

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: P953400

Luminaire Tested: **GALN-SB7A-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-722-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22469 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 199.1
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

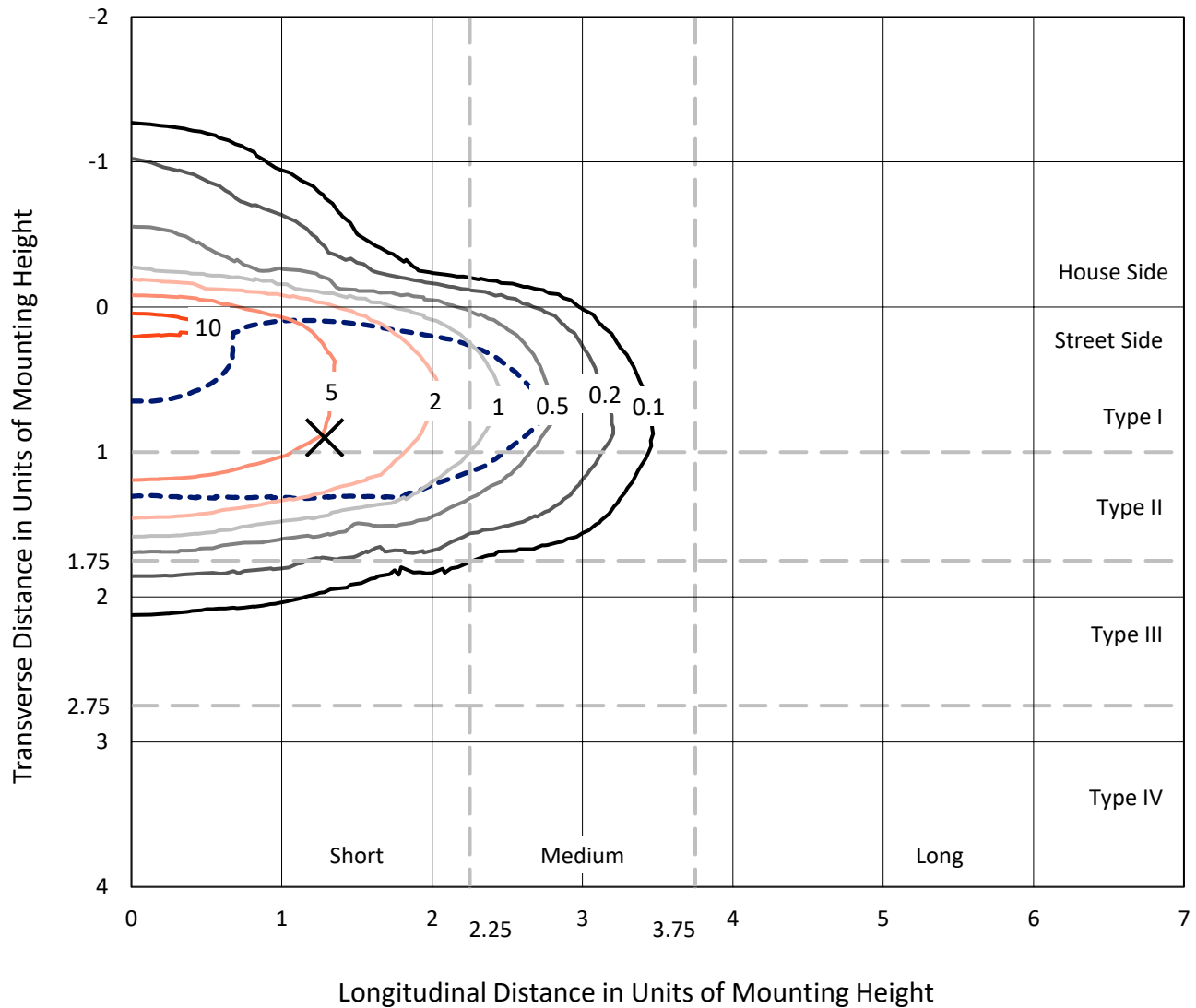


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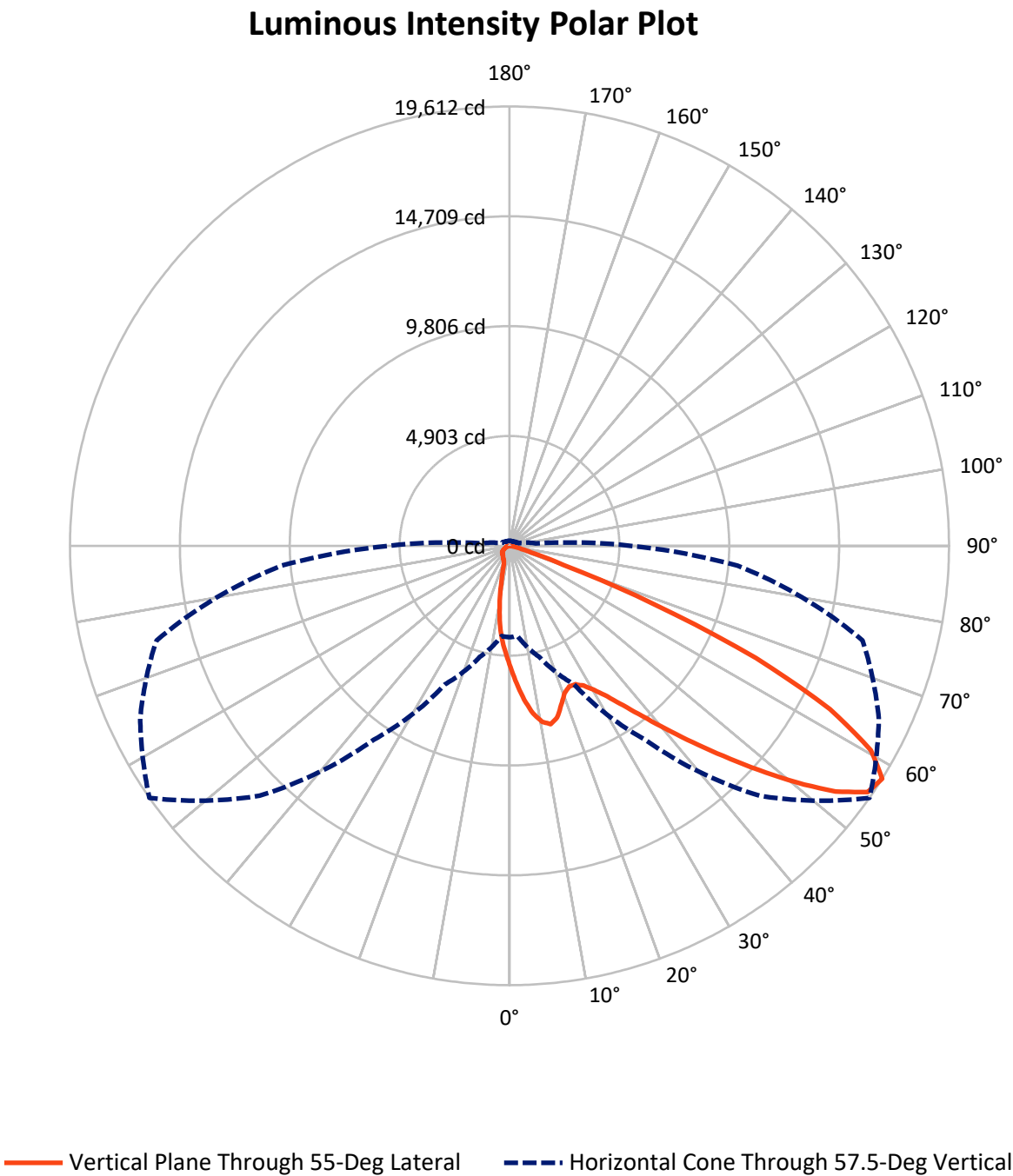
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
Type II - Short - N/A

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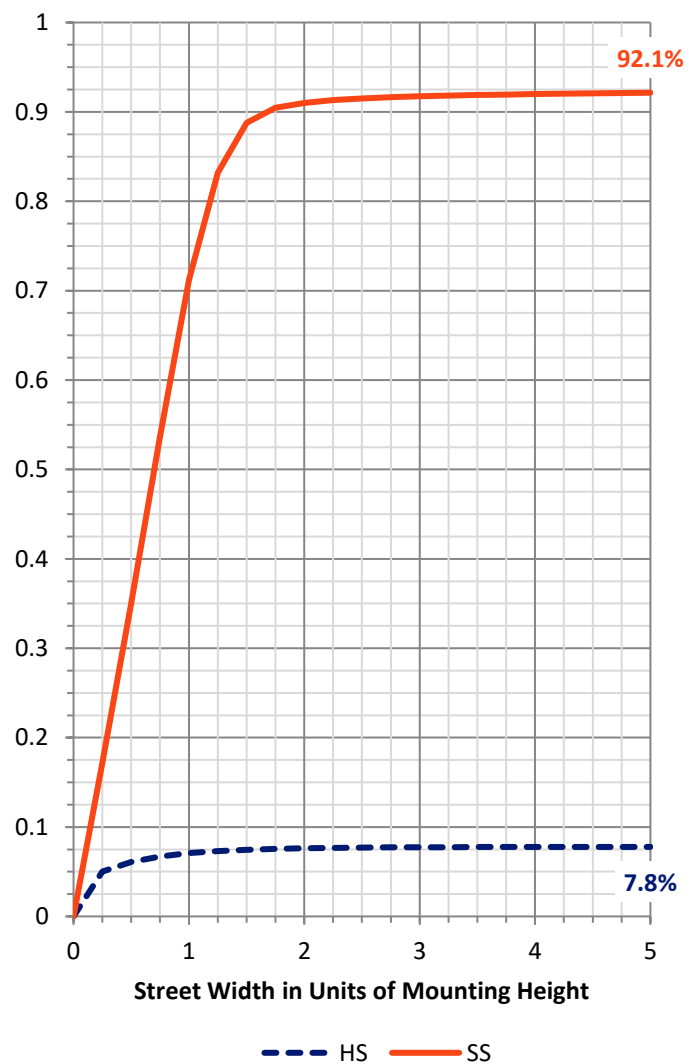
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1754.7	0.0	1754.7
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	20714.3	0.0	20714.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	22469.0	0.0	22469.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.8	2.2
10°-20°	1216.9	5.4
20°-30°	1947.0	8.7
30°-40°	3295.5	14.7
40°-50°	5410.4	24.1
50°-60°	5946.5	26.5
60°-70°	3410.9	15.2
70°-80°	696.9	3.1
80°-90°	41.1	0.2
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°	22469.0	100.0
0°-180°	22469.0	100.0

