

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: P652140

Luminaire Tested: **GALN-SA9A-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30435.8 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

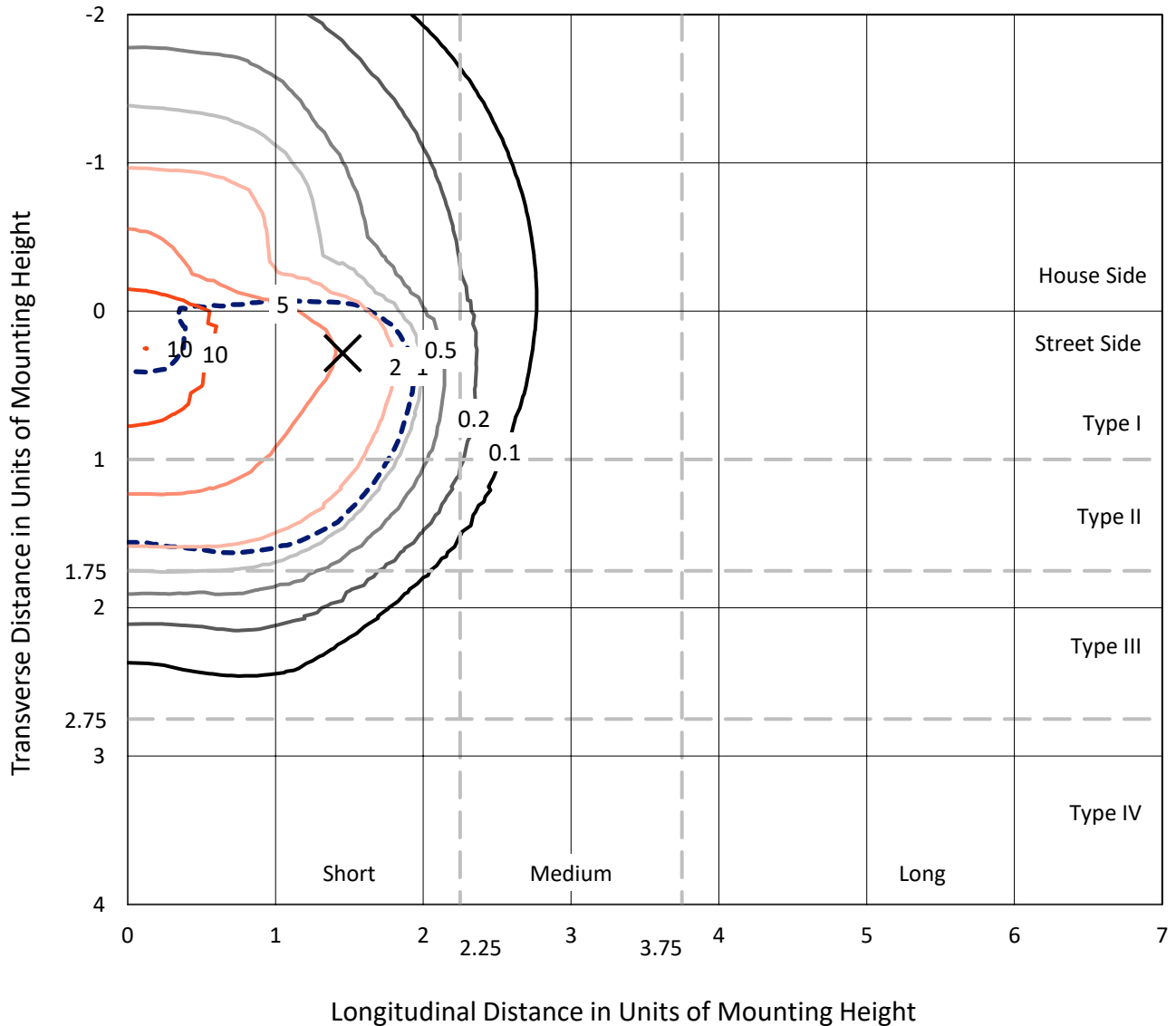
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA9A-840-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

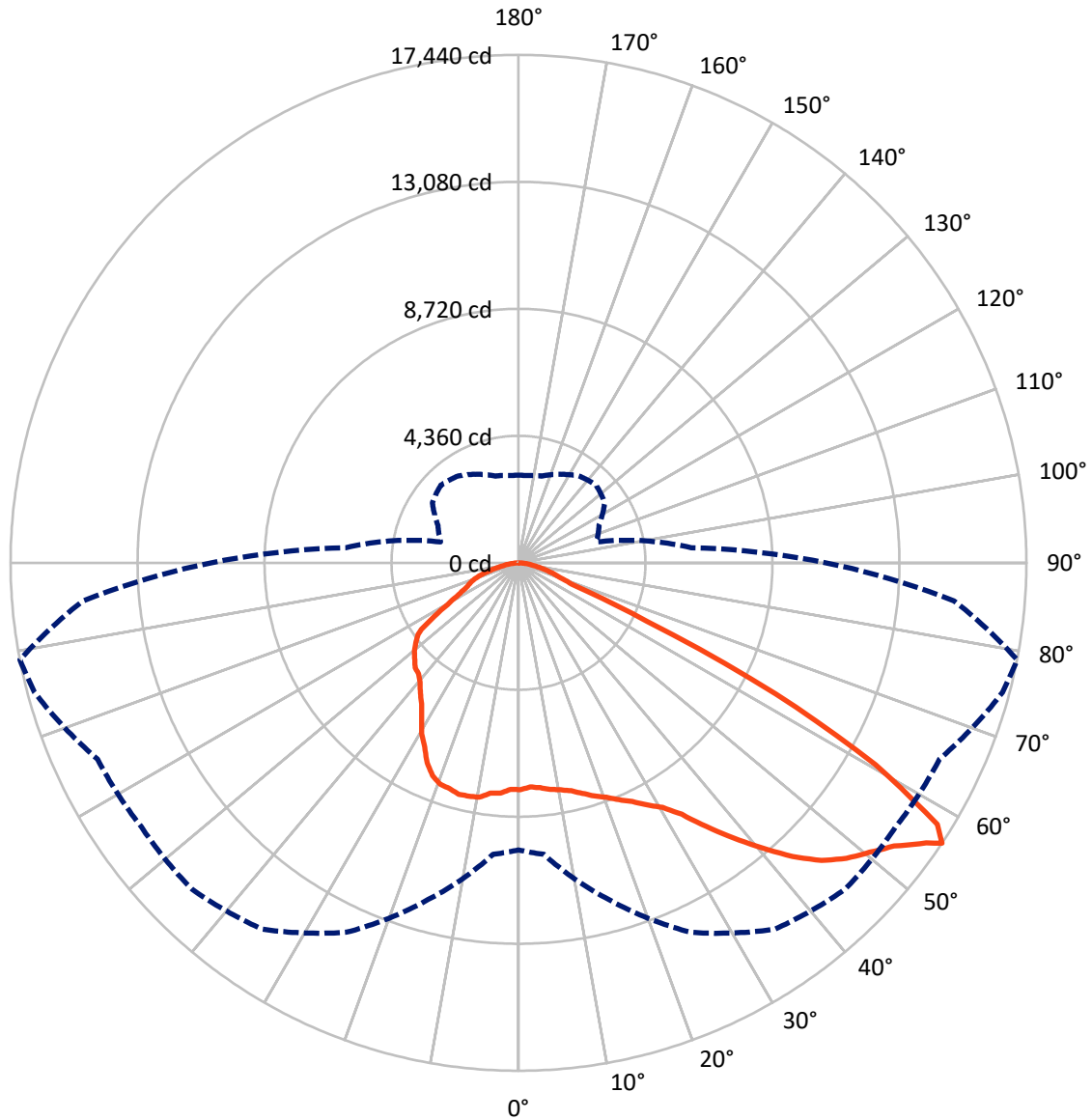
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA9A-840-U-T3R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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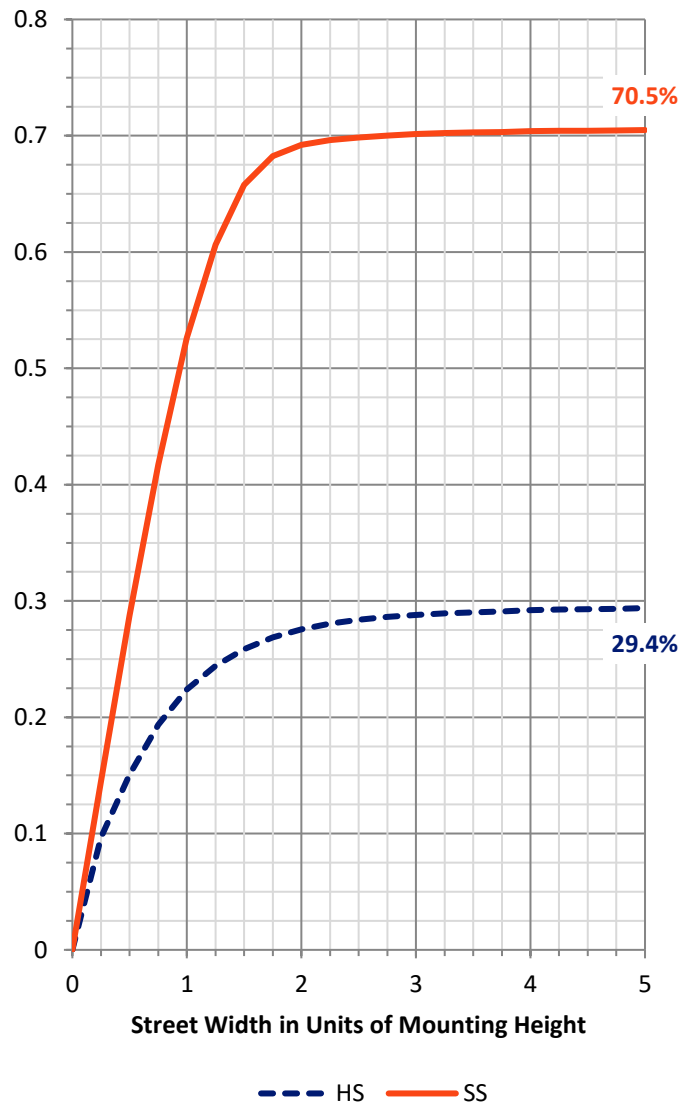
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8988.3	0.0	8988.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	21447.4	0.0	21447.4
	% Fixture	70.5	0.0	70.5
Total	Lumens	30435.8	0.0	30435.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.0	2.3
10°-20°	1937.6	6.4
20°-30°	3314.9	10.9
30°-40°	5080.5	16.7
40°-50°	6866.3	22.6
50°-60°	7886.2	25.9
60°-70°	3594.8	11.8
70°-80°	886.3	2.9
80°-90°	161.1	0.5
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°	30435.8	100.0
0°-180°	30435.8	100.0

Coefficient of Utilization

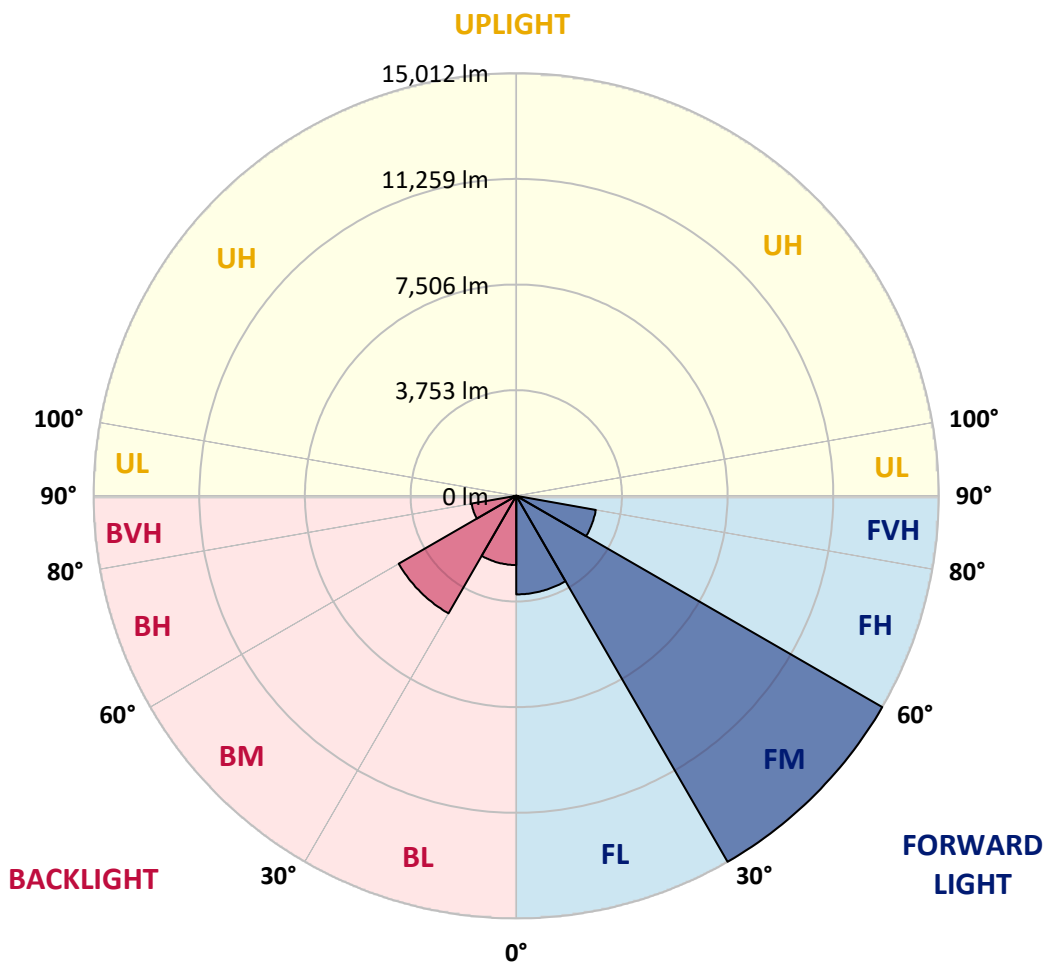


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3501.9	11.5			
FM (30°-60°)	15011.8	49.3			
