

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: P647276

Luminaire Tested: **GALN-SA2D-835-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647276  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-835-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12073.1 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

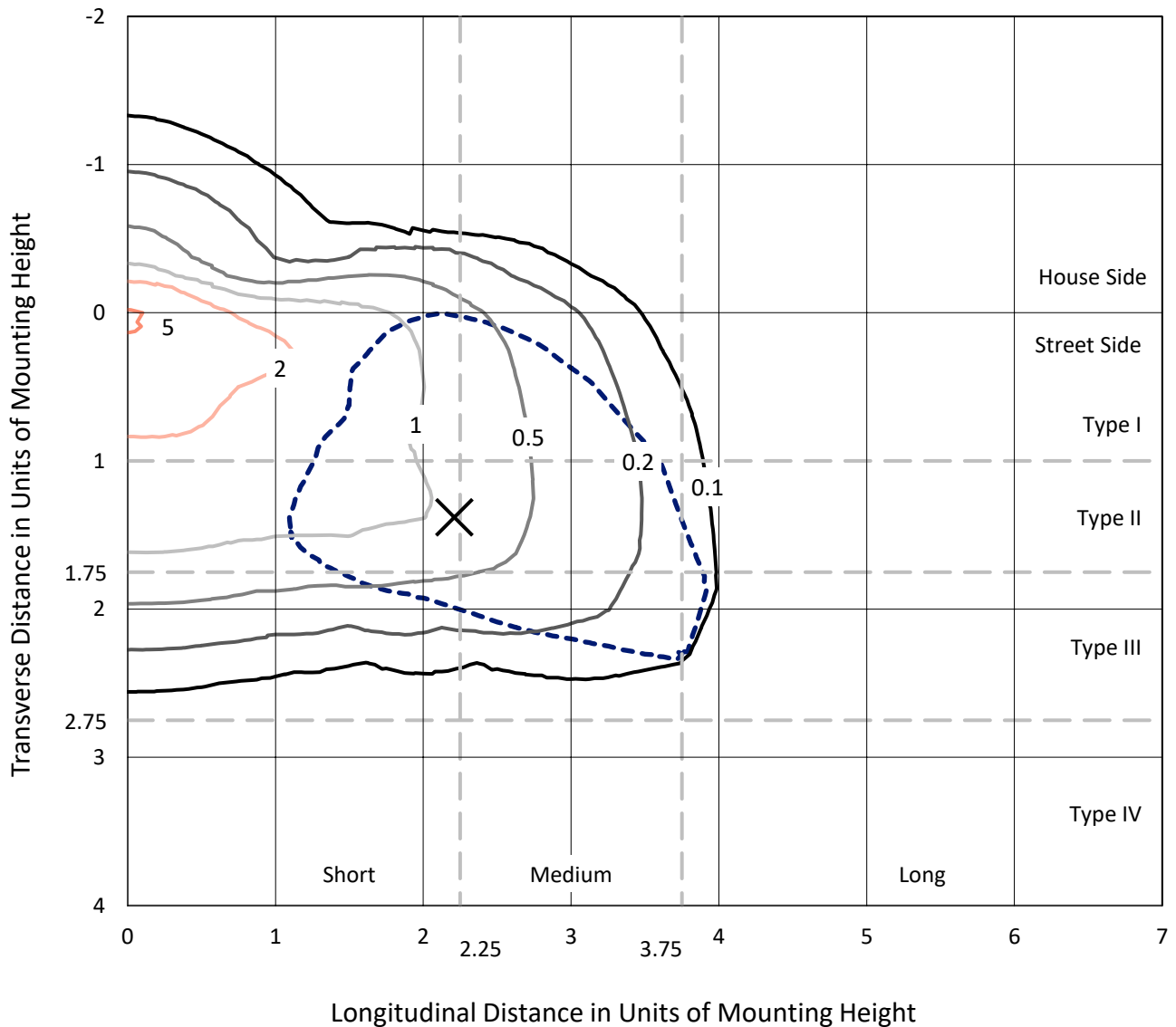
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

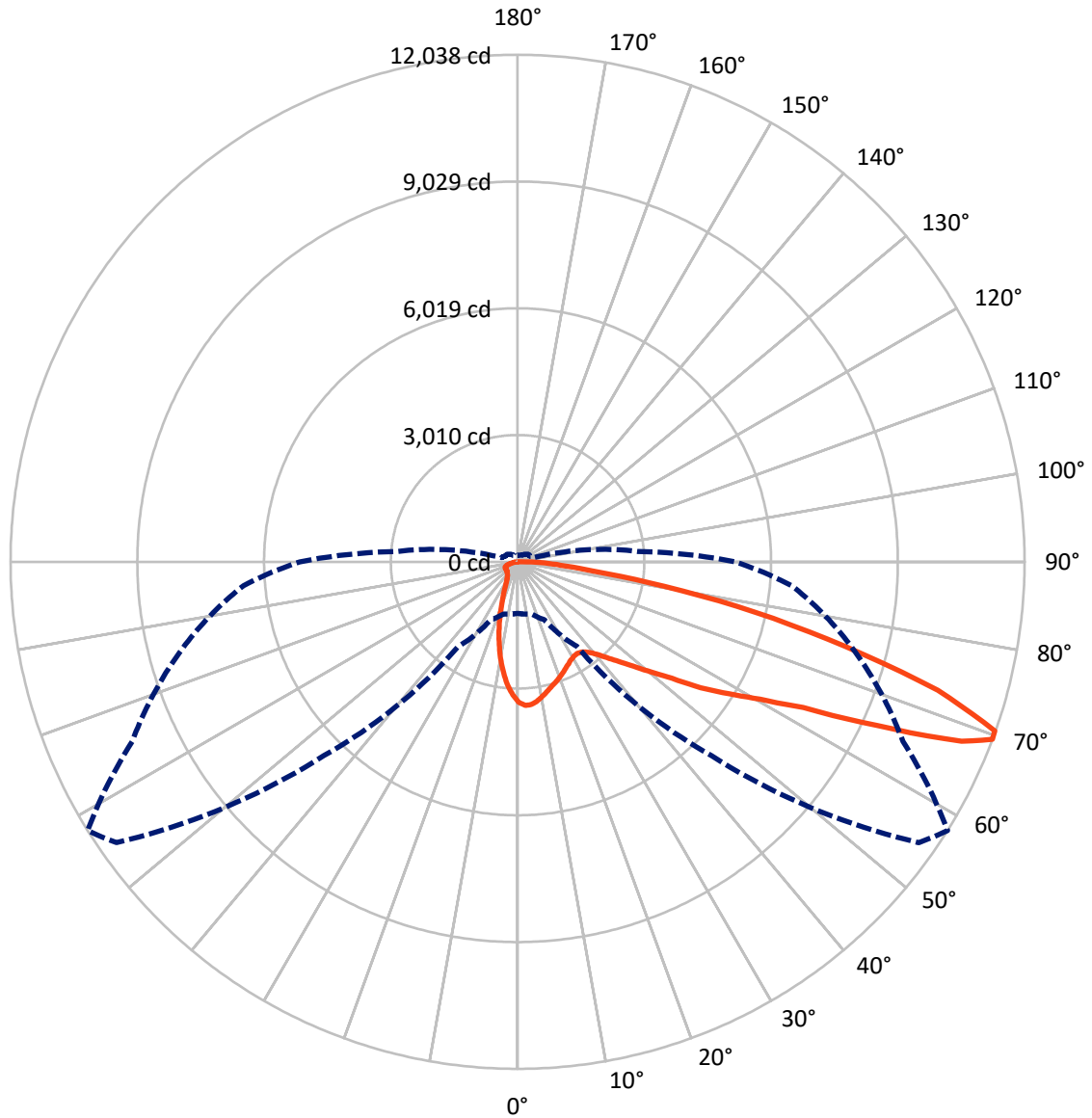
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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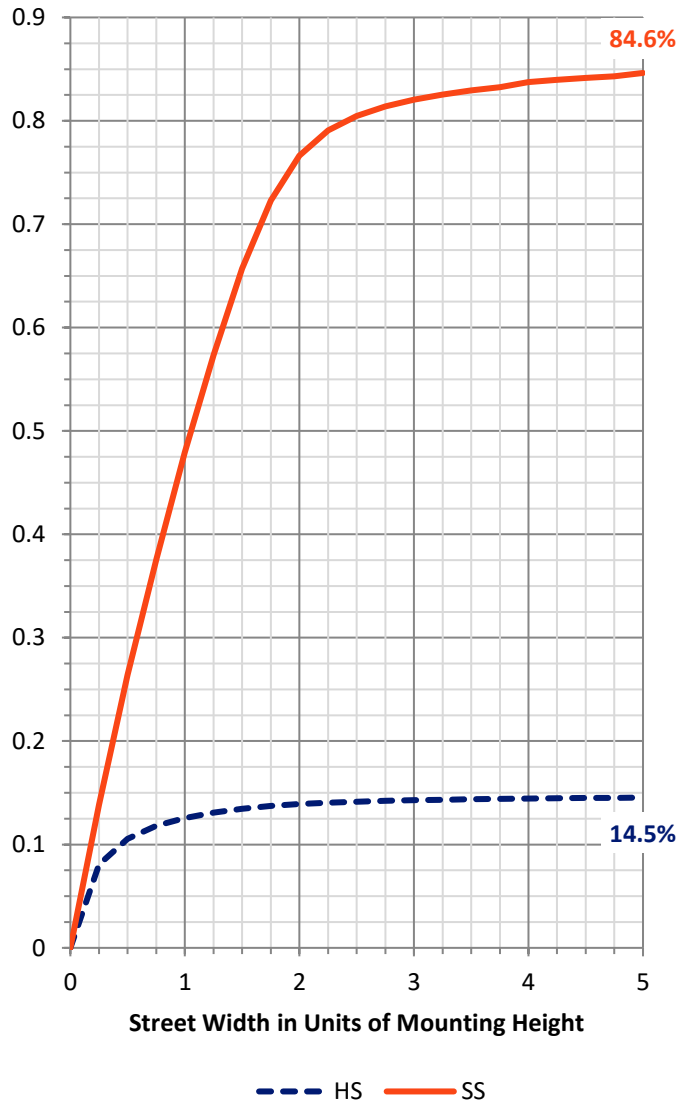
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1769.3	0.0	1769.3
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	10303.8	0.0	10303.8
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	12073.1	0.0	12073.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.3	2.3
10°-20°	622.2	5.2
20°-30°	803.8	6.7
30°-40°	1044.0	8.6
40°-50°	1517.8	12.6
50°-60°	2422.0	20.1
60°-70°	3235.5	26.8
70°-80°	1865.1	15.4
80°-90°	279.3	2.3
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°	12073.1	100.0
0°-180°	12073.1	100.0

**Coefficient of Utilization**



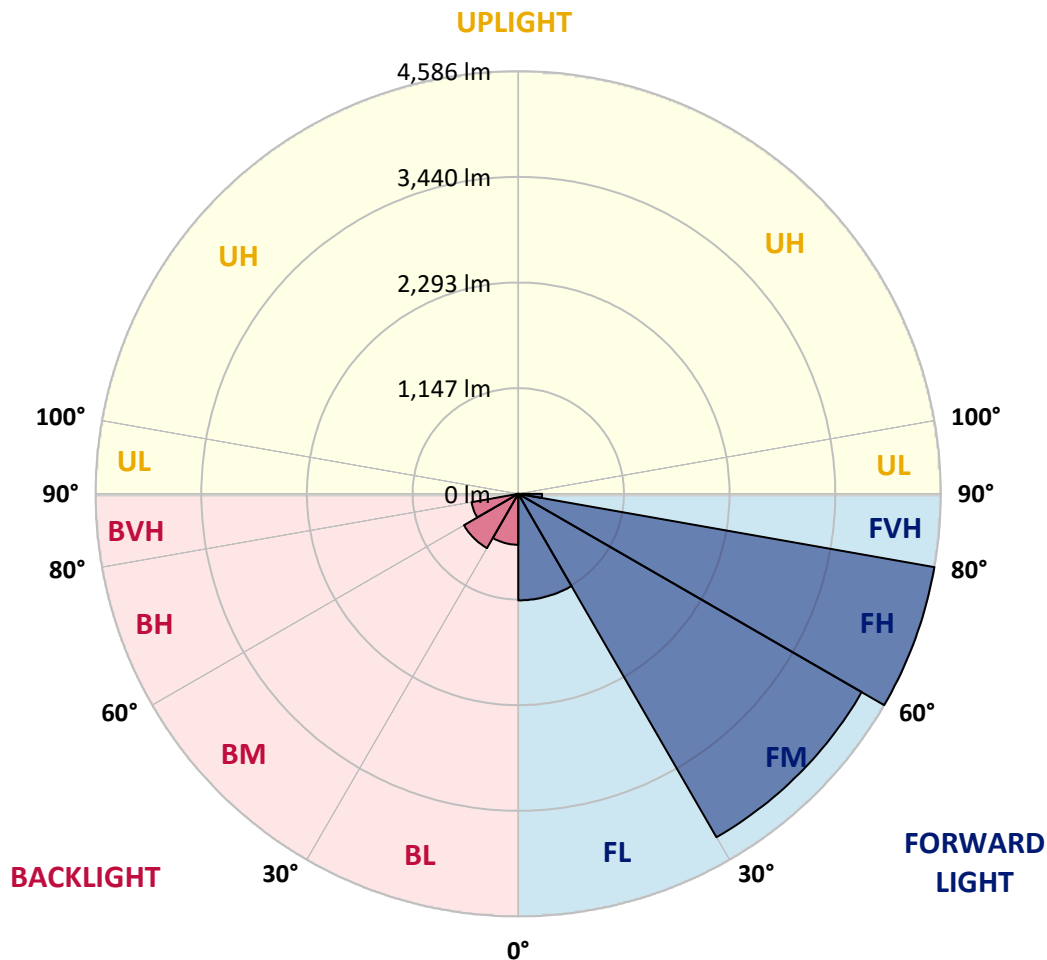
