

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: P943305

Luminaire Tested: **GALN-SB7D-722-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-722-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59235 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - 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

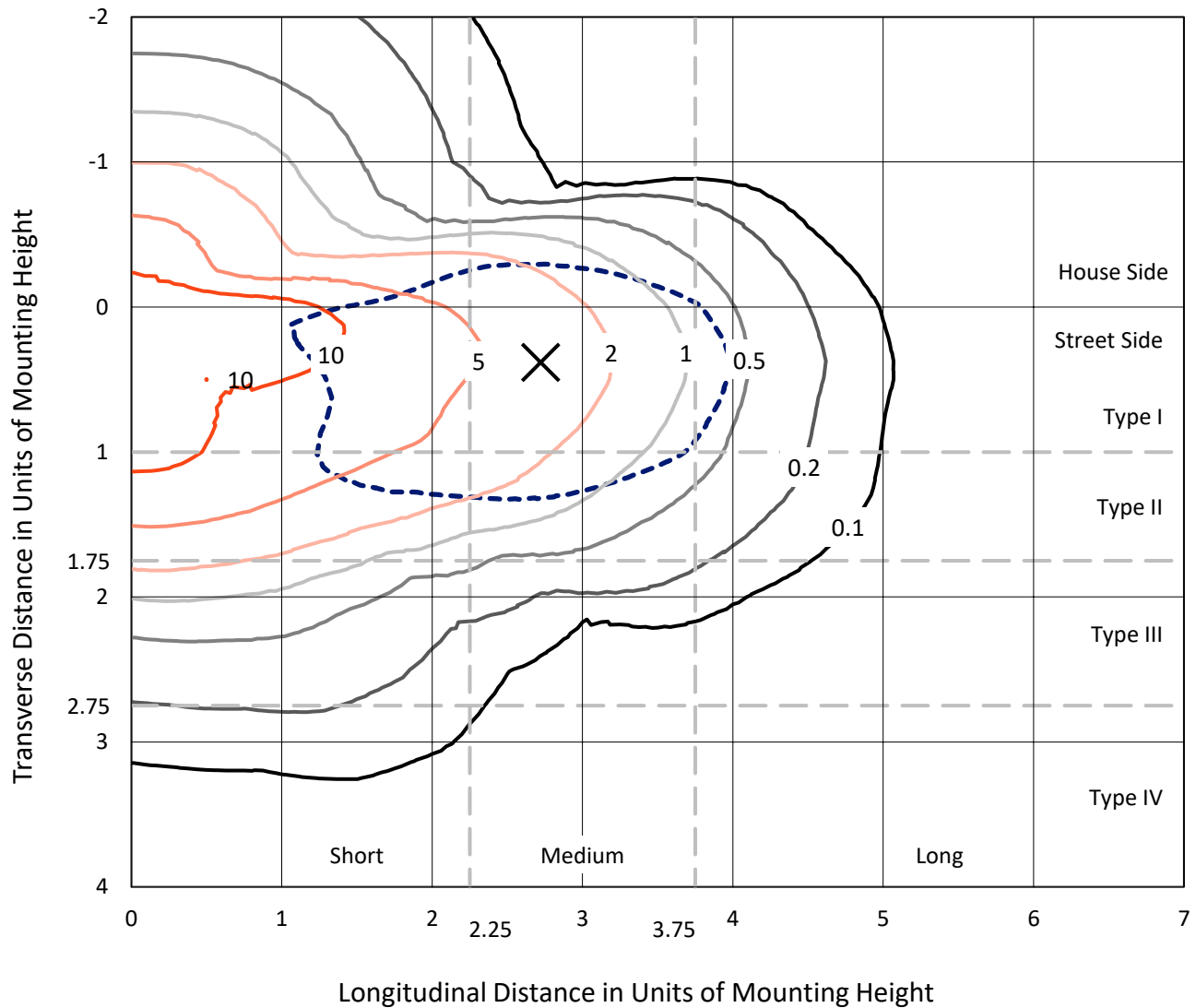


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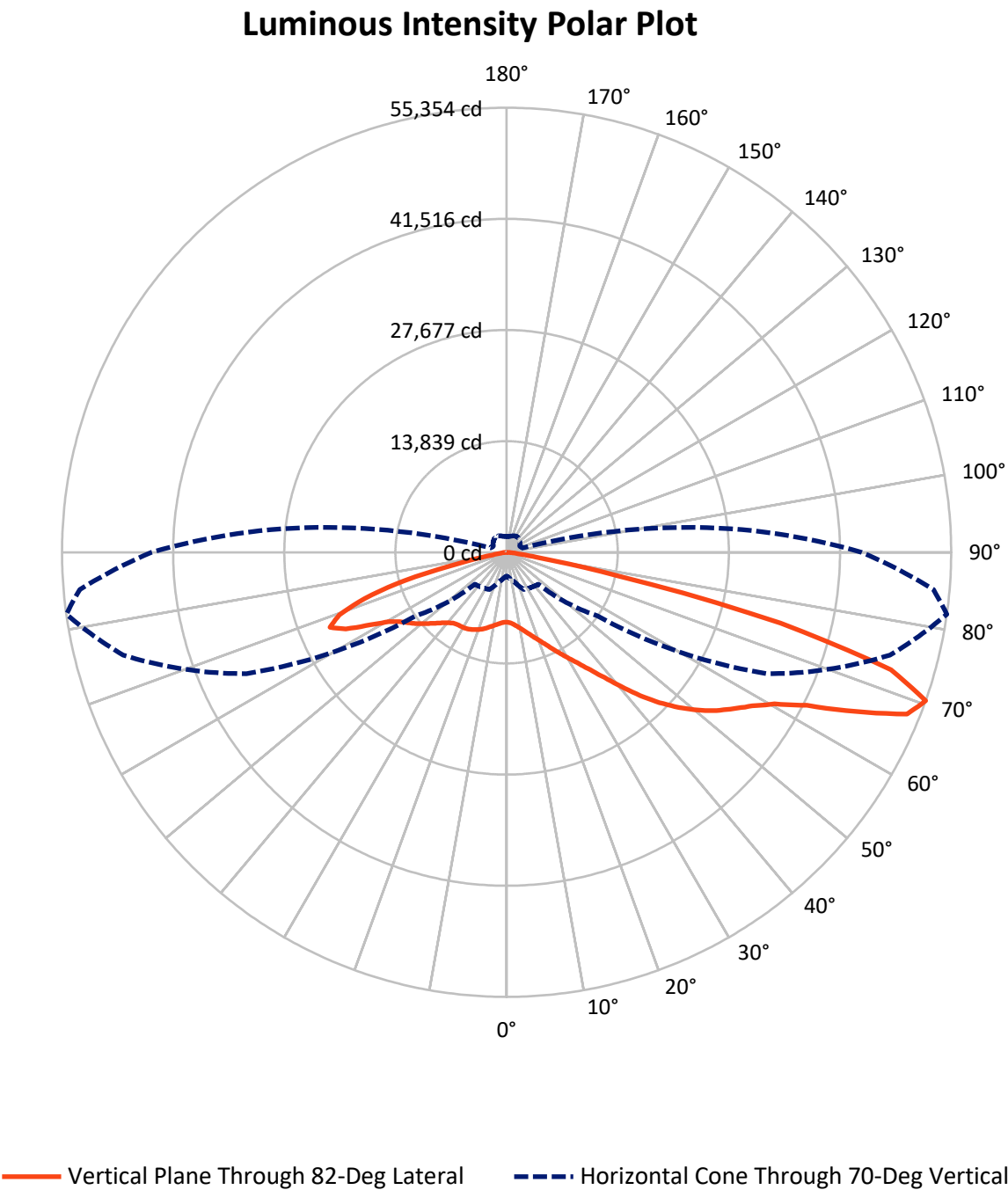
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
Type II - Medium - N/A

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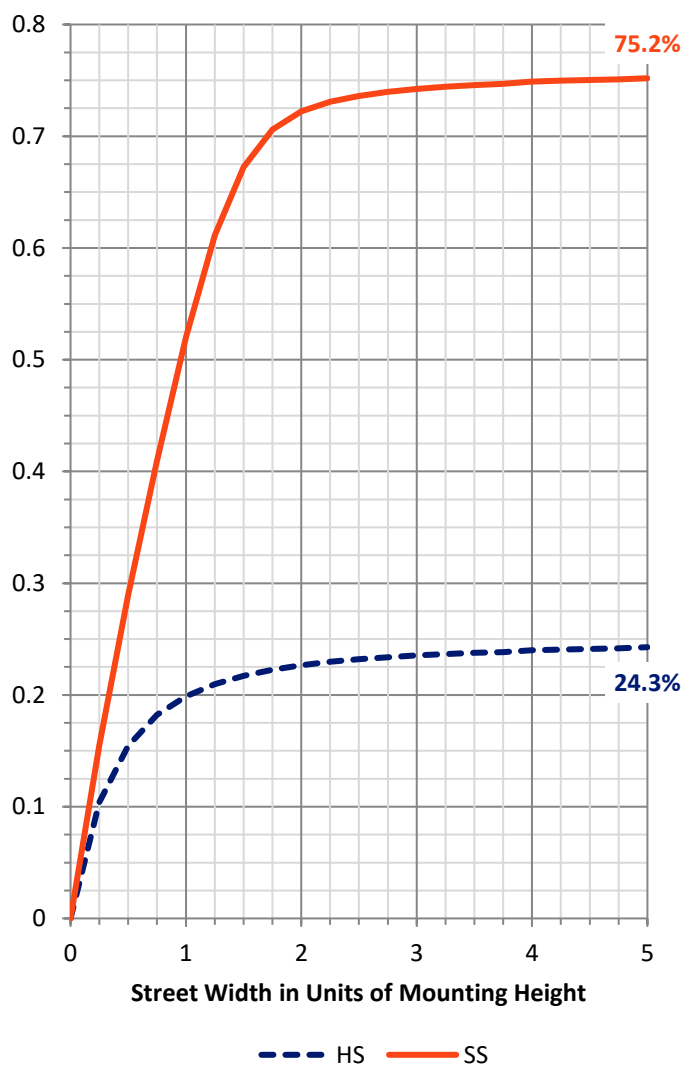
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14602.9	0.0	14602.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	44632.1	0.0	44632.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	59235.0	0.0	59235.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	820.0	1.4
10°-20°	2355.8	4.0
20°-30°	3941.1	6.7
30°-40°	6157.0	10.4
40°-50°	9805.8	16.6
50°-60°	13645.9	23.0
60°-70°	14274.2	24.1
70°-80°	7460.5	12.6
80°-90°	774.7	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°	59235.0	100.0
0°-180°	59235.0	100.0

Coefficient of Utilization



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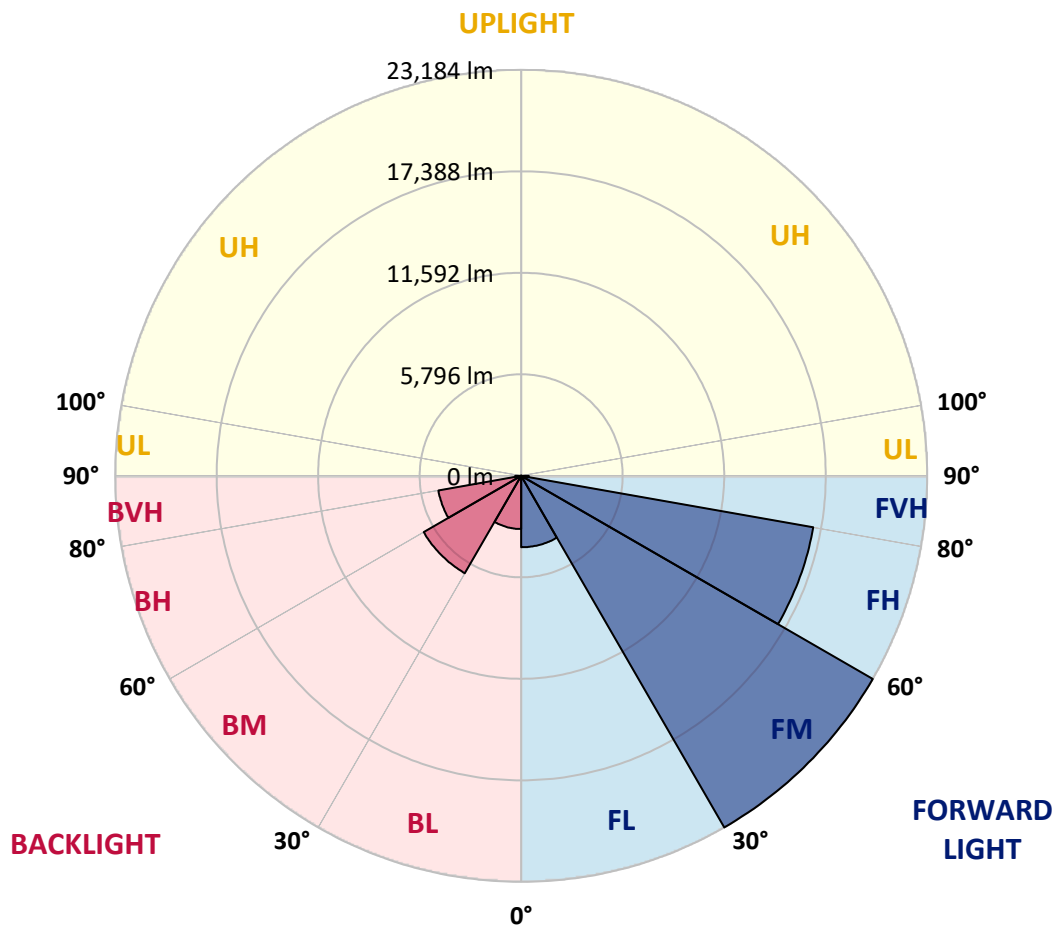
