

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: P943992

Luminaire Tested: **GALN-SB8D-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943992
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-SB8D-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 75656 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 584.9
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

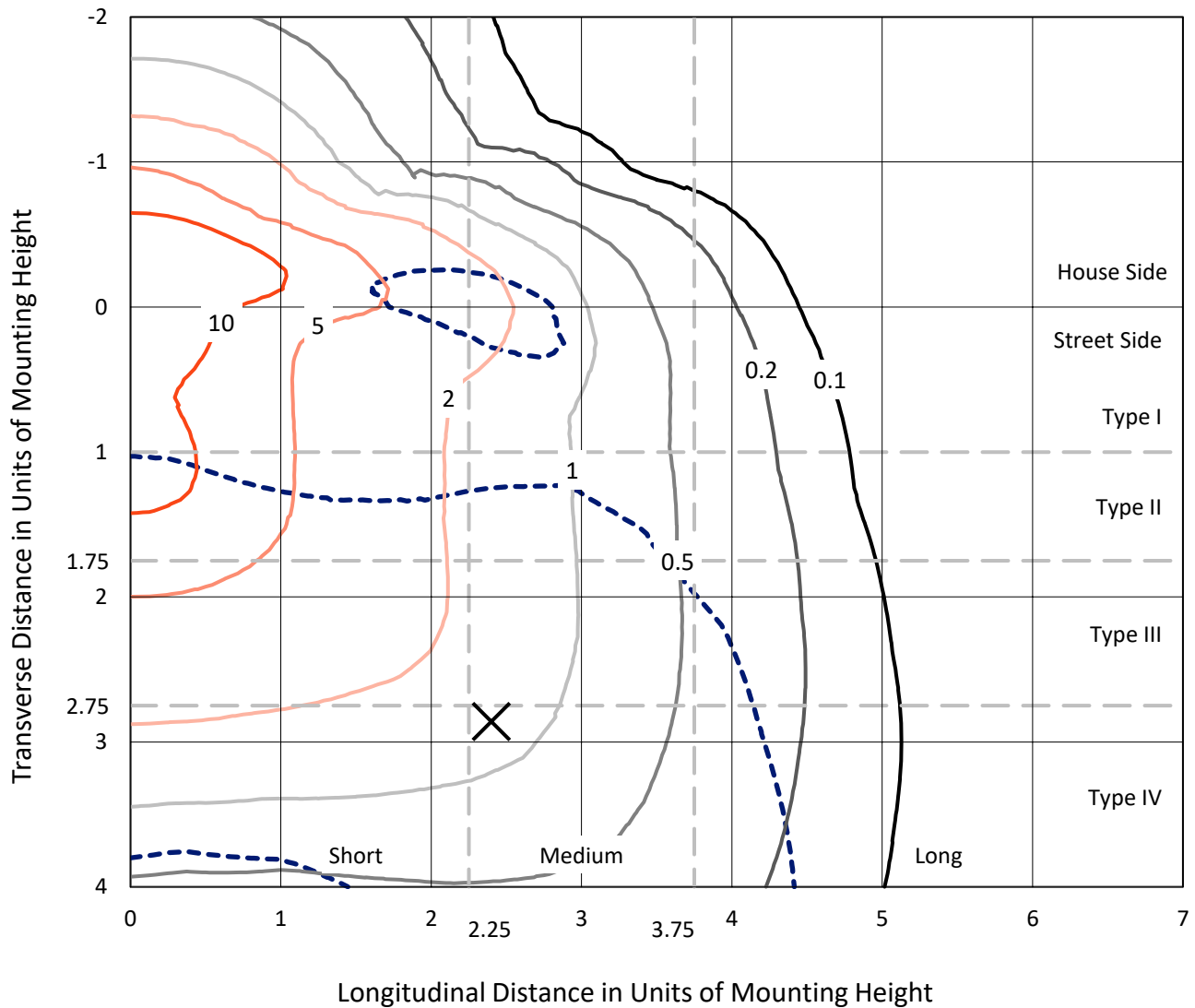


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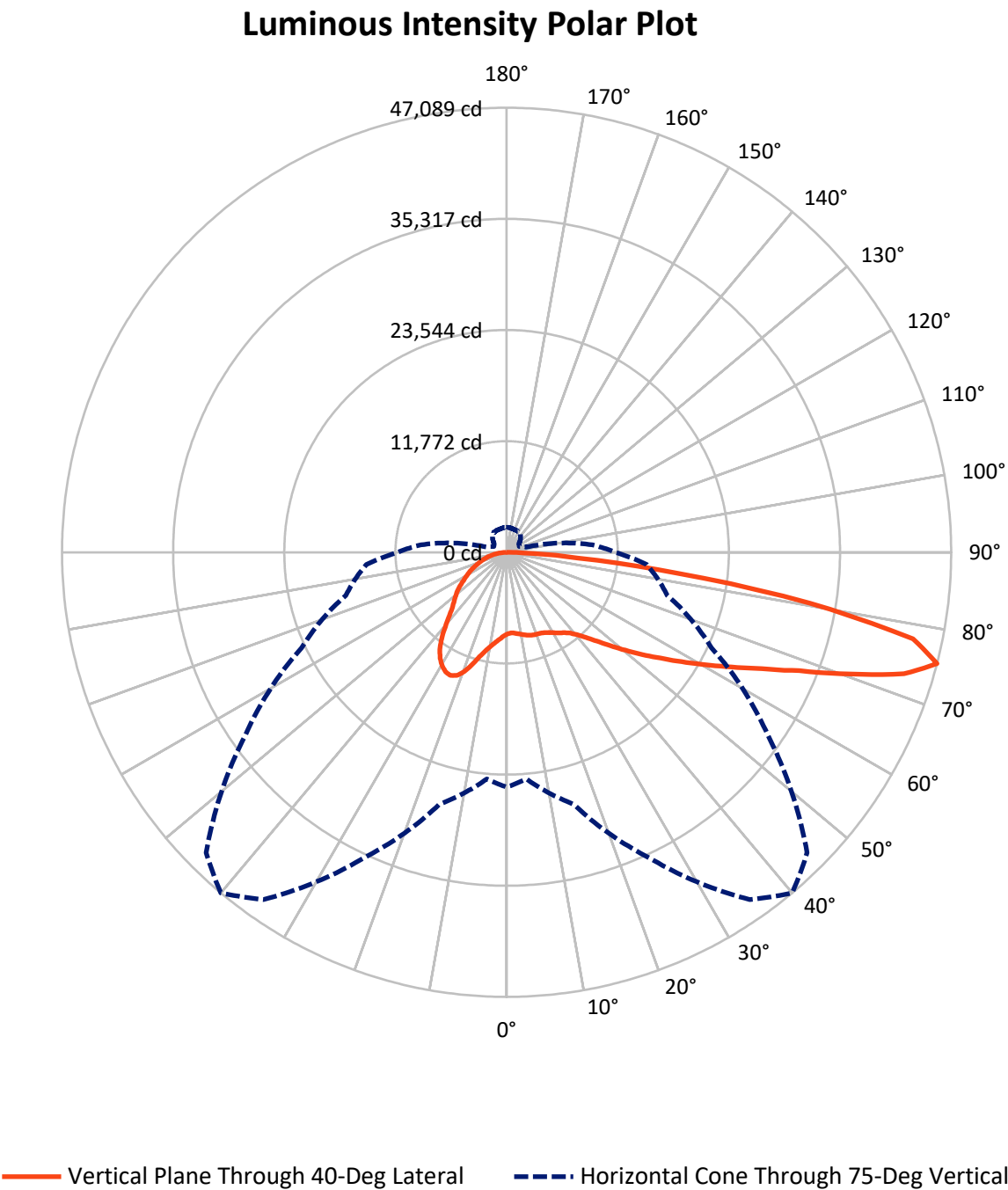
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc
Type IV - Medium - N/A

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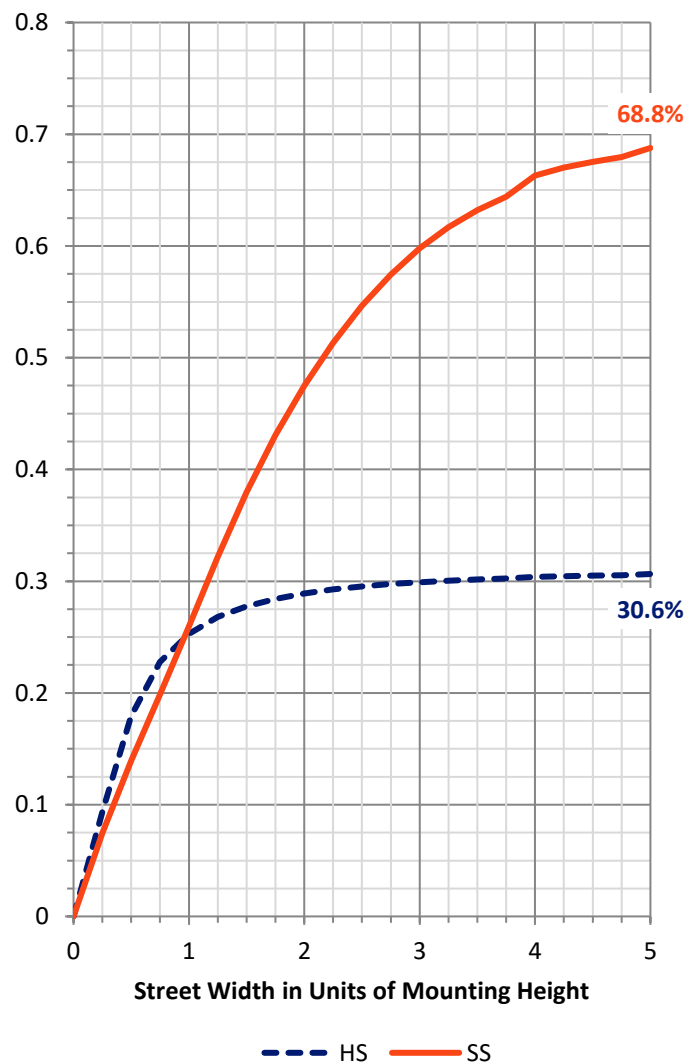
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23440.8	0.0	23440.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	52215.2	0.0	52215.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	75656.0	0.0	75656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	863.6	1.1
10°-20°	2899.4	3.8
20°-30°	5294.1	7.0
30°-40°	7508.5	9.9
40°-50°	10138.7	13.4
50°-60°	13639.2	18.0
60°-70°	17311.3	22.9
70°-80°	15711.1	20.8
80°-90°	2290.2	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°	75656.0	100.0
0°-180°	75656.0	100.0

Coefficient of Utilization



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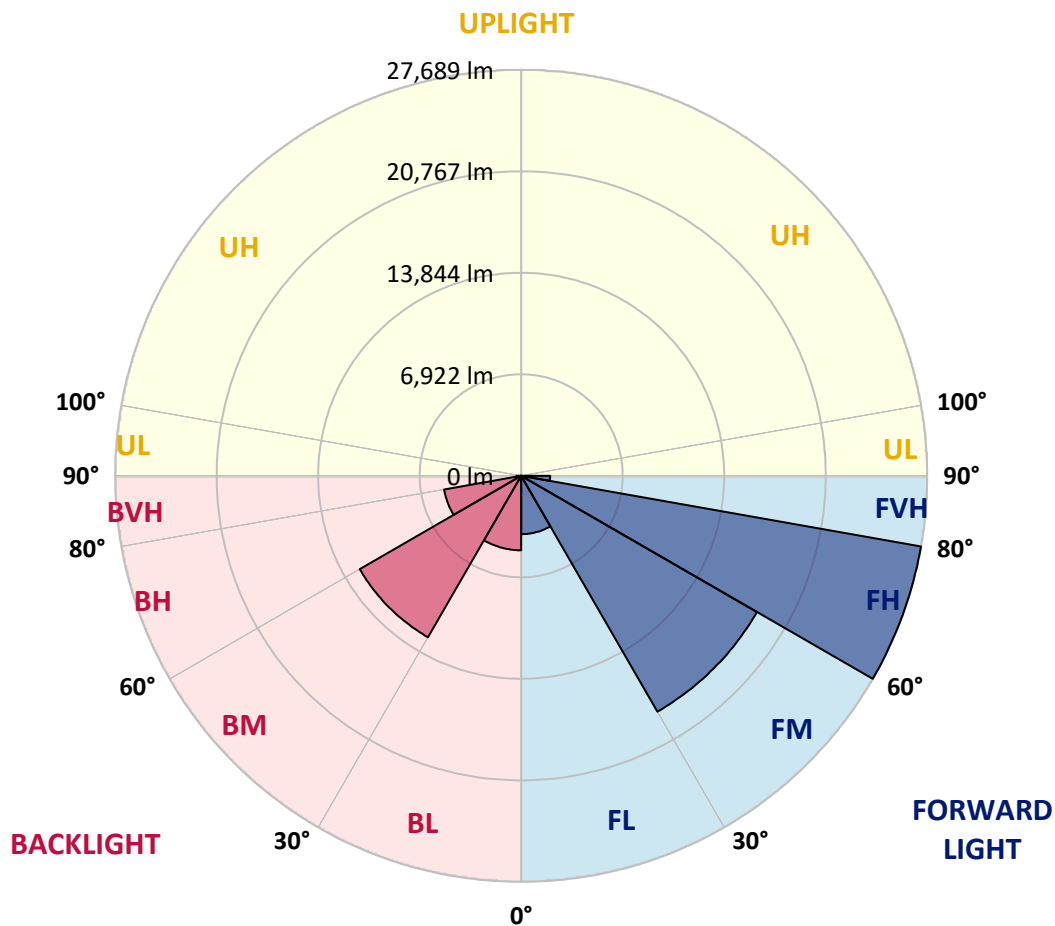
