

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: P652138

Luminaire Tested: **GALN-SA9A-840-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652138  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-840-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25598.3 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

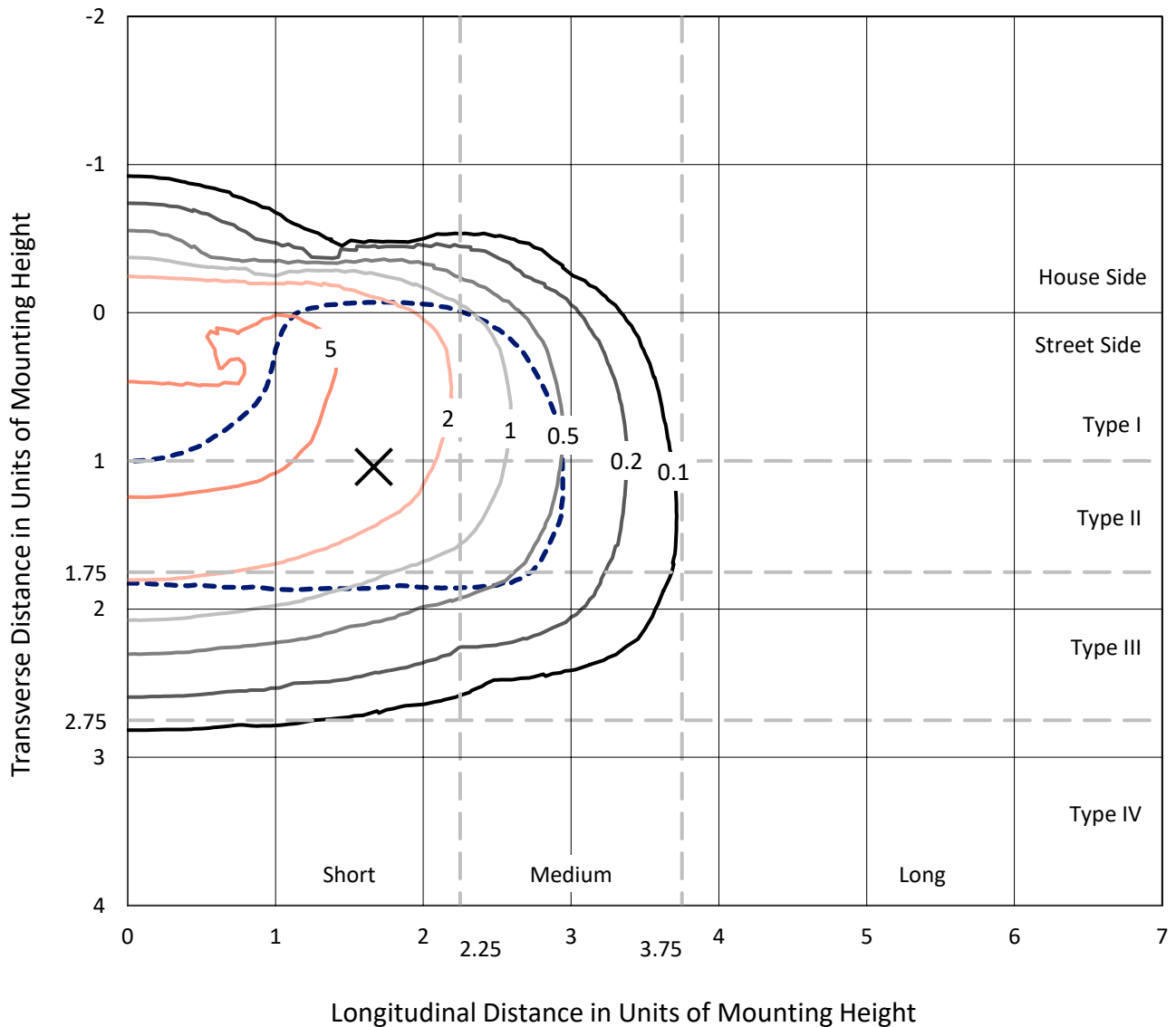
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

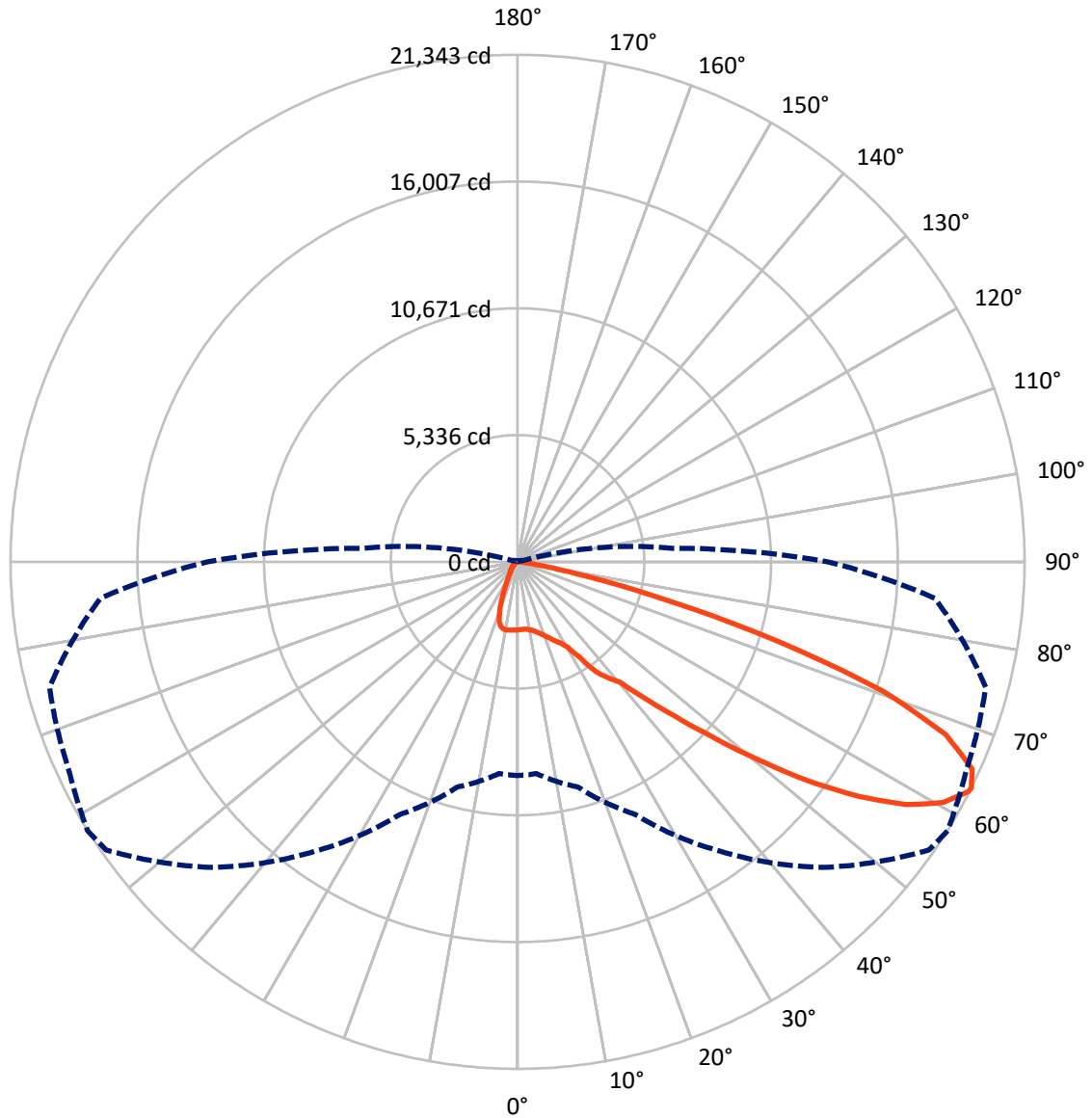
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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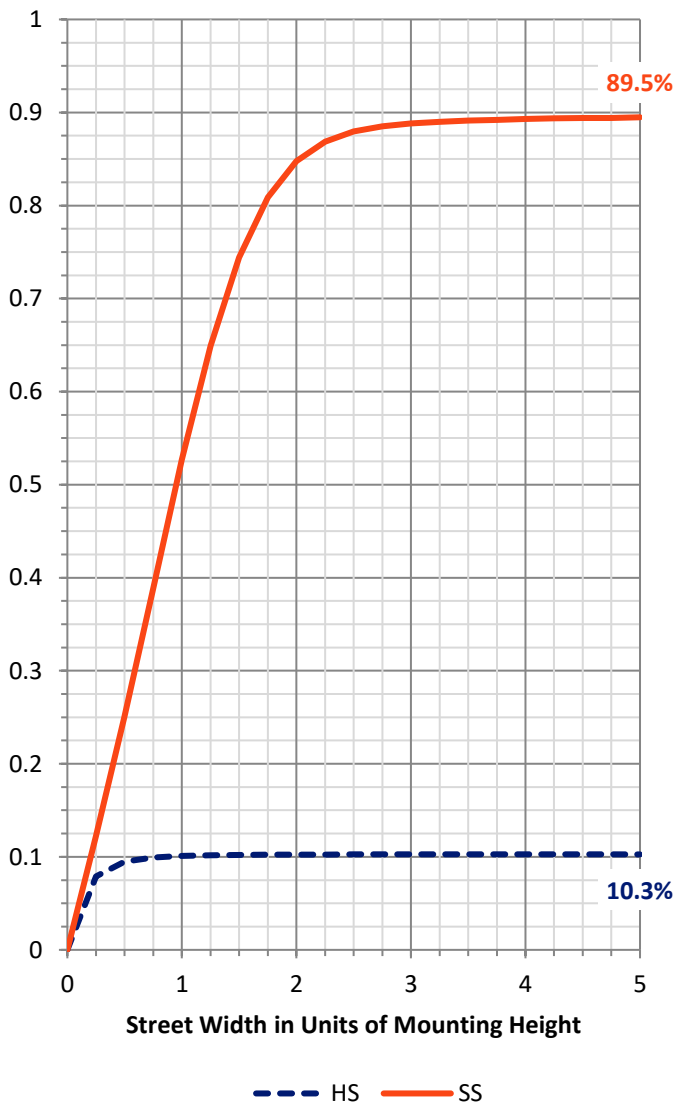
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2650.5	0.0	2650.5
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	22947.8	0.0	22947.8
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	25598.3	0.0	25598.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.3	1.0
10°-20°	730.7	2.9
20°-30°	1268.2	5.0
30°-40°	2330.4	9.1
40°-50°	4386.9	17.1
50°-60°	7503.5	29.3
60°-70°	7184.6	28.1
70°-80°	1832.1	7.2
80°-90°	93.7	0.4
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°	25598.3	100.0
0°-180°	25598.3	100.0

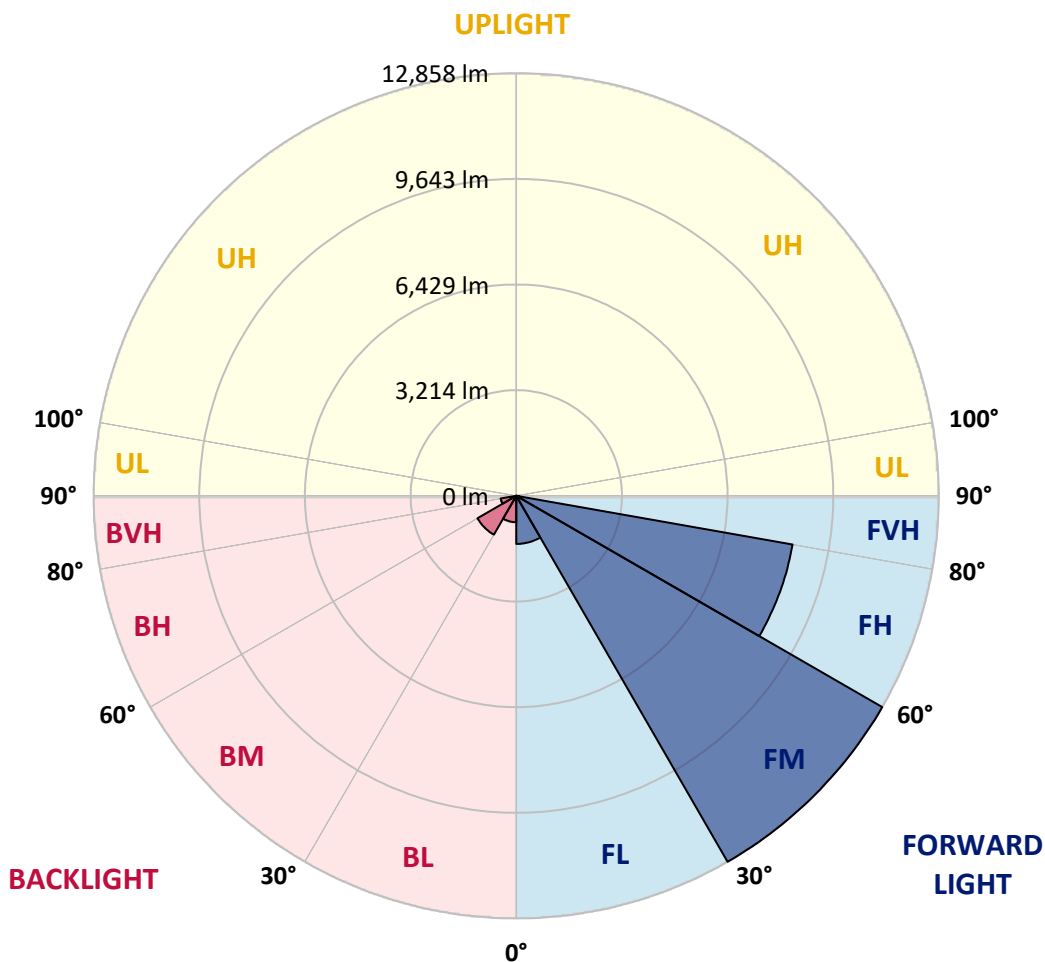


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1463.3	5.7			