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4079.0	6.9			
FM	(30°-60°)	23184.0	39.1			
FH	(60°-80°)	16935.5	28.6			G5
FVH	(80°-90°)	433.7	0.7			G3/500
BL	(0°-30°)	3037.9	5.1	B4/5000		
BM	(30°-60°)	6424.7	10.8	B4/8500		
BH	(60°-80°)	4799.2	8.1	B4/5000		G4/5000
BVH	(80°-90°)	341.0	0.6			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°	82°	85°
0°	8684.6	8684.6	8684.6	8684.6	8684.6	8684.6	8684.6	8684.6	8684.6	8684.6	8684.6
2.5°	8892.0	8942.3	8926.6	8910.9	8910.9	8888.9	8885.8	8854.3	8829.2	8788.3	8778.9
5°	9005.2	9058.6	9052.3	9064.9	9105.8	9115.2	9124.6	9105.8	9055.5	9005.2	8983.2
7.5°	8904.6	8964.3	8983.2	9058.6	9184.4	9297.5	9382.4	9417.0	9369.8	9297.5	9262.9
10°	8565.2	8631.2	8697.2	8876.3	9099.5	9366.7	9593.0	9728.1	9718.7	9649.5	9589.8
12.5°	7876.8	7945.9	8087.4	8436.3	8844.9	9316.4	9737.6	10020.4	10117.9	10067.6	9963.9
15°	7326.7	7386.5	7493.3	7851.7	8382.8	9099.5	9791.0	10341.0	10589.4	10561.1	10435.3
17.5°	7311.0	7336.2	7402.2	7571.9	7980.5	8760.0	9734.4	10655.4	11130.0	11126.8	10969.7
20°	7587.6	7597.1	7634.8	7669.3	7901.9	8502.3	9589.8	10916.2	11736.6	11736.6	11566.9
22.5°	7971.1	7964.8	8002.5	7971.1	8084.2	8480.3	9498.7	11145.7	12412.4	12462.7	12249.0
25°	8546.3	8514.9	8505.4	8433.1	8455.1	8684.6	9599.3	11406.6	13213.9	13317.6	13050.5
27.5°	9313.2	9262.9	9228.4	9061.8	9005.2	9105.8	9907.3	11720.9	14106.6	14285.7	13946.3
