

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: P951648

Luminaire Tested: **GALN-SB5D-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48563 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 364.9
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



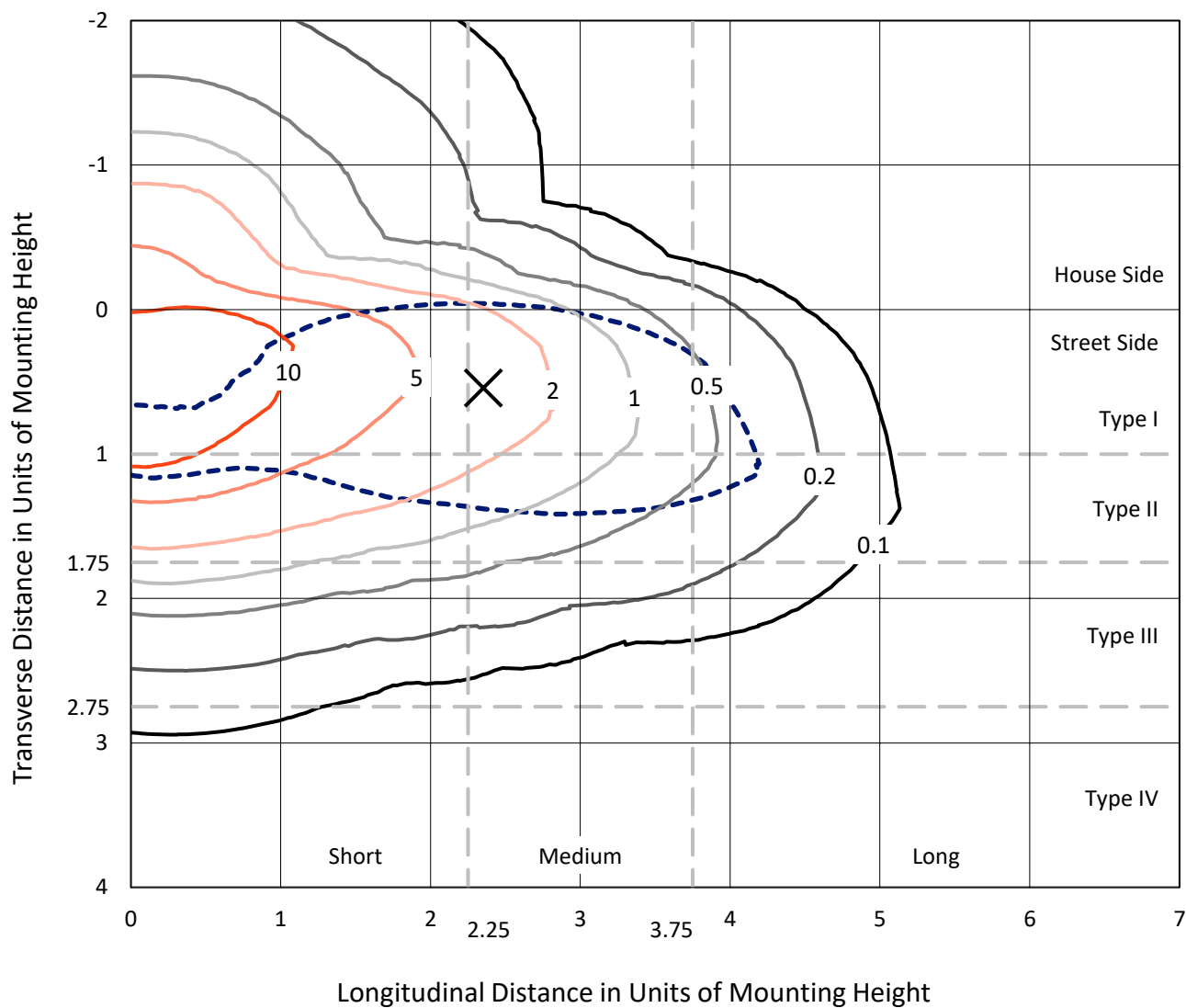
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

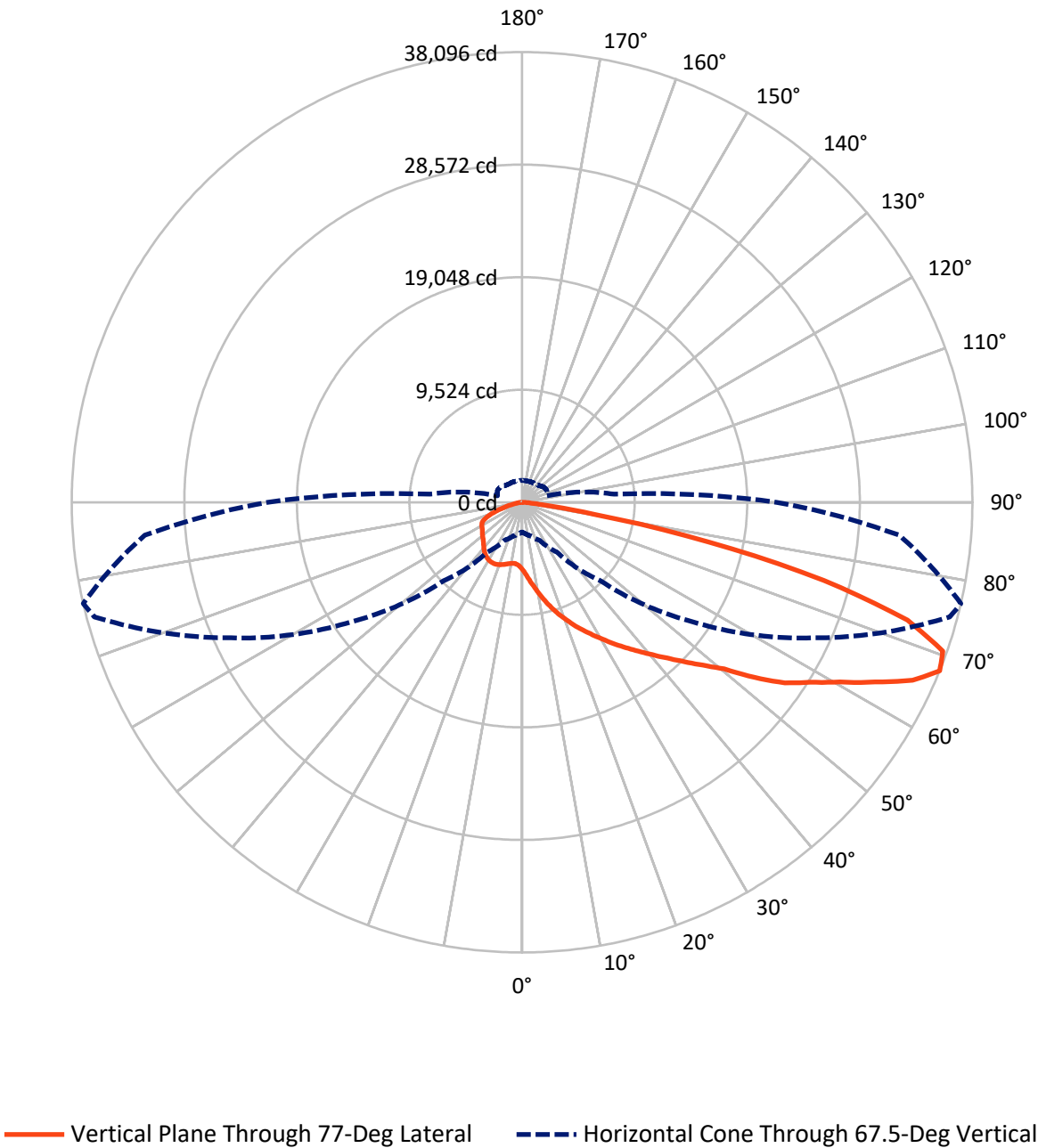
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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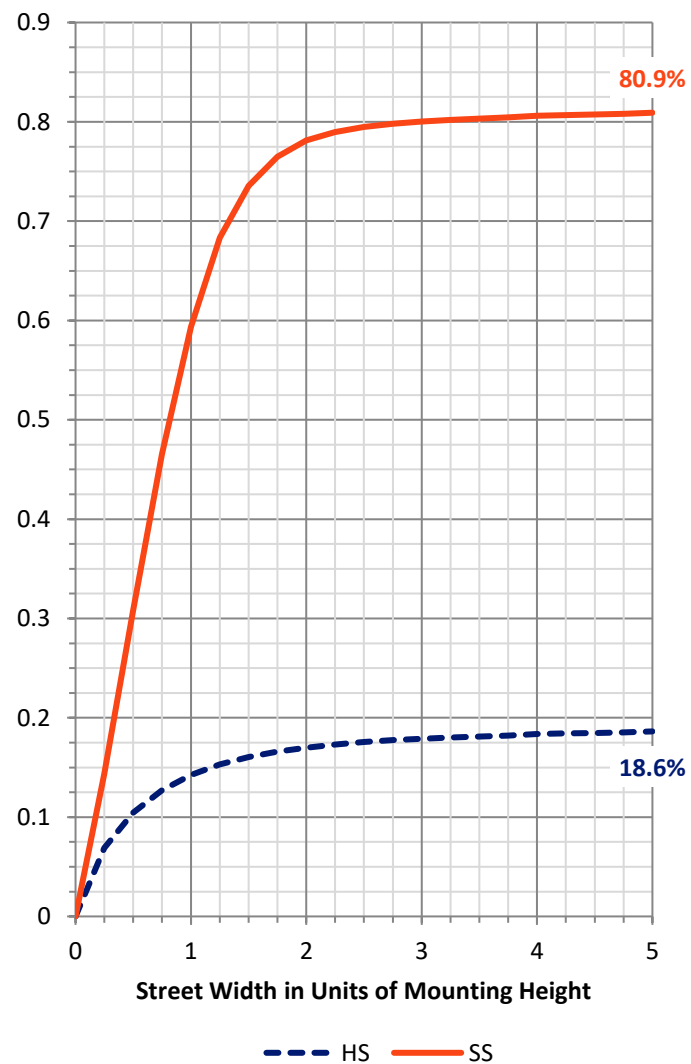
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9186.2	0.0	9186.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	39376.8	0.0	39376.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	48563.0	0.0	48563.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.7	1.3
10°-20°	2194.2	4.5
20°-30°	4142.8	8.5
30°-40°	6674.0	13.7
40°-50°	9128.8	18.8
50°-60°	10297.3	21.2
60°-70°	9611.2	19.8
70°-80°	5268.6	10.8
80°-90°	635.5	1.3
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°	48563.0	100.0
0°-180°	48563.0	100.0

Coefficient of Utilization



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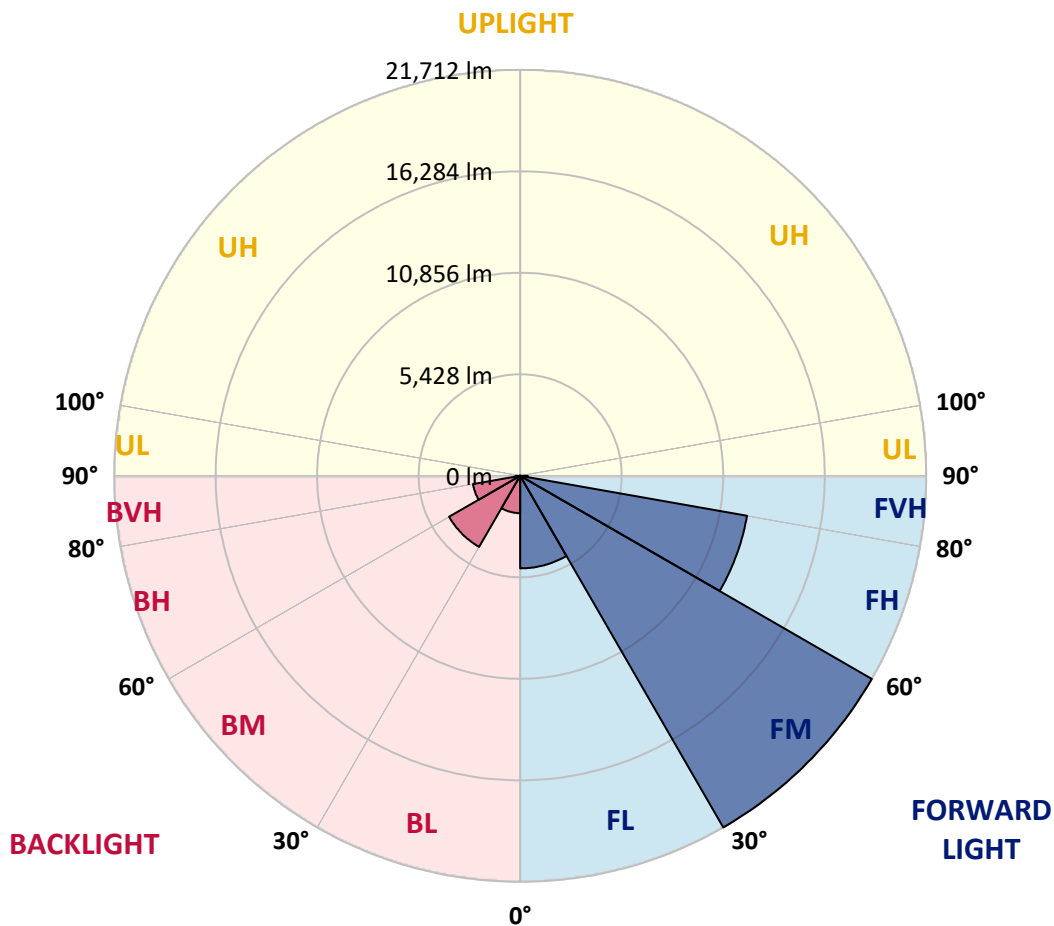
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4950.4	10.2			
FM	(30°-60°)	21712.0	44.7			
