

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: P954498

Luminaire Tested: **GALN-SB7D-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-727-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65603 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 512.8
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



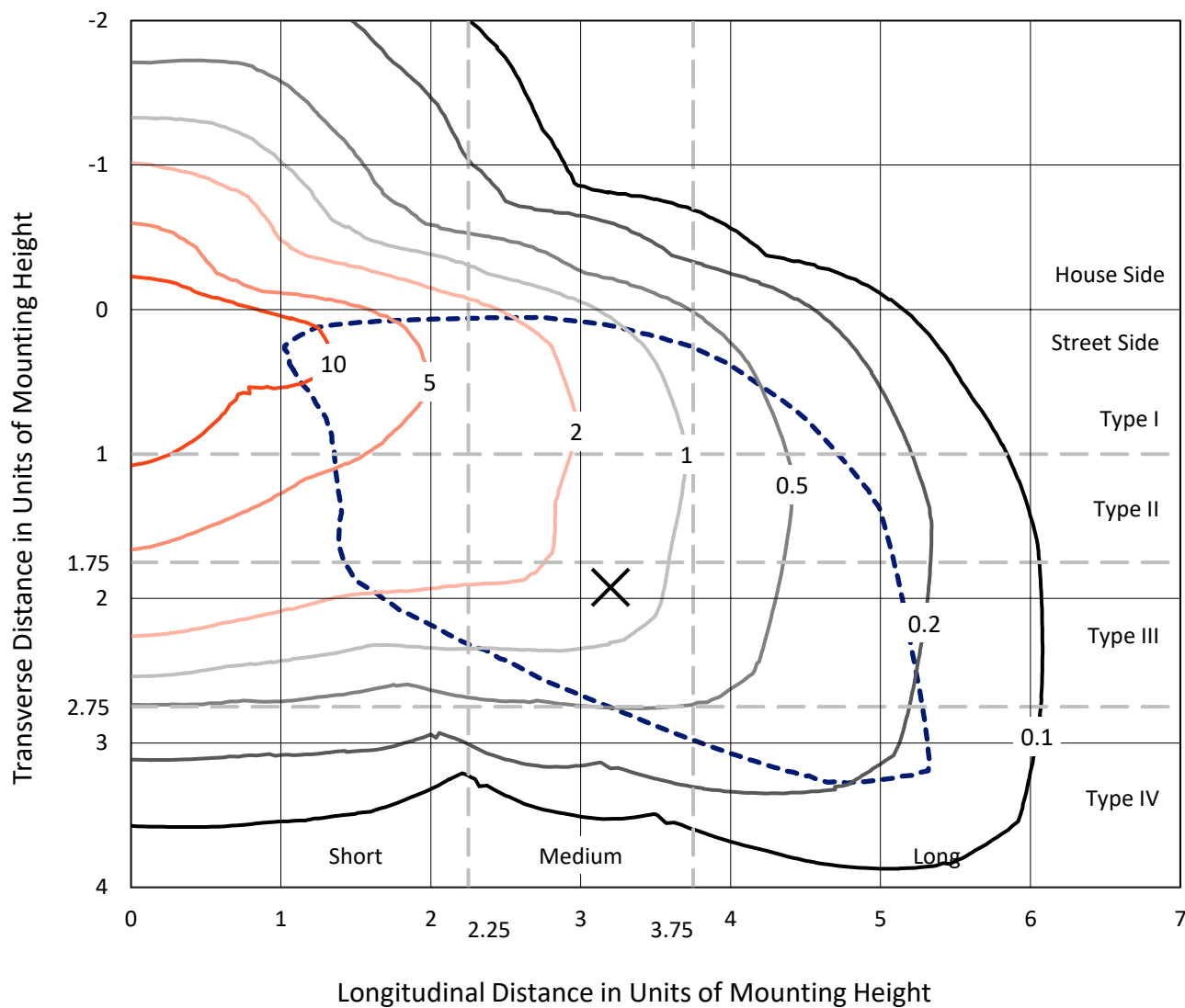
REPORT NUMBER: P954498

CATALOG NUMBER: GALN-SB7D-727-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