Coefficient of Utilization



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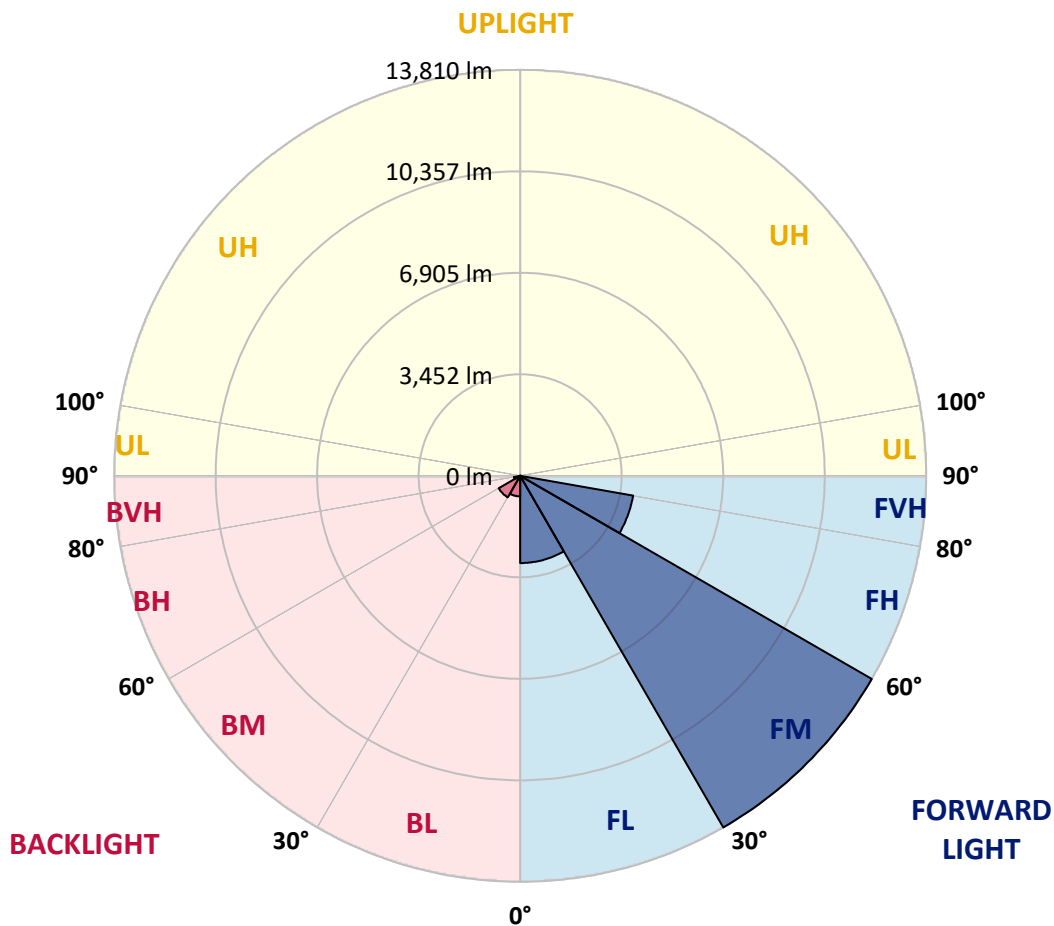
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2967.2	13.2			
FM	(30°-60°)	13809.6	61.5			
FH	(60°-80°)	3899.1	17.4			G2/5000
FVH	(80°-90°)	38.3	0.2			G1/100
BL	(0°-30°)	700.5	3.1	B2/1000		
BM	(30°-60°)	842.7	3.8	B1/1000		
BH	(60°-80°)	208.7	0.9	B1/500		G1/500
BVH	(80°-90°)	2.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5414.5	5414.5	5414.5	5414.5	5414.5	5414.5	5414.5	5414.5	5414.5	5414.5	5414.5
2.5°	6718.2	6633.7	6621.2	6604.6	6443.9	6323.4	6148.8	5957.6	5742.8	5523.9	5426.9
5°	7761.5	7695.0	7682.5	7604.9	7422.0	7217.0	6906.6	6514.6	6114.1	5643.1	5440.8
7.5°	7963.8	7951.3	8008.1	8005.3	7980.4	7818.3	7556.4	7089.5	6488.2	5789.9	5476.8
10°	7061.8	7093.7	7262.7	7411.0	7811.4	8044.1	7987.3	7602.2	6873.4	5957.6	5517.0
12.5°	6240.2	6202.8	6323.4	6491.0	6956.5	7649.3	8166.0	8030.3	7314.0	6147.4	5576.6
15°	5724.8	5709.6	5777.5	5855.1	6209.7	6908.0	7958.2	8378.0	7737.9	6371.8	5666.6
17.5°	5560.0	5547.5	5568.3	5587.7	5817.7	6358.0	7463.6	8591.4	8143.9	6628.2	5766.4
20°	5694.3	5677.7	5674.9	5659.7	5755.3	6123.8	7016.1	8606.6	8508.3	6860.9	5852.3
