

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: P943826

Luminaire Tested: **GALN-SB8C-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943826
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-SB8C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 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: 44053 lumens
Efficiency: N/A
Efficacy: 110.2 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): 399.8
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

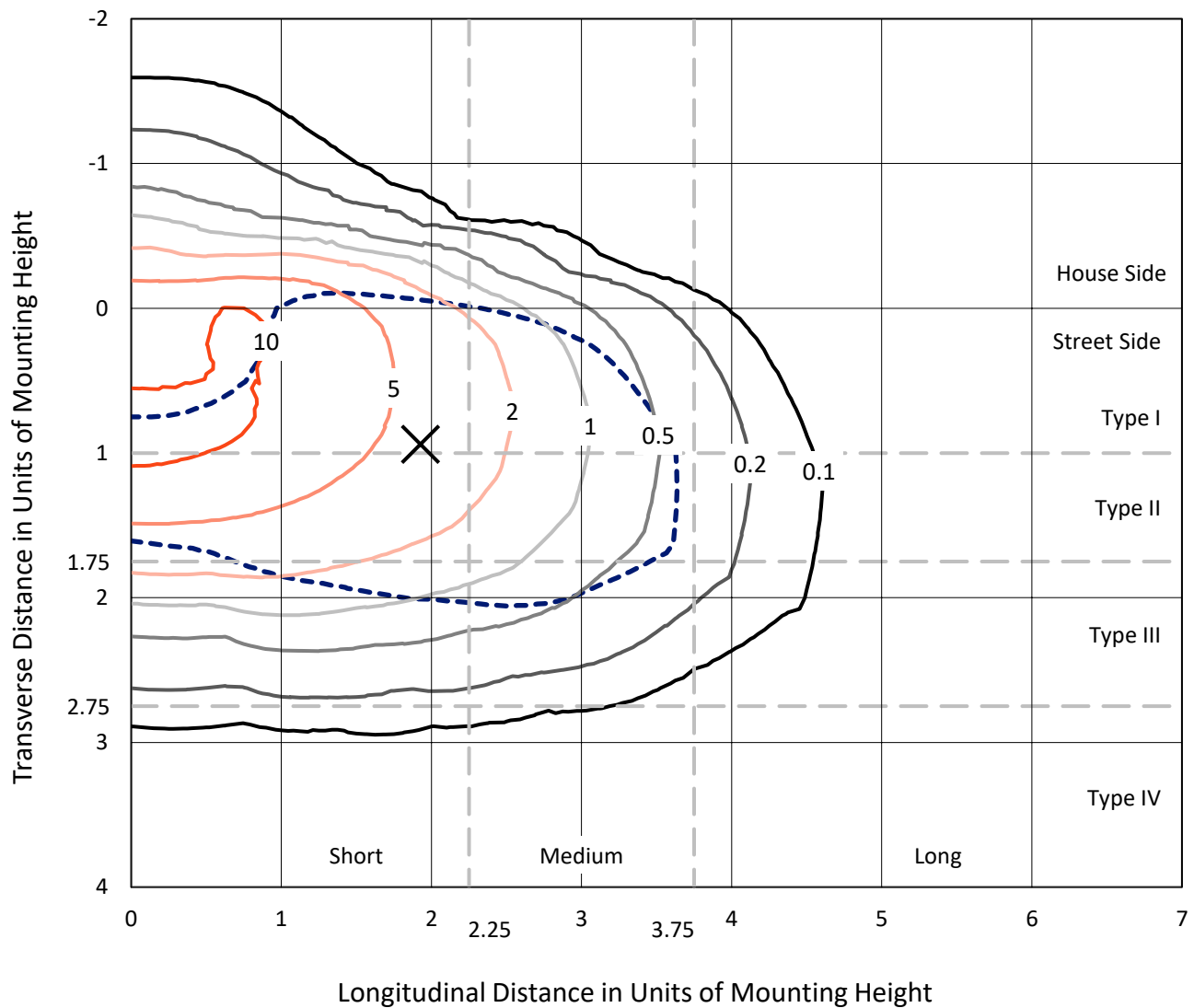


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

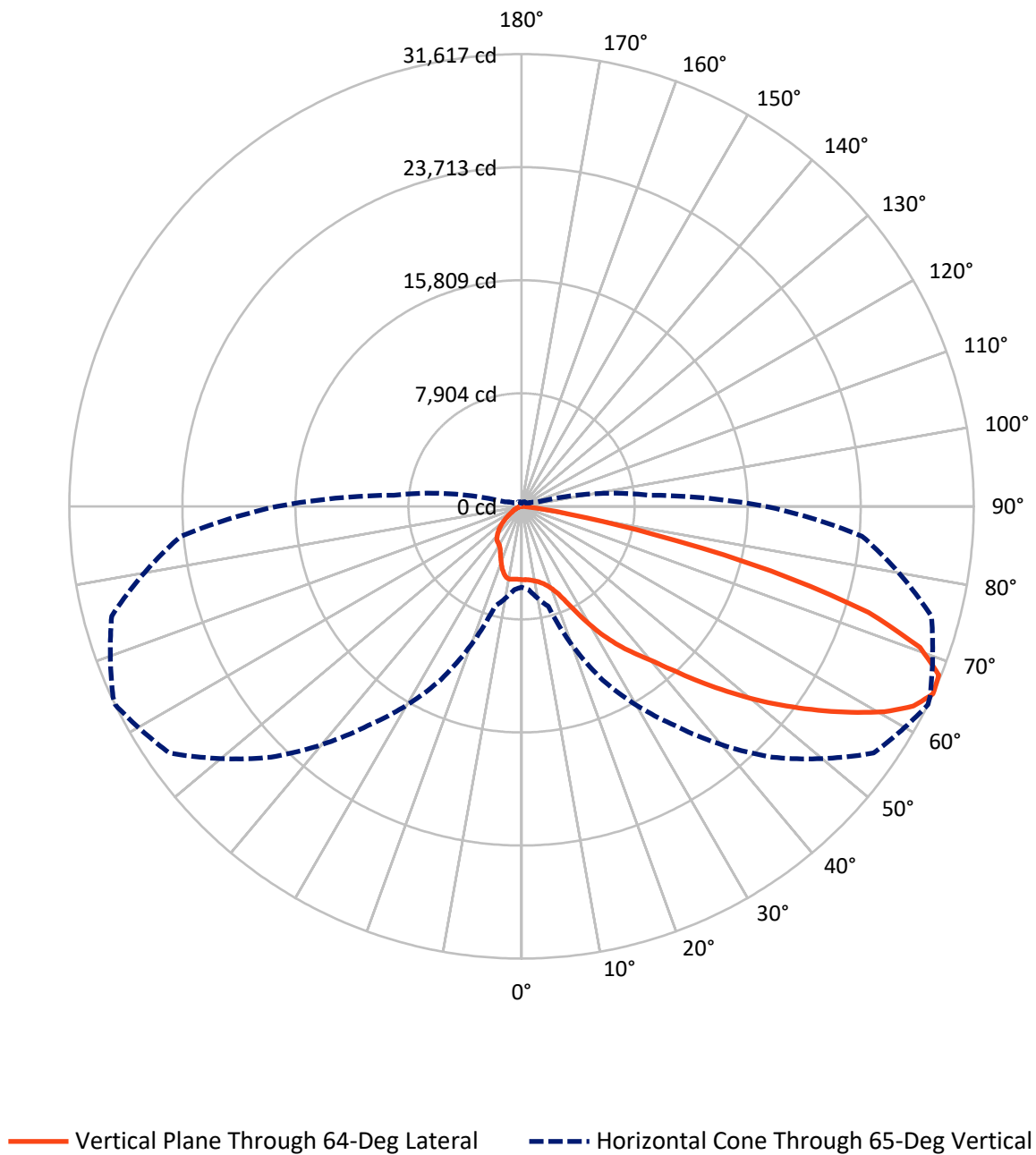


Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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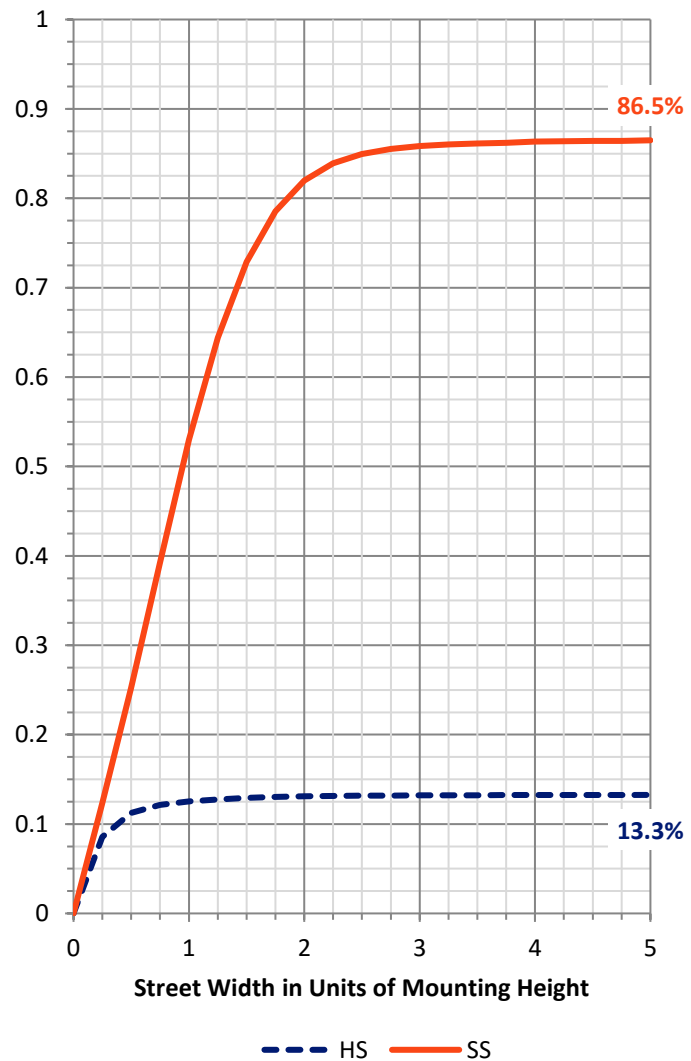
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5891.2	0.0	5891.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	38161.8	0.0	38161.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	44053.0	0.0	44053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.7	1.1
10°-20°	1282.2	2.9
20°-30°	2429.6	5.5
30°-40°	4916.3	11.2
40°-50°	8375.0	19.0
50°-60°	11389.4	25.9
60°-70°	10695.2	24.3
70°-80°	4285.0	9.7
80°-90°	207.6	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°	44053.0	100.0