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1156.3	9.6			
FM (30°-60°)	4303.4	35.6			
FH (60°-80°)	4586.1	38.0			G2/5000
FVH (80°-90°)	257.9	2.1			G3/500
BL (0°-30°)	553.0	4.6	B2/1000		
BM (30°-60°)	680.4	5.6	B1/1000		
BH (60°-80°)	514.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	21.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3
2.5°	3460.2	3469.6	3466.9	3463.5	3458.2	3443.3	3419.1	3415.1	3399.6	3366.6	3325.6
5°	3407.0	3415.1	3415.8	3420.5	3427.2	3424.5	3407.0	3405.0	3382.1	3337.6	3268.9
7.5°	3224.6	3235.3	3258.8	3285.2	3308.7	3330.9	3336.3	3339.7	3325.6	3274.3	3182.7
10°	3019.2	3029.9	3040.7	3079.8	3137.6	3192.8	3238.6	3244.8	3248.1	3201.0	3089.2
12.5°	2791.6	2813.8	2836.7	2894.6	2972.0	3058.9	3139.7	3152.5	3175.4	3139.7	3008.4
15°	2598.3	2621.2	2654.2	2706.0	2799.7	2924.9	3038.7	3059.6	3104.7	3086.5	2933.0
17.5°	2464.3	2472.4	2495.3	2554.5	2655.5	2787.6	2939.7	2981.4	3053.5	3048.8	2868.4
20°	2358.6	2368.7	2382.9	2419.2	2524.2	2663.6	2847.5	2901.3	2999.0	3015.1	2804.4
22.5°	2314.2	2321.6	2319.6	2339.1	2410.5	2550.5	2753.9	2817.9	2950.5	2992.2	2745.1
25°	2316.9	2323.6	2313.5	2308.8	2351.2	2450.9	2656.2	2737.7	2911.4	2976.7	2691.2
27.5°	2362.0	2366.7	2347.8	2329.0	2332.4	2388.9	2575.4	2665.6	2878.5	2983.5	2646.1
