

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: P453734

Luminaire Tested: **GALN-SA4D-740-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25046 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

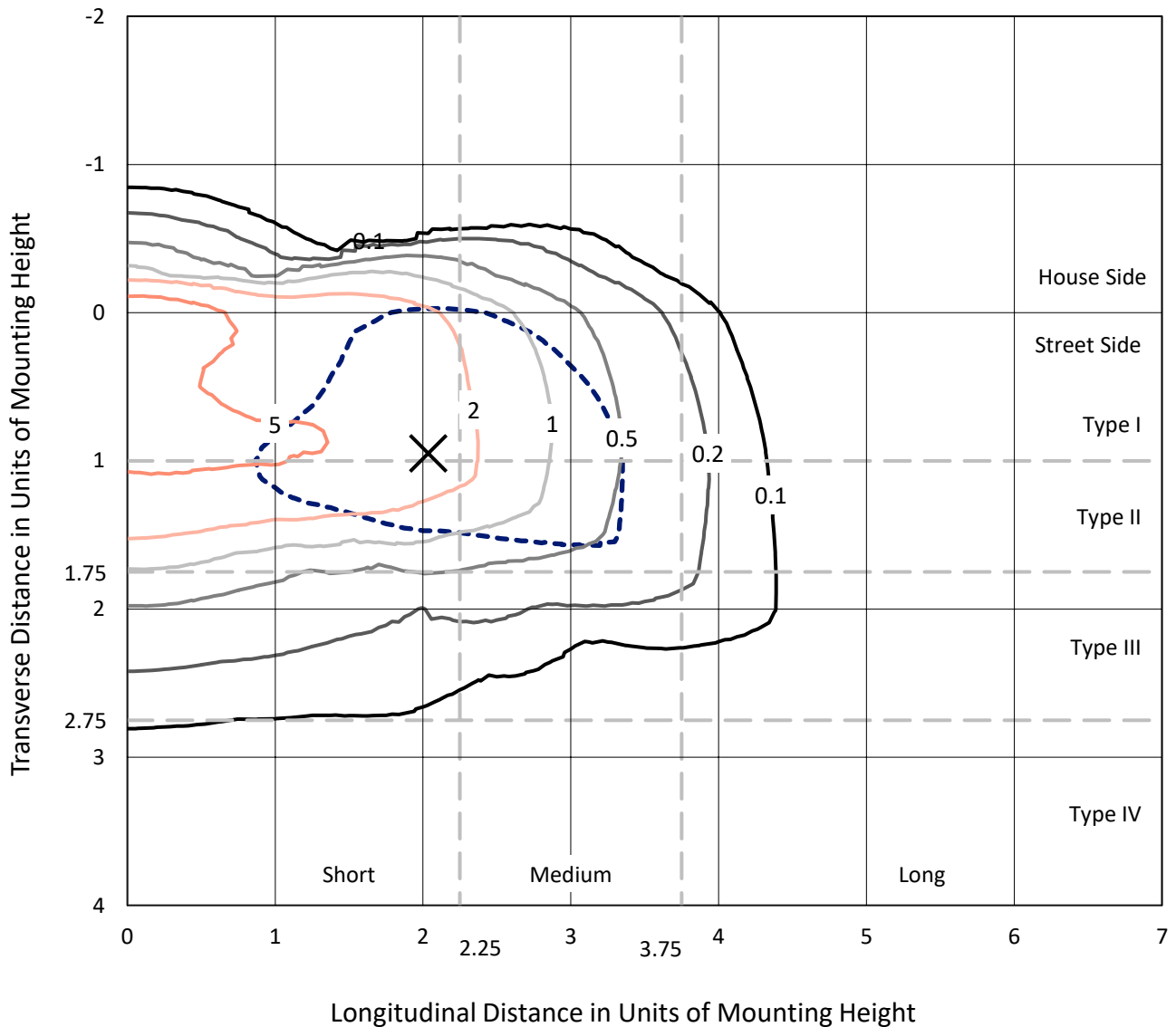
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

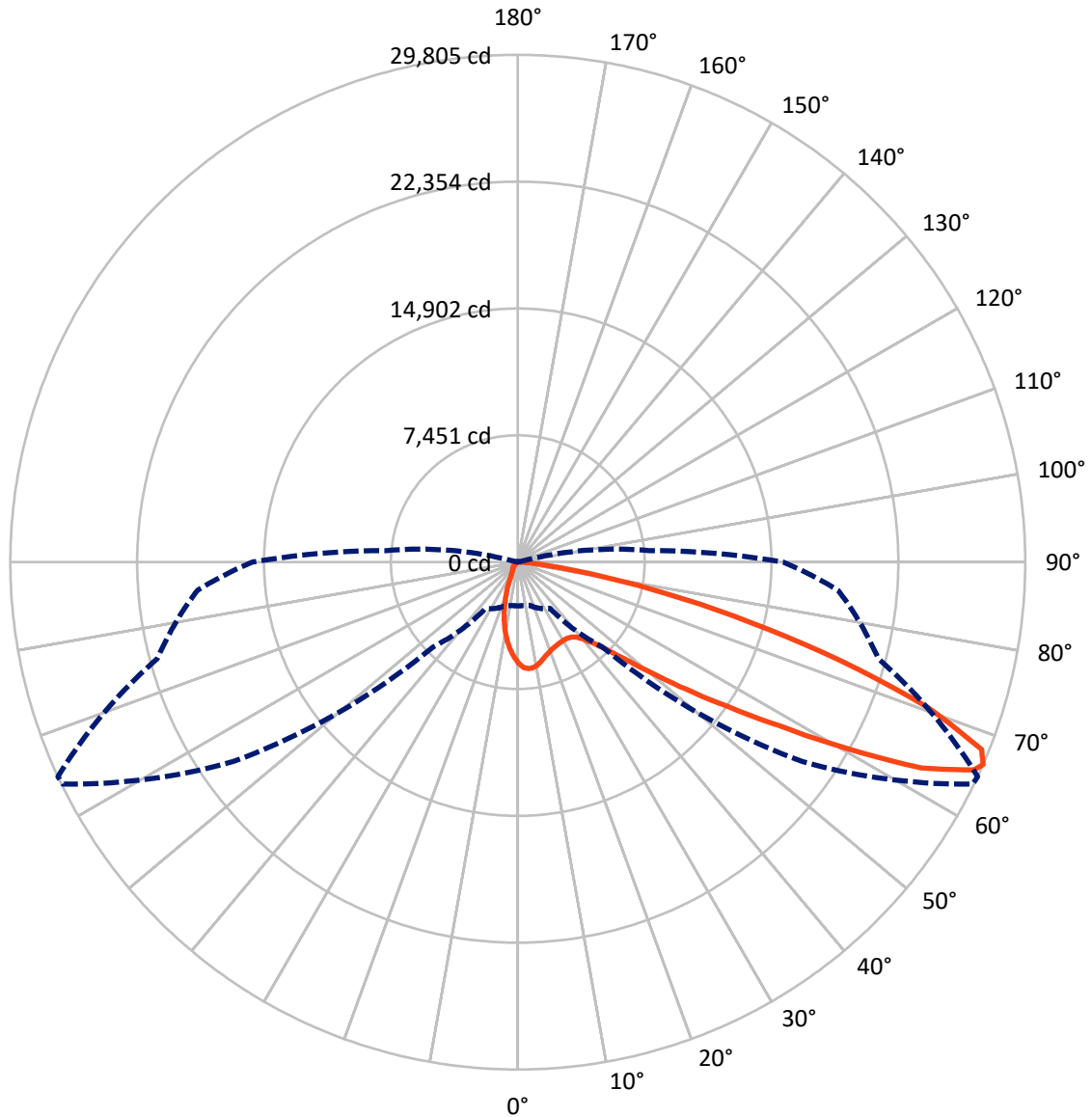
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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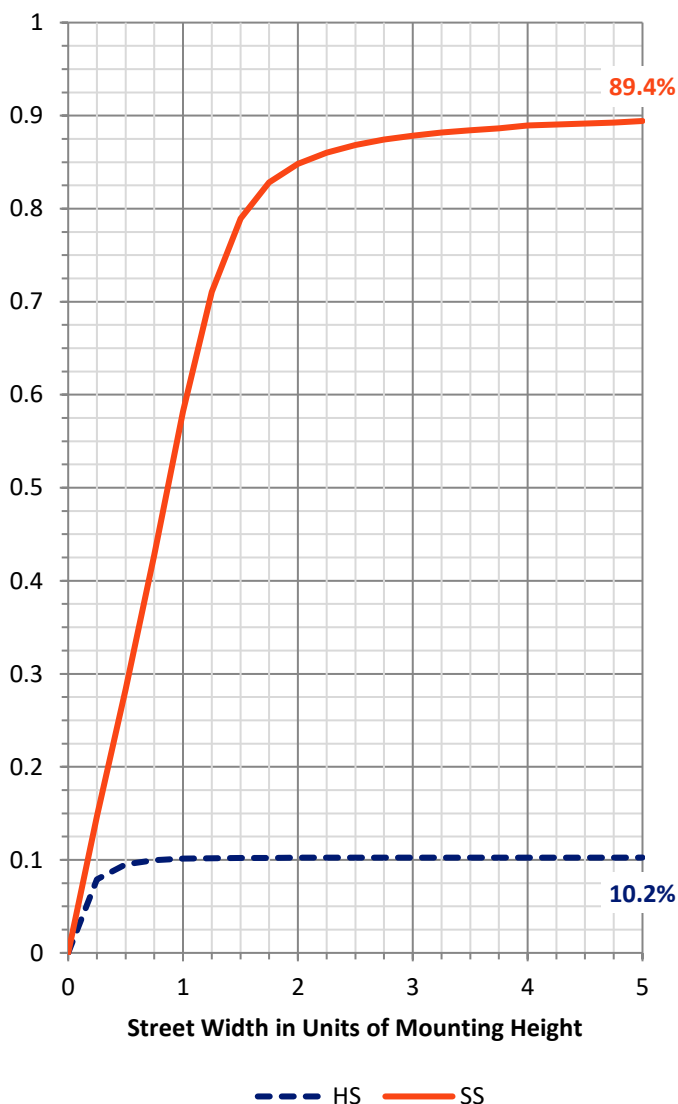
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2590.1	0.0	2590.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	22455.9	0.0	22455.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	25046.0	0.0	25046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.7	1.9
10°-20°	1058.4	4.2
20°-30°	1516.1	6.1
30°-40°	2214.4	8.8
40°-50°	3713.2	14.8
50°-60°	6196.7	24.7
60°-70°	6577.6	26.3
70°-80°	2979.0	11.9
80°-90°	304.8	1.2
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°	25046.0	100.0
0°-180°	25046.0	100.0

Coefficient of Utilization



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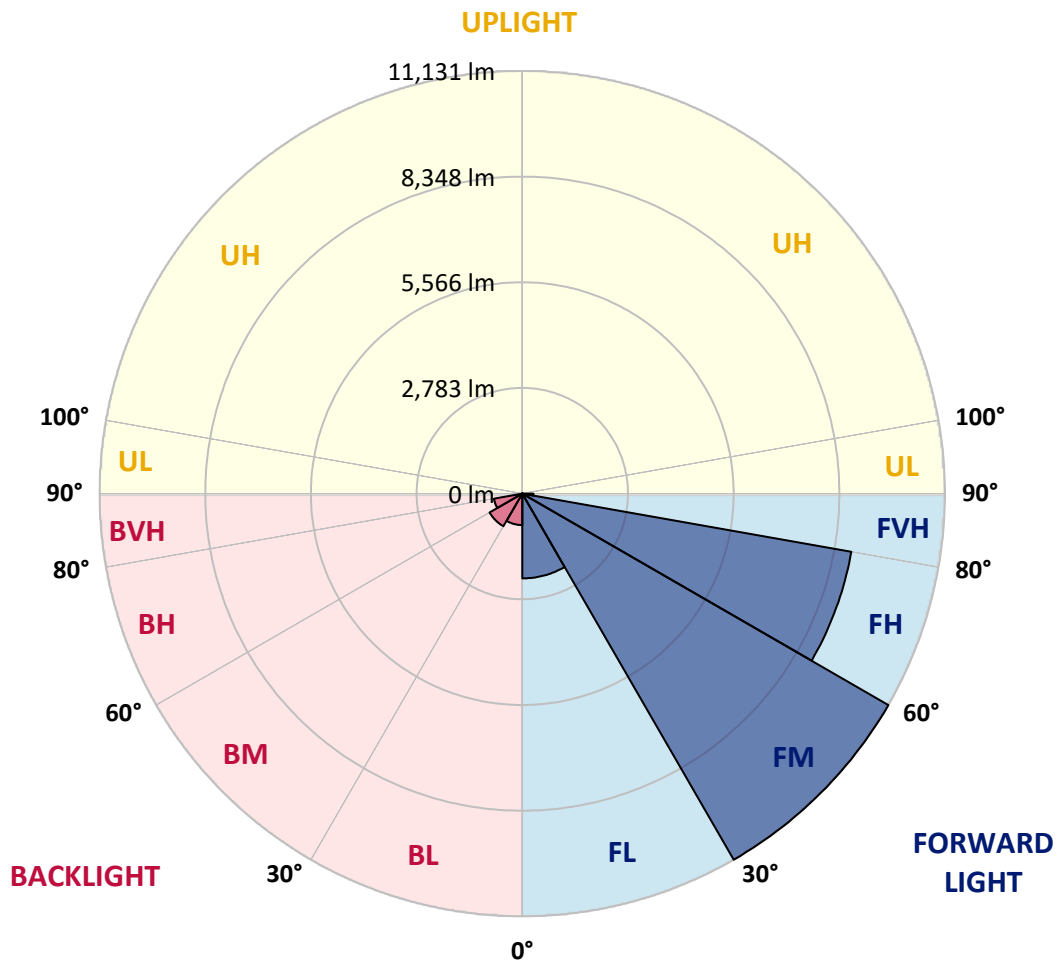
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2231.7	8.9			