22.5°	6086.4	6067.0	5999.1	5938.2	5946.5	6155.7	6816.6	8454.2	8782.6	7078.4	5906.3
25°	6797.2	6765.3	6624.0	6419.0	6288.7	6377.4	6847.1	8253.3	9044.4	7248.9	5880.0
27.5°	7686.7	7645.1	7463.6	7158.8	6860.9	6752.9	7067.4	8114.8	9262.0	7379.1	5823.2
30°	8558.1	8504.1	8325.4	8088.5	7653.4	7312.6	7465.0	8175.7	9521.1	7514.9	5748.4
32.5°	9498.9	9447.6	9210.7	8917.0	8556.8	8098.2	8009.5	8473.6	9838.3	7704.7	5695.7
35°	10689.0	10608.7	10272.0	9871.6	9489.2	9025.0	8746.6	8987.6	10260.9	7994.2	5724.8
37.5°	12044.0	11936.0	11573.0	11020.1	10521.4	10001.8	9644.4	9694.2	10880.2	8382.2	5814.9
40°	13321.4	13223.1	12887.8	12366.8	11740.6	11110.2	10729.2	10618.4	11735.1	8854.6	5972.8
42.5°	14087.6	13998.9	13857.6	13637.3	13109.5	12466.6	11985.8	11746.1	12746.5	9419.9	6165.4
45°	14130.6	14053.0	14242.8	14499.1	14395.2	13967.1	13381.0	12941.8	13762.0	9950.6	6364.9
47.5°	13443.4	13390.7	13967.1	14862.1	15308.2	15488.3	14948.0	14037.7	14600.2	10331.6	6446.7
50°	11570.2	11550.8	12736.8	14379.9	15656.0	16821.2	16600.9	15057.5	15250.0	10528.3	6369.1
52.5°	10032.3	9961.6	10653.0	12836.5	15150.3	17522.2	18216.4	16057.8	15704.5	10565.7	6187.6
