

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: P459448

Luminaire Tested: **GALN-SA9A-735-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38550 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

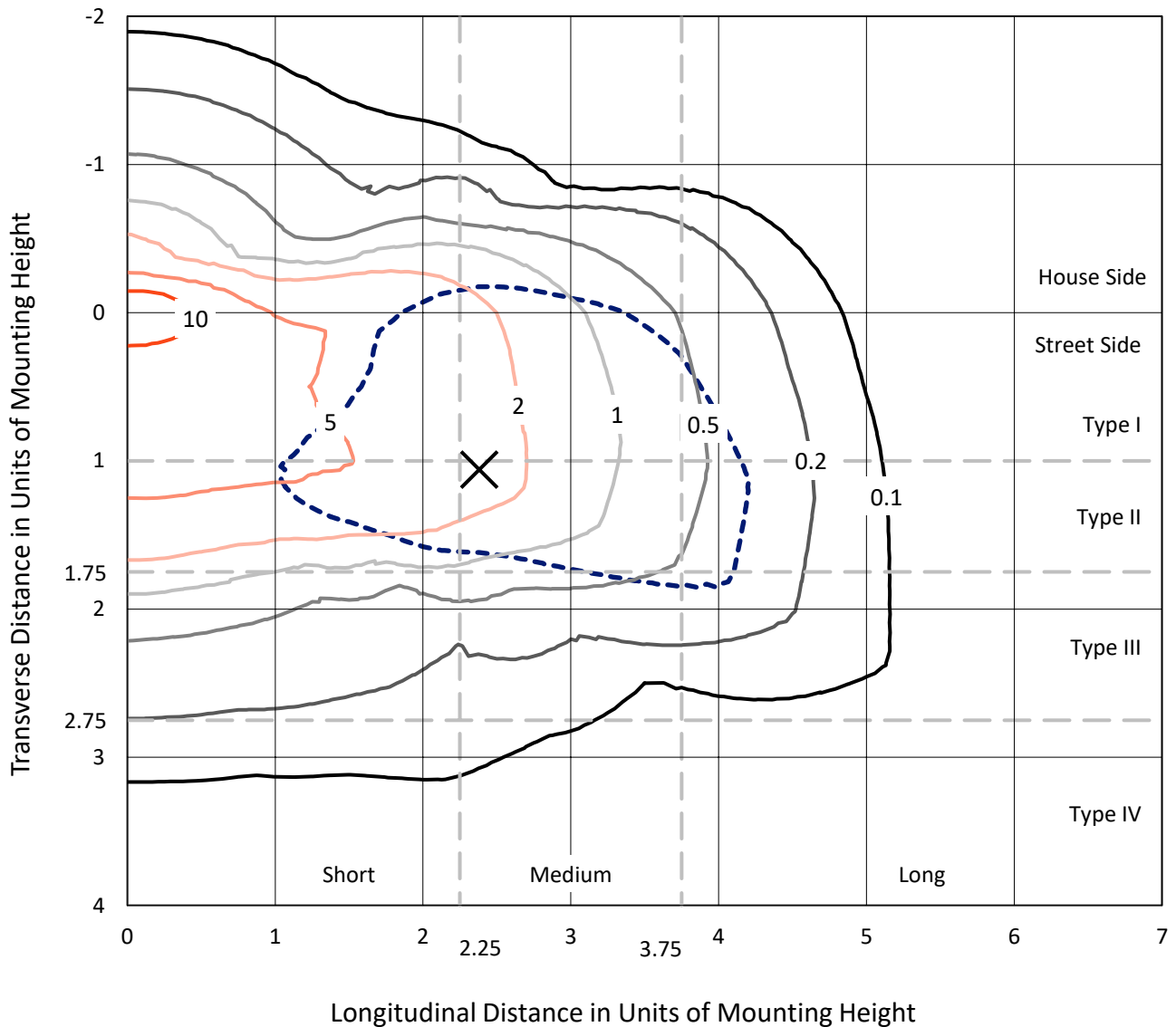
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

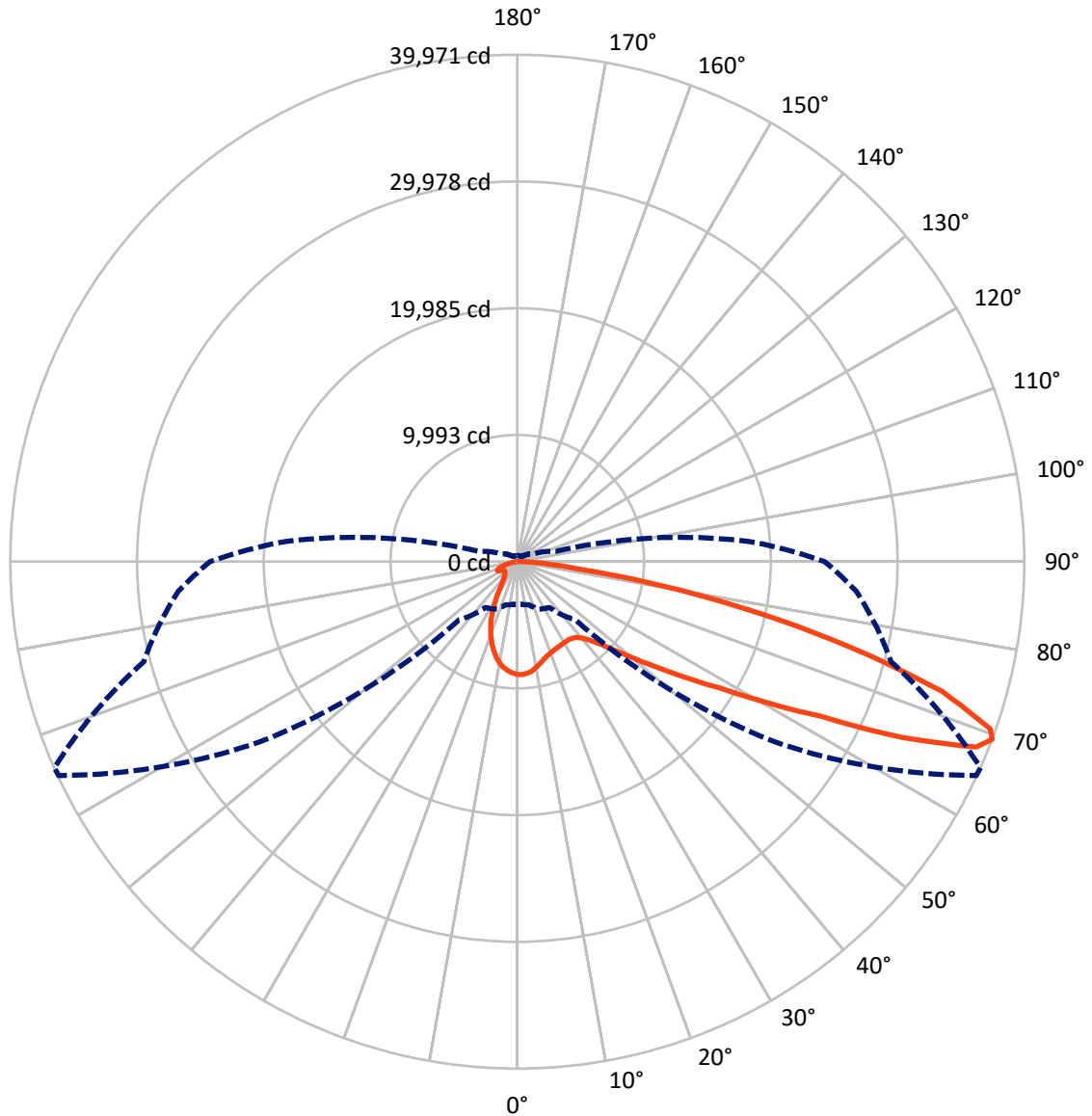
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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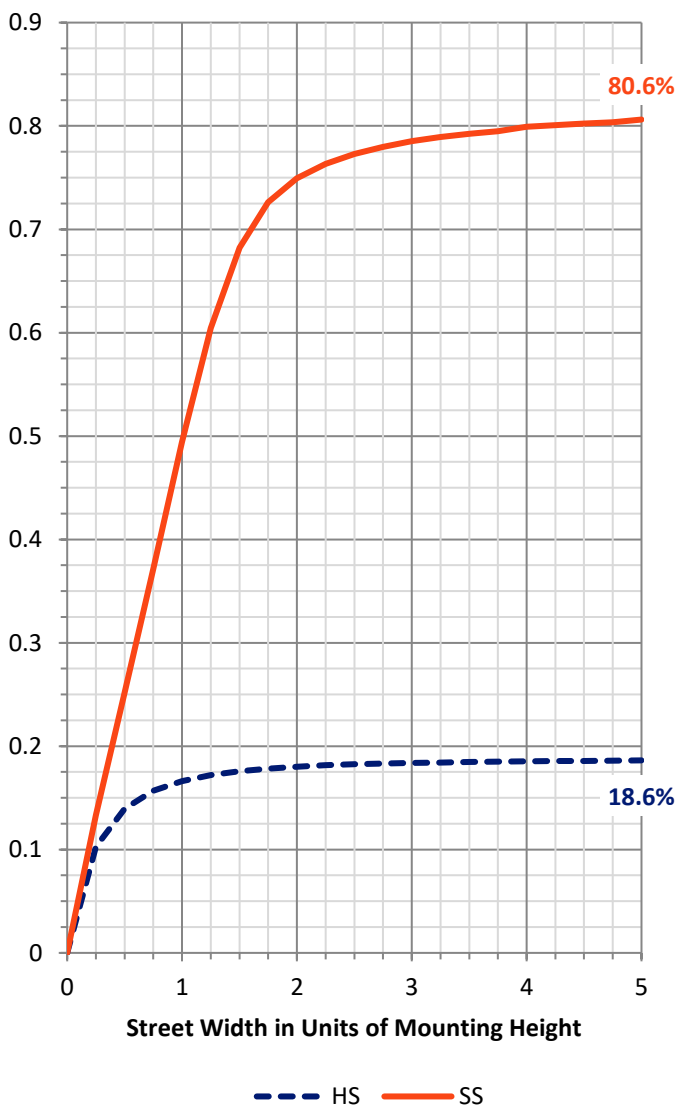
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7249.8	0.0	7249.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	31300.2	0.0	31300.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	38550.0	0.0	38550.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	773.1	2.0
10°-20°	1833.6	4.8
20°-30°	2496.3	6.5
30°-40°	3354.4	8.7
40°-50°	5008.7	13.0
50°-60°	7967.2	20.7
60°-70°	9799.3	25.4
70°-80°	6375.8	16.5
80°-90°	941.5	2.4
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°	38550.0	100.0
0°-180°	38550.0	100.0



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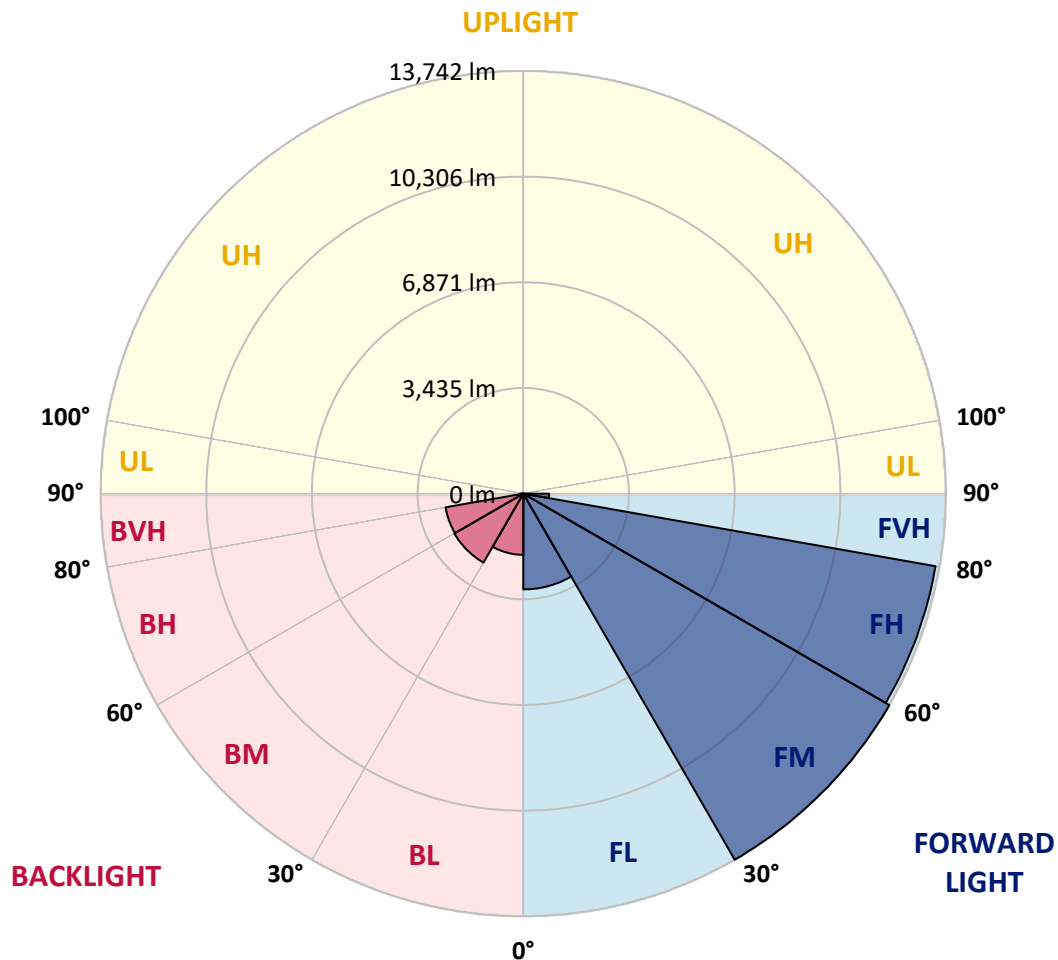
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3112.9	8.1			
FM (30°-60°)	13741.9	35.6			
FH (60°-80°)	13608.3	35.3			G5
FVH (80°-90°)	837.1	2.2			G5
