

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: P956289

Luminaire Tested: **GALN-SB9A-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956289
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-SB9A-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38600 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 255.5
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

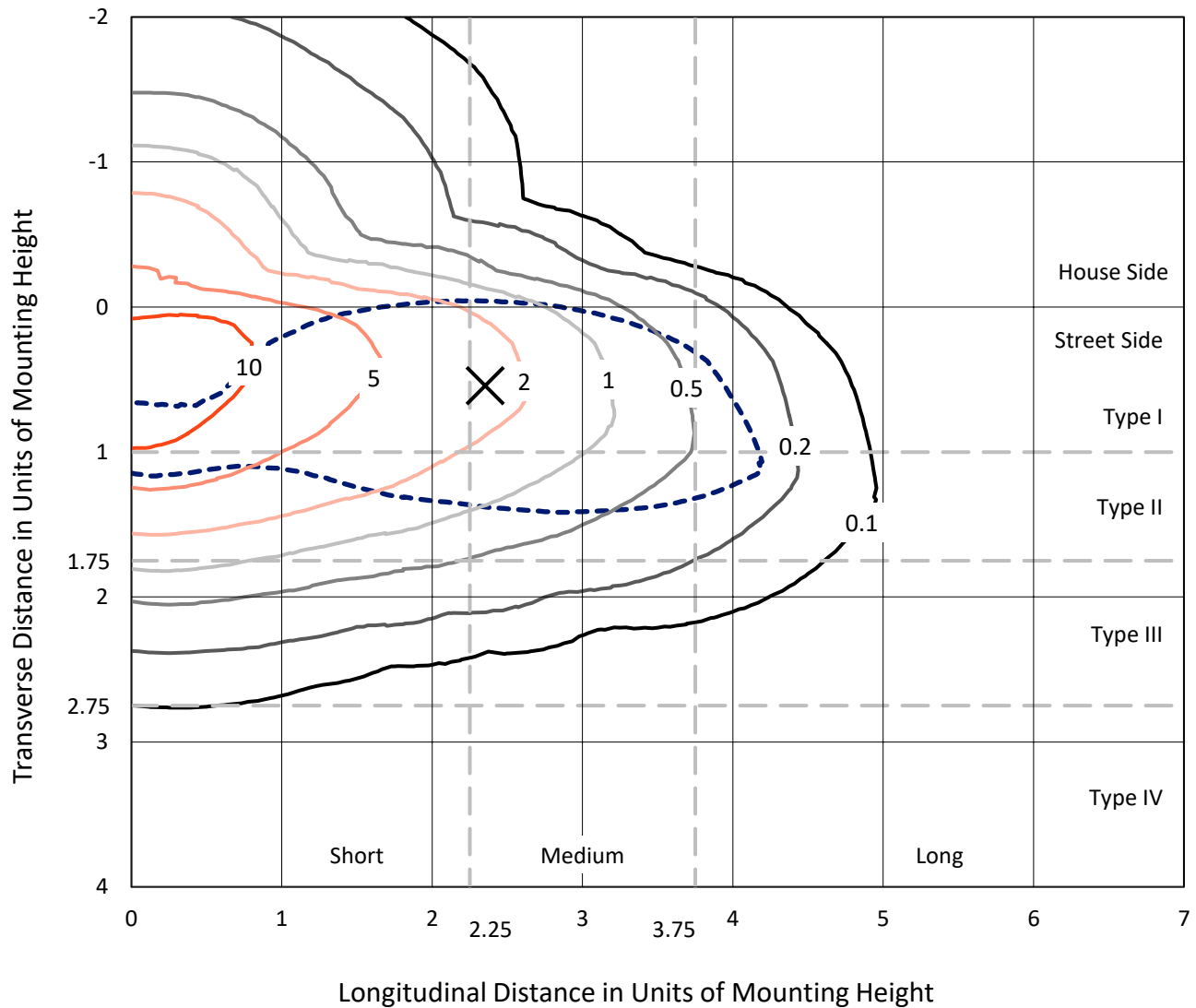


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Iso-Footcandle Lines of Horizontal Illumination

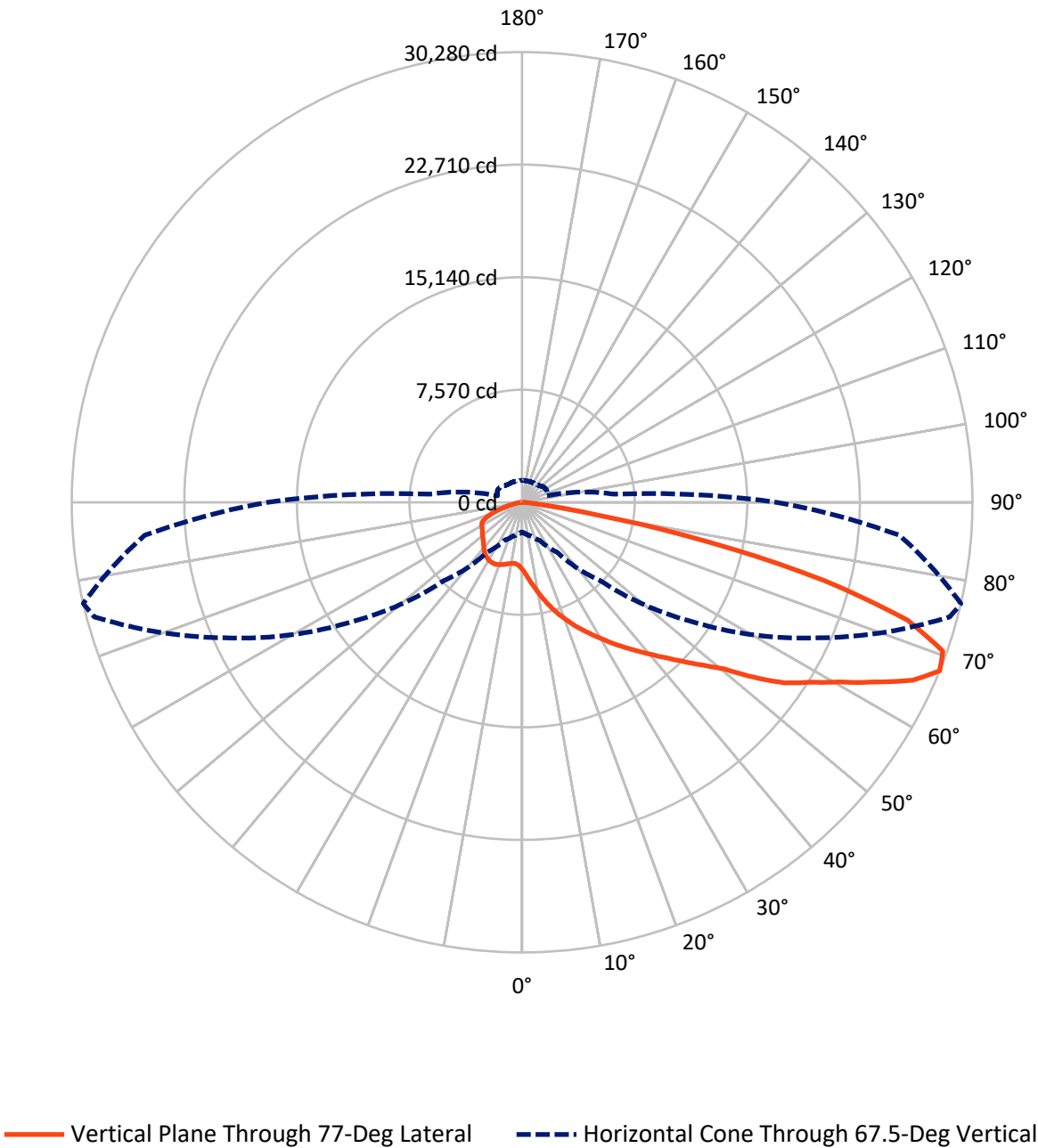
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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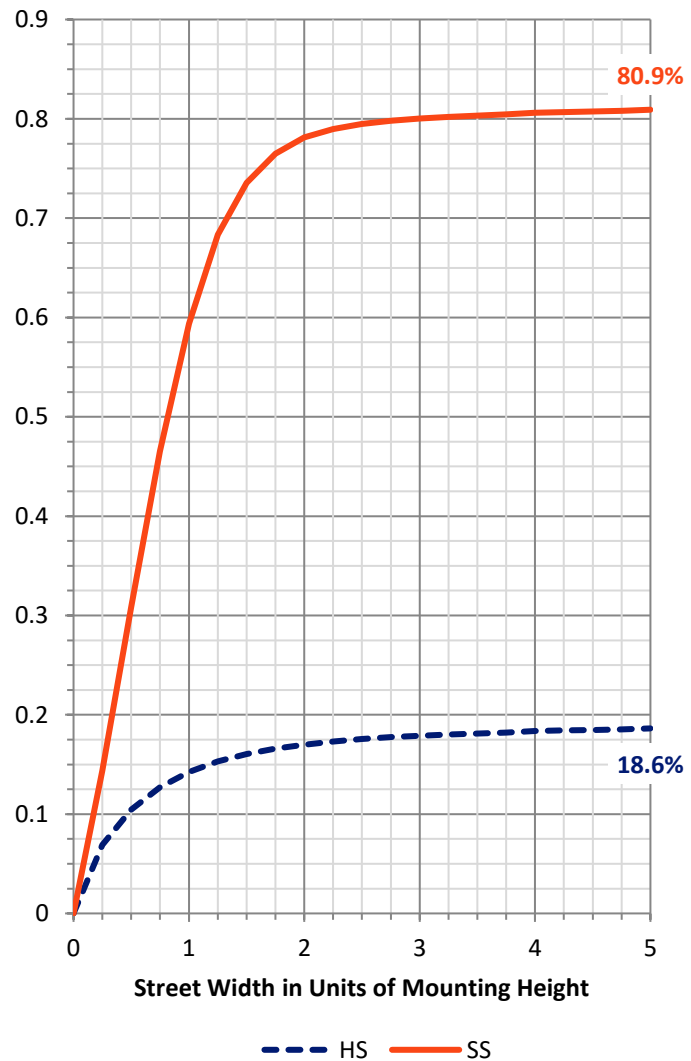
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7301.6	0.0	7301.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	31298.4	0.0	31298.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	38600.0	0.0	38600.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.4	1.3
10°-20°	1744.0	4.5
20°-30°	3292.9	8.5
30°-40°	5304.7	13.7
40°-50°	7255.9	18.8
50°-60°	8184.7	21.2
60°-70°	7639.4	19.8
70°-80°	4187.7	10.8
80°-90°	505.1	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°	38600.0	100.0
0°-180°	38600.0	100.0

Coefficient of Utilization