FM (30°-60°)	12857.5	50.2			
FH (60°-80°)	8536.9	33.3			G4/12000
FVH (80°-90°)	90.1	0.4			G1/100
BL (0°-30°)	803.8	3.1	B2/1000		
BM (30°-60°)	1363.3	5.3	B2/2500		
BH (60°-80°)	479.8	1.9	B1/500		G1/500
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2865.9	2865.9	2865.9	2865.9	2865.9	2865.9	2865.9	2865.9	2865.9	2865.9	2865.9
2.5°	2794.6	2804.1	2813.8	2817.7	2831.1	2844.6	2854.3	2852.3	2867.7	2875.5	2875.5
5°	2682.7	2682.7	2707.8	2730.9	2769.5	2808.0	2844.6	2852.3	2881.3	2908.3	2917.8
7.5°	2588.3	2594.1	2613.3	2655.8	2707.8	2775.2	2848.5	2865.9	2915.9	2975.7	3000.8
10°	2543.9	2547.8	2572.9	2617.2	2682.7	2775.2	2877.4	2910.2	2987.2	3081.7	3116.4
12.5°	2534.4	2540.2	2565.2	2615.3	2690.4	2802.2	2941.0	2975.7	3087.5	3208.9	3260.9
15°	2551.7	2555.5	2580.6	2634.6	2717.4	2850.4	3025.8	3073.9	3207.0	3347.7	3415.1
17.5°	2613.3	2609.5	2626.9	2671.2	2763.7	2910.2	3127.9	3185.8	3341.9	3534.6	3579.0
20°	2875.5	2850.4	2835.0	2796.5	2833.1	2995.0	3251.3	3336.1	3528.8	3725.4	3756.2
22.5°	3440.2	3384.3	3274.4	3124.1	3008.4	3110.6	3399.7	3498.0	3746.6	3939.3	3939.3
25°	4159.0	4087.7	3977.8	3650.2	3366.9	3301.4	3567.4	3690.7	3983.6	4178.3	4114.7