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3979.6	5.3			
FM	(30°-60°)	18571.9	24.5			
FH	(60°-80°)	27688.9	36.6			G5
FVH	(80°-90°)	1974.9	2.6			G5
BL	(0°-30°)	5077.5	6.7	B5		
BM	(30°-60°)	12714.5	16.8	B5		
BH	(60°-80°)	5333.5	7.0	B5		G5
BVH	(80°-90°)	315.3	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	8651.4	8651.4	8651.4	8651.4	8651.4	8651.4	8651.4	8651.4	8651.4	8651.4	8651.4
2.5°	8518.9	8567.1	8555.1	8539.0	8539.0	8543.0	8539.0	8567.1	8595.2	8623.3	8667.4
5°	8607.2	8655.4	8631.3	8611.2	8595.2	8591.2	8579.1	8575.1	8591.2	8627.3	8687.5
7.5°	8779.8	8827.9	8791.8	8755.7	8723.6	8707.5	8691.5	8667.4	8655.4	8675.4	8759.7
10°	8972.4	9020.5	8976.4	8912.2	8860.0	8840.0	8823.9	8799.8	8783.8	8795.8	8888.1
12.5°	9165.0	9213.1	9153.0	9064.7	8996.5	8984.4	8964.4	8956.3	8952.3	8948.3	9040.6
15°	9345.6	9385.7	9309.4	9205.1	9132.9	9112.8	9092.8	9104.8	9124.9	9148.9	9253.3
17.5°	9486.0	9526.1	9413.8	9277.3	9209.1	9201.1	9189.1	9229.2	9285.4	9345.6	9474.0
20°	9614.4	9654.5	9510.1	9325.5	9245.2	9245.2	9249.3	9333.5	9413.8	9502.1	9678.6
22.5°	9795.0	9827.1	9650.5	9397.7	9281.4	9289.4	9321.5	9405.8	9506.1	9626.4	9871.2
25°	10063.8	10087.9	9871.2	9534.2	9401.7	9425.8	9453.9	9494.0	9590.3	9730.8	10059.8
27.5°	10497.2	10517.3	10232.4	9774.9	9574.3	9614.4	9654.5	9626.4	9670.6	9791.0	10212.3