0°-180°	44053.0	100.0

Coefficient of Utilization



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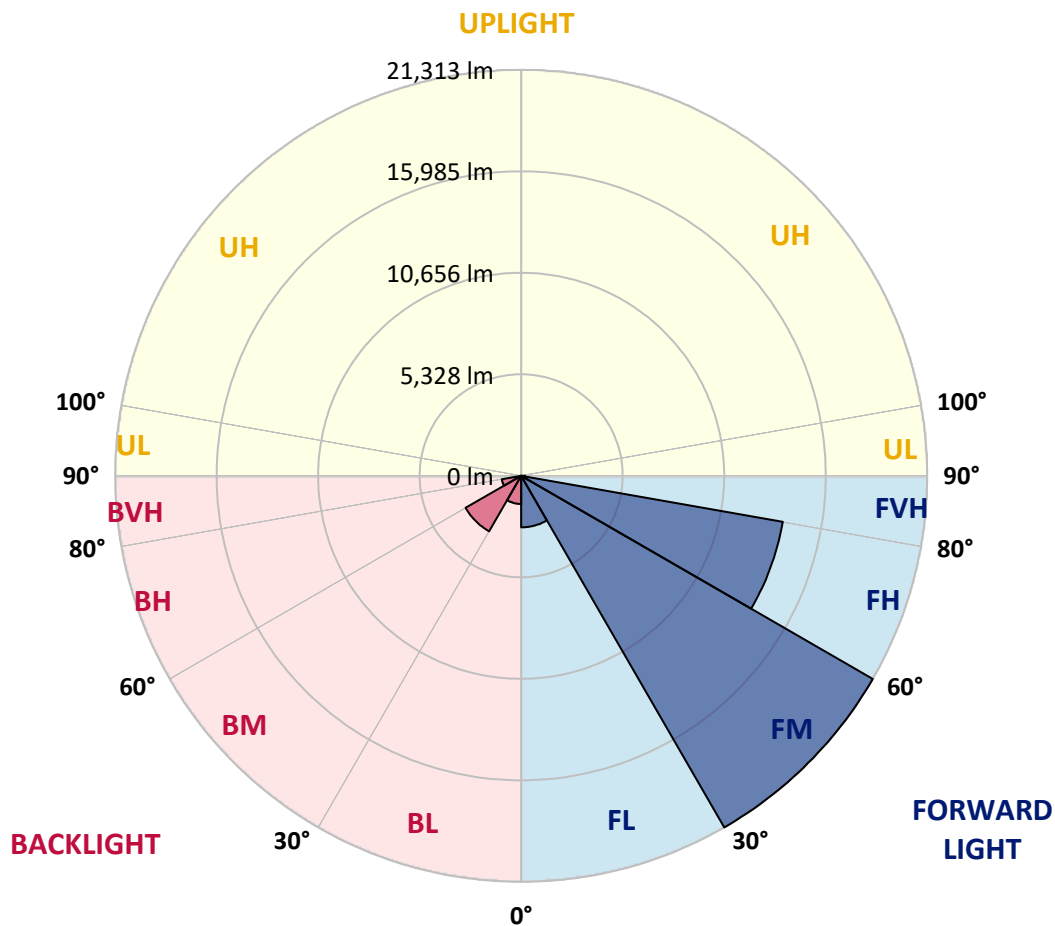
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2705.4	6.1			
FM	(30°-60°)	21312.8	48.4			
FH	(60°-80°)	13946.2	31.7			G5
FVH	(80°-90°)	197.4	0.4			G2/225
BL	(0°-30°)	1479.1	3.4	B3/2500		
BM	(30°-60°)	3368.0	7.6	B3/5000		
BH	(60°-80°)	1034.0	2.3	B3/2500		G3/2500
BVH	(80°-90°)	10.1	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°	5123.8	5123.8	5123.8	5123.8	5123.8	5123.8	5123.8	5123.8	5123.8	5123.8	5123.8
2.5°	5106.1	5141.5	5132.7	5123.8	5120.9	5126.8	5129.7	5126.8	5126.8	5126.8	5129.7
5°	5008.6	5038.2	5038.2	5058.9	5088.4	5123.8	5150.4	5156.3	5162.2	5171.1	5168.1
7.5°	4822.6	4846.2	4863.9	4931.9	5005.7	5100.2	5179.9	5221.3	5227.2	5259.7	5271.5
10°	4695.6	4725.1	4754.7	4825.5	4931.9	5073.6	5209.5	5309.9	5324.6	5401.4	5436.9
12.5°	4689.7	4719.2	4757.6	4834.4	4958.4	5109.1	5274.4	5419.1	5445.7	5557.9	5631.8
15°	4751.7	4787.2	4822.6	4917.1	5050.0	5233.1	5410.3	5590.4	5617.0	5776.5	5856.2
17.5°	4878.7	4926.0	4952.5	5047.0	5188.8	5392.6	5625.9	5832.6	5856.2	6042.3	6142.7
20°	5129.7	5185.8	5194.7	5271.5	5410.3	5628.8	5906.4	6163.4	6192.9	6405.5	6517.7
22.5°	5649.5	5729.2	5658.4	5696.7	5820.8	6039.3	6340.5	6665.4	6706.7	6948.9	7049.3
