

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: P943472

Luminaire Tested: **GALN-SB8A-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-722-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29703 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 227.1
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

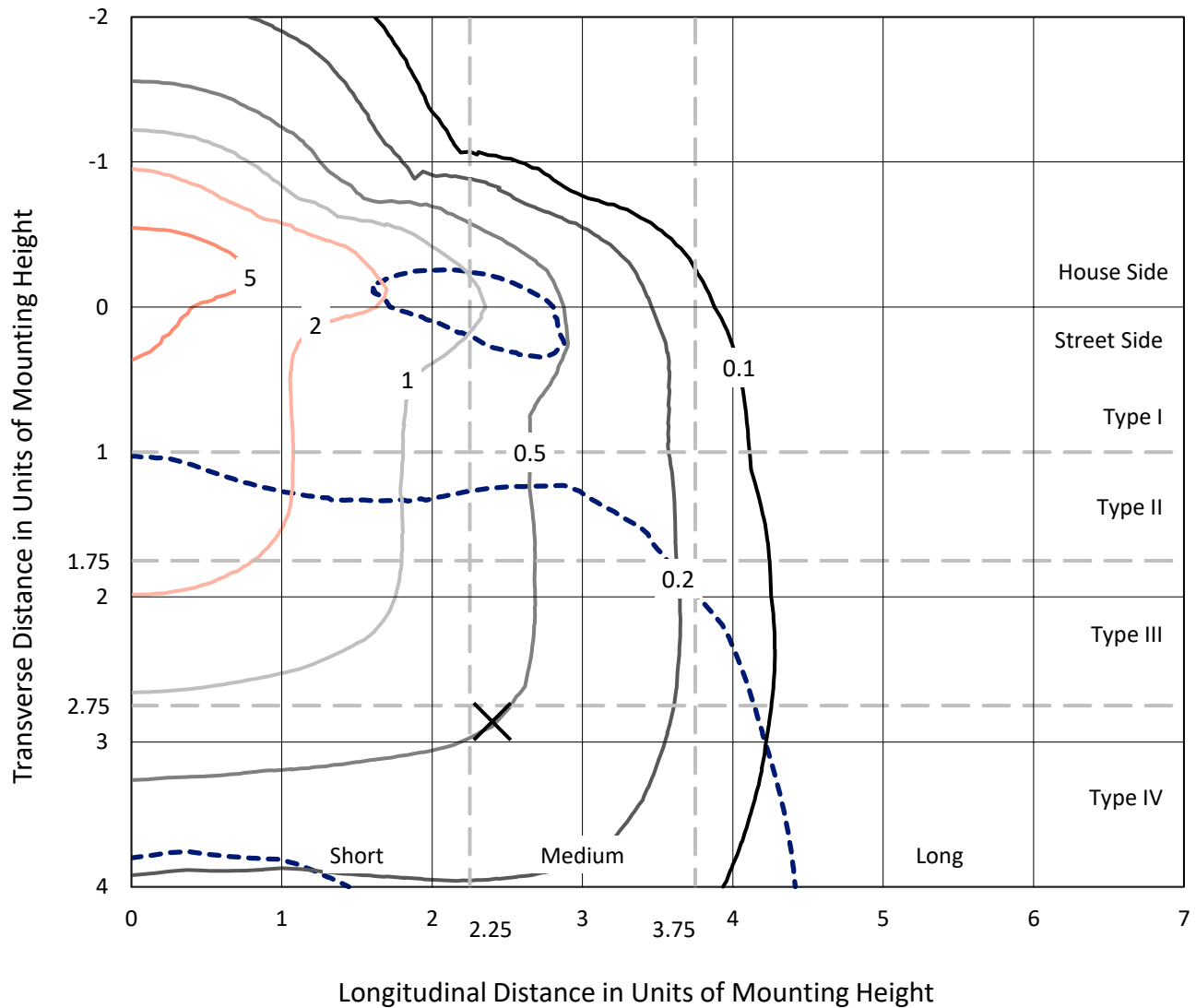


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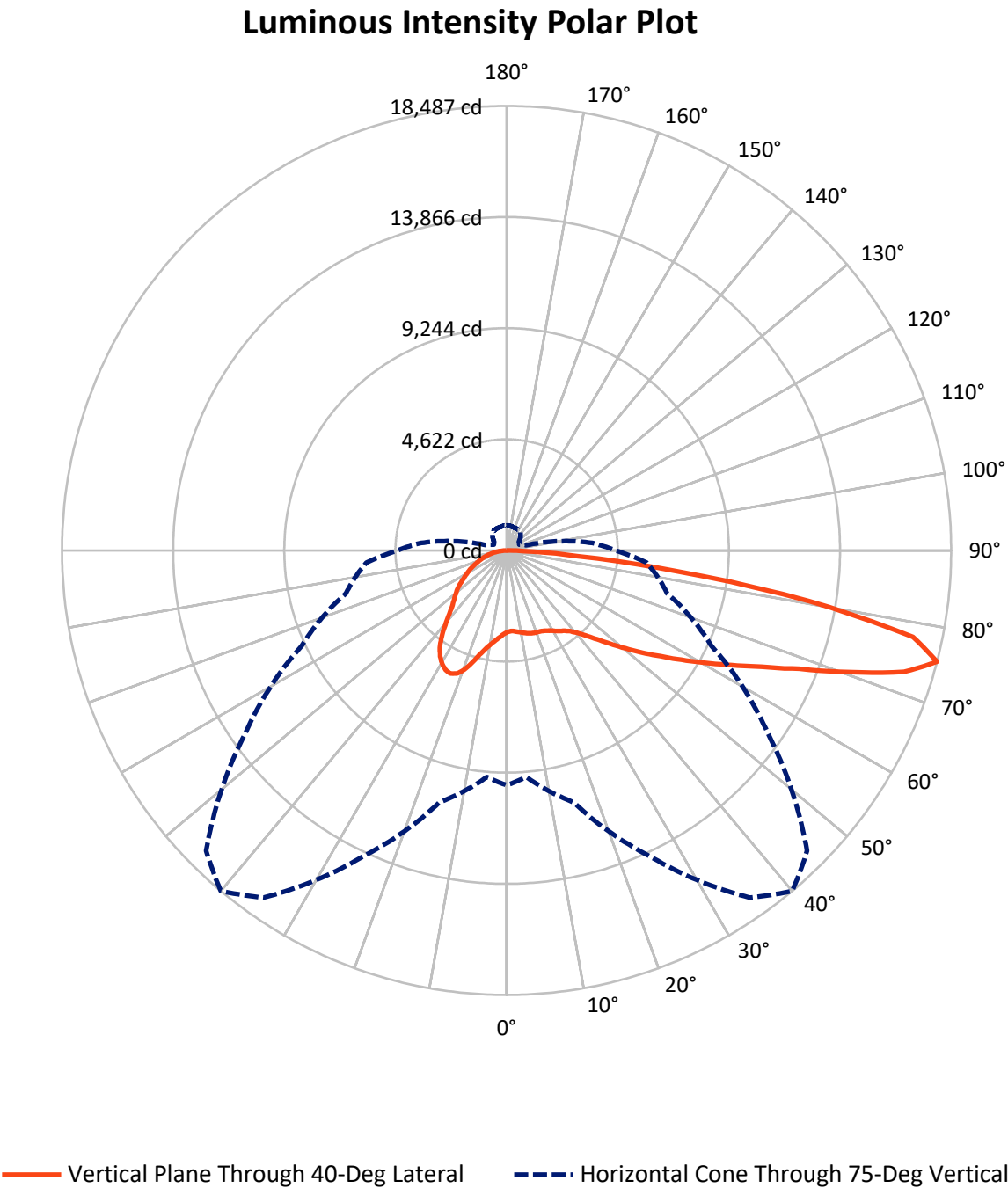
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type IV - Medium - N/A

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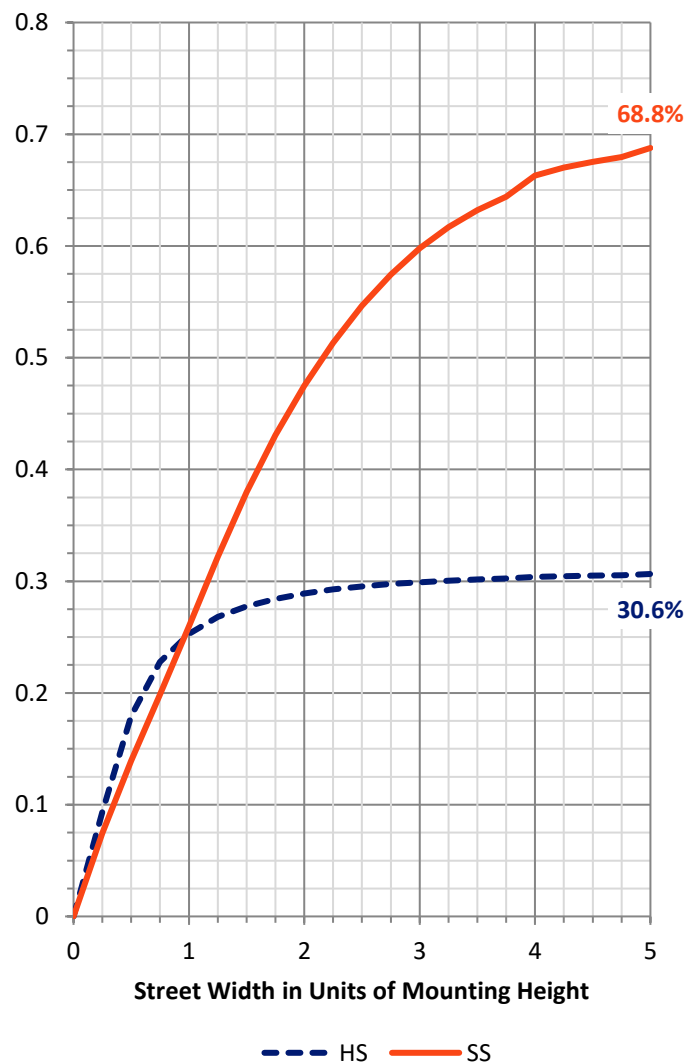
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9203.0	0.0	9203.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	20500.0	0.0	20500.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	29703.0	0.0	29703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.0	1.1
10°-20°	1138.3	3.8
20°-30°	2078.5	7.0
30°-40°	2947.9	9.9
40°-50°	3980.5	13.4
50°-60°	5354.8	18.0
60°-70°	6796.5	22.9
70°-80°	6168.3	20.8
80°-90°	899.1	3.0
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°	29703.0	100.0
0°-180°	29703.0	100.0

Coefficient of Utilization



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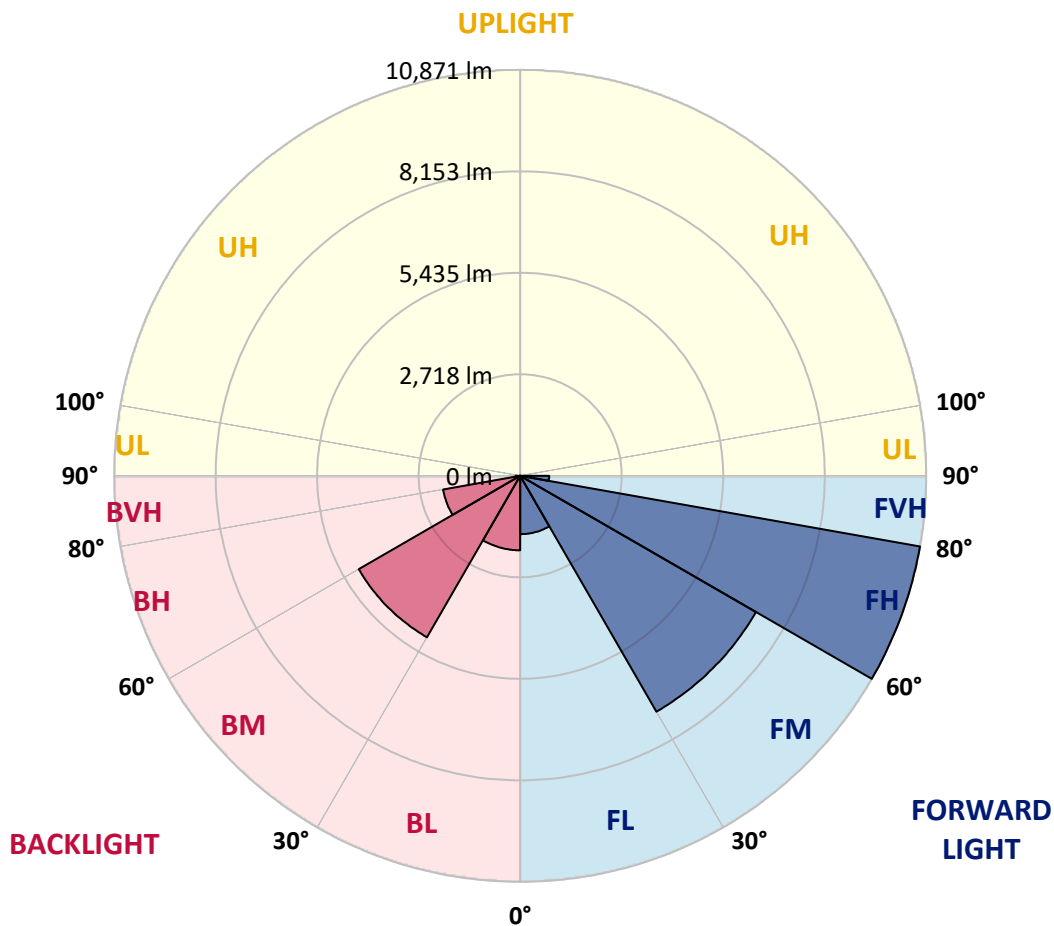