BL (0°-30°)	1990.1	5.2	B3/2500		
BM (30°-60°)	2588.5	6.7	B3/5000		
BH (60°-80°)	2566.7	6.7	B4/5000		G4/5000
BVH (80°-90°)	104.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8902.3	8902.3	8902.3	8902.3	8902.3	8902.3	8902.3	8902.3	8902.3	8902.3	8902.3
2.5°	8590.6	8624.7	8663.2	8705.9	8787.0	8831.8	8863.8	8900.1	8904.4	8923.6	8908.7
5°	7956.5	7997.1	8054.7	8135.9	8257.5	8447.5	8644.0	8804.1	8823.3	8912.9	8938.6
7.5°	7427.1	7450.6	7497.5	7627.8	7800.7	8012.0	8298.1	8622.6	8669.6	8883.1	8957.8
10°	6995.9	7019.3	7074.8	7209.3	7380.1	7644.8	7958.7	8385.6	8424.1	8791.3	8962.0
12.5°	6673.5	6694.8	6754.6	6887.0	7083.4	7331.0	7676.9	8129.5	8185.0	8669.6	8921.5
15°	6428.0	6468.6	6517.7	6626.5	6833.6	7072.7	7407.9	7894.6	7939.5	8541.5	8893.7
17.5°	6323.4	6342.6	6376.8	6477.1	6628.7	6863.5	7200.8	7711.0	7764.4	8451.8	8887.3
20°	6327.7	6346.9	6353.3	6408.8	6517.7	6720.5	7053.5	7565.9	7629.9	8372.8	8898.0
22.5°	6472.8	6475.0	6451.5	6432.3	6475.0	6643.6	6948.9	7457.0	7531.7	8338.7	8906.5
25°	6697.0	6735.4	6701.3	6611.6	6532.6	6613.7	6908.3	7397.2	7467.7	8289.6	8895.9
27.5°	7059.9	7066.3	7038.6	6916.9	6711.9	6652.1	6891.3	7352.4	7412.2	8253.3	8842.5
30°	7546.6	7527.4	7501.8	7367.3	7045.0	6799.5	6927.5	7311.8	7373.7	8199.9	8778.4