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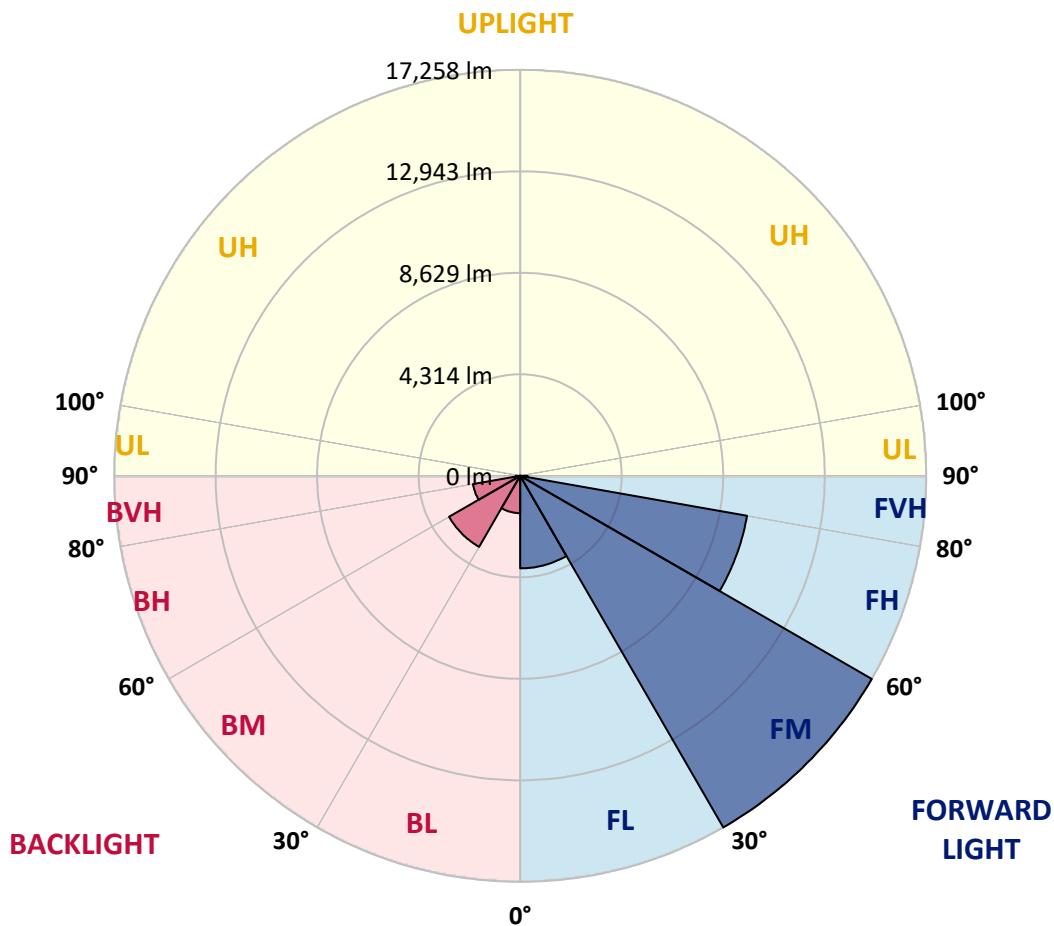
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3934.8	10.2			
FM	(30°-60°)	17257.6	44.7			
FH	(60°-80°)	9790.1	25.4			G4/12000
FVH	(80°-90°)	315.9	0.8			G3/500
BL	(0°-30°)	1587.5	4.1	B3/2500		
BM	(30°-60°)	3487.8	9.0	B3/5000		
BH	(60°-80°)	2037.0	5.3	B3/2500		G3/2500
BVH	(80°-90°)	189.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4529.0	4529.0	4529.0	4529.0	4529.0	4529.0	4529.0	4529.0	4529.0	4529.0	4529.0
2.5°	5670.7	5710.5	5660.7	5660.7	5493.4	5405.7	5238.3	5110.8	4881.7	4841.8	4690.4
5°	6702.8	6752.6	6682.9	6653.0	6455.7	6274.4	5993.5	5716.5	5308.1	5266.2	4909.5
7.5°	7501.8	7565.6	7503.8	7471.9	7296.6	7093.3	6764.6	6378.0	5802.2	5720.5	5204.4
10°	8153.4	8163.3	8143.4	8155.4	8017.9	7850.5	7513.8	7063.5	6344.2	6232.6	5561.1
12.5°	8522.0	8567.8	8607.7	8679.4	8655.5	8551.9	8249.0	7711.0	6918.0	6774.5	5949.6
15°	8695.3	8775.0	8864.7	9030.1	9163.6	9189.5	8958.3	8406.4	7501.8	7328.5	6342.2
17.5°	8757.1	8832.8	8974.3	9213.4	9500.3	9693.6	9590.0	9081.9	8079.6	7880.4	6754.6
20°	9069.9	9091.8	9177.5	9404.7	9715.5	10036.3	10114.0	9731.4	8651.5	8426.3	7181.0
22.5°	9739.4	9695.6	9719.5	9823.1	10046.2	10357.1	10534.4	10305.3	9239.3	8980.3	7611.4
25°	10845.2	10717.7	10590.2	10470.6	10584.2	10759.6	10960.8	10879.1	9855.0	9526.2	8045.8