30°	11107.1	11119.2	10758.0	10152.1	9867.2	9887.3	9895.3	9778.9	9694.7	9791.0	10320.6
32.5°	11829.4	11825.4	11396.0	10609.6	10200.3	10180.2	10112.0	9883.3	9686.6	9770.9	10416.9
35°	12949.0	12904.8	12351.1	11251.6	10577.5	10453.1	10292.6	9999.6	9726.8	9750.8	10501.2
37.5°	14802.8	14666.4	13900.0	12302.9	11139.2	10822.2	10585.5	10188.2	9815.0	9742.8	10601.5
40°	16893.4	16720.9	15878.2	13743.5	11981.9	11472.3	11091.1	10457.1	9959.5	9778.9	10750.0
42.5°	19373.3	19128.5	18221.6	15440.8	13049.3	12310.9	11737.1	10798.2	10172.2	9895.3	10950.6
45°	22418.9	22093.9	20809.8	17354.9	14393.5	13410.4	12644.0	11315.8	10497.2	10120.0	11251.6
47.5°	25496.6	25576.9	23751.1	19545.8	16006.6	14766.7	13779.6	12094.3	10970.7	10481.2	11737.1
50°	28767.0	28823.2	26676.4	21973.5	17836.4	16299.6	15055.6	12965.0	11628.8	10994.8	12463.4
52.5°	31319.1	31327.1	29332.8	24513.5	19742.4	17984.9	16432.0	13960.2	12391.2	11676.9	13430.5
55°	32916.1	32896.1	31194.7	26917.1	21933.4	19754.5	17956.8	15091.7	13322.1	12479.5	14646.3
57.5°	34075.8	34015.6	32478.7	28983.7	24268.8	21845.1	19682.3	16375.8	14421.6	13434.5	16247.4
60°	34517.2	34481.1	33349.5	30769.3	26724.5	24156.4	21672.6	17812.3	15669.6	14562.1	18305.9
62.5°	34685.7	34753.9	34204.2	32498.8	29352.8	26716.5	23859.5	19529.8	17074.0	15838.1	20476.8
65°	35279.6	35404.0	35291.6	34762.0	32322.2	29714.0	26760.6	21572.2	18606.9	17206.4	22743.9
