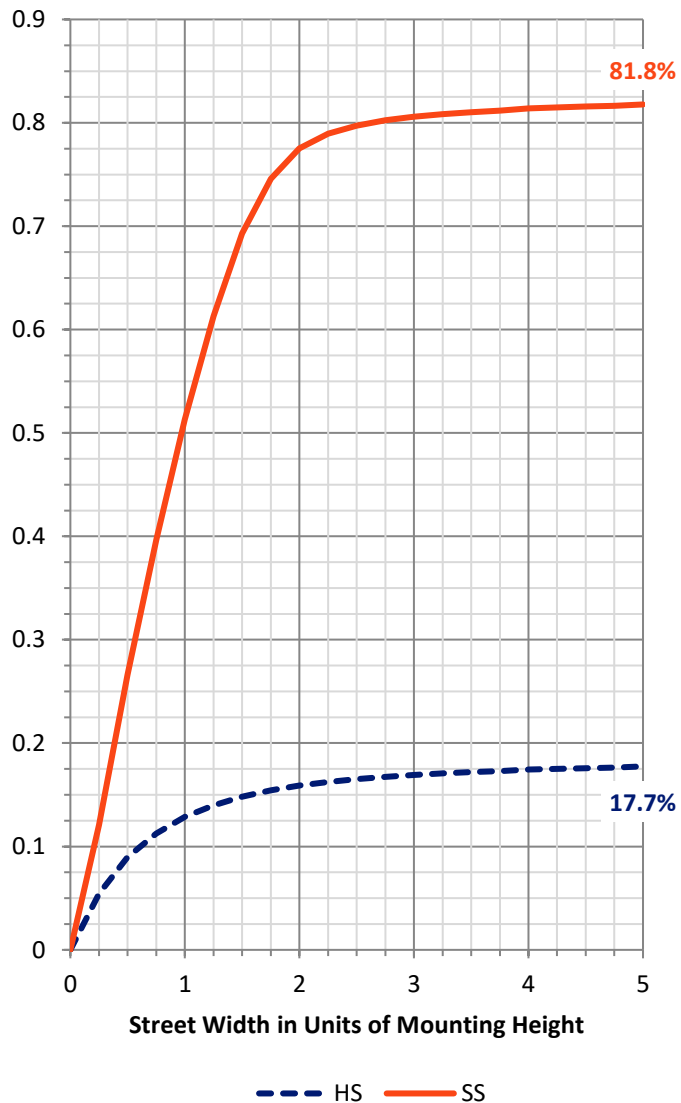
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6507.3	0.0	6507.3
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	29675.1	0.0	29675.1
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	36182.4	0.0	36182.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	445.9	1.2
10°-20°	1448.6	4.0
20°-30°	2531.6	7.0
30°-40°	3765.4	10.4
40°-50°	5547.8	15.3
50°-60°	7767.0	21.5
60°-70°	8687.1	24.0
70°-80°	5306.4	14.7
80°-90°	682.6	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°	36182.4	100.0
0°-180°	36182.4	100.0

**Coefficient of Utilization**

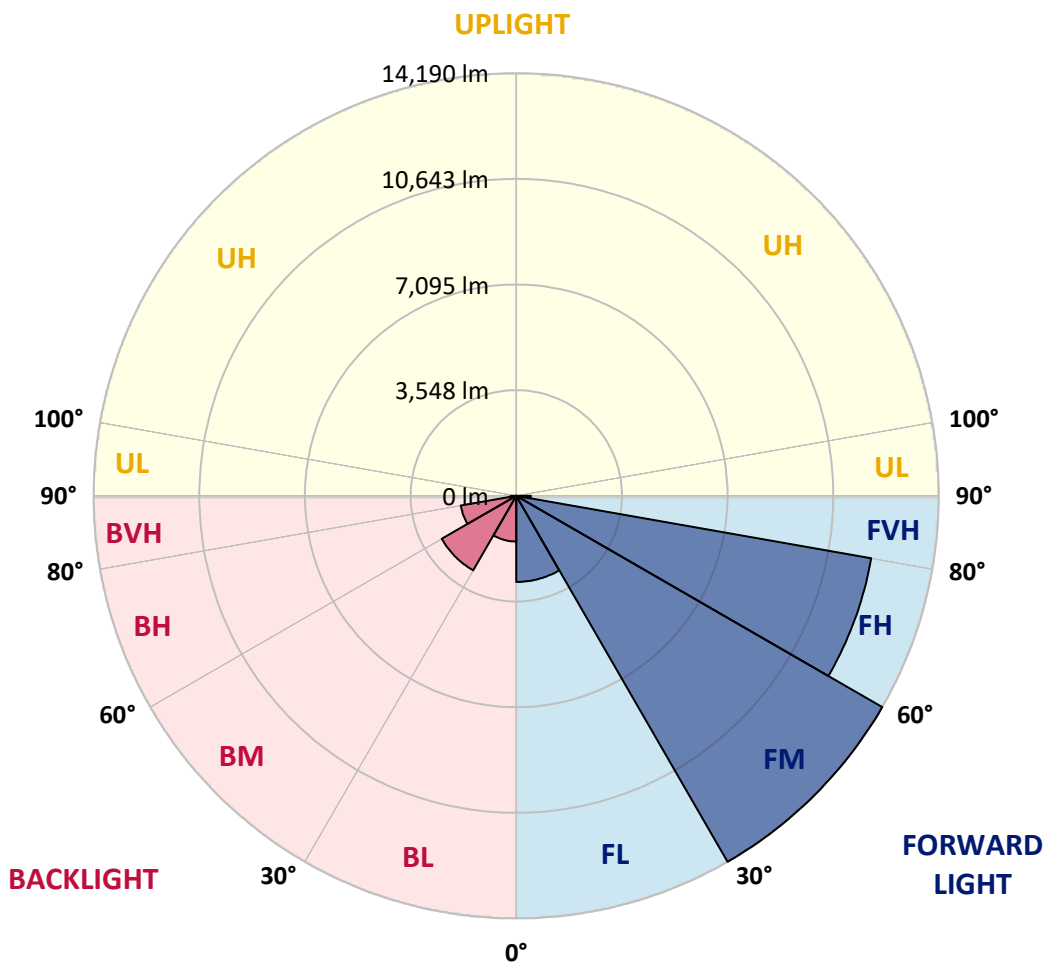


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2891.0	8.0			
FM (30°-60°)	14190.0	39.2			
FH (60°-80°)	12102.9	33.4			G5
FVH (80°-90°)	491.2	1.4			G3/500
BL (0°-30°)	1535.1	4.2	B3/2500		
BM (30°-60°)	2890.2	8.0	B3/5000		
BH (60°-80°)	1890.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	191.4	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-G5**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4440.7	4440.7	4440.7	4440.7	4440.7	4440.7	4440.7	4440.7	4440.7	4440.7	4440.7
2.5°	4929.9	4906.0	4908.0	4874.2	4830.5	4782.7	4715.1	4655.5	4607.7	4579.9	4498.3
5°	5462.8	5439.0	5409.1	5335.6	5303.7	5186.4	5037.3	4902.0	4798.6	4741.0	4577.9
7.5°	5894.4	5888.4	5880.5	5838.7	5757.2	5594.1	5466.8	5232.2	5079.0	4969.7	4691.3
10°	6160.9	6170.8	6176.8	6184.8	6150.9	6065.4	5890.4	5594.1	5399.2	5260.0	4838.4
12.5°	6296.1	6306.0	6339.9	6413.4	6459.2	6449.3	6306.0	6015.7	5747.2	5564.3	4995.5
15°	6379.6	6395.5	6455.2	6552.6	6705.8	6803.2	6733.6	6465.2	6170.8	5954.1	5182.4
17.5°	6471.1	6489.0	6554.6	6693.9	6894.7	7105.5	7181.0	6950.4	6630.2	6371.7	5391.3
20°	6522.8	6546.7	6640.2	6823.1	7057.7	7364.0	7614.6	7493.3	7143.2	6856.9	5631.9
