

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: P944496

Luminaire Tested: **GALN-SB9C-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-722-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44194 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 449.8
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

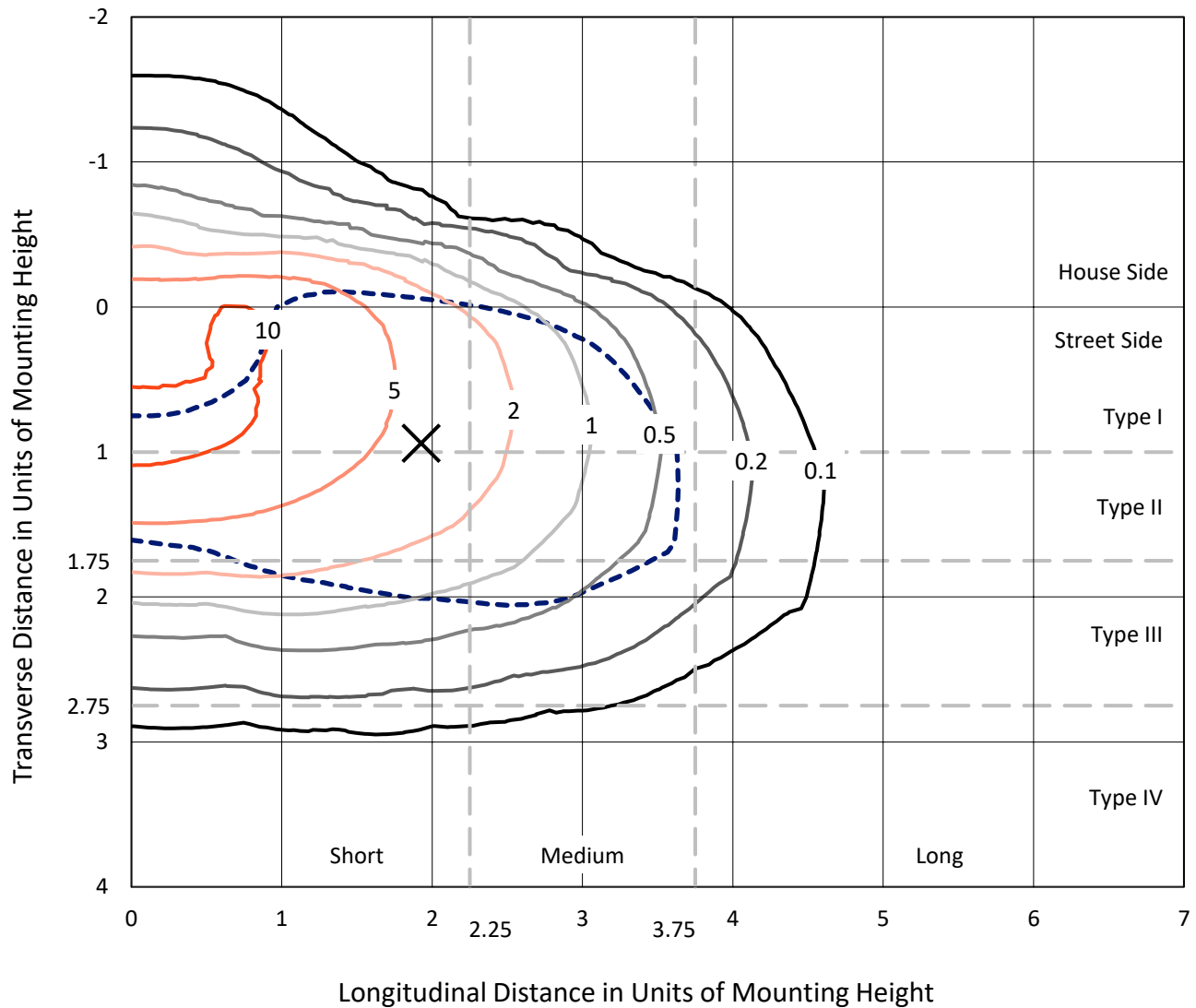


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

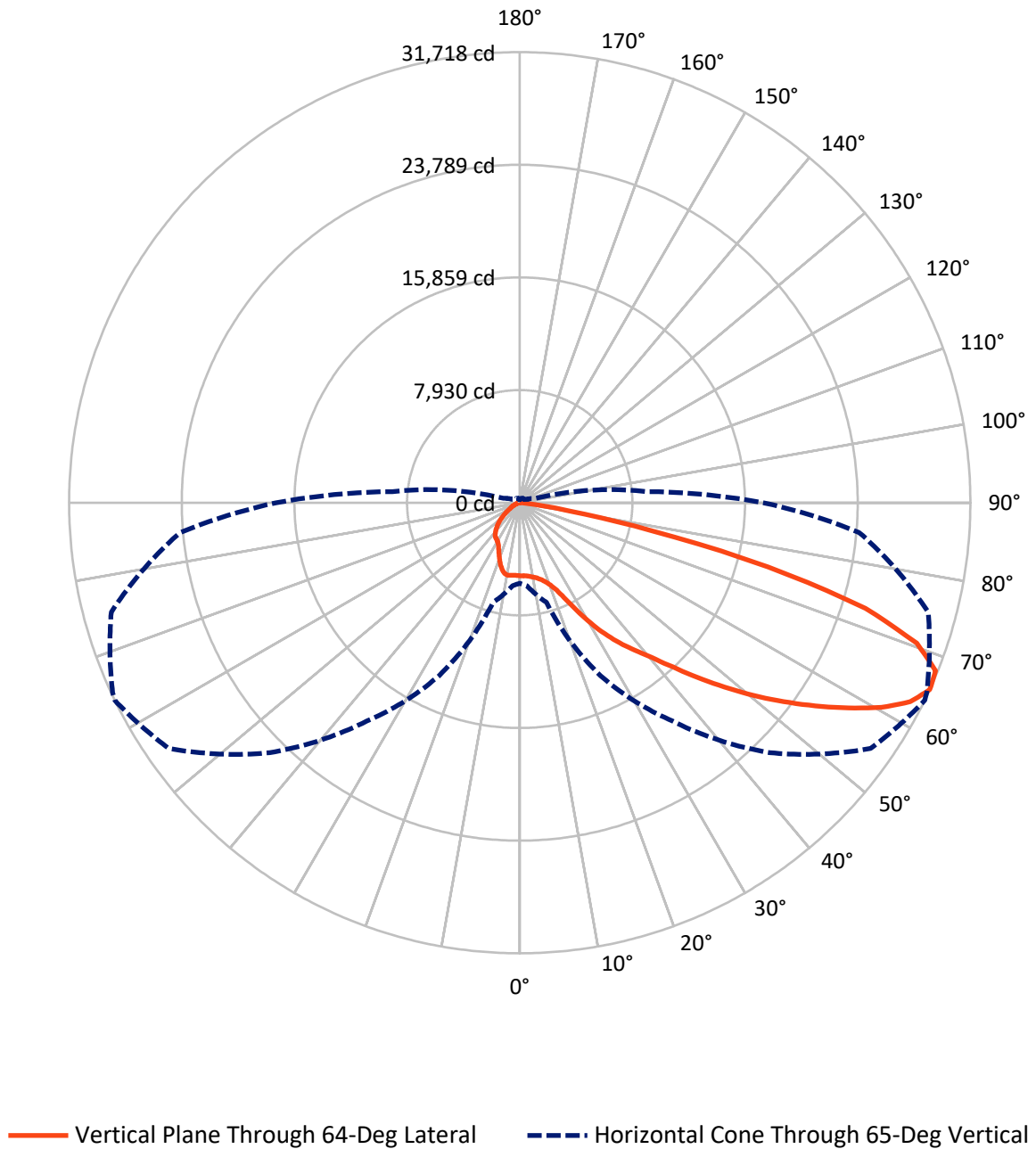


Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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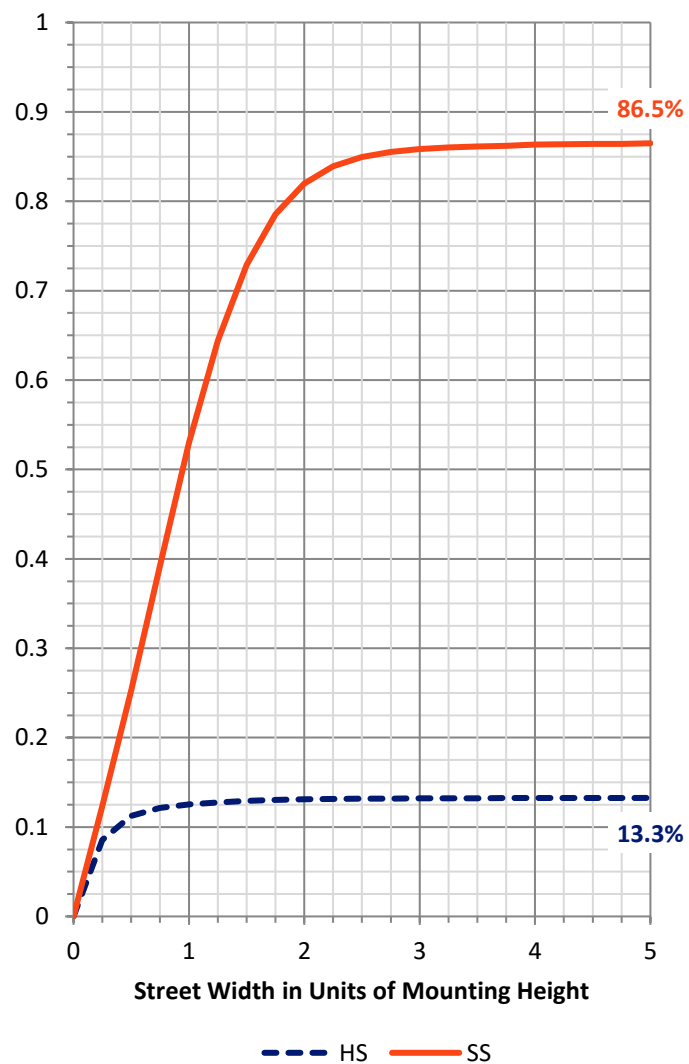
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5910.1	0.0	5910.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	38283.9	0.0	38283.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	44194.0	0.0	44194.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.2	1.1
10°-20°	1286.3	2.9
20°-30°	2437.4	5.5
30°-40°	4932.1	11.2
40°-50°	8401.8	19.0
50°-60°	11425.8	25.9
60°-70°	10729.4	24.3
70°-80°	4298.7	9.7
80°-90°	208.3	0.5
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°	44194.0	100.0
0°-180°	44194.0	100.0

Coefficient of Utilization



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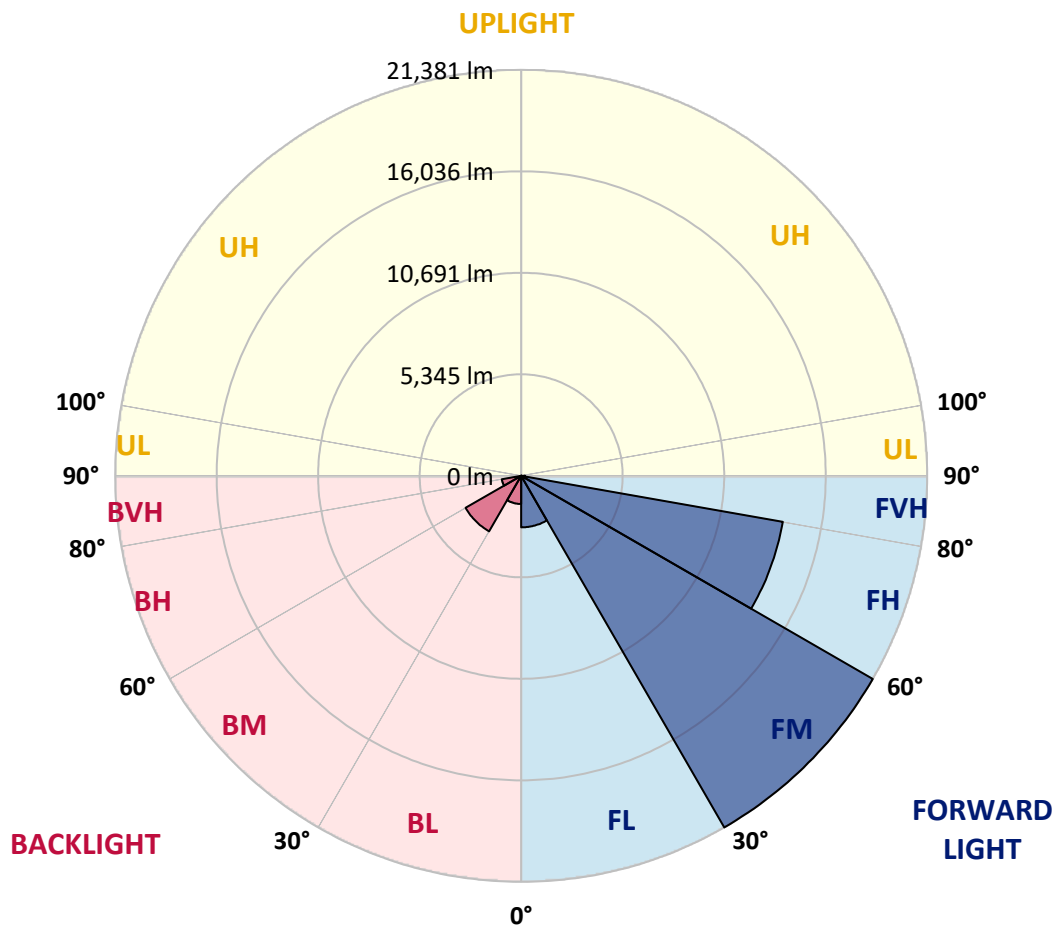