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1562.4	5.3			
FM	(30°-60°)	7291.4	24.5			
FH	(60°-80°)	10870.8	36.6			G4/12000
FVH	(80°-90°)	775.4	2.6			G5
BL	(0°-30°)	1993.5	6.7	B3/2500		
BM	(30°-60°)	4991.8	16.8	B3/5000		
BH	(60°-80°)	2094.0	7.0	B3/2500		G3/2500
BVH	(80°-90°)	123.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3396.6	3396.6	3396.6	3396.6	3396.6	3396.6	3396.6	3396.6	3396.6	3396.6	3396.6
2.5°	3344.6	3363.5	3358.8	3352.5	3352.5	3354.0	3352.5	3363.5	3374.5	3385.5	3402.9
5°	3379.2	3398.2	3388.7	3380.8	3374.5	3372.9	3368.2	3366.6	3372.9	3387.1	3410.8
7.5°	3447.0	3465.9	3451.7	3437.5	3424.9	3418.6	3412.3	3402.9	3398.2	3406.0	3439.1
10°	3522.6	3541.5	3524.2	3499.0	3478.5	3470.6	3464.3	3454.9	3448.6	3453.3	3489.5
12.5°	3598.2	3617.1	3593.5	3558.8	3532.1	3527.3	3519.5	3516.3	3514.7	3513.2	3549.4
15°	3669.1	3684.9	3654.9	3614.0	3585.6	3577.7	3569.9	3574.6	3582.5	3591.9	3632.9
17.5°	3724.3	3740.0	3695.9	3642.3	3615.6	3612.4	3607.7	3623.4	3645.5	3669.1	3719.5
20°	3774.7	3790.4	3733.7	3661.2	3629.7	3629.7	3631.3	3664.4	3695.9	3730.6	3799.9
22.5°	3845.6	3858.2	3788.9	3689.6	3643.9	3647.1	3659.7	3692.8	3732.1	3779.4	3875.5
25°	3951.1	3960.6	3875.5	3743.2	3691.2	3700.6	3711.7	3727.4	3765.2	3820.4	3949.5