FH (60°-80°)	2869.4	9.4			G2/5000
FVH (80°-90°)	64.3	0.2			G1/100
BL (0°-30°)	2458.7	8.1	B3/2500		
BM (30°-60°)	4821.2	15.8	B3/5000		
BH (60°-80°)	1611.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	96.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7787.3	7787.3	7787.3	7787.3	7787.3	7787.3	7787.3	7787.3	7787.3	7787.3	7787.3
2.5°	7408.2	7389.2	7434.7	7468.8	7510.6	7563.6	7590.2	7605.3	7738.0	7703.9	7806.2
5°	7248.9	7199.6	7233.8	7260.4	7332.3	7396.8	7468.8	7582.6	7703.9	7757.0	7882.1
7.5°	7108.6	7082.1	7074.6	7093.5	7192.1	7275.5	7400.6	7567.4	7764.5	7851.7	7923.8
10°	6877.4	6839.5	6896.4	7021.5	7048.0	7222.4	7366.5	7605.3	7776.0	7927.6	8139.9
12.5°	6775.0	6737.2	6748.5	6820.5	7006.3	7173.1	7343.7	7612.9	7973.1	8033.7	8318.1
15°	6938.1	6900.2	6911.5	6892.6	7070.8	7157.9	7427.1	7764.5	8109.6	8211.9	8515.2
17.5°	7309.6	7313.4	7264.1	7222.4	7180.7	7366.5	7552.3	7855.5	8162.7	8420.4	8647.9
20°	8018.6	7893.5	7794.9	7559.8	7495.4	7575.0	7810.0	8102.0	8378.7	8591.1	8848.8
22.5°	8564.5	8575.9	8435.7	8048.9	7908.6	7942.7	8143.7	8382.6	8685.8	8837.5	9133.3
25°	9356.9	9277.3	9125.6	8818.6	8503.9	8530.4	8678.3	8894.3	8977.8	9083.9	9406.2
27.5°	10081.1	10103.8	9804.3	9516.2	9125.6	9049.8	9315.2	9353.1	9212.8	9413.8	9523.7