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2714.0	6.1			
FM	(30°-60°)	21381.0	48.4			
FH	(60°-80°)	13990.8	31.7			G5
FVH	(80°-90°)	198.1	0.4			G2/225
BL	(0°-30°)	1483.8	3.4	B3/2500		
BM	(30°-60°)	3378.8	7.6	B3/5000		
BH	(60°-80°)	1037.3	2.3	B3/2500		G3/2500
BVH	(80°-90°)	10.2	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2
2.5°	5122.4	5158.0	5149.1	5140.2	5137.3	5143.2	5146.1	5143.2	5143.2	5143.2	5146.1
5°	5024.7	5054.3	5054.3	5075.0	5104.7	5140.2	5166.9	5172.8	5178.7	5187.6	5184.7
7.5°	4838.0	4861.7	4879.5	4947.6	5021.7	5116.5	5196.5	5238.0	5243.9	5276.5	5288.4
10°	4710.6	4740.3	4769.9	4841.0	4947.6	5089.9	5226.1	5326.9	5341.7	5418.7	5454.3
12.5°	4704.7	4734.3	4772.9	4849.9	4974.3	5125.4	5291.3	5436.5	5463.2	5575.7	5649.8
15°	4766.9	4802.5	4838.0	4932.8	5066.2	5249.8	5427.6	5608.3	5635.0	5795.0	5875.0
17.5°	4894.3	4941.7	4968.4	5063.2	5205.4	5409.8	5643.9	5851.3	5875.0	6061.6	6162.3
20°	5146.1	5202.4	5211.3	5288.4	5427.6	5646.8	5925.3	6183.1	6212.7	6426.0	6538.6
22.5°	5667.6	5747.6	5676.5	5715.0	5839.4	6058.6	6360.8	6686.7	6728.2	6971.1	7071.9
25°	6586.0	6698.6	6514.9	6449.7	6503.0	6731.2	7110.4	7522.2	7569.6	7765.1	7815.5
27.5°	8390.3	8245.1	7966.6	7694.0	7534.1	7664.4	8091.0	8600.6	8659.9	8849.5	8790.2
