

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: P459464

Luminaire Tested: **GALN-SA9A-735-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459464  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9A-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30237 lumens  
Efficiency: N/A  
Efficacy: 110.4 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

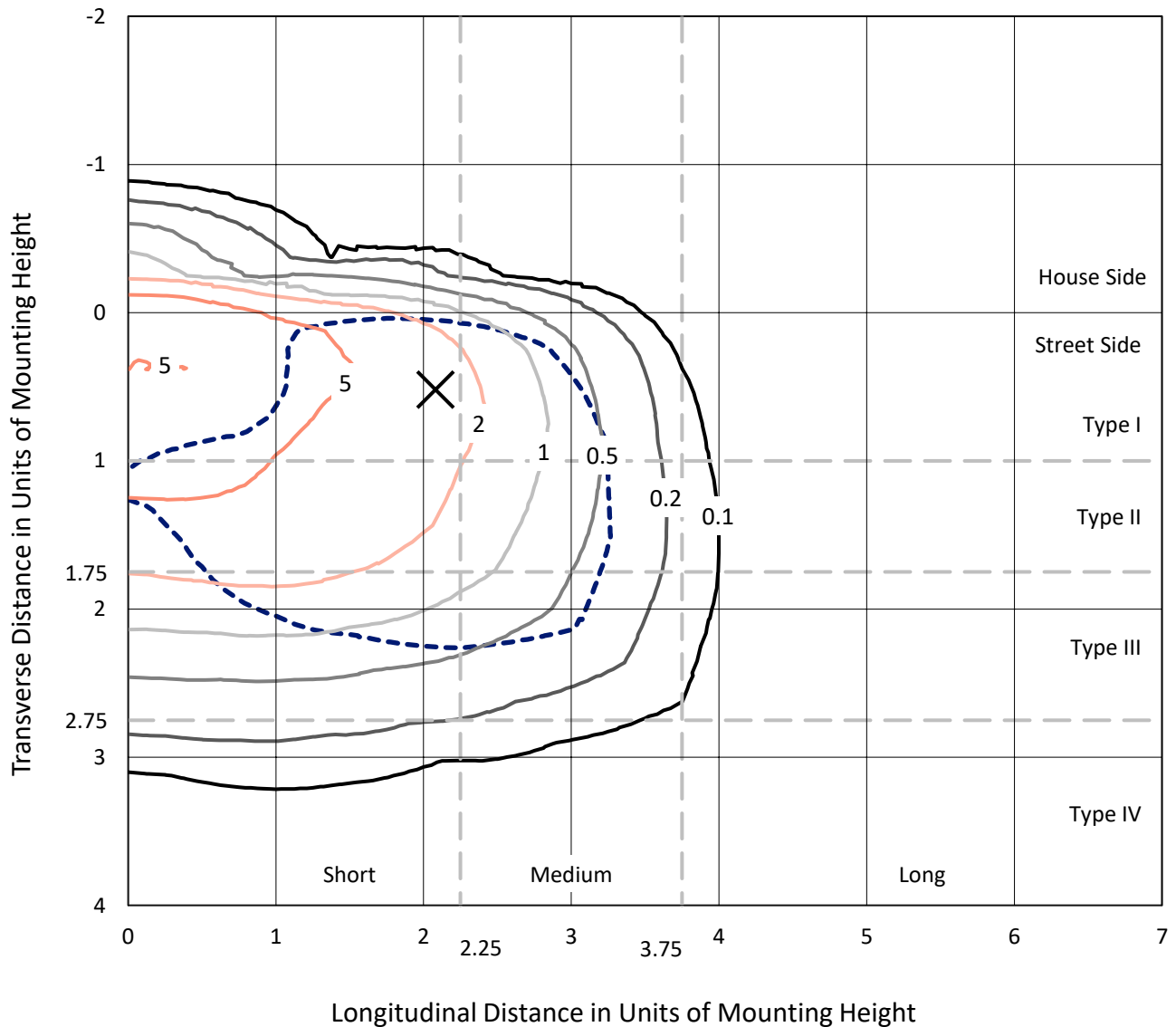
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

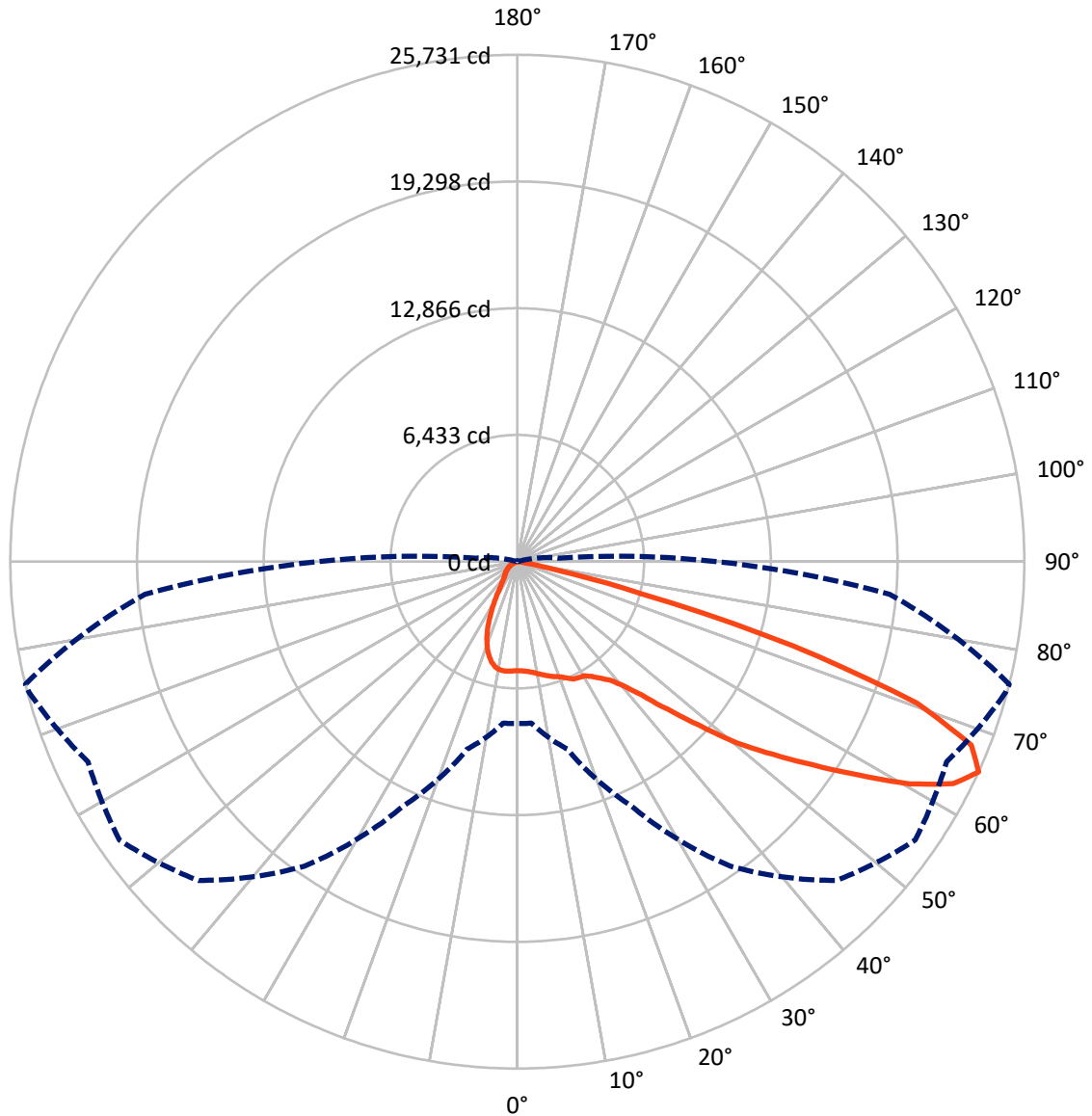
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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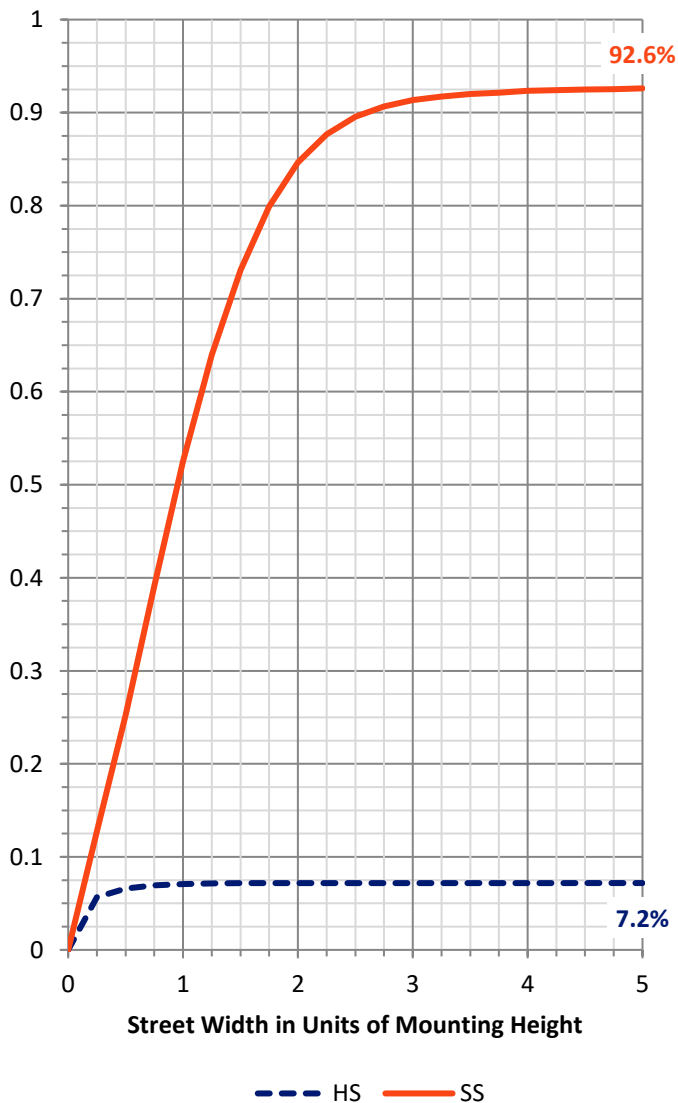
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2183.7	0.0	2183.7
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	28053.3	0.0	28053.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	30237.0	0.0	30237.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	455.6	1.5
10°-20°	1014.5	3.4
20°-30°	1634.8	5.4
30°-40°	2842.6	9.4
40°-50°	4697.2	15.5
50°-60°	7256.2	24.0
60°-70°	8860.9	29.3
70°-80°	3362.9	11.1
80°-90°	112.2	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°	30237.0	100.0
0°-180°	30237.0	100.0