27.5°	12242.0	12086.6	11805.6	11413.1	11275.6	11337.4	11427.1	11411.1	10424.8	10092.1	8494.1
30°	13616.8	13435.5	13100.8	12532.9	12170.3	12006.9	11939.1	11893.3	11044.5	10689.8	8946.4
32.5°	14714.7	14571.2	14242.5	13606.9	13080.8	12801.9	12576.7	12413.3	11692.1	11337.4	9424.6
35°	15675.1	15541.6	15165.0	14471.6	13899.8	13602.9	13308.0	12959.3	12365.5	12006.9	9938.6
37.5°	16551.8	16418.3	15902.2	15180.9	14605.1	14399.9	14136.9	13545.1	13041.0	12702.3	10482.6
40°	17105.7	17075.8	16593.6	15776.7	15179.0	15077.3	14989.7	14224.5	13790.2	13475.4	11080.4
42.5°	17247.2	17312.9	16930.4	16258.9	15689.0	15607.3	15812.6	14993.7	14631.0	14330.1	11757.8
45°	16906.5	17095.8	16844.7	16388.4	16051.7	16007.8	16541.8	15834.5	15561.5	15286.6	12574.7
47.5°	16043.7	16364.5	16260.9	16197.1	16149.3	16338.6	17183.4	16727.1	16615.6	16376.5	13507.2
50°	14302.2	14910.0	15091.3	15493.8	15956.0	16595.6	17767.2	17701.5	17846.9	17605.8	14643.0
52.5°	11291.6	12128.4	13180.5	14188.7	15362.3	16510.0	18408.8	19100.2	19713.9	19582.4	16448.2
55°	9321.0	9697.6	10506.5	12355.6	14210.6	16149.3	18697.7	20230.0	21566.9	21449.4	17817.0
57.5°	7806.7	8143.4	8641.5	10185.7	12469.1	15330.4	18877.1	20919.4	22836.2	22824.2	19168.0
60°	6182.8	6539.4	7049.5	8143.4	10434.8	13915.7	18837.2	21704.4	24456.1	24555.7	20815.8