FM (30°-60°)	11131.0	44.4			
FH (60°-80°)	8798.1	35.1			G4/12000
FVH (80°-90°)	295.1	1.2			G3/500
BL (0°-30°)	828.5	3.3	B2/1000		
BM (30°-60°)	993.3	4.0	B1/1000		
BH (60°-80°)	758.5	3.0	B2/1000		G2/1000
BVH (80°-90°)	9.7	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5939.3	5939.3	5939.3	5939.3	5939.3	5939.3	5939.3	5939.3	5939.3	5939.3	5939.3
2.5°	6259.0	6265.8	6274.3	6286.1	6294.6	6269.2	6233.7	6193.1	6184.6	6098.3	5993.5
5°	5924.1	5934.3	6008.7	6049.3	6140.6	6223.5	6276.0	6282.7	6279.3	6198.2	6030.7
7.5°	5447.1	5475.8	5548.6	5619.6	5790.5	5947.8	6133.9	6264.1	6272.6	6250.6	6042.5
10°	5059.7	5078.3	5115.5	5255.9	5398.0	5638.2	5898.7	6144.0	6164.3	6252.3	6032.4
12.5°	4756.9	4783.9	4829.6	4937.9	5108.7	5335.4	5631.5	5961.3	6003.6	6220.1	6003.6
15°	4545.4	4559.0	4604.6	4711.2	4877.0	5086.7	5386.2	5770.2	5807.4	6177.9	5998.5
17.5°	4445.6	4460.8	4493.0	4577.6	4714.6	4909.1	5201.8	5616.2	5663.6	6150.8	6017.1
20°	4472.7	4486.2	4487.9	4531.9	4624.9	4789.0	5066.4	5472.4	5533.3	6133.9	6047.6
22.5°	4626.6	4628.3	4608.0	4587.7	4619.9	4738.3	4983.6	5381.1	5443.7	6130.5	6083.1
25°	4856.7	4861.8	4827.9	4756.9	4692.6	4753.5	4964.9	5321.9	5377.7	6122.0	6105.1