27.5°	4121.3	4129.1	4017.3	3837.7	3758.9	3774.7	3790.4	3779.4	3796.7	3844.0	4009.4
30°	4360.7	4365.5	4223.7	3985.8	3873.9	3881.8	3885.0	3839.3	3806.2	3844.0	4051.9
32.5°	4644.3	4642.7	4474.2	4165.4	4004.7	3996.8	3970.0	3880.2	3803.0	3836.1	4089.8
35°	5083.8	5066.5	4849.1	4417.4	4152.8	4103.9	4040.9	3925.9	3818.8	3828.2	4122.8
37.5°	5811.7	5758.1	5457.2	4830.2	4373.3	4248.9	4155.9	4000.0	3853.4	3825.1	4162.2
40°	6632.5	6564.7	6233.9	5395.8	4704.2	4504.1	4354.4	4105.5	3910.2	3839.3	4220.5
42.5°	7606.1	7510.0	7153.9	6062.2	5123.2	4833.3	4608.1	4239.4	3993.7	3885.0	4299.3
45°	8801.8	8674.2	8170.1	6813.6	5651.0	5265.0	4964.1	4442.6	4121.3	3973.2	4417.4
47.5°	10010.1	10041.6	9324.8	7673.8	6284.3	5797.5	5409.9	4748.3	4307.2	4115.0	4608.1
50°	11294.1	11316.1	10473.3	8626.9	7002.7	6399.3	5910.9	5090.1	4565.5	4316.6	4893.2
52.5°	12296.1	12299.2	11516.2	9624.2	7751.0	7061.0	6451.3	5480.8	4864.9	4584.4	5272.9
55°	12923.1	12915.2	12247.2	10567.8	8611.2	7755.7	7049.9	5925.1	5230.4	4899.5	5750.2
57.5°	13378.4	13354.7	12751.3	11379.2	9528.1	8576.5	7727.4	6429.2	5662.0	5274.5	6378.8
60°	13551.7	13537.5	13093.2	12080.2	10492.2	9484.0	8508.8	6993.2	6152.0	5717.2	7187.0
62.5°	13617.8	13644.6	13428.8	12759.2	11524.1	10489.1	9367.4	7667.5	6703.4	6218.1	8039.3