**Coefficient of Utilization**



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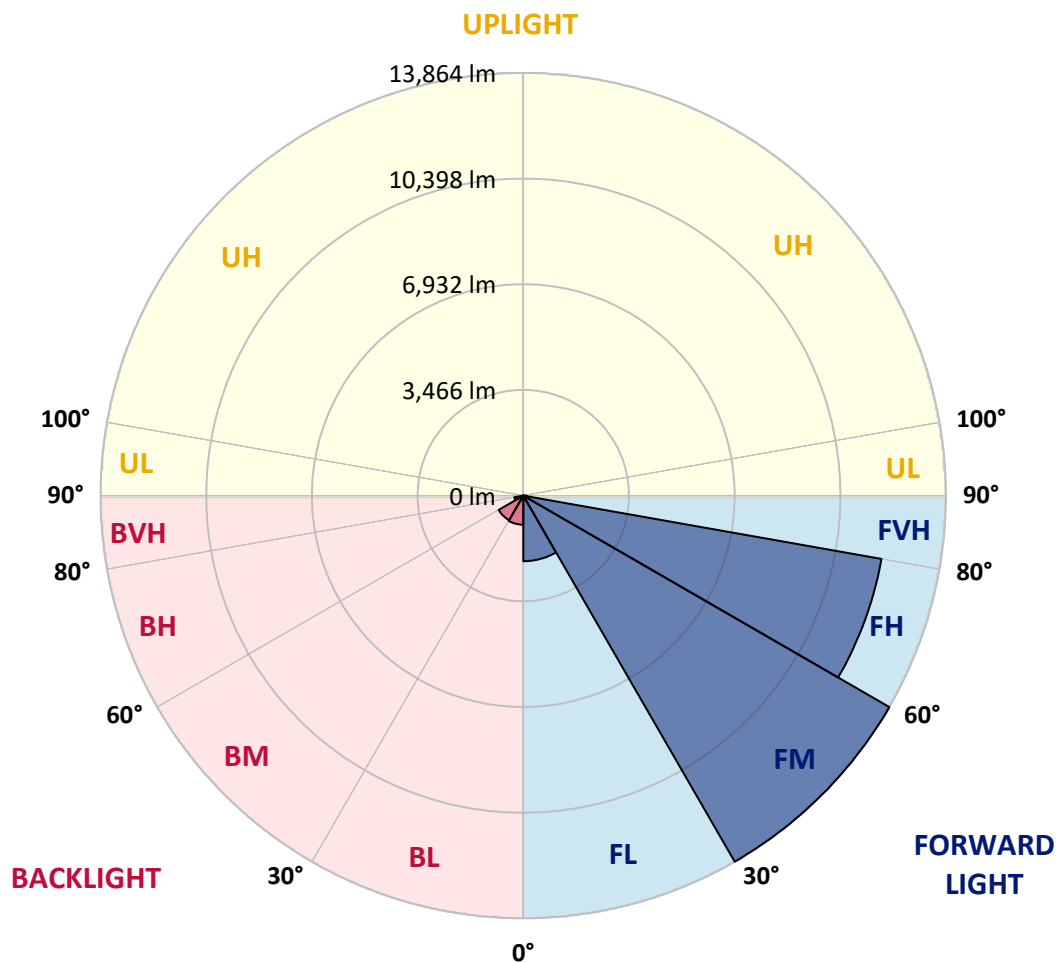
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2151.0	7.1			
FM (30°-60°)	13864.1	45.9			
FH (60°-80°)	11927.5	39.4			G4/12000
FVH (80°-90°)	110.7	0.4			G2/225
BL (0°-30°)	954.0	3.2	B2/1000		
BM (30°-60°)	931.8	3.1	B1/1000		
BH (60°-80°)	296.3	1.0	B1/500		G1/500
BVH (80°-90°)	1.5	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°	65°	75°	76°	85°
0°	5531.3	5531.3	5531.3	5531.3	5531.3	5531.3	5531.3	5531.3	5531.3	5531.3	5531.3
2.5°	5285.8	5287.9	5300.8	5332.8	5381.9	5422.4	5456.6	5512.1	5550.5	5554.8	5567.6
5°	4920.8	4895.1	4920.8	5004.0	5078.7	5191.9	5330.6	5469.4	5593.2	5601.8	5661.5
7.5°	4510.9	4532.2	4572.8	4658.2	4799.1	4972.0	5172.7	5420.3	5655.1	5676.5	5793.9
10°	4094.6	4141.5	4207.7	4337.9	4534.4	4758.5	5031.8	5386.1	5753.3	5783.2	5986.0
12.5°	3710.3	3731.7	3812.8	3987.8	4231.2	4547.2	4925.0	5366.9	5862.2	5898.5	6191.0
15°	3415.7	3443.5	3513.9	3671.9	3943.0	4348.6	4837.5	5360.5	5968.9	6020.2	6395.9
17.5°	3360.2	3377.3	3407.2	3513.9	3750.9	4190.6	4758.5	5358.4	6071.4	6133.3	6585.9
20°	3588.6	3573.7	3543.8	3533.1	3663.3	4069.0	4700.9	5375.5	6169.6	6240.1	6786.6