67.5°	36455.3	36579.7	36627.9	37470.5	35949.7	33449.8	30380.1	24116.3	20400.5	18626.9	24449.3
70°	36427.2	36391.1	37241.8	39625.3	40492.1	38622.2	35259.5	27246.2	22539.3	19806.6	24666.0
72.5°	33156.9	32868.0	34878.3	39601.3	44272.0	44023.2	41218.4	31282.9	24385.1	19951.1	21403.7
75°	24874.7	24104.2	27655.5	35688.9	44902.0	47088.9	45006.4	33786.9	23947.7	17627.8	14895.1
77.5°	10637.6	9863.2	14048.4	26419.6	40187.1	44019.2	41531.4	29477.2	19116.5	11656.9	7315.1
80°	2784.8	2780.8	4245.4	11977.9	27330.4	32506.8	28518.2	19036.2	10922.5	4165.2	2018.4
82.5°	1151.6	1123.6	1560.9	4658.7	13354.2	18241.7	14887.1	8490.9	3944.5	1127.6	670.1
85°	429.4	425.3	758.4	1609.1	4710.9	7523.8	5445.2	2170.9	983.1	549.7	301.0
87.5°	120.4	116.4	164.5	557.8	1147.6	1741.5	930.9	357.1	276.9	216.7	88.3
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°	8651.4	8651.4	8651.4	8651.4	8651.4	8651.4	8651.4	8651.4	8651.4	8651.4	8651.4
2.5°	8679.5	8699.5	8735.6	8763.7	8799.8	8840.0	8896.1	8932.3	8968.4	8992.4	8976.4
5°	8715.6	8759.7	8852.0	8944.3	9052.6	9153.0	9269.3	9353.6	9421.8	9441.9	9449.9
7.5°	8795.8	8868.0	9024.5	9181.0	9353.6	9518.1	9686.6	9831.1	9947.5	9991.6	9995.6
10°	8936.3	9032.6	9253.3	9474.0	9702.7	9955.5	10172.2	10380.8	10545.4	10613.6	10617.6
12.5°	9112.8	9233.2	9522.1	9827.1	10144.1	10493.2	10774.1	11030.9	11235.5	11327.8	11327.8