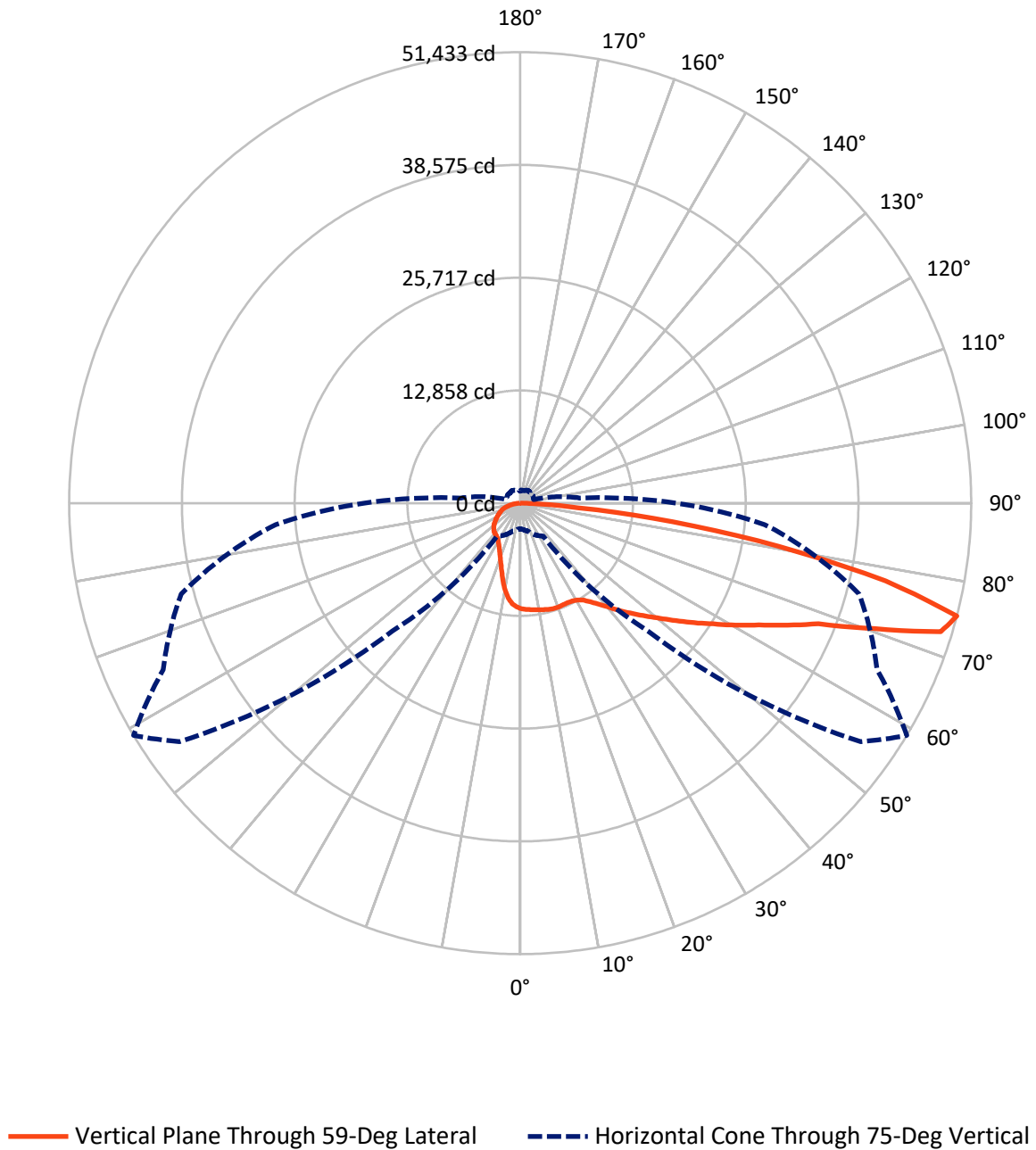
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 fc
Type IV - Medium - N/A