30°	10312.8	10221.6	10171.3	9882.1	9677.8	9693.6	10372.5	12138.9	15040.1	15329.3	14898.6
32.5°	11676.9	11535.5	11400.3	10925.7	10551.6	10429.1	10972.8	12717.3	16052.2	16514.2	15961.0
35°	13204.5	13091.3	12946.7	12214.4	11639.2	11356.3	11783.8	13525.1	17237.2	17969.5	17249.7
37.5°	14675.5	14578.0	14647.2	13660.2	12918.4	12506.7	12846.2	14609.5	18698.7	19780.0	18865.3
40°	16196.8	16121.3	16130.8	15187.8	14323.4	13861.4	14134.9	15970.5	20374.1	21933.1	20807.8
42.5°	17850.1	17793.5	17604.9	16768.8	15797.6	15367.0	15618.4	17542.1	22172.0	24384.7	22938.9
45°	19701.4	19666.8	19490.8	18532.2	17419.5	16935.4	17274.9	19277.1	23979.3	26691.8	25079.4
47.5°	21301.3	21329.6	21307.6	20499.8	19346.2	18635.9	19041.4	21087.6	25660.9	28860.6	27131.9
50°	22071.4	22219.1	22436.0	22184.5	21467.9	20745.0	20823.5	22835.2	27263.9	30894.3	29099.5
52.5°	21669.0	21948.8	22539.7	22942.0	23218.6	23067.8	22857.2	24570.2	28772.6	32729.9	30960.3
55°	20169.8	20562.6	21543.3	22514.6	23925.8	25022.8	25299.4	26493.8	30243.6	34345.5	32720.4
57.5°	17438.3	18076.4	18956.5	20921.0	23297.2	25968.9	28147.1	29162.4	31802.6	36071.1	34562.3
60°	12755.0	13609.9	14703.8	17626.9	21097.0	25462.9	30570.5	33261.1	34018.6	38305.9	36960.6
62.5°	8162.8	8690.9	9696.7	12450.1	16438.8	22869.7	31312.3	38384.4	37774.7	41970.8	40556.4