27.5°	5059.0	5003.2	4789.2	4407.7	3974.0	3634.8	3762.0	3875.7	4193.7	4428.9	4295.8
30°	5791.4	5764.5	5589.0	5247.9	4770.0	4274.6	4124.3	4199.5	4473.2	4744.9	4608.1
32.5°	6410.1	6410.1	6230.8	5912.8	5465.7	5026.3	4739.1	4793.1	5055.2	5369.4	5115.0
35°	7090.4	7067.3	6922.7	6620.1	6119.0	5731.7	5614.1	5687.3	5924.4	6157.6	5531.3
37.5°	7805.4	7797.7	7647.4	7354.5	6945.8	6458.2	6182.6	6202.0	6323.3	6465.9	6018.9
40°	8582.1	8593.7	8397.0	8215.9	7830.5	7331.3	6803.2	6681.8	6795.5	7198.3	6918.8
42.5°	9499.4	9472.5	9387.7	9141.0	8830.7	8531.9	7897.9	7853.6	7953.8	8385.5	8082.9
45°	10565.2	10603.7	10457.3	10320.5	10112.4	9863.8	9333.8	9256.6	9366.5	10037.2	9607.4
47.5°	11633.0	11596.3	11690.7	11665.7	11777.4	11592.4	11124.2	10966.1	11230.1	11866.2	11234.0
50°	12446.2	12486.7	12683.3	12970.5	13450.4	13554.4	13105.4	13051.4	13169.0	13577.5	12689.1
52.5°	12974.3	13109.3	13417.6	14155.7	15021.1	15693.6	15352.5	15323.6	15275.4	15385.3	14080.5
55°	13319.3	13456.2	13858.9	14945.9	16435.7	17528.5	17545.8	17422.4	17104.4	17025.4	15381.5
57.5°	13107.3	13134.2	13708.6	15161.7	17220.1	18837.1	19403.6	19280.3	18692.5	18393.8	16530.1
60°	11781.3	11837.2	12637.0	14344.6	16879.0	19264.9	20635.2	20579.3	19935.6	19598.3	17424.3