22.5°	6606.3	6626.2	6705.8	6900.7	7181.0	7564.9	8048.1	8022.2	7714.0	7344.1	5896.4
25°	6833.0	6864.9	6904.7	7021.9	7292.4	7769.7	8408.1	8587.0	8266.8	7853.3	6139.0
27.5°	7260.6	7286.4	7284.5	7300.4	7453.5	7946.7	8720.3	9145.8	8815.7	8368.3	6373.6
30°	7747.8	7757.7	7765.7	7729.9	7763.8	8127.6	9006.6	9698.7	9368.6	8897.3	6578.5
32.5°	8340.4	8360.3	8292.8	8201.2	8173.4	8396.1	9243.3	10251.6	10022.9	9434.2	6781.3
35°	9040.4	9092.2	8954.9	8793.9	8680.5	8781.9	9561.4	10816.4	10693.0	10120.3	7049.8
37.5°	9839.9	9903.5	9776.2	9460.0	9299.0	9326.8	9977.1	11514.3	11540.2	10901.9	7449.5
40°	10494.2	10577.7	10581.7	10134.2	9889.6	9921.4	10504.1	12266.1	12562.4	11868.3	7920.8
42.5°	10925.7	11007.3	11092.8	10830.2	10573.7	10754.7	11118.6	13081.4	13711.8	13041.6	8579.1
45°	11399.0	11472.6	11520.3	11401.0	11257.8	11727.1	11860.3	13948.4	14936.8	14352.2	9299.0
47.5°	11947.9	12029.4	12075.1	11961.8	11908.1	12580.3	12659.8	14757.8	16245.4	15624.9	10094.4
50°	12679.7	12741.4	12717.5	12645.9	12633.9	13234.5	13427.4	15515.5	17325.2	16995.1	10919.7
52.5°	13590.5	13664.1	13690.0	13588.5	13542.8	13701.9	14045.9	16205.6	18307.6	18172.4	11800.7
55°	14141.4	14258.7	14652.4	14811.5	14920.9	14306.4	14712.1	16967.2	19188.6	19413.3	12747.3
57.5°	13435.4	13586.5	14467.5	15262.9	16291.1	15817.8	15656.7	17762.7	20069.5	20616.5	13880.9
60°	11713.2	11747.0	12882.5	14348.2	16416.4	17760.7	17627.5	19027.5	21024.1	21829.5	15374.4
62.5°	8125.7	8197.2	9539.6	11878.3	14869.2	18460.7	20980.4	21211.1	22392.3	23645.2	17563.9
65°	4190.1	4096.7	5319.7	7465.4	11210.1	16798.2	23696.9	25226.1	25359.4	26485.0	20646.3
67.5°	2579.3	2621.1	3193.8	4359.1	6628.2	12208.4	23412.5	30132.2	29430.2	29971.1	23507.9
70°	1937.0	1988.7	2382.4	2983.0	4041.0	6980.2	18828.6	31321.4	32301.8	32162.6	24379.0
71°	1684.4	1738.1	2147.8	2714.5	3394.6	5387.3	15863.6	30076.5	32401.2	32377.4	24050.9