32.5°	8039.8	8099.6	8076.1	7918.1	7499.7	7085.5	7045.0	7307.5	7358.8	8159.3	8708.0
35°	8562.8	8590.6	8701.6	8620.5	8191.4	7548.8	7264.8	7373.7	7414.3	8161.5	8658.9
37.5°	8972.7	9047.4	9307.9	9378.3	8974.9	8161.5	7621.4	7561.6	7578.7	8266.1	8678.1
40°	9468.0	9596.1	9931.3	10219.5	9954.7	8957.8	8227.7	7909.6	7930.9	8518.0	8804.1
42.5°	10095.6	10185.3	10635.8	11026.4	10983.7	10010.2	8962.0	8479.6	8490.2	9019.7	9156.3
45°	10830.0	10958.1	11464.1	12051.1	12151.5	11201.5	10023.1	9342.0	9335.6	9798.9	9813.8
47.5°	11769.4	11848.3	12350.0	12990.5	13396.1	12698.0	11310.4	10580.2	10511.9	10934.6	10812.9
50°	12634.0	12757.8	13137.8	13838.0	14847.8	14450.7	13003.3	12185.6	12025.5	12420.5	12215.5
52.5°	12996.9	13127.1	13447.3	14316.2	16092.4	16717.9	15153.1	14100.6	13833.7	14136.9	14062.2
55°	12367.1	12535.8	12834.6	13891.4	16638.9	19333.1	18052.2	16314.4	16120.1	15989.9	16011.3
57.5°	10674.2	10834.3	11237.8	12403.4	15985.7	21230.9	22191.6	19160.2	18743.9	18144.0	18246.4
60°	8125.2	8225.5	8434.7	9726.3	14049.4	21724.1	26892.5	22757.4	22492.6	20289.5	20362.1
62.5°	5770.5	5883.6	6028.8	6673.5	10285.6	20334.3	30573.0	27780.6	26834.9	22511.8	22441.4
65°	4686.0	4609.1	4784.2	5085.2	6035.2	15759.4	31401.3	34753.0	33450.7	25438.7	24461.0
67.5°	3853.4	3772.3	3945.2	4481.0	4589.9	9147.8	28416.8	39278.8	39018.4	28621.7	26512.5