REPORT NUMBER: P954498
CATALOG NUMBER: GALN-SB7D-727-U-SL3

Luminous Intensity Polar Plot



REPORT NUMBER: P954498

CATALOG NUMBER: GALN-SB7D-727-U-SL3

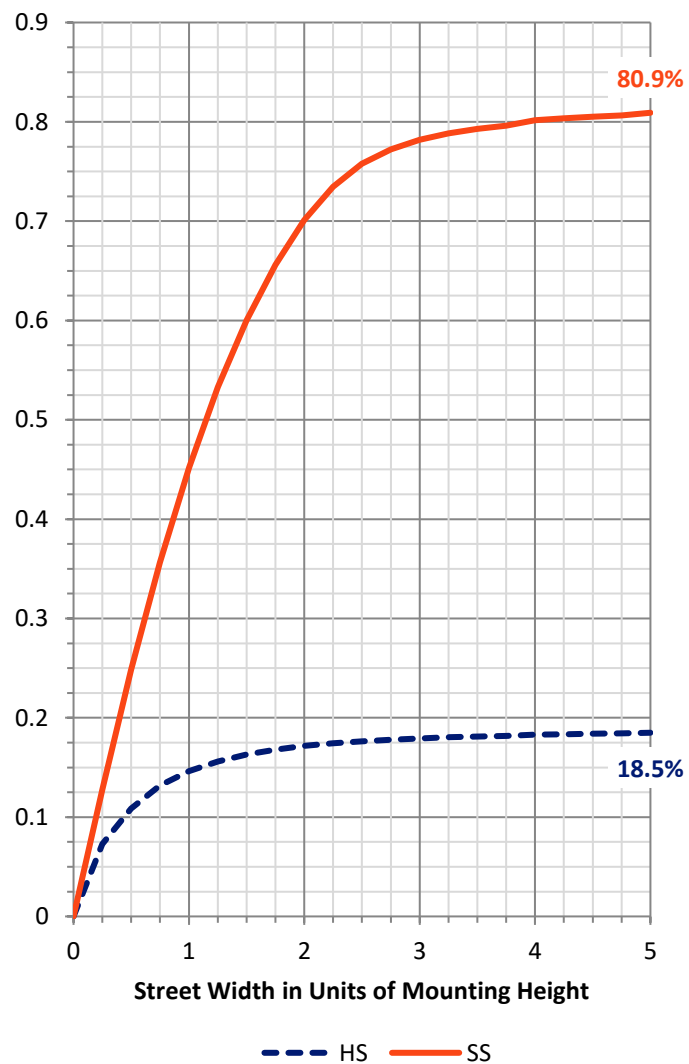
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12304.3	0.0	12304.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	53298.7	0.0	53298.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	65603.0	0.0	65603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1079.7	1.6
10°-20°	2759.8	4.2
20°-30°	4191.9	6.4
30°-40°	6231.1	9.5
40°-50°	9266.8	14.1
50°-60°	12578.5	19.2
60°-70°	15356.3	23.4
70°-80°	12051.4	18.4
80°-90°	2087.6	3.2
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°	65603.0	100.0
0°-180°	65603.0	100.0