72.5°	1435.8	1469.6	1789.8	2298.9	2861.7	3776.5	11918.0	26974.2	31019.1	31812.6	22879.6
75°	1127.6	1153.4	1296.6	1754.0	2253.2	2318.8	6395.5	20222.7	25476.7	26988.1	19047.4
77.5°	918.8	936.6	1010.2	1302.6	1738.1	1642.7	3354.8	13162.9	15961.0	17482.4	11220.0
80°	729.8	749.7	793.5	883.0	1302.6	1171.3	1600.8	6670.0	7710.0	7694.1	4478.4
82.5°	566.7	572.8	624.4	648.3	890.9	831.2	867.1	2823.9	3128.2	3231.6	1616.8
85°	358.0	375.8	552.9	497.1	533.0	487.3	427.6	1121.6	1382.2	1362.3	646.3
87.5°	109.4	115.3	186.9	210.8	236.6	212.8	157.1	330.1	403.7	437.5	161.1
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°	4440.7	4440.7	4440.7	4440.7	4440.7	4440.7	4440.7	4440.7	4440.7	4440.7	4440.7
2.5°	4466.5	4444.6	4367.1	4303.4	4243.8	4178.2	4122.5	4106.6	4092.7	4086.7	4084.7
5°	4508.3	4442.7	4289.5	4164.2	4064.8	3973.3	3915.7	3889.8	3863.9	3863.9	3871.9
7.5°	4567.9	4448.6	4212.0	4025.0	3899.7	3814.2	3772.5	3768.5	3774.5	3780.5	3782.4
10°	4633.6	4444.6	4098.6	3866.0	3754.6	3714.8	3716.8	3750.6	3782.4	3806.3	3810.3
12.5°	4697.2	4420.8	3965.4	3716.8	3645.2	3653.2	3708.8	3784.4	3846.1	3879.8	3881.9
15°	4768.8	4383.0	3804.3	3575.6	3551.8	3613.4	3716.8	3832.2	3925.6	3981.3	3987.3
17.5°	4828.4	4319.3	3635.2	3438.4	3468.2	3581.6	3724.7	3873.9	3987.3	4056.9	4068.8
20°	4896.1	4237.8	3460.2	3307.2	3392.7	3545.8	3708.8	3869.9	3987.3	4054.8	4070.8
22.5°	4949.8	4122.5	3293.2	3199.7	3325.0	3502.0	3655.1	3784.4	3879.8	3915.7	3939.5
25°	4971.7	3977.3	3136.1	3112.3	3271.4	3430.4	3533.8	3607.4	3637.3	3633.3	3643.2
27.5°	4959.8	3810.3	3000.9	3042.7	3203.7	3319.1	3370.8	3364.8	3311.2	3261.4	3285.2
30°	4910.0	3611.4	2887.5	2971.1	3116.3	3179.8	3171.9	3094.3	2992.9	2899.4	2905.4
32.5°	4820.5	3396.7	2782.2	2889.5	2992.9	3020.8	2967.1	2865.6	2720.5	2599.2	2581.3
35°	4745.0	3191.8	2688.7	2796.1	2869.6	2855.7	2804.0	2672.8	2541.5	2434.1	2416.3