55°	7609.1	7546.7	8414.1	10254.0	13519.6	17272.8	19398.2	17090.0	16030.1	10470.1	5862.0
57.5°	4081.6	4042.8	5138.8	6824.9	10568.5	15776.5	19611.5	18181.7	16304.4	10216.6	5406.2
60°	1589.2	1582.2	1992.3	3311.3	6423.1	12835.1	18535.0	18837.1	16476.2	9904.8	5025.2
62.5°	961.5	982.3	1048.8	1486.6	2837.5	7973.5	16053.6	18091.7	16591.2	9619.4	4710.6
65°	795.3	796.7	805.0	1021.1	1359.2	3336.2	12085.6	15639.4	16307.2	9110.9	4264.5
67.5°	681.7	694.1	726.0	810.5	958.8	1463.1	6957.9	12114.7	14579.5	7927.7	3569.0
70°	537.6	554.2	594.4	666.4	739.8	915.8	2571.5	8060.8	11137.9	5975.6	2698.9
72.5°	453.1	451.7	472.5	541.7	587.4	644.3	989.2	4516.7	6473.0	2852.7	1335.6
75°	350.5	364.4	390.7	453.1	480.8	466.9	536.2	1650.1	2319.3	864.5	454.4
77.5°	274.3	285.4	309.0	369.9	397.6	331.1	309.0	590.2	745.4	310.3	205.1
80°	123.3	133.0	210.6	272.9	324.2	228.6	167.6	302.0	331.1	141.3	103.9
82.5°	22.2	37.4	123.3	144.1	166.3	148.2	87.3	156.6	162.1	56.8	36.0
85°	1.4	2.8	43.0	52.6	66.5	48.5	26.3	62.3	54.0	19.4	13.9
87.5°	0.0	0.0	0.0	1.4	1.4	6.9	8.3	11.1	8.3	6.9	5.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5414.5	5414.5	5414.5	5414.5	5414.5	5414.5	5414.5	5414.5	5414.5	5414.5