62.5°	4349.7	4742.2	5308.1	6328.2	8356.6	12082.6	18024.3	22272.3	26362.9	26633.9	22798.3
65°	2859.3	3118.3	3544.7	4425.4	6226.6	9725.4	16472.1	22346.0	28403.3	28861.5	24659.3
67.5°	2004.5	2104.1	2355.1	2833.4	4104.6	7458.0	13999.4	21582.9	29764.1	30280.2	25466.3
70°	1564.1	1613.9	1741.5	1932.7	2578.3	5015.2	10727.7	19598.3	29473.2	30011.2	24623.5
72.5°	1350.9	1398.7	1446.6	1470.5	1729.5	3096.4	7266.7	16386.4	26733.5	27098.2	21409.5
75°	1225.4	1237.3	1277.2	1269.2	1319.0	2008.5	4194.2	11939.1	21092.7	20967.2	15804.6
77.5°	1030.1	1046.1	1111.8	1101.9	1171.6	1372.8	2177.8	7705.0	13674.6	12821.8	8796.9
80°	872.7	880.7	952.4	940.5	1018.2	994.3	1111.8	3927.2	5800.2	4913.5	2536.5
82.5°	302.9	374.6	727.3	749.2	777.1	601.7	641.6	1602.0	1771.3	1356.9	532.0
85°	147.4	157.4	370.6	526.0	524.0	302.9	312.8	571.9	557.9	438.4	177.3
87.5°	23.9	29.9	43.8	205.2	163.4	79.7	107.6	111.6	115.6	99.6	39.9
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°	4529.0	4529.0	4529.0	4529.0	4529.0	4529.0	4529.0	4529.0	4529.0	4529.0	4529.0
2.5°	4578.8	4479.2	4270.0	4076.7	3925.2	3779.8	3698.1	3628.4	3588.5	3580.5	3580.5
5°	4702.3	4497.1	4116.5	3795.7	3586.5	3431.1	3349.4	3297.6	3271.7	3255.8	3253.8
7.5°	4879.7	4578.8	4036.8	3672.2	3453.0	3341.4	3299.6	3291.6	3289.6	3291.6	3297.6