25°	6565.0	6677.2	6494.1	6429.1	6482.3	6709.7	7087.7	7498.2	7545.5	7740.4	7790.6
27.5°	8363.5	8218.8	7941.2	7669.5	7510.0	7640.0	8065.2	8573.2	8632.2	8821.2	8762.2
30°	10339.2	10212.2	9837.1	9234.7	8856.7	8836.0	9228.8	9795.8	9863.7	10043.9	9863.7
32.5°	12317.8	12196.8	11789.2	11048.0	10392.4	10067.5	10339.2	10968.2	11003.7	11118.8	10853.1
35°	14264.0	14140.0	13732.4	12973.5	12167.2	11428.9	11375.8	12084.5	12096.4	12217.4	11821.7
37.5°	16222.0	16118.6	15684.5	14940.3	14145.9	13127.0	12633.8	13141.8	13156.6	13274.7	12864.2
40°	17618.9	17663.2	17364.9	16789.0	16106.8	14993.5	14045.5	14267.0	14178.4	14376.2	14131.1
42.5°	18817.9	18906.5	18646.6	18357.2	17961.4	16981.0	15793.8	15755.4	15613.6	15719.9	15466.0
45°	19854.4	19928.3	19695.0	19627.0	19618.2	18930.1	17704.5	17474.2	17276.3	17255.6	16951.4
47.5°	20235.4	20377.2	20477.6	20705.0	21147.9	20858.5	19680.2	19322.9	19101.4	18938.9	18457.6
50°	20380.1	20530.7	20873.3	21534.8	22583.2	22707.2	21647.0	21245.4	20973.7	20678.4	19969.6
52.5°	20185.2	20453.9	20914.6	22028.0	23548.9	24189.8	23534.1	23182.7	22872.6	22391.2	21339.9
55°	19036.4	19305.1	20247.2	22022.1	24030.3	25229.3	25317.9	25161.4	24812.9	24053.9	22447.4
57.5°	16614.8	17013.4	18504.8	21272.0	24021.4	26124.1	27066.2	27178.4	26788.6	25701.8	23318.6