2.5°	5327.2	5130.5	4939.3	4782.7	4691.3	4536.1	4433.6	4416.9	4374.0	4411.4
5°	5224.7	4872.8	4516.7	4198.0	3936.2	3598.1	3345.9	3239.3	3146.4	3178.3
7.5°	5176.2	4620.6	4066.4	3521.9	2962.2	2421.8	2020.0	1852.4	1724.9	1742.9
10°	5111.1	4358.7	3490.0	2658.7	1909.2	1375.8	1098.7	996.2	939.4	940.7
12.5°	5061.2	4045.6	2820.8	1802.5	1162.4	878.4	792.5	767.6	750.9	752.3
15°	5036.2	3677.1	2160.0	1201.2	831.3	744.0	723.2	712.1	701.1	699.7
17.5°	4994.7	3267.0	1580.8	877.0	727.4	696.9	678.9	666.4	652.6	649.8
20°	4932.3	2801.5	1155.5	741.2	681.7	658.1	633.2	616.5	599.9	597.1
22.5°	4817.3	2309.6	888.1	685.8	648.4	622.1	591.6	572.2	555.6	552.8
25°	4604.0	1848.2	748.2	651.2	619.3	587.4	554.2	527.9	512.6	509.9
27.5°	4333.8	1452.0	678.9	619.3	581.9	552.8	515.4	490.5	476.6	473.8
30°	4015.1	1118.1	638.7	583.3	537.6	512.6	479.4	458.6	450.3	450.3
32.5°	3671.5	893.6	622.1	547.3	498.8	471.1	444.7	436.4	433.7	432.3
35°	3348.7	775.9	613.8	518.2	464.1	437.8	426.7	428.1	433.7	433.7
37.5°	3061.9	738.5	609.6	497.4	433.7	410.1	417.0	429.5	424.0	424.0
40°	2802.8	742.6	606.8	482.1	408.7	394.9	408.7	399.0	385.2	383.8
42.5°	2604.7	777.3	601.3	469.7	393.5	383.8	378.2	363.0	361.6	364.4