15°	9341.5	9498.0	9867.2	10276.5	10742.0	11227.5	11584.6	11869.5	12098.3	12210.6	12202.6
17.5°	9590.3	9799.0	10264.5	10882.4	11548.5	12186.5	12603.9	12812.5	13049.3	13157.6	13153.6
20°	9831.1	10087.9	10754.0	11652.9	12539.7	13217.8	13554.9	13611.1	13627.1	13639.1	13671.2
22.5°	10079.9	10425.0	11368.0	12623.9	13574.9	14044.4	14092.6	13851.8	13514.7	13358.3	13402.4
25°	10352.7	10810.2	12170.5	13695.3	14465.8	14521.9	14152.8	13566.9	12928.9	12636.0	12680.1
27.5°	10617.6	11255.6	13133.5	14718.6	15107.8	14614.2	13819.7	12989.1	12218.6	11909.7	11945.8
30°	10882.4	11765.2	14196.9	15613.4	15400.7	14385.5	13294.0	12367.1	11592.7	11267.6	11303.8
32.5°	11151.3	12359.1	15420.8	16259.4	15348.5	13900.0	12640.0	11668.9	10986.8	10645.7	10689.8
35°	11456.2	13089.4	16580.4	16612.5	14999.4	13185.7	11777.3	10834.3	10240.4	9967.5	10027.7
37.5°	11853.5	14016.3	17603.7	16700.8	14389.5	12138.4	10705.9	9847.1	9357.6	9233.2	9321.5
40°	12347.1	15131.9	18386.2	16560.4	13486.7	10866.4	9534.2	8848.0	8571.1	8599.2	8695.5
42.5°	12989.1	16379.8	18935.9	16199.2	12230.7	9554.2	8506.9	8201.9	8334.4	8446.7	8551.0
45°	13823.7	17675.9	19277.0	15585.3	10810.2	8442.7	7901.0	7973.2	8073.5	8085.6	8165.8
47.5°	14891.1	18988.1	19501.7	14658.4	9361.6	7660.2	7515.8	7531.8	7511.8	7427.5	7491.7