30°	10372.3	10244.9	9868.6	9264.2	8885.0	8864.3	9258.3	9827.2	9895.3	10076.0	9895.3
32.5°	12357.3	12235.8	11827.0	11083.3	10425.6	10099.7	10372.3	11003.3	11038.9	11154.4	10887.8
35°	14309.7	14185.2	13776.4	13015.0	12206.2	11465.5	11412.2	12123.2	12135.1	12256.5	11859.5
37.5°	16273.9	16170.2	15734.7	14988.1	14191.2	13169.0	12674.3	13183.9	13198.7	13317.2	12905.4
40°	17675.3	17719.7	17420.5	16842.7	16158.4	15041.4	14090.4	14312.6	14223.7	14422.2	14176.3
42.5°	18878.1	18967.0	18706.3	18415.9	18018.9	17035.3	15844.3	15805.8	15663.6	15770.3	15515.5
45°	19918.0	19992.1	19758.0	19689.9	19681.0	18990.7	17761.2	17530.1	17331.6	17310.8	17005.7
47.5°	20300.2	20442.4	20543.1	20771.2	21215.6	20925.3	19743.2	19384.7	19162.5	18999.6	18516.6
50°	20445.3	20596.4	20940.1	21603.7	22655.5	22779.9	21716.3	21313.4	21040.8	20744.6	20033.5
52.5°	20249.8	20519.4	20981.6	22098.5	23624.3	24267.2	23609.5	23256.9	22945.8	22462.9	21408.2
55°	19097.3	19366.9	20312.0	22092.6	24107.2	25310.0	25398.9	25241.9	24892.3	24130.9	22519.2
57.5°	16667.9	17067.9	18564.0	21340.1	24098.3	26207.7	27152.8	27265.4	26874.3	25784.1	23393.2
60°	13302.4	13844.5	15669.5	19672.1	23354.7	26693.6	28690.4	29253.3	28838.6	27413.5	24101.3