45°	2460.6	807.7	599.9	464.1	376.9	358.8	351.9	336.7	364.4	371.3
47.5°	2290.2	807.7	599.9	444.7	349.1	342.2	331.1	314.5	342.2	349.1
50°	2069.9	756.5	576.4	422.6	327.0	322.8	303.4	282.6	277.1	281.3
52.5°	1791.4	663.6	516.8	392.1	304.8	296.5	272.9	257.7	253.5	253.5
55°	1474.2	555.6	436.4	347.8	281.3	266.0	249.4	242.5	238.3	235.5
57.5°	1198.4	455.8	350.5	309.0	259.1	239.7	234.1	225.8	218.9	214.8
60°	983.7	358.8	289.6	274.3	236.9	218.9	217.5	206.4	188.4	185.7
62.5°	759.2	263.2	243.8	238.3	214.8	199.5	196.7	174.6	146.9	141.3
65°	536.2	205.1	196.7	209.2	191.2	177.3	170.4	137.2	108.1	103.9
67.5°	376.9	171.8	155.2	182.9	166.3	148.2	144.1	116.4	90.1	87.3
70°	268.8	139.9	127.5	156.6	133.0	130.2	121.9	97.0	73.4	70.7
72.5°	189.8	106.7	98.4	135.8	91.4	112.2	99.8	74.8	55.4	52.6
75°	139.9	76.2	69.3	79.0	66.5	84.5	70.7	49.9	34.6	33.3
77.5°	102.5	48.5	41.6	38.8	38.8	52.6	38.8	20.8	15.2	13.9
80°	72.0	22.2	19.4	16.6	15.2	12.5	5.5	2.8	1.4	1.4
82.5°	43.0	9.7	9.7	6.9	4.2	0.0	0.0	0.0	0.0	0.0
85°	9.7	4.2	4.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	1.4	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

(END OF REPORT)