22.5°	4160.8	4180.0	4004.9	3797.8	3755.1	4049.7	4692.3	5456.6	6325.5	6408.7	7010.7
25°	5375.5	5228.2	4954.9	4459.6	4086.0	4167.2	4788.4	5648.7	6506.9	6598.7	7213.5
27.5°	6718.3	6673.4	6248.6	5433.1	4737.2	4414.8	4959.2	5796.0	6566.7	6660.6	7328.8
30°	8037.6	8091.0	7604.2	6703.3	5682.9	4873.8	5119.3	5851.5	6620.1	6718.3	7476.1
32.5°	9260.8	9324.9	8897.9	8005.6	6797.3	5667.9	5394.7	6067.2	6844.2	6944.6	7721.6
35°	10223.6	10232.2	9909.8	9198.9	8014.1	6632.9	5990.3	6445.0	7147.4	7264.8	7982.1
37.5°	11107.5	11094.6	10716.8	10104.1	9028.1	7591.4	6739.6	6880.5	7493.2	7614.9	8357.8
40°	11762.8	11771.4	11649.7	11073.3	9973.9	8477.4	7333.1	7288.3	8073.9	8263.9	8904.3
42.5°	12200.5	12279.5	12339.2	12046.8	11163.0	9568.3	8244.7	8161.4	9081.5	9239.5	9677.1
45°	12554.9	12695.8	12994.6	12979.7	12305.1	10906.8	9495.7	9324.9	10509.7	10678.4	10661.3
47.5°	12813.2	12956.2	13451.5	13750.4	13378.9	12204.8	11069.0	10921.7	12215.4	12399.0	11747.9
50°	12945.5	13116.3	13748.2	14326.8	14217.9	13455.8	12862.3	12870.8	14275.5	14452.7	13007.4
52.5°	12636.0	12858.0	13906.2	14948.0	15159.3	14653.4	14542.4	14824.2	16109.3	16260.9	14145.3
55°	11647.6	11927.2	13690.6	15477.4	16250.2	16066.6	16450.9	16880.0	18113.9	18212.1	15313.0