30°	2422.6	2431.4	2419.2	2396.4	2371.4	2374.1	2523.6	2612.5	2863.0	3007.0	2624.6
32.5°	2500.7	2508.8	2503.4	2485.2	2452.9	2417.2	2510.8	2593.0	2864.3	3054.9	2619.9
35°	2582.9	2599.0	2607.8	2606.5	2580.1	2518.2	2561.3	2629.3	2896.6	3135.0	2647.5
37.5°	2675.7	2689.2	2727.0	2751.1	2727.0	2654.9	2675.1	2722.3	2968.0	3250.8	2708.1
40°	2766.0	2786.2	2841.4	2916.8	2907.4	2844.1	2848.8	2879.8	3093.9	3423.1	2826.6
42.5°	2860.2	2884.5	2980.8	3092.5	3114.8	3065.6	3078.4	3106.0	3273.0	3662.2	3029.9
45°	2981.4	3010.4	3128.9	3268.3	3355.8	3325.6	3361.9	3375.4	3512.7	3973.3	3297.9
47.5°	3137.6	3171.3	3317.4	3491.2	3615.0	3642.7	3705.9	3697.9	3809.6	4341.6	3645.3
50°	3401.0	3419.8	3557.8	3734.9	3905.2	4029.8	4098.5	4111.3	4177.9	4699.7	4033.9
52.5°	3714.0	3730.8	3830.5	3985.4	4198.8	4462.8	4632.5	4590.7	4606.9	5136.1	4488.3
55°	4066.2	4094.5	4157.7	4260.8	4537.5	4926.0	5266.7	5276.8	5097.7	5553.5	4924.0
57.5°	4338.8	4386.7	4495.0	4641.9	4992.6	5441.1	5899.0	5905.7	5676.8	5999.3	5404.7
60°	4201.5	4258.0	4505.9	4863.4	5589.9	6340.0	6654.4	6616.0	6240.3	6507.0	5991.2
62.5°	3609.0	3619.1	3979.3	4538.2	5773.7	7542.5	7778.9	7616.6	6992.4	7150.7	6587.1