27.5°	5174.7	5173.0	5162.9	5044.5	4861.8	4821.2	4980.2	5289.7	5337.1	6098.3	6113.6
30°	5619.6	5606.1	5584.1	5450.4	5171.3	4985.2	5044.5	5269.4	5313.4	6064.5	6091.6
32.5°	6057.7	6108.5	6105.1	5978.2	5629.8	5277.9	5178.1	5296.5	5328.7	6042.5	6059.4
35°	6568.6	6566.9	6697.2	6649.8	6242.1	5651.8	5406.5	5386.2	5411.5	6057.7	6044.2
37.5°	7042.3	7086.3	7289.3	7338.3	6966.2	6179.5	5729.6	5579.0	5587.5	6160.9	6081.4
40°	7632.7	7717.2	8020.0	8184.1	7856.0	6962.8	6206.6	5932.6	5934.3	6414.7	6221.8
42.5°	8393.9	8527.5	8810.0	9084.1	8908.1	7889.8	6922.2	6492.5	6489.1	6861.3	6543.2
45°	9319.2	9412.3	9733.7	10168.4	10056.8	9183.9	7964.2	7360.3	7316.3	7593.7	7113.3
47.5°	10117.7	10244.5	10571.0	11066.7	11574.2	10763.9	9209.3	8552.9	8524.1	8759.3	8091.1
50°	10466.1	10577.8	10921.2	11616.5	12846.3	12837.8	11063.3	10293.6	10244.5	10371.4	9603.4
52.5°	10083.8	10188.7	10535.5	11401.6	13445.1	15365.1	13749.6	12477.5	12418.3	12255.9	11410.1
55°	8774.5	8860.8	9373.3	10368.0	13215.1	17050.0	17450.9	15175.7	14945.6	14314.6	13455.3
57.5°	6986.5	6942.5	7260.5	8415.9	11865.1	17615.0	21250.3	18536.9	18125.9	16094.2	15185.8
60°	4841.5	4976.8	5105.4	5866.6	8921.7	16635.5	23613.5	22762.6	22221.3	17845.1	16843.6