57.5°	11022.1	11318.8	13054.4	15927.9	17561.0	17842.8	18451.2	18765.0	20182.6	20432.3	16653.7
60°	10494.8	10727.5	12531.4	16023.9	18893.1	20016.0	20607.4	20931.9	22735.8	22898.1	18128.9
62.5°	9617.4	9884.2	11647.6	15353.6	19563.5	21755.9	22981.3	22836.1	24710.5	24823.7	19034.0
65°	8206.2	8229.7	9854.3	13669.2	18871.8	22885.2	24648.6	24040.2	25654.1	25731.0	18963.6
67.5°	6124.8	6351.1	7580.7	10744.5	15940.7	21920.3	25188.7	24072.2	25058.5	24845.0	17458.5
70°	3945.1	4118.1	5138.5	7450.5	11493.9	18293.3	23397.6	22422.0	21992.9	21519.0	14290.5
72.5°	1821.0	2043.0	3052.8	4256.8	6816.5	13030.9	18993.5	18216.4	15829.7	14659.8	9083.6
75°	794.2	849.7	1507.2	2245.8	3195.8	6891.2	12522.8	11308.1	7149.5	6530.4	3635.6
77.5°	484.6	520.9	789.9	1204.0	1255.3	2625.8	6746.0	4933.6	2209.5	1949.1	986.3
80°	328.8	369.3	574.3	629.8	429.1	732.2	2531.9	1317.2	446.2	427.0	211.3
82.5°	160.1	202.8	424.8	352.2	185.7	234.8	736.5	281.8	130.2	121.7	74.7
85°	23.5	40.6	239.1	230.6	83.3	55.5	130.2	70.4	44.8	42.7	34.2
87.5°	0.0	0.0	81.1	36.3	8.5	8.5	14.9	14.9	17.1	14.9	17.1
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°	5531.3	5531.3	5531.3	5531.3	5531.3	5531.3	5531.3	5531.3	5531.3	5531.3	5531.3
2.5°	5574.0	5584.7	5544.1	5486.5	5424.6	5362.7	5275.1	5196.1	5149.2	5176.9	5108.6