69°	3411.5	3368.8	3520.3	4130.9	4406.3	6496.3	24755.6	39908.6	39970.5	30498.3	26828.5
70°	3074.2	3091.2	3238.5	3953.7	4323.0	5356.3	21158.4	39039.7	39564.9	31435.5	26486.9
72.5°	2262.9	2299.2	2504.2	3274.8	4244.1	4545.1	12591.3	34099.7	35028.4	31491.0	24230.4
75°	1581.9	1564.8	1746.3	2465.7	4009.2	4504.5	7395.1	26371.6	27424.1	27219.2	20359.9
77.5°	1035.4	1063.1	1208.3	1742.0	3373.0	4470.3	4820.5	18709.7	19392.9	18203.7	12042.6
80°	730.1	728.0	809.1	1189.1	2502.0	4295.3	3947.3	11792.8	11619.9	7153.8	3571.6
82.5°	418.4	448.3	542.2	836.9	1673.7	3780.8	3631.4	5640.2	5149.2	2038.8	1206.2
85°	232.7	243.4	322.4	506.0	977.8	2847.9	3170.2	2566.1	2420.9	851.8	518.8
87.5°	74.7	81.1	134.5	256.2	444.0	1344.9	1795.4	1184.8	1093.0	307.4	209.2
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°	8902.3	8902.3	8902.3	8902.3	8902.3	8902.3	8902.3	8902.3	8902.3	8902.3	8902.3
2.5°	8915.1	8940.7	8872.4	8806.2	8746.4	8663.2	8588.4	8526.5	8483.8	8477.4	8456.1
5°	8945.0	8947.1	8816.9	8641.8	8471.0	8283.2	8088.9	7950.1	7819.9	7747.3	7711.0
7.5°	8966.3	8947.1	8712.3	8428.3	8099.6	7758.0	7416.4	7143.2	6931.8	6848.6	6880.6
10°	8957.8	8898.0	8554.3	8099.6	7621.4	7111.1	6620.1	6235.9	5883.6	5702.1	5706.4