65°	13851.0	13899.8	13855.7	13647.8	12689.9	11665.9	10506.4	8469.4	7305.2	6755.3	8929.4
67.5°	14312.6	14361.4	14380.3	14711.2	14114.1	13132.6	11927.4	9468.2	8009.4	7313.0	9599.0
70°	14301.5	14287.4	14621.4	15557.1	15897.4	15163.3	13843.1	10697.0	8849.1	7776.2	9684.0
72.5°	13017.6	12904.2	13693.4	15547.7	17381.5	17283.8	16182.6	12281.9	9573.7	7832.9	8403.2
75°	9765.9	9463.5	10857.7	14011.7	17628.8	18487.4	17669.8	13264.9	9402.0	6920.8	5847.9
77.5°	4176.4	3872.4	5515.5	10372.5	15777.7	17282.2	16305.5	11572.9	7505.2	4576.6	2872.0
80°	1093.3	1091.8	1666.8	4702.6	10730.1	12762.4	11196.4	7473.7	4288.3	1635.3	792.4
82.5°	452.1	441.1	612.8	1829.0	5243.0	7161.8	5844.8	3333.6	1548.6	442.7	263.1
85°	168.6	167.0	297.8	631.7	1849.5	2953.9	2137.8	852.3	386.0	215.8	118.2
87.5°	47.3	45.7	64.6	219.0	450.6	683.7	365.5	140.2	108.7	85.1	34.7
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°	3396.6	3396.6	3396.6	3396.6	3396.6	3396.6	3396.6	3396.6	3396.6	3396.6	3396.6
2.5°	3407.6	3415.5	3429.7	3440.7	3454.9	3470.6	3492.7	3506.9	3521.0	3530.5	3524.2
5°	3421.8	3439.1	3475.3	3511.6	3554.1	3593.5	3639.2	3672.3	3699.1	3706.9	3710.1
7.5°	3453.3	3481.6	3543.1	3604.5	3672.3	3736.9	3803.0	3859.7	3905.4	3922.8	3924.3
10°	3508.4	3546.2	3632.9	3719.5	3809.3	3908.6	3993.7	4075.6	4140.2	4167.0	4168.5