5°	5674.3	5665.8	5559.1	5384.0	5151.3	4871.7	4594.1	4357.2	4280.3	4165.0	4152.2
7.5°	5813.1	5789.6	5563.3	5162.0	4636.8	4111.7	3599.3	3259.9	3065.6	2901.2	2905.5
10°	6007.4	5939.1	5514.2	4771.3	3906.7	3114.7	2461.4	2013.1	1818.9	1757.0	1707.9
12.5°	6208.0	6075.7	5377.6	4244.0	3042.1	2128.4	1496.5	1223.3	1103.7	1065.3	1061.0
15°	6387.4	6178.2	5138.5	3610.0	2211.7	1359.9	1020.4	930.8	915.8	918.0	915.8
17.5°	6564.6	6259.3	4807.6	2937.5	1502.9	975.6	877.4	856.1	862.5	871.0	868.9
20°	6711.9	6276.4	4384.9	2241.6	1063.1	856.1	824.0	819.8	826.2	832.6	832.6
22.5°	6872.0	6289.2	3883.2	1552.0	868.9	796.3	779.2	779.2	787.7	796.3	798.4
25°	6991.5	6218.7	3283.3	1114.4	766.4	738.6	730.1	732.2	740.8	745.1	742.9
27.5°	7010.7	6020.2	2647.2	853.9	696.0	668.2	659.7	668.2	657.5	663.9	659.7
30°	7027.8	5768.3	2002.5	719.4	631.9	589.2	576.4	563.6	555.1	544.4	542.2
32.5°	7081.2	5471.5	1462.4	646.8	572.1	525.2	495.3	459.0	431.2	422.7	420.6
35°	7104.7	5115.0	1073.8	589.2	518.8	467.5	414.2	362.9	322.4	307.4	318.1
37.5°	7194.3	4769.2	832.6	546.5	471.8	407.8	339.4	275.4	237.0	228.4	232.7
40°	7377.9	4393.5	698.1	510.2	431.2	352.2	269.0	207.1	181.5	172.9	170.8
42.5°	7672.5	4019.9	621.2	476.1	390.7	296.7	211.3	162.2	140.9	134.5	134.5