Coefficient of Utilization



REPORT NUMBER: P954498

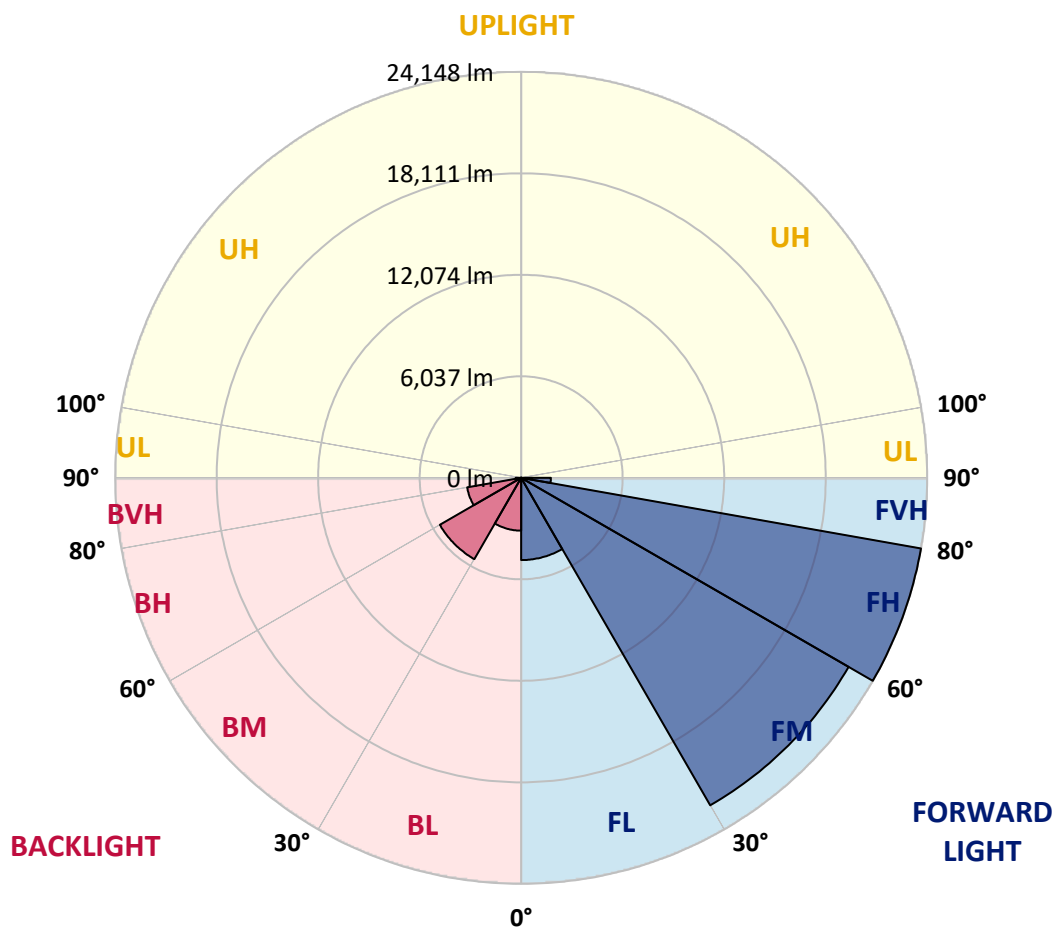
CATALOG NUMBER: GALN-SB7D-727-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4891.4	7.5			
FM	(30°-60°)	22491.4	34.3			
FH	(60°-80°)	24147.8	36.8			G5
FVH	(80°-90°)	1768.0	2.7			G5
BL	(0°-30°)	3139.9	4.8	B4/5000		
BM	(30°-60°)	5584.9	8.5	B4/8500		
BH	(60°-80°)	3259.9	5.0	B4/5000		G4/5000
BVH	(80°-90°)	319.6	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