62.5°	9432.0	9593.9	10416.9	12321.0	15292.8	18544.1	21134.3	21292.4	20791.3	20326.8	17705.7
63°	9000.3	8948.2	9817.5	11731.2	14872.7	18187.6	21142.1	21342.5	20829.8	20396.2	17628.6
65°	6662.6	6818.7	7383.3	9250.8	12376.8	16528.2	20666.0	21020.6	20687.2	20089.7	16774.8
67.5°	3740.9	3733.1	4357.6	6053.5	8663.1	12964.7	18686.7	19436.4	19367.1	18027.6	13905.2
70°	1830.9	1859.8	2116.1	3137.6	5024.4	8944.4	15528.0	16337.4	16362.4	14159.6	9615.1
72.5°	828.7	842.2	1025.3	1528.3	2582.5	4762.2	10700.1	11473.0	11330.4	9023.4	5309.6
75°	437.5	466.4	564.6	769.0	1245.0	1963.9	5820.3	6568.1	6269.4	4122.4	1954.2
77.5°	323.8	333.5	383.5	489.5	666.8	765.1	2511.2	2987.2	2798.3	1491.7	647.6
80°	237.1	244.7	285.3	346.9	420.2	389.3	946.3	1085.1	973.3	506.9	198.5
82.5°	144.6	146.5	208.1	258.3	264.1	217.8	312.2	335.3	350.8	285.3	107.9
85°	52.1	65.5	140.7	187.0	156.1	109.8	131.0	144.6	158.0	181.2	63.6
87.5°	5.8	7.7	67.4	90.6	44.3	40.5	48.2	54.0	57.8	67.4	30.9
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°	2865.9	2865.9	2865.9	2865.9	2865.9	2865.9	2865.9	2865.9	2865.9	2865.9	2865.9
2.5°	2883.2	2890.9	2885.1	2875.5	2873.5	2867.7	2856.2	2856.2	2856.2	2860.1	2856.2
5°	2925.6	2931.4	2917.8	2898.6	2877.4	2850.4	2821.5	2804.1	2802.2	2798.3	2788.8