30°	10816.5	10797.6	10600.5	10263.1	9880.1	9895.3	10012.8	9827.0	9633.7	9743.7	9819.4
32.5°	11578.6	11362.5	11354.9	11051.6	10759.7	10619.4	10475.3	10566.3	10266.8	10289.6	10217.6
35°	12189.0	12219.3	12045.0	11828.8	11684.8	11438.4	11044.0	11207.1	11150.2	11123.7	10812.7
37.5°	12632.6	12515.1	12602.2	12530.2	12393.7	12086.6	11677.2	11832.6	11859.2	11988.0	11627.9
40°	12996.6	12947.3	13178.6	13216.5	13121.7	12458.2	11722.7	12185.2	12583.3	12863.9	12435.4
42.5°	13171.0	13277.1	13519.7	13811.7	13599.4	12890.4	11957.8	12454.4	13341.5	13785.2	13201.3
45°	13406.0	13269.6	13629.7	14164.3	14168.1	13254.3	12185.2	12818.4	13933.0	14577.6	13724.4
47.5°	13167.1	13235.4	13607.0	14285.6	14460.0	13637.2	12799.4	13334.0	14585.1	15157.6	14209.8
50°	12632.6	12769.1	13447.7	14152.9	14679.9	14042.9	13504.6	13891.3	15188.0	15623.9	14289.3
52.5°	12075.2	12151.1	13212.6	14255.3	14778.5	14566.1	14448.6	14660.9	15923.4	16150.9	14387.9
55°	10558.8	10919.0	12435.4	14209.8	15259.9	15510.1	15419.1	15730.1	16757.5	16985.0	14926.3
56°	9857.4	10046.9	11969.1	13997.4	15354.7	15855.2	15809.7	15950.0	17201.1	17439.9	15009.7
57.5°	8560.7	8575.9	10206.1	13057.2	14998.3	15957.6	15912.1	16022.0	17113.9	16950.9	14278.0
60°	5357.1	5592.1	6945.7	10043.1	12753.9	14805.0	15062.8	14179.4	14429.6	14084.6	11108.5