65°	5588.6	5928.0	6849.0	8395.4	10627.1	17023.4	29325.8	42225.4	43740.4	47779.4	46704.4
67.5°	4061.0	4318.7	5104.5	6459.2	6924.4	10073.9	22756.6	42049.4	49539.6	53764.0	52091.8
70°	2960.9	3143.2	3803.2	5104.5	5327.7	5604.3	13786.0	35744.2	49413.8	55354.4	53352.2
72.5°	2193.9	2319.7	2762.9	3960.4	4312.4	3784.4	6823.8	25978.3	42461.1	50067.6	48461.5
75°	1587.3	1681.6	2008.5	3030.0	3451.2	2882.3	3404.1	15181.5	29618.1	35219.3	35502.2
77.5°	1213.3	1285.6	1499.3	2219.1	2762.9	2162.5	2112.2	6984.1	14043.7	14112.9	14904.9
80°	974.4	1021.5	1137.8	1562.2	2118.5	1618.7	1376.7	2819.4	4438.2	3756.1	3941.5
82.5°	716.6	795.2	961.8	1097.0	1515.0	1115.8	839.2	1423.9	1687.9	1452.1	1464.7
85°	408.6	462.0	581.5	785.8	968.1	682.1	480.9	631.8	785.8	644.4	575.2
87.5°	144.6	188.6	204.3	308.0	421.2	282.9	185.4	182.3	257.7	191.7	160.3
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°	8684.6	8684.6	8684.6	8684.6	8684.6	8684.6	8684.6	8684.6	8684.6	8684.6	8684.6
2.5°	8747.5	8731.7	8668.9	8584.0	8496.0	8411.1	8382.8	8323.1	8282.3	8260.3	8285.4
5°	8923.5	8873.2	8725.5	8536.9	8338.8	8125.1	7974.2	7835.9	7735.4	7641.1	7678.8
7.5°	9174.9	9086.9	8832.3	8502.3	8150.3	7795.1	7531.0	7329.9	7194.7	7106.7	7125.6
10°	9467.2	9332.1	8942.3	8448.9	7905.1	7395.9	7084.7	6911.8	6827.0	6779.8	6792.4