62.5°	3559.2	3648.9	3733.4	4085.3	5609.5	13282.7	24031.4	27103.4	26623.0	19704.2	18425.3
65°	2814.9	2821.6	2855.5	3202.3	3696.2	8637.5	22023.4	29551.2	29427.7	21493.9	19066.4
66°	2564.5	2566.2	2618.7	2990.8	3317.3	7033.8	20414.7	29737.3	29804.9	21923.6	18878.6
67.5°	2241.4	2234.6	2310.8	2688.0	3021.3	5071.5	17535.5	28982.8	29383.7	22253.5	18203.7
70°	1737.3	1728.9	1821.9	2254.9	2782.7	3383.3	11655.4	24885.6	25531.8	21578.5	16106.1
72.5°	1157.1	1163.8	1322.9	1779.6	2655.9	2979.0	7011.8	18931.1	19844.6	17819.7	12670.3
75°	675.0	686.8	867.8	1322.9	2305.7	2840.3	3968.6	13499.2	14082.9	12305.0	7893.2
77.5°	353.6	358.6	485.5	872.9	1767.8	2637.3	2644.0	8624.0	8898.0	5979.9	3124.4
80°	187.8	182.7	260.5	526.1	1216.3	2315.8	2145.0	4565.7	4746.7	1776.2	790.0
82.5°	71.0	77.8	138.7	345.1	718.9	1662.9	1847.3	2018.1	1955.5	390.8	331.6
85°	13.5	16.9	59.2	204.7	362.0	695.3	1361.8	989.6	916.9	147.2	191.2
87.5°	1.7	3.4	16.9	49.1	52.4	235.1	402.6	274.0	236.8	54.1	79.5
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°	5939.3	5939.3	5939.3	5939.3	5939.3	5939.3	5939.3	5939.3	5939.3	5939.3	5939.3
2.5°	5942.7	5897.0	5744.8	5594.2	5440.3	5301.6	5206.9	5052.9	5014.0	4958.2	4926.0
5°	5930.9	5824.3	5531.6	5211.9	4914.2	4592.8	4347.5	4110.7	3983.8	3919.5	3895.8