62.5°	2775.2	2741.1	3639.7	5872.7	8465.9	10600.5	10839.3	10797.6	10410.9	9906.6	7256.6
65°	1383.8	1391.4	1903.3	2907.9	4337.2	5550.4	6217.7	6289.8	5262.3	4841.5	3442.5
67.5°	1004.7	1042.6	1368.6	1778.1	2043.5	2286.2	2801.8	2748.7	2081.4	1979.0	1835.0
70°	781.0	815.1	1110.9	1357.3	1232.1	1232.1	1342.2	1387.6	1482.4	1524.1	1573.4
72.5°	568.7	595.3	849.2	936.5	807.5	868.2	1004.7	1110.9	1209.4	1224.6	1281.4
75°	390.5	413.3	557.3	515.6	485.3	599.0	735.5	834.1	906.1	944.0	978.2
77.5°	254.0	261.6	318.5	269.2	310.9	386.7	477.7	561.1	633.1	663.5	671.0
80°	113.7	125.1	136.5	170.6	216.1	276.8	341.2	409.5	455.0	466.3	489.0
82.5°	64.4	64.4	83.4	121.4	159.2	200.9	246.4	295.7	348.8	360.2	356.4
85°	34.1	34.1	49.3	72.1	98.6	117.6	113.7	117.6	125.1	144.1	140.3
87.5°	11.4	11.4	15.1	15.1	18.9	22.7	18.9	26.6	34.1	34.1	34.1
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°	7787.3	7787.3	7787.3	7787.3	7787.3	7787.3	7787.3	7787.3	7787.3	7787.3	7787.3
2.5°	7776.0	7810.0	7764.5	7863.1	7863.1	7844.2	7749.4	7779.8	7802.5	7802.5	7821.5
5°	7923.8	7912.5	7942.7	7825.3	7753.2	7726.7	7571.2	7495.4	7430.9	7427.1	7370.3
7.5°	8007.2	7976.9	7965.5	7878.3	7559.8	7366.5	7032.9	6839.5	6797.8	6650.0	6706.8
10°	8139.9	8196.8	8139.9	7666.0	7222.4	6778.8	6452.7	6153.3	6035.8	5941.0	5884.1
12.5°	8412.9	8386.4	8056.5	7415.8	6794.0	6267.0	5781.7	5467.0	5349.5	5266.1	5258.5