50°	16223.3	20264.1	19702.3	13430.5	8129.7	7170.7	6978.1	6921.9	6645.0	6372.2	6408.3
52.5°	17740.1	21435.8	19786.6	11905.7	7170.7	6761.4	6448.4	6095.3	5577.6	5493.4	5521.5
55°	19425.4	22519.2	19569.9	10031.7	6364.1	6235.7	5762.2	5336.9	5280.7	5208.5	5220.5
57.5°	21439.8	23686.9	19128.5	7941.1	5537.5	5621.8	5160.3	5208.5	5108.2	4995.8	4975.7
60°	23642.8	24894.7	18354.1	6035.1	4682.8	4855.4	5003.8	4999.8	4971.7	4879.4	4847.3
62.5°	25625.1	25689.3	16829.2	4622.6	3932.4	4261.5	4666.8	4662.7	4638.7	4586.5	4566.4
65°	26804.8	25568.9	14285.2	3639.5	3314.5	3771.9	4209.3	4241.4	4245.4	4241.4	4241.4
67.5°	26596.1	24160.4	10794.1	2897.2	2804.9	3274.4	3755.9	3800.0	3832.1	3840.1	3848.2
70°	24236.7	21066.6	7038.3	2311.3	2351.4	2837.0	3326.5	3370.7	3398.8	3430.9	3446.9
72.5°	18891.8	15489.0	4028.7	1869.9	1954.2	2459.8	2901.2	2953.3	2969.4	3029.6	3053.7
75°	11512.4	9108.8	2174.9	1472.7	1605.1	2102.7	2479.8	2540.0	2568.1	2640.4	2648.4
77.5°	5473.3	3944.5	1239.9	1147.6	1292.1	1717.4	2094.6	2162.8	2086.6	2126.7	2094.6
80°	1849.9	1464.6	782.5	874.8	987.1	1340.2	1677.3	1745.5	1585.0	1577.0	1560.9
82.5°	646.0	593.9	497.6	581.8	638.0	959.0	1268.0	1356.3	1179.7	1175.7	1119.5
85°	252.8	240.8	276.9	317.0	381.2	589.9	834.6	878.8	726.3	585.9	577.8
87.5°	52.2	56.2	68.2	72.2	116.4	204.6	301.0	369.2	292.9	248.8	228.7
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)