7.5°	3006.5	3014.2	2983.4	2937.1	2879.3	2813.8	2752.1	2694.3	2667.3	2646.1	2646.1
10°	3124.1	3131.8	3070.2	2987.2	2871.6	2738.6	2592.1	2459.2	2355.1	2306.9	2295.3
12.5°	3264.8	3268.6	3166.4	3022.0	2831.1	2574.8	2262.6	1971.6	1769.2	1676.7	1667.1
15°	3418.9	3392.0	3257.1	3035.4	2715.5	2237.6	1697.9	1341.4	1131.3	1069.7	1092.8
17.5°	3575.1	3525.0	3326.5	3014.2	2455.3	1697.9	1140.9	915.4	849.9	832.6	832.6
20°	3721.5	3652.1	3376.5	2921.7	2004.4	1169.8	846.0	792.1	780.5	769.0	770.9
22.5°	3868.0	3762.0	3420.9	2715.5	1493.6	836.5	757.4	740.1	724.7	709.2	707.3
25°	4010.6	3864.1	3438.3	2333.9	1017.6	718.9	691.9	668.8	637.9	620.6	616.7
27.5°	4159.0	3987.5	3426.7	1852.1	742.0	643.7	616.7	584.0	547.3	516.5	516.5
30°	4444.3	4222.7	3386.2	1331.7	624.4	566.6	531.9	479.9	439.4	408.6	406.6
32.5°	4833.6	4529.0	3247.4	936.6	555.1	499.1	447.2	389.3	346.9	323.8	323.8
35°	5180.5	4837.4	2987.2	690.0	499.1	433.6	370.0	314.1	281.4	265.9	260.2
37.5°	5708.5	5288.4	2628.8	560.9	445.2	375.8	310.3	258.3	231.3	219.7	219.7
40°	6500.7	5839.6	2189.4	491.5	393.2	319.9	258.3	217.8	196.5	183.1	183.1
42.5°	7483.6	6514.1	1744.1	441.4	345.0	275.6	215.9	185.0	165.8	156.1	154.2
45°	8720.8	7225.3	1343.3	395.1	306.5	235.1	183.1	156.1	136.8	131.0	133.0