12.5°	8910.8	8812.6	8319.5	7730.2	7027.9	6344.7	5593.3	5074.5	4666.8	4425.5	4350.8
15°	8870.2	8699.5	8044.1	7228.6	6355.4	5379.8	4463.9	3823.5	3481.9	3291.9	3289.8
17.5°	8827.5	8590.6	7743.1	6697.0	5582.6	4327.3	3366.6	2877.8	2717.6	2736.9	2704.8
20°	8782.7	8462.5	7429.2	6105.6	4641.1	3227.9	2521.2	2322.7	2367.5	2455.1	2467.9
22.5°	8731.5	8325.9	7091.9	5454.5	3650.6	2429.4	2045.2	2015.3	2130.6	2267.2	2286.4
25°	8652.5	8155.1	6667.1	4773.5	2815.8	1957.6	1791.1	1812.5	1925.6	2040.9	2053.7
27.5°	8541.5	7943.7	6238.0	3923.8	2115.6	1680.1	1637.4	1665.2	1720.7	1791.1	1808.2
30°	8392.0	7704.6	5744.8	3189.4	1695.1	1541.4	1524.3	1539.2	1571.2	1601.1	1609.7
32.5°	8242.6	7474.1	5247.4	2442.3	1511.5	1449.6	1432.5	1432.5	1432.5	1436.7	1438.9
35°	8103.8	7256.3	4713.7	1902.1	1415.4	1377.0	1353.5	1327.9	1323.6	1308.7	1308.7
37.5°	8027.0	7057.8	4145.9	1592.6	1344.9	1317.2	1285.2	1242.5	1219.0	1221.1	1216.9
40°	8041.9	6927.5	3629.2	1417.5	1287.3	1257.4	1208.3	1159.2	1144.3	1144.3	1140.0
42.5°	8210.6	6884.8	3133.9	1325.7	1231.8	1197.6	1135.7	1090.9	1082.4	1080.2	1084.5
45°	8599.1	6989.5	2689.9	1266.0	1184.8	1133.6	1071.7	1031.1	1022.6	1022.6	1020.5
47.5°	9357.0	7328.9	2371.8	1227.5	1150.7	1084.5	1020.5	979.9	964.9	960.7	960.7
50°	10535.4	8065.4	2134.8	1193.4	1108.0	1039.7	973.5	926.5	903.0	900.9	898.8