60°	13259.9	13800.4	15619.5	19609.3	23280.2	26608.4	28598.9	29160.0	28746.6	27326.1	24024.4
62.5°	9252.4	9878.5	11600.2	17004.6	21585.0	26260.0	29718.2	30754.7	30441.7	28779.0	24296.1
65°	5643.6	5844.4	7232.4	13381.0	18702.7	24801.1	30063.7	31617.1	31513.7	29668.0	23894.4
67.5°	3759.4	3927.8	4326.5	9175.6	14518.0	21886.2	29236.8	31466.5	31496.0	29523.3	22423.7
70°	2265.1	2409.8	2669.7	5336.5	9408.9	17323.5	26676.4	29546.9	29718.2	27588.9	19635.9
72.5°	933.2	1030.7	1266.9	2418.7	4872.8	10994.8	21242.4	25368.1	25766.8	23197.5	15070.2
75°	528.6	578.8	744.2	1213.8	2114.5	5123.8	12867.1	18008.7	18596.4	15988.7	9066.4
77.5°	351.4	375.1	481.4	785.6	1190.1	1748.3	5498.9	9382.4	10504.6	8732.6	3924.8
80°	236.3	256.9	330.8	525.7	773.7	750.1	1751.3	3475.9	4276.2	3000.5	956.8
82.5°	159.5	162.4	236.3	345.5	490.2	363.2	516.8	1080.9	1358.5	868.2	363.2
85°	91.5	88.6	174.2	200.8	218.5	150.6	156.5	324.9	425.3	366.2	206.7
87.5°	11.8	17.7	67.9	53.2	29.5	32.5	32.5	56.1	82.7	88.6	44.3
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°	5123.8	5123.8	5123.8	5123.8	5123.8	5123.8	5123.8	5123.8	5123.8	5123.8	5123.8
2.5°	5129.7	5126.8	5117.9	5109.1	5088.4	5076.6	5082.5	5076.6	5073.6	5076.6	5088.4
5°	5168.1	5159.3	5135.6	5106.1	5064.8	5014.6	4982.1	4934.8	4890.5	4863.9	4869.8