12.5°	9803.6	9611.8	9055.5	8326.3	7531.0	6949.6	6735.8	6685.5	6688.7	6691.8	6698.1
15°	10218.5	9951.3	9146.6	8059.1	7043.9	6607.0	6569.2	6651.0	6735.8	6776.7	6773.5
17.5°	10686.8	10309.6	9162.4	7619.1	6566.1	6386.9	6506.4	6682.4	6811.3	6867.8	6880.4
20°	11189.7	10674.2	9049.2	6996.7	6173.2	6207.8	6421.5	6647.8	6789.3	6861.6	6880.4
22.5°	11764.9	11064.0	8778.9	6342.9	5852.6	6012.9	6264.3	6484.4	6632.1	6704.4	6723.3
25°	12421.8	11500.9	8354.6	5792.9	5576.0	5792.9	6044.3	6226.6	6346.1	6412.1	6430.9
27.5°	13151.0	11956.6	7788.8	5356.0	5334.0	5566.6	5774.0	5915.5	5978.3	6028.6	6047.5
30°	13883.4	12371.5	7103.6	5025.9	5123.4	5343.4	5491.1	5554.0	5572.8	5582.3	5604.3
32.5°	14675.5	12729.9	6383.8	4752.5	4922.2	5126.5	5214.5	5242.8	5154.8	5095.1	5113.9
35°	15634.2	13113.3	5679.7	4535.6	4724.2	4900.2	4928.5	4903.4	4799.6	4677.0	4683.3
37.5°	16819.1	13591.1	5117.1	4381.6	4538.7	4655.0	4620.5	4614.2	4623.6	4479.0	4488.5
40°	18271.3	14213.4	4705.3	4262.1	4387.9	4413.0	4315.6	4369.0	4416.2	4196.1	4202.4
42.5°	19883.7	14964.7	4444.4	4180.4	4262.1	4202.4	4051.6	4111.3	4105.0	3815.8	3812.7
45°	21527.6	15781.9	4353.3	4120.7	4145.8	4026.4	3859.8	3875.5	3743.5	3482.6	3492.1
47.5°	23162.1	16658.8	4409.9	4070.4	4001.3	3866.1	3737.2	3668.1	3473.2	3278.3	3278.3
50°	24765.1	17579.8	4617.3	3969.8	3803.2	3724.7	3630.4	3507.8	3300.3	3133.7	3121.2