10°	5124.7	4712.3	4028.9	3642.3	3459.0	3397.2	3395.2	3397.2	3405.2	3407.2	3409.2
12.5°	5389.7	4849.8	4060.7	3668.2	3534.7	3500.8	3494.9	3492.9	3498.9	3502.8	3504.8
15°	5678.7	5031.1	4114.5	3724.0	3618.4	3582.5	3576.6	3564.6	3562.6	3560.6	3558.6
17.5°	5975.5	5210.4	4174.3	3783.8	3672.2	3622.4	3600.5	3572.6	3550.7	3544.7	3550.7
20°	6276.4	5387.8	4216.2	3813.7	3676.2	3606.4	3562.6	3514.8	3476.9	3455.0	3463.0
22.5°	6597.2	5573.1	4242.1	3805.7	3640.3	3544.7	3465.0	3409.2	3351.4	3313.5	3315.5
25°	6910.0	5734.4	4240.1	3763.9	3570.6	3449.0	3347.4	3275.7	3196.0	3156.1	3156.1
27.5°	7210.9	5879.9	4190.3	3690.1	3471.0	3335.5	3213.9	3128.2	3050.5	3012.7	3010.7
30°	7521.7	6001.4	4112.5	3582.5	3353.4	3204.0	3070.5	2996.7	2927.0	2891.1	2889.1
32.5°	7830.6	6113.0	4003.0	3449.0	3217.9	3074.4	2942.9	2875.2	2833.4	2833.4	2835.3
35°	8157.3	6190.7	3857.5	3293.6	3074.4	2937.0	2833.4	2793.5	2789.5	2765.6	2759.6
37.5°	8502.0	6240.5	3680.2	3134.2	2933.0	2803.5	2771.6	2723.8	2683.9	2632.1	2624.1
40°	8864.7	6290.4	3467.0	2968.8	2783.5	2711.8	2697.9	2634.1	2520.5	2393.0	2375.1
42.5°	9305.0	6324.2	3245.8	2803.5	2626.1	2602.2	2622.1	2512.6	2331.2	2235.6	2237.6
45°	9815.1	6380.0	3042.6	2640.1	2464.7	2464.7	2548.4	2405.0	2255.5	2195.7	2205.7
47.5°	10476.6	6509.5	2853.3	2460.8	2315.3	2355.1	2385.0	2275.4	2191.8	2118.0	2116.0