REPORT NUMBER: P954498

CATALOG NUMBER: GALN-SB7D-727-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	12041.3	12041.3	12041.3	12041.3	12041.3	12041.3	12041.3	12041.3	12041.3	12041.3	12041.3
2.5°	12143.6	12101.3	12143.6	12126.0	12118.9	12104.8	12108.3	12133.0	12118.9	12136.6	12076.6
5°	12062.5	12037.8	12080.1	12069.5	12115.4	12122.5	12168.3	12196.6	12214.2	12217.7	12171.9
7.5°	11928.4	11903.6	11963.6	12013.1	12111.9	12140.1	12235.4	12281.3	12306.0	12348.3	12281.3
10°	11437.8	11427.2	11575.4	11762.5	11995.4	12140.1	12284.8	12362.4	12401.3	12514.2	12436.5
12.5°	10569.7	10583.8	10777.9	11137.8	11603.7	12069.5	12341.3	12454.2	12514.2	12655.3	12620.1
15°	9740.3	9736.8	9948.5	10333.2	10986.1	11759.0	12369.5	12563.6	12665.9	12874.2	12845.9
17.5°	9260.4	9246.2	9394.5	9687.4	10294.4	11282.5	12298.9	12623.6	12842.4	13103.5	13078.8
20°	9172.1	9143.9	9221.5	9366.2	9796.8	10760.2	12115.4	12623.6	12983.6	13322.3	13308.2
22.5°	9493.3	9447.4	9415.6	9398.0	9588.6	10329.7	11907.2	12581.2	13191.8	13636.4	13611.7
25°	10139.1	10068.5	9906.2	9747.4	9690.9	10135.6	11723.7	12570.6	13502.3	14059.9	13968.2
27.5°	11183.7	11095.5	10767.3	10386.1	10043.8	10234.4	11642.5	12634.2	13844.7	14508.1	14324.6
30°	12478.9	12383.6	11970.7	11384.9	10770.8	10601.4	11744.8	12821.2	14282.3	15104.5	14744.6
32.5°	13640.0	13534.1	13181.2	12584.8	11755.4	11236.6	12069.5	13177.7	14970.4	15933.9	15376.3
35°	14670.5	14546.9	14229.3	13678.8	12962.4	12129.5	12655.3	13809.4	15948.0	17282.0	16233.9
37.5°	15679.8	15535.1	15189.2	14606.9	14105.8	13318.8	13463.5	14621.1	17246.7	18919.5	17370.2
40°	16809.1	16600.9	16180.9	15605.7	15118.7	14712.8	14525.8	15616.3	18566.6	20747.6	18788.9
42.5°	17903.1	17705.5	17204.4	16713.8	16103.3	15986.8	15757.4	16780.9	20010.0	22755.6	20228.8
45°	19081.8	18845.4	18238.4	17617.3	17232.6	16833.8	16950.3	17945.5	21425.2	24802.5	21739.2
47.5°	20186.4	19921.8	19205.4	18513.7	18301.9	17546.7	18044.3	19226.5	22896.8	26877.6	23235.6
50°	20782.9	20521.7	19925.3	19300.6	19134.8	18425.4	19230.1	20634.6	24439.0	28945.7	24671.9
52.5°	21280.5	20998.1	20218.2	19872.4	19822.9	19381.8	20691.1	22243.9	25981.2	30773.7	26058.9
55°	21809.8	21495.7	20500.5	20190.0	20415.8	20454.7	22423.9	24068.5	27611.7	32555.9	27368.2
57.5°	22420.4	22021.6	20772.3	20458.2	20994.6	21711.0	24414.3	25960.0	29213.9	34207.6	28532.8
60°	22995.6	22593.3	21294.6	20885.2	21619.3	23168.5	26697.6	28250.4	31027.8	35679.2	29633.8
62.5°	23108.5	22776.8	21711.0	21707.5	22466.2	24869.6	29400.9	30562.0	32612.4	37133.2	30622.0
65°	21153.4	20945.2	20313.5	21675.7	23680.3	27318.8	32411.2	33519.4	34627.5	38403.7	31490.1
67.5°	16099.7	16128.0	16082.1	18711.3	22699.2	30837.3	36769.7	36685.0	37115.5	39829.4	32488.9
70°	7361.7	7527.6	8607.5	12916.5	18185.4	31243.1	43976.1	42878.5	40238.8	41675.1	33353.5
72.5°	3977.3	4104.3	4545.5	6257.1	10933.1	27777.5	49361.5	50141.4	44392.5	42917.4	32404.2
75°	2918.6	2989.1	3296.2	3977.3	4591.4	20645.2	47431.1	51433.1	44911.3	40020.0	27982.2
77.5°	2184.5	2216.3	2466.8	3151.5	2350.4	10883.7	37899.0	42596.2	38446.0	32880.6	20669.9
80°	1584.6	1619.9	1806.9	2364.5	1648.1	3980.8	26023.6	29898.5	26330.6	20959.3	10301.4
82.5°	1094.0	1108.1	1189.3	1609.3	1150.5	1545.7	14765.7	17532.6	14698.7	7354.6	2780.9
85°	659.9	677.6	712.9	938.7	652.9	734.1	6373.6	6592.4	4393.7	1757.5	864.6
87.5°	271.7	289.4	317.6	395.3	257.6	204.7	1051.7	1319.9	822.3	515.2	268.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954498