47.5°	10012.1	7851.7	1040.7	354.6	265.9	198.5	156.1	134.9	121.4	113.7	113.7
50°	11114.5	8283.3	790.2	308.4	235.1	167.7	136.8	121.4	109.8	106.0	104.0
52.5°	12035.7	8408.7	605.2	267.9	206.2	144.6	121.4	109.8	100.2	94.4	94.4
55°	12820.1	8298.8	474.1	225.5	173.4	125.3	107.9	98.3	86.7	80.9	79.1
57.5°	13278.8	7946.1	362.3	187.0	140.7	104.0	94.4	82.8	69.4	59.7	59.7
60°	13510.1	7433.4	277.5	154.2	107.9	82.8	77.1	61.6	48.2	40.5	38.5
62.5°	13232.5	6753.1	210.1	121.4	80.9	61.6	52.1	44.3	30.9	23.1	23.1
63°	13061.1	6556.5	202.3	115.6	75.2	57.8	48.2	40.5	27.0	21.2	19.3
65°	11906.6	5698.9	165.8	92.5	59.7	40.5	32.8	28.9	19.3	9.7	7.7
67.5°	9455.1	4359.5	131.0	69.4	42.4	28.9	19.3	17.3	5.8	0.0	0.0
70°	6392.7	2815.8	102.2	50.1	28.9	17.3	9.7	7.7	1.9	0.0	0.0
72.5°	3334.1	1443.5	79.1	36.6	17.3	11.5	5.8	1.9	0.0	0.0	0.0
75°	1179.5	491.5	57.8	23.1	11.5	5.8	1.9	0.0	0.0	0.0	0.0
77.5°	356.6	183.1	36.6	17.3	7.7	3.9	0.0	0.0	0.0	0.0	0.0
80°	125.3	67.4	21.2	11.5	5.8	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	61.6	32.8	13.5	9.7	5.8	1.9	0.0	0.0	0.0	0.0	0.0
85°	34.6	21.2	11.5	9.7	5.8	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	25.1	15.4	11.5	9.7	7.7	3.9	1.9	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)