FH	(60°-80°)	12317.0	25.4			G5
FVH	(80°-90°)	397.4	0.8			G3/500
BL	(0°-30°)	1997.3	4.1	B3/2500		
BM	(30°-60°)	4388.0	9.0	B3/5000		
BH	(60°-80°)	2562.8	5.3	B4/5000		G4/5000
BVH	(80°-90°)	238.1	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5697.9	5697.9	5697.9	5697.9	5697.9	5697.9	5697.9	5697.9	5697.9	5697.9	5697.9
2.5°	7134.3	7184.5	7121.8	7121.8	6911.2	6800.9	6590.4	6429.9	6141.7	6091.5	5901.0
5°	8432.9	8495.5	8407.8	8370.2	8122.0	7893.9	7540.4	7192.0	6678.1	6625.5	6176.7
7.5°	9438.1	9518.3	9440.6	9400.5	9179.9	8924.2	8510.6	8024.3	7299.8	7197.0	6547.8
10°	10257.8	10270.3	10245.3	10260.3	10087.3	9876.8	9453.1	8886.6	7981.6	7841.3	6996.5
12.5°	10721.6	10779.2	10829.4	10919.6	10889.5	10759.2	10378.1	9701.3	8703.6	8523.1	7485.3
15°	10939.7	11039.9	11152.7	11360.8	11528.8	11561.3	11270.6	10576.2	9438.1	9220.0	7979.1
17.5°	11017.4	11112.6	11290.6	11591.4	11952.4	12195.6	12065.2	11426.0	10165.1	9914.4	8498.0
20°	11410.9	11438.5	11546.3	11832.1	12223.1	12626.7	12724.5	12243.2	10884.5	10601.2	9034.5
22.5°	12253.2	12198.1	12228.2	12358.5	12639.3	13030.3	13253.4	12965.2	11624.0	11298.1	9576.0
25°	13644.5	13484.1	13323.6	13173.2	13316.1	13536.7	13789.9	13687.1	12398.6	11985.0	10122.4
27.5°	15401.8	15206.2	14852.8	14358.9	14186.0	14263.7	14376.5	14356.4	13115.6	12696.9	10686.5