65°	2335.8	2401.7	2687.2	3470.3	5169.8	8209.8	9749.0	9373.9	8046.8	7881.2	7086.0
67.5°	1474.5	1457.7	1576.3	1981.5	3555.8	7622.0	11430.2	11371.0	9425.8	8342.4	6966.8
69°	1222.7	1241.6	1282.0	1519.0	2446.9	6507.6	11628.9	12038.2	10094.4	8306.1	6533.9
70°	1109.0	1117.7	1160.1	1346.6	1888.0	5450.5	11303.0	12020.1	10357.0	8153.8	6220.2
72.5°	880.0	879.4	952.0	1120.4	1411.3	3111.4	9281.1	10435.7	10063.4	7445.5	5139.5
75°	668.6	679.4	759.5	948.1	1300.2	1700.1	6476.7	8036.7	8037.4	5880.8	3207.0
77.5°	482.1	488.8	582.4	795.8	1224.8	1378.3	4313.9	5764.3	5418.8	2694.6	1008.0
80°	315.8	319.9	391.2	630.2	1104.3	1300.2	2557.9	3528.2	2555.9	715.0	333.3
82.5°	173.0	193.2	239.0	408.0	886.1	1201.2	1554.7	1785.6	958.8	318.4	173.7
85°	86.8	92.2	134.7	238.3	579.0	993.8	1082.7	1024.1	494.9	158.2	90.2
87.5°	25.6	32.3	55.9	92.2	235.0	517.8	602.6	540.7	190.6	57.2	18.9
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°	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3	3336.3
2.5°	3308.7	3296.6	3242.7	3194.2	3149.8	3102.6	3062.9	3027.9	3031.3	3031.9	2996.2
5°	3233.2	3205.7	3103.3	3007.7	2926.9	2824.6	2737.1	2680.4	2652.2	2614.5	2628.0
7.5°	3130.9	3077.7	2935.7	2776.8	2628.0	2495.3	2351.2	2252.2	2189.0	2127.7	2135.8