7.5°	5897.0	5727.9	5271.1	4770.4	4293.4	3812.9	3395.1	3077.1	2872.4	2732.0	2637.3
10°	5829.4	5595.9	4968.3	4279.8	3559.2	2924.8	2395.4	1992.7	1681.5	1583.4	1586.8
12.5°	5760.0	5448.8	4630.0	3735.1	2841.9	2041.8	1480.2	1162.2	1013.3	964.2	954.1
15°	5695.7	5308.4	4298.4	3207.3	2116.2	1322.9	954.1	842.4	801.8	793.4	791.7
17.5°	5661.9	5178.1	3944.9	2603.4	1476.8	898.3	764.6	734.2	722.3	713.9	710.5
20°	5633.1	5064.8	3606.6	2038.4	1009.9	735.9	685.1	656.4	636.1	627.6	622.5
22.5°	5612.8	4948.0	3256.4	1578.3	773.1	653.0	607.3	570.1	541.3	531.2	524.4
25°	5582.4	4819.5	2902.8	1153.7	651.3	580.2	527.8	483.8	446.6	428.0	424.6
27.5°	5538.4	4674.0	2515.5	854.3	581.9	515.9	451.7	397.5	360.3	340.0	341.7
30°	5467.4	4521.7	2128.1	678.3	526.1	450.0	380.6	328.2	292.7	277.4	275.7
32.5°	5382.8	4337.4	1772.8	581.9	475.3	390.8	318.0	272.4	245.3	233.4	231.8
35°	5303.3	4151.3	1410.8	522.7	422.9	336.6	267.3	228.4	208.1	197.9	199.6
37.5°	5259.3	3985.5	1099.6	475.3	380.6	289.3	230.1	196.2	177.6	169.2	167.5
40°	5288.1	3850.2	874.6	433.1	333.3	248.7	197.9	169.2	150.6	138.7	138.7
42.5°	5423.4	3791.0	705.4	392.5	289.3	214.8	172.5	145.5	125.2	113.3	115.0
45°	5836.1	3853.5	590.4	355.2	248.7	186.1	148.9	120.1	101.5	93.0	91.3