50°	11433.0	6820.4	2658.0	2279.4	2201.7	2281.4	2239.6	2175.8	2078.2	2018.4	2012.4
52.5°	12620.6	7003.7	2484.7	2116.0	2104.1	2183.8	2124.0	2064.2	1990.5	1910.8	1894.9
55°	13429.5	7037.6	2339.2	1996.5	2038.3	2030.4	2008.5	1954.7	1914.8	1809.2	1811.2
57.5°	14334.1	7105.3	2219.7	1924.8	1996.5	1908.8	1900.9	1855.0	1803.2	1731.5	1707.6
60°	15416.1	7210.9	2116.0	1896.9	1960.6	1829.1	1789.3	1771.3	1719.5	1683.7	1693.6
62.5°	16595.6	7306.5	2010.4	1900.9	1918.8	1751.4	1691.6	1685.7	1653.8	1641.8	1641.8
65°	17400.6	7045.5	1878.9	1896.9	1853.0	1671.7	1596.0	1594.0	1568.1	1564.1	1562.1
67.5°	17119.7	6218.6	1701.6	1841.1	1785.3	1592.0	1508.3	1500.4	1466.5	1468.5	1468.5
70°	15712.9	5039.1	1456.5	1703.6	1701.6	1520.3	1416.7	1390.8	1344.9	1352.9	1360.9
72.5°	13074.9	3734.0	1127.8	1474.5	1568.1	1454.5	1311.1	1269.2	1211.4	1219.4	1217.4
75°	9442.5	2538.5	820.9	1121.8	1364.9	1376.8	1207.5	1135.7	1066.0	1077.9	1081.9
77.5°	4831.8	1438.6	603.7	773.1	1072.0	1251.3	1113.8	1018.2	1002.2	1113.8	1097.9
80°	1576.1	721.3	418.4	542.0	703.4	1024.2	976.3	866.7	862.8	888.7	763.1
82.5°	470.2	304.9	269.0	356.7	388.5	785.0	842.8	655.5	563.9	593.8	613.7
85°	161.4	147.4	153.4	177.3	185.3	460.3	589.8	434.4	410.5	452.3	446.3
87.5°	37.9	51.8	43.8	39.9	39.9	111.6	229.1	181.3	251.1	167.4	161.4
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)