15°	8644.1	8511.4	8007.2	7021.5	6126.8	5565.7	5167.5	4943.8	4890.8	4898.3	4932.5
17.5°	8723.8	8632.8	7749.4	6612.0	5630.1	4970.4	4784.6	4750.5	4799.8	4856.6	4871.8
20°	8848.8	8704.8	7643.3	6054.7	5015.9	4598.8	4587.5	4708.8	4799.8	4883.2	4894.5
22.5°	9110.5	8746.5	7298.2	5527.7	4595.1	4488.9	4598.8	4701.2	4841.5	4909.8	4849.0
25°	9186.3	8655.5	6812.9	4894.5	4329.6	4420.6	4538.2	4678.5	4777.0	4815.0	4841.5
27.5°	9250.7	8515.2	6157.0	4473.7	4246.2	4416.8	4538.2	4655.7	4708.8	4742.9	4773.3
30°	9432.7	8473.5	5588.4	4193.1	4193.1	4341.0	4496.5	4526.8	4598.8	4640.6	4693.6
32.5°	9523.7	8185.4	5004.5	4015.0	4140.1	4378.9	4390.4	4447.2	4451.0	4485.1	4428.2
35°	9762.6	7980.7	4462.3	3886.1	4162.9	4341.0	4397.9	4363.8	4178.0	4087.0	4105.9
37.5°	9937.0	7878.3	4071.9	3870.9	4166.7	4382.7	4413.1	4155.3	3961.9	3810.2	3848.2
40°	10407.1	7624.3	3776.1	3844.4	4200.7	4428.2	4344.9	4064.3	3715.5	3560.0	3533.5
42.5°	10767.2	7442.3	3590.3	3814.0	4227.3	4492.7	4310.7	3882.3	3525.9	3381.8	3419.8
45°	11184.3	7400.6	3491.7	3821.6	4272.8	4526.8	4269.0	3742.0	3362.9	3306.0	3294.6
47.5°	11332.1	7101.1	3385.6	3757.2	4261.4	4515.4	4128.7	3635.8	3302.2	3309.8	3340.1
50°	11085.7	6794.0	3306.0	3624.5	4185.6	4413.1	3908.8	3495.5	3268.1	3362.9	3416.0