30°	17131.4	16903.3	16482.2	15767.8	15311.5	15106.0	15020.7	14963.1	13895.2	13449.0	11255.5
32.5°	18512.7	18332.2	17918.6	17118.9	16457.1	16106.2	15822.9	15617.3	14709.9	14263.7	11857.1
35°	19721.0	19553.0	19079.2	18206.9	17487.4	17113.9	16742.9	16304.2	15557.2	15106.0	12503.9
37.5°	20824.0	20656.0	20006.7	19099.3	18374.8	18116.6	17785.7	17041.2	16407.0	15980.8	13188.3
40°	21520.8	21483.2	20876.6	19848.8	19096.8	18968.9	18858.6	17896.0	17349.5	16953.5	13940.3
42.5°	21698.8	21781.6	21300.3	20455.5	19738.5	19635.7	19893.9	18863.6	18407.4	18028.9	14792.6
45°	21270.2	21508.3	21192.5	20618.4	20194.8	20139.6	20811.4	19921.5	19578.1	19232.1	15820.4
47.5°	20184.7	20588.3	20458.0	20377.7	20317.6	20555.7	21618.6	21044.6	20904.2	20603.4	16993.6
50°	17993.8	18758.4	18986.5	19492.9	20074.4	20879.1	22353.1	22270.4	22453.4	22150.1	18422.4
52.5°	14206.0	15258.9	16582.5	17850.9	19327.4	20771.3	23160.3	24030.2	24802.2	24636.8	20693.6
55°	11726.8	12200.6	13218.3	15544.6	17878.5	20317.6	23523.8	25451.5	27133.6	26985.7	22415.8
57.5°	9821.6	10245.3	10872.0	12814.7	15687.5	19287.3	23749.4	26318.9	28730.4	28715.4	24115.4
60°	7778.6	8227.3	8869.0	10245.3	13128.1	17507.5	23699.3	27306.5	30768.4	30893.8	26188.5
62.5°	5472.3	5966.2	6678.1	7961.6	10513.5	15201.2	22676.5	28021.0	33167.4	33508.3	28682.8