10°	3025.2	2939.7	2733.0	2522.9	2330.4	2118.2	1934.5	1776.9	1659.7	1616.0	1587.0
12.5°	2916.8	2804.4	2541.8	2262.3	1996.4	1742.6	1482.0	1312.9	1183.7	1115.0	1123.8
15°	2817.9	2681.1	2342.5	2001.7	1656.4	1354.0	1094.2	933.3	843.0	824.1	834.9
17.5°	2726.2	2547.2	2156.0	1748.6	1345.3	1015.4	822.2	731.2	694.8	684.7	684.1
20°	2632.0	2433.4	1946.5	1477.9	1048.4	787.1	674.6	632.3	625.5	629.5	630.2
22.5°	2536.4	2292.6	1731.1	1209.3	834.9	643.7	589.8	578.4	583.8	593.2	594.5
25°	2448.2	2168.8	1523.7	973.6	666.6	565.6	539.3	539.3	551.5	565.6	566.3
27.5°	2375.5	2048.9	1317.0	773.0	558.2	509.0	500.3	505.0	521.8	532.6	533.3
30°	2315.6	1937.1	1121.7	619.4	490.9	463.9	461.9	470.0	482.1	492.2	492.9
32.5°	2270.5	1838.8	939.3	520.5	444.4	429.6	428.9	435.0	441.7	444.4	447.1
35°	2252.9	1757.4	772.3	457.8	413.4	404.0	404.0	403.3	406.0	407.4	408.7
37.5°	2267.1	1694.7	643.0	417.5	390.6	383.8	379.8	375.7	374.4	374.4	375.1
40°	2327.0	1661.8	546.8	391.2	374.4	364.3	356.9	352.1	347.4	348.7	350.2
42.5°	2454.2	1667.8	481.4	373.7	360.3	346.1	335.3	330.0	326.6	330.6	330.0
45°	2656.9	1728.4	439.7	361.6	346.1	327.9	317.8	312.4	312.4	318.4	320.5
47.5°	2940.4	1844.2	417.5	352.1	335.3	313.7	303.6	299.7	301.0	311.1	311.7
50°	3286.5	2045.5	413.4	347.4	330.0	303.6	292.2	288.1	291.5	302.3	303.6