52.5°	26251.8	18507.0	4849.9	3803.2	3554.9	3602.1	3542.4	3400.9	3196.6	3026.9	3030.0
55°	27659.9	19434.2	4941.1	3573.8	3322.3	3495.2	3460.6	3199.8	2954.6	2816.3	2803.7
57.5°	29193.8	20550.1	4840.5	3281.5	3133.7	3372.6	3240.6	2951.4	2810.0	2706.3	2696.8
60°	31318.6	22300.8	4623.6	2920.0	2954.6	3190.3	2964.0	2844.6	2690.6	2574.3	2568.0
62.5°	34848.4	25566.6	4274.7	2561.7	2744.0	2920.0	2832.0	2712.6	2555.4	2442.2	2442.2
65°	40066.0	30105.3	3617.8	2281.9	2508.3	2656.0	2690.6	2571.1	2407.7	2288.2	2294.5
67.5°	44466.5	32953.0	2737.7	2049.3	2266.2	2442.2	2539.7	2423.4	2250.5	2134.2	2137.4
70°	44224.5	30884.8	2090.2	1819.9	2052.5	2231.7	2357.4	2266.2	2080.8	1970.8	1980.2
72.5°	39280.3	25836.9	1691.0	1587.3	1835.6	2011.6	2162.5	2093.4	1904.8	1797.9	1797.9
75°	28857.5	18340.4	1351.6	1351.6	1565.3	1782.2	1948.8	1904.8	1731.9	1656.5	1634.5
77.5°	12164.1	7694.5	1059.2	1122.1	1301.3	1530.7	1738.2	1753.9	1603.0	1697.3	1540.2
80°	3234.3	2121.6	807.8	883.2	1021.5	1263.6	1511.9	1505.6	1342.1	1254.1	1166.1
82.5°	1232.1	836.1	575.2	622.3	738.6	968.1	1197.5	1235.3	1071.8	927.2	927.2
85°	474.6	358.3	355.2	374.0	430.6	641.2	905.2	936.7	807.8	685.2	707.2
87.5°	122.6	106.9	132.0	125.7	198.0	342.6	518.6	537.5	493.5	286.0	408.6
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)