65°	3597.3	3923.1	4459.6	5567.6	7833.7	12235.7	20723.7	28113.7	35734.4	36310.9	31024.1
67.5°	2521.8	2647.2	2963.0	3564.7	5164.0	9382.9	17612.8	27153.6	37446.5	38095.8	32039.4
70°	1967.8	2030.5	2190.9	2431.6	3243.8	6309.6	13496.6	24656.9	37080.5	37757.4	30979.0
72.5°	1699.6	1759.8	1819.9	1850.0	2175.9	3895.6	9142.3	20615.9	33633.7	34092.4	26935.5
75°	1541.7	1556.7	1606.9	1596.8	1659.5	2526.9	5276.8	15020.7	26536.9	26379.0	19883.9
77.5°	1296.0	1316.1	1398.8	1386.3	1474.0	1727.2	2739.9	9693.8	17204.1	16131.2	11067.5
80°	1098.0	1108.0	1198.2	1183.2	1281.0	1250.9	1398.8	4940.9	7297.3	6181.8	3191.2
82.5°	381.0	471.3	915.0	942.6	977.7	757.1	807.2	2015.5	2228.5	1707.1	669.3
85°	185.5	198.0	466.3	661.8	659.3	381.0	393.6	719.5	701.9	551.5	223.1
87.5°	30.1	37.6	55.1	258.2	205.6	100.3	135.4	140.4	145.4	125.3	50.1
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°	5697.9	5697.9	5697.9	5697.9	5697.9	5697.9	5697.9	5697.9	5697.9	5697.9	5697.9
2.5°	5760.6	5635.3	5372.1	5128.9	4938.4	4755.4	4652.6	4564.9	4514.7	4504.7	4504.7
5°	5916.0	5657.8	5179.0	4775.4	4512.2	4316.7	4213.9	4148.7	4116.2	4096.1	4093.6
7.5°	6139.1	5760.6	5078.8	4620.0	4344.3	4203.9	4151.3	4141.2	4138.7	4141.2	4148.7
10°	6447.5	5928.6	5068.7	4582.4	4351.8	4274.1	4271.6	4274.1	4284.1	4286.6	4289.1