52.5°	10771.0	6479.3	3143.0	3446.2	4030.2	4253.9	3806.5	3488.0	3234.0	3203.6	3215.0
55°	10865.8	6221.5	2915.5	3203.6	3780.0	3958.1	3692.7	3416.0	3150.6	3036.9	3074.7
56°	10558.8	5956.1	2767.6	3052.0	3609.3	3768.5	3635.8	3351.5	3082.3	3006.5	3006.5
57.5°	9690.5	5065.2	2574.3	2809.4	3249.1	3438.7	3525.9	3313.6	3006.5	2873.8	2877.6
60°	7146.6	3601.8	2308.9	2475.7	2691.8	2843.5	3249.1	3207.4	2816.9	2725.9	2691.8
62.5°	4405.5	2631.2	2119.3	2183.8	2293.7	2418.9	2835.9	2904.1	2616.0	2517.4	2494.7
65°	2468.2	2013.2	1975.3	2001.8	2054.9	2119.3	2354.4	2506.0	2308.9	2157.2	2149.7
67.5°	1804.6	1800.8	1831.2	1853.9	1876.7	1876.7	1933.5	1994.2	1967.7	1846.3	1835.0
70°	1603.7	1615.1	1637.8	1641.6	1649.2	1622.7	1577.2	1558.2	1588.6	1512.7	1497.6
72.5°	1323.1	1361.1	1387.6	1391.4	1349.7	1315.6	1254.9	1190.4	1167.7	1152.6	1148.7
75°	1016.1	1042.6	1053.9	1050.2	1035.0	985.7	913.7	849.2	807.5	762.0	784.8
77.5°	686.3	724.1	743.1	743.1	720.3	644.5	610.4	561.1	519.4	470.1	477.7
80°	481.5	508.0	538.3	534.5	496.7	458.8	409.5	364.0	329.8	291.9	288.1
82.5°	360.2	375.3	390.5	382.9	356.4	318.5	284.3	242.6	204.7	178.2	178.2
85°	128.9	140.3	170.6	178.2	193.3	193.3	163.0	136.5	109.9	91.0	91.0
87.5°	37.9	37.9	41.7	41.7	37.9	41.7	34.1	37.9	41.7	26.6	26.6
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)