62.5°	9282.0	9910.1	11637.3	17059.0	21654.1	26344.0	29813.3	30853.2	30539.1	28871.2	24373.8
65°	5661.6	5863.1	7255.6	13423.8	18762.5	24880.4	30159.9	31718.3	31614.6	29762.9	23970.9
67.5°	3771.5	3940.3	4340.3	9205.0	14564.5	21956.3	29330.4	31567.2	31596.8	29617.7	22495.5
70°	2272.4	2417.5	2678.2	5353.5	9439.0	17379.0	26761.7	29641.4	29813.3	27677.2	19698.7
72.5°	936.2	1034.0	1271.0	2426.4	4888.4	11030.0	21310.4	25449.3	25849.2	23271.7	15118.5
75°	530.3	580.7	746.6	1217.7	2121.3	5140.2	12908.3	18066.3	18655.9	16039.9	9095.4
77.5°	352.6	376.3	482.9	788.1	1194.0	1753.9	5516.5	9412.4	10538.2	8760.6	3937.4
80°	237.0	257.8	331.8	527.4	776.2	752.5	1756.9	3487.1	4289.9	3010.1	959.9
82.5°	160.0	162.9	237.0	346.6	491.8	364.4	518.5	1084.3	1362.8	871.0	364.4
85°	91.8	88.9	174.8	201.5	219.2	151.1	157.0	325.9	426.6	367.4	207.4
87.5°	11.9	17.8	68.1	53.3	29.6	32.6	32.6	56.3	83.0	88.9	44.4
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°	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2	5140.2
2.5°	5146.1	5143.2	5134.3	5125.4	5104.7	5092.8	5098.7	5092.8	5089.9	5092.8	5104.7
5°	5184.7	5175.8	5152.1	5122.4	5081.0	5030.6	4998.0	4950.6	4906.2	4879.5	4885.4
7.5°	5288.4	5279.5	5246.9	5163.9	5030.6	4820.3	4627.7	4458.8	4331.4	4257.3	4260.3