12.5°	6780.9	6101.5	5108.9	4615.0	4447.1	4404.4	4396.9	4394.4	4401.9	4406.9	4409.5
15°	7144.4	6329.7	5176.5	4685.2	4552.3	4507.2	4499.7	4484.7	4482.2	4479.6	4477.1
17.5°	7517.9	6555.3	5251.7	4760.4	4620.0	4557.4	4529.8	4494.7	4467.1	4459.6	4467.1
20°	7896.4	6778.4	5304.4	4798.0	4625.0	4537.3	4482.2	4422.0	4374.4	4346.8	4356.8
22.5°	8300.0	7011.5	5337.0	4788.0	4579.9	4459.6	4359.3	4289.1	4216.4	4168.8	4171.3
25°	8693.6	7214.6	5334.5	4735.3	4492.2	4339.3	4211.4	4121.2	4020.9	3970.8	3970.8
27.5°	9072.1	7397.6	5271.8	4642.6	4366.8	4196.4	4043.5	3935.7	3837.9	3790.3	3787.8
30°	9463.2	7550.5	5174.0	4507.2	4218.9	4030.9	3863.0	3770.2	3682.5	3637.4	3634.9
32.5°	9851.7	7690.9	5036.2	4339.3	4048.5	3868.0	3702.5	3617.3	3564.7	3564.7	3567.2
35°	10262.8	7788.6	4853.2	4143.7	3868.0	3695.0	3564.7	3514.5	3509.5	3479.4	3471.9
37.5°	10696.5	7851.3	4630.1	3943.2	3690.0	3527.1	3487.0	3426.8	3376.7	3311.5	3301.5
40°	11152.7	7914.0	4361.8	3735.1	3502.0	3411.8	3394.2	3314.0	3171.1	3010.7	2988.1
42.5°	11706.7	7956.6	4083.6	3527.1	3304.0	3273.9	3298.9	3161.1	2933.0	2812.6	2815.1
45°	12348.5	8026.8	3827.9	3321.5	3100.9	3100.9	3206.2	3025.7	2837.7	2762.5	2775.0
47.5°	13180.7	8189.7	3589.7	3095.9	2912.9	2963.0	3000.6	2862.8	2757.5	2664.7	2662.2
50°	14384.0	8580.8	3344.1	2867.8	2770.0	2870.3	2817.6	2737.4	2614.6	2539.4	2531.9