7.5°	5271.5	5262.6	5230.1	5147.4	5014.6	4804.9	4612.9	4444.6	4317.6	4243.8	4246.7
10°	5436.9	5422.1	5371.9	5188.8	4840.3	4382.6	4001.6	3685.6	3478.9	3381.4	3372.6
12.5°	5631.8	5614.1	5525.5	5150.4	4509.6	3794.9	3269.2	2917.8	2725.8	2640.2	2631.3
15°	5862.1	5838.5	5664.3	4967.3	4028.2	3145.2	2663.8	2401.0	2276.9	2200.1	2203.1
17.5°	6148.6	6107.2	5767.6	4692.7	3505.5	2649.0	2291.7	2093.8	1984.6	1910.7	1904.8
20°	6520.7	6452.8	5850.3	4364.8	3024.1	2336.0	2040.7	1875.3	1792.6	1727.6	1715.8
22.5°	7040.5	6943.0	5950.7	4010.5	2684.5	2120.4	1854.6	1733.5	1665.6	1591.8	1580.0
25°	7684.3	7569.1	6074.8	3682.7	2451.2	1934.4	1718.8	1618.4	1538.6	1453.0	1444.1
27.5°	8585.0	8378.3	6222.4	3413.9	2250.3	1774.9	1594.7	1482.5	1391.0	1320.1	1305.3
30°	9589.1	9249.5	6352.4	3251.5	2067.2	1627.2	1432.3	1320.1	1234.4	1184.2	1175.4
32.5°	10540.0	10079.3	6438.0	3180.6	1901.9	1458.9	1255.1	1134.0	1069.1	1054.3	1063.2
35°	11437.8	10829.4	6429.1	3112.7	1754.2	1290.6	1080.9	956.8	906.6	915.5	915.5
37.5°	12471.4	11629.7	6367.1	3006.4	1633.1	1137.0	930.3	821.0	776.7	779.6	791.5
40°	13673.4	12554.1	6328.7	2805.6	1500.2	995.2	806.2	717.6	685.1	673.3	670.4
42.5°	14955.1	13448.9	6334.6	2578.2	1334.9	868.2	720.6	646.8	617.2	608.4	605.4