10°	5454.3	5439.5	5389.1	5205.4	4855.8	4396.6	4014.4	3697.4	3490.0	3392.2	3383.4
12.5°	5649.8	5632.0	5543.1	5166.9	4524.0	3807.0	3279.7	2927.1	2734.5	2648.6	2639.7
15°	5880.9	5857.2	5682.4	4983.2	4041.1	3155.2	2672.3	2408.6	2284.2	2207.2	2210.1
17.5°	6168.3	6126.8	5786.1	4707.7	3516.7	2657.5	2299.0	2100.5	1990.9	1916.8	1910.9
20°	6541.6	6473.4	5869.0	4378.8	3033.8	2343.5	2047.2	1881.3	1798.3	1733.2	1721.3
22.5°	7063.0	6965.2	5969.8	4023.3	2693.1	2127.2	1860.6	1739.1	1670.9	1596.9	1585.0
25°	7708.9	7593.3	6094.2	3694.4	2459.0	1940.5	1724.3	1623.5	1543.5	1457.6	1448.7
27.5°	8612.5	8405.1	6242.3	3424.8	2257.5	1780.6	1599.8	1487.3	1395.4	1324.3	1309.5
30°	9619.8	9279.1	6372.7	3261.9	2073.9	1632.4	1436.9	1324.3	1238.4	1188.0	1179.1
32.5°	10573.7	10111.6	6458.6	3190.8	1908.0	1463.6	1259.1	1137.7	1072.5	1057.7	1066.6
35°	11474.4	10864.1	6449.7	3122.6	1759.8	1294.7	1084.3	959.9	909.5	918.4	918.4
37.5°	12511.3	11667.0	6387.5	3016.0	1638.4	1140.6	933.2	823.6	779.2	782.1	794.0
40°	13717.1	12594.3	6349.0	2814.5	1505.0	998.4	808.8	719.9	687.3	675.5	672.5
42.5°	15002.9	13492.0	6354.9	2586.4	1339.1	871.0	722.9	648.8	619.2	610.3	607.3
45°	16294.6	14348.2	6363.8	2349.4	1164.3	773.3	660.7	598.5	580.7	568.8	568.8