37.5°	4733.0	3016.8	2599.2	2690.6	2732.4	2712.5	2648.9	2537.5	2489.8	2408.3	2398.3
40°	4796.7	2893.5	2507.7	2579.3	2599.2	2583.3	2513.7	2450.0	2493.8	2473.9	2473.9
42.5°	4969.7	2827.9	2426.2	2467.9	2483.8	2495.7	2446.0	2392.4	2446.0	2354.6	2324.7
45°	5244.1	2829.8	2352.6	2358.6	2406.3	2448.0	2414.2	2334.7	2306.9	2123.9	2088.1
47.5°	5647.8	2897.5	2292.9	2255.1	2340.6	2410.2	2362.5	2247.2	2123.9	2002.6	1980.7
50°	6119.1	3018.8	2239.2	2147.8	2253.2	2362.5	2326.8	2191.5	2064.2	1990.6	1976.8
52.5°	6642.1	3171.9	2173.6	2028.4	2145.7	2340.6	2334.7	2183.6	2008.6	1958.8	1946.9
55°	7288.5	3323.1	2092.1	1889.2	2050.3	2322.8	2312.8	2117.9	1996.6	1960.8	1956.9
57.5°	8040.2	3541.8	1974.7	1748.0	1940.9	2249.2	2227.3	2078.2	1956.9	1931.0	1929.0
60°	9251.2	3881.9	1807.7	1618.8	1829.6	2119.9	2147.8	2010.5	1893.2	1887.3	1885.2
62.5°	10844.2	4359.1	1634.7	1485.5	1700.3	1952.9	2032.4	1919.1	1825.6	1855.4	1859.4
65°	13043.6	4760.9	1455.7	1372.2	1557.2	1791.8	1923.0	1833.6	1750.0	1807.7	1807.7
67.5°	14477.4	4768.8	1292.7	1254.8	1412.0	1656.6	1807.7	1732.2	1652.6	1750.0	1754.0
70°	14179.2	4178.2	1157.4	1131.5	1270.7	1511.3	1680.4	1620.7	1529.3	1616.8	1584.9
71°	13697.9	3850.0	1103.7	1083.8	1215.1	1441.8	1620.7	1571.0	1479.6	1537.3	1519.3
72.5°	12930.3	3342.9	1016.2	1020.2	1131.5	1354.3	1537.3	1485.5	1394.1	1425.8	1419.9
75°	10929.7	2919.3	869.1	886.9	972.5	1205.1	1370.2	1330.4	1237.0	1237.0	1231.0
77.5°	6833.0	2040.3	721.8	731.8	825.3	1032.2	1177.3	1143.5	1054.0	1024.2	1016.2
80°	2549.4	1054.0	564.8	576.7	634.4	813.4	974.4	942.7	851.1	817.4	785.5
82.5°	964.5	529.0	415.6	405.7	467.4	620.4	763.7	725.8	654.3	572.8	548.9
85°	363.9	262.5	254.6	246.6	274.4	367.9	473.3	465.3	389.8	332.1	326.1
87.5°	95.4	85.5	99.4	73.6	77.6	69.6	71.6	29.8	13.9	6.0	4.0
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)