45°	8031.2	3661.2	567.9	439.8	348.0	239.1	166.5	130.2	117.4	113.1	113.1
47.5°	8503.0	3347.4	523.0	403.5	301.0	190.0	134.5	113.1	104.6	106.7	108.9
50°	8981.2	3114.7	473.9	362.9	247.6	155.8	115.3	100.3	98.2	100.3	100.3
52.5°	9342.0	2978.1	407.8	307.4	194.3	130.2	102.5	93.9	91.8	87.5	87.5
55°	9828.7	2948.2	324.5	249.8	153.7	108.9	91.8	85.4	79.0	74.7	72.6
57.5°	10454.2	2982.3	249.8	194.3	119.5	89.7	81.1	70.4	61.9	53.4	53.4
60°	10842.7	2905.5	194.3	149.4	87.5	72.6	61.9	51.2	40.6	34.2	32.0
62.5°	10718.9	2581.0	153.7	111.0	61.9	53.4	40.6	34.2	23.5	17.1	14.9
65°	10080.6	2083.6	123.8	76.9	44.8	32.0	21.3	21.3	10.7	2.1	0.0
67.5°	8823.2	1543.5	98.2	51.2	25.6	14.9	10.7	6.4	0.0	0.0	0.0
70°	7181.5	1114.4	76.9	32.0	14.9	10.7	4.3	2.1	0.0	0.0	0.0
72.5°	4560.0	638.3	59.8	19.2	10.7	4.3	0.0	0.0	0.0	0.0	0.0
75°	1763.4	249.8	40.6	12.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	499.5	117.4	23.5	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	130.2	51.2	12.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	61.9	21.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.3	8.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.1	2.1	0.0	0.0	0.0	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)