47.5°	17509.3	15077.0	6197.9	2094.6	992.5	699.2	610.3	568.8	554.0	539.2	539.2
50°	18641.1	15562.9	5797.9	1798.3	856.2	639.9	571.8	542.2	527.4	512.5	512.5
52.5°	19521.0	15639.9	5137.3	1493.2	761.4	595.5	548.1	521.4	503.7	488.8	485.9
55°	19912.1	15157.0	4198.1	1208.8	687.3	557.0	524.4	497.7	477.0	462.2	459.2
57.5°	19811.3	14140.8	3273.7	971.8	616.2	518.5	494.8	477.0	453.3	429.6	426.6
60°	19316.6	12780.9	2467.9	808.8	551.1	477.0	462.2	447.4	414.8	379.2	373.3
62.5°	18460.4	11071.5	1759.8	669.6	480.0	429.6	423.7	411.8	364.4	299.2	293.3
65°	17150.9	8994.6	1185.1	557.0	411.8	376.3	379.2	358.5	296.3	222.2	216.3
67.5°	15237.0	6577.1	758.4	456.3	343.7	314.0	317.0	305.2	251.8	189.6	180.7
70°	12798.7	4355.1	494.8	346.6	275.5	242.9	260.7	263.7	213.3	154.1	148.1
72.5°	9382.8	2571.6	346.6	257.8	201.5	168.9	213.3	219.2	171.8	115.5	109.6
75°	5347.6	1220.6	260.7	186.6	124.4	118.5	165.9	165.9	118.5	77.0	71.1
77.5°	2245.7	509.6	183.7	121.5	71.1	68.1	112.6	103.7	59.3	35.6	35.6
80°	648.8	228.1	97.8	59.3	29.6	26.7	44.4	32.6	14.8	5.9	5.9
82.5°	254.8	100.7	38.5	23.7	11.9	11.9	5.9	0.0	0.0	0.0	0.0
85°	151.1	41.5	17.8	8.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	38.5	8.9	5.9	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)