CATALOG NUMBER: GALN-SB7D-727-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12041.3	12041.3	12041.3	12041.3	12041.3	12041.3	12041.3	12041.3	12041.3	12041.3	12041.3
2.5°	12058.9	12034.2	11967.2	11875.4	11790.7	11684.8	11639.0	11600.1	11564.9	11497.8	11466.0
5°	12133.0	12066.0	11886.0	11653.1	11388.4	11099.0	10816.7	10622.6	10456.7	10333.2	10230.9
7.5°	12246.0	12118.9	11790.7	11314.3	10707.3	10086.2	9525.0	9126.2	8826.3	8716.9	8526.3
10°	12362.4	12210.7	11639.0	10799.0	9750.9	8794.5	8049.9	7640.5	7400.5	7322.9	7202.9
12.5°	12500.1	12277.7	11402.5	10082.6	8681.6	7633.4	6984.1	6744.1	6620.6	6578.2	6588.8
15°	12701.2	12334.2	11046.1	9186.2	7661.7	6786.5	6366.5	6200.6	6137.1	6133.6	6147.7
17.5°	12853.0	12344.8	10492.0	8226.3	6878.2	6274.7	5928.9	5865.4	5907.7	5971.2	5995.9
20°	13022.4	12249.5	9765.0	7351.1	6327.7	5826.5	5681.8	5724.2	5826.5	5918.3	5950.1
22.5°	13142.4	12076.6	8886.3	6670.0	5851.2	5568.9	5561.9	5650.1	5706.6	5752.4	5777.1
25°	13248.2	11783.7	7954.6	6098.3	5459.5	5413.6	5491.3	5463.0	5424.2	5463.0	5487.7
27.5°	13325.9	11321.3	7121.7	5597.2	5184.2	5307.8	5261.9	5198.4	5194.8	5216.0	5251.3
30°	13301.2	10703.8	6437.1	5120.7	4990.1	5110.1	5000.7	4990.1	4979.6	4990.1	5029.0
32.5°	13301.2	10001.5	5911.2	4792.5	4866.6	4820.7	4810.2	4785.5	4743.1	4739.6	4785.5
35°	13375.3	9299.2	5459.5	4616.1	4764.3	4654.9	4661.9	4601.9	4513.7	4471.4	4513.7
37.5°	13527.0	8734.5	5011.3	4531.4	4584.3	4580.8	4552.5	4450.2	4294.9	4160.8	4206.7
40°	13894.1	8568.7	4704.3	4492.5	4499.6	4541.9	4467.8	4270.2	3917.3	3698.5	3726.7
42.5°	14469.3	8847.5	4637.2	4397.3	4443.1	4485.5	4340.8	3882.0	3631.4	3500.9	3500.9
45°	15199.8	9334.5	4781.9	4259.6	4309.0	4383.1	3952.6	3733.8	3620.9	3624.4	3642.0
47.5°	16124.5	9846.2	5050.1	4139.6	4114.9	4157.3	3695.0	3560.9	3405.6	3444.4	3543.2
50°	17193.8	10365.0	5304.2	3977.3	3899.7	3762.0	3529.1	3402.1	3204.4	3112.7	3137.4
52.5°	18351.3	10866.1	5406.6	3779.7	3666.7	3507.9	3416.2	3260.9	3020.9	2869.2	2865.6
55°	19448.9	11321.3	5293.6	3543.2	3433.8	3310.3	3296.2	3200.9	2943.3	2731.5	2731.5
57.5°	20486.4	11702.5	5011.3	3303.2	3197.4	3123.3	3218.5	3172.7	2848.0	2576.2	2562.1
60°	21365.2	11963.6	4601.9	3059.7	2985.6	2946.8	3091.5	3077.4	2713.9	2410.4	2399.8
62.5°	22063.9	12066.0	4150.2	2826.8	2809.2	2738.6	2915.0	2915.0	2544.5	2248.0	2237.4
65°	22610.9	11967.2	3691.4	2597.4	2632.7	2526.8	2699.8	2678.6	2364.5	2103.3	2089.2
67.5°	23094.4	11642.5	3183.2	2371.6	2452.7	2318.6	2473.9	2424.5	2166.9	1958.6	1944.5
70°	23309.7	10887.3	2604.5	2145.7	2244.5	2113.9	2248.0	2156.3	1944.5	1803.4	1775.1
72.5°	21580.4	9048.6	2050.4	1909.2	1993.9	1888.1	2004.5	1898.7	1704.6	1641.0	1588.1
75°	17853.7	6790.0	1577.5	1651.6	1715.1	1634.0	1711.6	1634.0	1457.5	1503.4	1372.8
77.5°	12965.9	4584.3	1207.0	1379.9	1408.1	1365.8	1432.8	1344.6	1185.8	1175.2	1122.3
80°	6447.7	2685.6	945.8	1090.5	1079.9	1051.7	1129.3	1087.0	952.9	1009.3	998.7
82.5°	1866.9	1150.5	688.2	765.8	744.6	751.7	808.2	829.3	1242.2	1231.7	1259.9
85°	585.8	451.7	412.9	427.0	405.8	416.4	476.4	945.8	875.2	511.7	554.1
87.5°	151.8	155.3	102.3	109.4	112.9	134.1	151.8	575.2	275.3	180.0	190.6
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)