45°	16242.7	14302.4	6343.5	2341.9	1160.6	770.8	658.6	596.5	578.8	567.0	567.0
47.5°	17453.5	15028.9	6178.1	2087.9	989.3	697.0	608.4	567.0	552.3	537.5	537.5
50°	18581.6	15513.2	5779.4	1792.6	853.5	637.9	570.0	540.4	525.7	510.9	510.9
52.5°	19458.7	15590.0	5120.9	1488.4	759.0	593.6	546.3	519.8	502.0	487.3	484.3
55°	19848.5	15108.6	4184.7	1204.9	685.1	555.2	522.7	496.1	475.5	460.7	457.7
57.5°	19748.1	14095.7	3263.3	968.7	614.3	516.8	493.2	475.5	451.8	428.2	425.3
60°	19254.9	12740.2	2460.0	806.2	549.3	475.5	460.7	445.9	413.4	378.0	372.1
62.5°	18401.5	11036.2	1754.2	667.4	478.4	428.2	422.3	410.5	363.2	298.3	292.4
65°	17096.1	8965.9	1181.3	555.2	410.5	375.1	378.0	357.3	295.3	221.5	215.6
67.5°	15188.4	6556.1	756.0	454.8	342.6	313.0	316.0	304.2	251.0	189.0	180.1
70°	12757.9	4341.2	493.2	345.5	274.6	242.2	259.9	262.8	212.6	153.6	147.7
72.5°	9352.8	2563.4	345.5	256.9	200.8	168.3	212.6	218.5	171.3	115.2	109.3
75°	5330.5	1216.7	259.9	186.1	124.0	118.1	165.4	165.4	118.1	76.8	70.9
77.5°	2238.5	508.0	183.1	121.1	70.9	67.9	112.2	103.4	59.1	35.4	35.4
80°	646.8	227.4	97.5	59.1	29.5	26.6	44.3	32.5	14.8	5.9	5.9
82.5°	254.0	100.4	38.4	23.6	11.8	11.8	5.9	0.0	0.0	0.0	0.0
85°	150.6	41.3	17.7	8.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	38.4	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)