47.5°	6521.3	4088.7	510.9	316.3	213.1	159.0	125.2	99.8	81.2	74.4	72.7
50°	7718.9	4574.2	451.7	277.4	181.0	135.3	103.2	79.5	64.3	57.5	57.5
52.5°	9366.6	5633.1	409.4	233.4	152.2	115.0	84.6	64.3	50.7	45.7	44.0
55°	11088.7	6749.6	387.4	196.2	126.9	94.7	67.7	50.7	38.9	33.8	32.1
57.5°	12744.8	7625.9	362.0	159.0	101.5	72.7	52.4	38.9	27.1	23.7	22.0
60°	14333.2	8334.7	307.9	126.9	79.5	52.4	38.9	27.1	18.6	15.2	15.2
62.5°	15754.2	8747.4	241.9	101.5	60.9	37.2	25.4	20.3	13.5	10.1	10.1
65°	15920.0	8211.2	182.7	77.8	44.0	23.7	15.2	15.2	10.1	6.8	6.8
66°	15586.7	7756.1	160.7	71.0	38.9	20.3	13.5	11.8	8.5	5.1	5.1
67.5°	14842.4	6979.7	138.7	60.9	32.1	15.2	10.1	10.1	6.8	3.4	3.4
70°	12824.3	5700.8	110.0	45.7	23.7	11.8	6.8	6.8	5.1	3.4	3.4
72.5°	9774.3	4256.2	89.7	33.8	16.9	8.5	5.1	5.1	5.1	3.4	3.4
75°	5895.3	2292.2	69.4	25.4	15.2	6.8	3.4	5.1	6.8	5.1	3.4
77.5°	2172.1	779.8	54.1	20.3	11.8	6.8	3.4	3.4	6.8	5.1	5.1
80°	532.9	203.0	38.9	16.9	11.8	6.8	3.4	3.4	6.8	6.8	6.8
82.5°	247.0	86.3	27.1	15.2	11.8	6.8	3.4	3.4	5.1	6.8	6.8
85°	142.1	40.6	22.0	16.9	11.8	6.8	3.4	3.4	5.1	6.8	6.8
87.5°	57.5	20.3	20.3	16.9	13.5	8.5	3.4	3.4	3.4	5.1	5.1
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)