12.5°	3577.7	3625.0	3738.4	3858.2	3982.6	4119.7	4230.0	4330.8	4411.1	4447.4	4447.4
15°	3667.5	3729.0	3873.9	4034.6	4217.4	4408.0	4548.2	4660.1	4749.9	4794.0	4790.8
17.5°	3765.2	3847.1	4029.9	4272.5	4534.0	4784.5	4948.4	5030.3	5123.2	5165.8	5164.2
20°	3859.7	3960.6	4222.1	4575.0	4923.1	5189.4	5321.7	5343.8	5350.1	5354.8	5367.4
22.5°	3957.4	4092.9	4463.1	4956.2	5329.6	5513.9	5532.8	5438.3	5306.0	5244.5	5261.9
25°	4064.6	4244.1	4778.2	5376.9	5679.3	5701.4	5556.5	5326.5	5076.0	4961.0	4978.3
27.5°	4168.5	4419.0	5156.3	5778.6	5931.4	5737.6	5425.7	5099.6	4797.1	4675.8	4690.0
30°	4272.5	4619.1	5573.8	6129.9	6046.4	5647.8	5219.3	4855.4	4551.4	4423.7	4437.9
32.5°	4378.1	4852.3	6054.3	6383.5	6025.9	5457.2	4962.5	4581.3	4313.5	4179.6	4196.9
35°	4497.8	5139.0	6509.6	6522.2	5888.9	5176.8	4623.8	4253.6	4020.4	3913.3	3936.9
37.5°	4653.8	5502.9	6911.3	6556.8	5649.4	4765.6	4203.2	3866.0	3673.8	3625.0	3659.7
40°	4847.5	5940.9	7218.5	6501.7	5294.9	4266.2	3743.2	3473.8	3365.1	3376.1	3413.9
42.5°	5099.6	6430.8	7434.3	6359.9	4801.8	3751.0	3339.9	3220.1	3272.1	3316.2	3357.2
45°	5427.3	6939.7	7568.3	6118.9	4244.1	3314.7	3102.0	3130.3	3169.7	3174.4	3206.0
47.5°	5846.3	7454.8	7656.5	5755.0	3675.4	3007.5	2950.7	2957.0	2949.2	2916.1	2941.3