52.5°	15878.0	8811.4	3126.0	2662.2	2647.2	2747.4	2672.2	2597.0	2504.3	2404.0	2384.0
55°	16895.8	8854.0	2943.0	2511.8	2564.5	2554.4	2526.9	2459.2	2409.0	2276.2	2278.7
57.5°	18033.9	8939.2	2792.6	2421.6	2511.8	2401.5	2391.5	2333.8	2268.7	2178.4	2148.3
60°	19395.1	9072.1	2662.2	2386.5	2466.7	2301.2	2251.1	2228.5	2163.4	2118.2	2130.8
62.5°	20879.1	9192.4	2529.4	2391.5	2414.0	2203.5	2128.3	2120.7	2080.6	2065.6	2065.6
65°	21891.9	8864.0	2363.9	2386.5	2331.3	2103.2	2007.9	2005.4	1972.8	1967.8	1965.3
67.5°	21538.4	7823.7	2140.8	2316.3	2246.1	2002.9	1897.6	1887.6	1845.0	1847.5	1847.5
70°	19768.6	6339.7	1832.5	2143.3	2140.8	1912.7	1782.3	1749.7	1692.1	1702.1	1712.1
72.5°	16449.6	4697.7	1418.8	1855.0	1972.8	1830.0	1649.5	1596.8	1524.1	1534.2	1531.7
75°	11879.7	3193.7	1032.8	1411.3	1717.2	1732.2	1519.1	1428.9	1341.1	1356.2	1361.2
77.5°	6079.0	1809.9	759.6	972.6	1348.7	1574.3	1401.3	1281.0	1260.9	1401.3	1381.2
80°	1982.9	907.5	526.4	681.8	884.9	1288.5	1228.3	1090.5	1085.4	1118.0	960.1
82.5°	591.6	383.5	338.4	448.7	488.8	987.7	1060.4	824.7	709.4	747.0	772.1
85°	203.1	185.5	193.0	223.1	233.1	579.1	742.0	546.5	516.4	569.0	561.5
87.5°	47.6	65.2	55.1	50.1	50.1	140.4	288.3	228.1	315.9	210.6	203.1
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)