52.5°	12172.8	9214.0	2043.0	1167.8	1061.0	992.7	920.1	875.3	845.4	839.0	834.7
55°	14087.8	10817.2	2169.0	1148.5	1011.9	939.3	864.6	817.6	789.9	777.1	774.9
57.5°	16305.9	12742.8	2647.2	1122.9	967.1	881.7	809.1	762.1	732.2	717.3	713.0
60°	18297.7	14721.8	3481.9	1108.0	928.7	819.8	745.1	702.4	674.6	659.7	657.5
62.5°	20485.9	16609.0	4478.9	1148.5	911.6	760.0	685.3	646.9	623.4	608.4	608.4
65°	22823.5	18498.4	5138.6	1285.2	937.2	713.0	621.2	589.2	567.9	557.2	555.1
67.5°	24399.0	19151.6	4233.4	1426.1	1001.2	661.8	559.3	533.7	520.9	510.2	510.2
69°	24228.3	18325.4	3123.3	1462.4	1020.5	636.2	525.2	506.0	488.9	484.6	480.3
70°	23688.1	17384.0	2617.3	1438.9	1005.5	612.7	503.8	480.3	465.4	461.1	459.0
72.5°	21098.6	15076.2	1949.1	1251.0	856.1	531.6	446.2	424.8	412.0	405.6	405.6
75°	17529.1	12322.3	1522.1	994.8	670.3	448.3	382.1	365.1	354.4	350.1	348.0
77.5°	9824.5	6880.6	1093.0	779.2	508.1	362.9	320.2	305.3	294.6	290.3	290.3
80°	2736.9	1966.2	642.6	514.5	345.8	275.4	254.0	243.4	228.4	217.8	224.2
82.5°	1031.1	851.8	367.2	309.6	219.9	183.6	177.2	168.7	162.2	147.3	147.3
85°	501.7	414.2	234.8	164.4	121.7	96.1	91.8	87.5	83.3	72.6	74.7
87.5°	172.9	183.6	102.5	59.8	36.3	23.5	19.2	10.7	10.7	10.7	10.7
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)