52.5°	3668.2	2304.8	432.9	348.1	325.2	297.6	282.8	276.7	280.1	288.8	291.5
55°	4120.7	2629.3	483.4	350.8	318.4	294.3	276.1	262.6	266.6	272.7	273.3
57.5°	4582.6	3038.7	572.3	351.5	313.1	288.1	264.6	247.1	247.1	251.2	253.1
60°	5146.8	3484.4	689.5	352.1	313.7	279.5	249.2	229.6	226.9	228.9	229.6
62.5°	5707.1	3857.4	709.0	350.2	320.5	270.7	232.3	212.1	207.4	206.7	205.4
65°	5954.2	3788.1	581.1	340.7	327.9	265.3	218.8	195.3	187.2	184.5	184.5
67.5°	5551.5	3204.3	437.0	327.9	323.2	259.9	206.0	181.1	171.7	166.3	166.3
69°	5173.1	2850.1	392.5	319.2	311.1	251.2	197.9	173.7	162.2	156.2	154.2
70°	4880.9	2606.5	373.7	311.7	299.7	241.1	191.9	168.3	155.5	148.8	147.4
72.5°	3895.1	2044.9	327.2	283.4	255.2	202.6	170.4	151.5	139.4	131.9	130.0
75°	2244.9	1108.3	271.3	246.4	205.4	157.5	144.1	131.9	122.5	115.8	113.8
77.5°	690.8	428.2	196.6	194.6	150.8	121.8	115.1	110.4	103.7	96.3	94.9
80°	290.9	218.1	133.3	131.3	100.3	84.9	82.8	82.1	79.5	73.4	71.4
82.5°	159.6	123.2	92.9	80.8	60.6	49.2	51.2	51.8	49.8	43.8	39.7
85°	78.1	67.3	45.1	36.3	27.6	17.5	16.8	20.2	18.9	13.5	14.8
87.5°	15.5	18.9	12.1	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
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)