50°	6369.4	7955.8	7735.2	5272.9	3191.8	2815.3	2739.6	2717.6	2608.9	2501.7	2515.9
52.5°	6964.9	8415.8	7768.3	4674.2	2815.3	2654.6	2531.7	2393.0	2189.8	2156.7	2167.8
55°	7626.5	8841.2	7683.3	3938.5	2498.6	2448.2	2262.3	2095.3	2073.2	2044.9	2049.6
57.5°	8417.4	9299.6	7510.0	3117.7	2174.1	2207.1	2026.0	2044.9	2005.5	1961.4	1953.5
60°	9282.3	9773.8	7205.9	2369.4	1838.5	1906.2	1964.5	1963.0	1951.9	1915.7	1903.1
62.5°	10060.5	10085.8	6607.3	1814.9	1543.9	1673.1	1832.2	1830.6	1821.2	1800.7	1792.8
65°	10523.7	10038.5	5608.4	1428.9	1301.3	1480.9	1652.6	1665.2	1666.8	1665.2	1665.2
67.5°	10441.8	9485.5	4237.8	1137.4	1101.2	1285.5	1474.6	1491.9	1504.5	1507.7	1510.8
70°	9515.5	8270.9	2763.3	907.4	923.2	1113.8	1306.0	1323.3	1334.4	1347.0	1353.3
72.5°	7417.0	6081.1	1581.7	734.1	767.2	965.7	1139.0	1159.5	1165.8	1189.4	1198.9
75°	4519.8	3576.2	853.9	578.2	630.2	825.5	973.6	997.2	1008.3	1036.6	1039.8
77.5°	2148.9	1548.6	486.8	450.6	507.3	674.3	822.4	849.1	819.2	835.0	822.4
80°	726.3	575.0	307.2	343.4	387.6	526.2	658.5	685.3	622.3	619.1	612.8
82.5°	253.6	233.2	195.4	228.4	250.5	376.5	497.8	532.5	463.2	461.6	439.5
85°	99.3	94.5	108.7	124.5	149.7	231.6	327.7	345.0	285.1	230.0	226.9
87.5°	20.5	22.1	26.8	28.4	45.7	80.3	118.2	144.9	115.0	97.7	89.8
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)