

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: P455332

Luminaire Tested: **GALN-SA6C-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37632 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

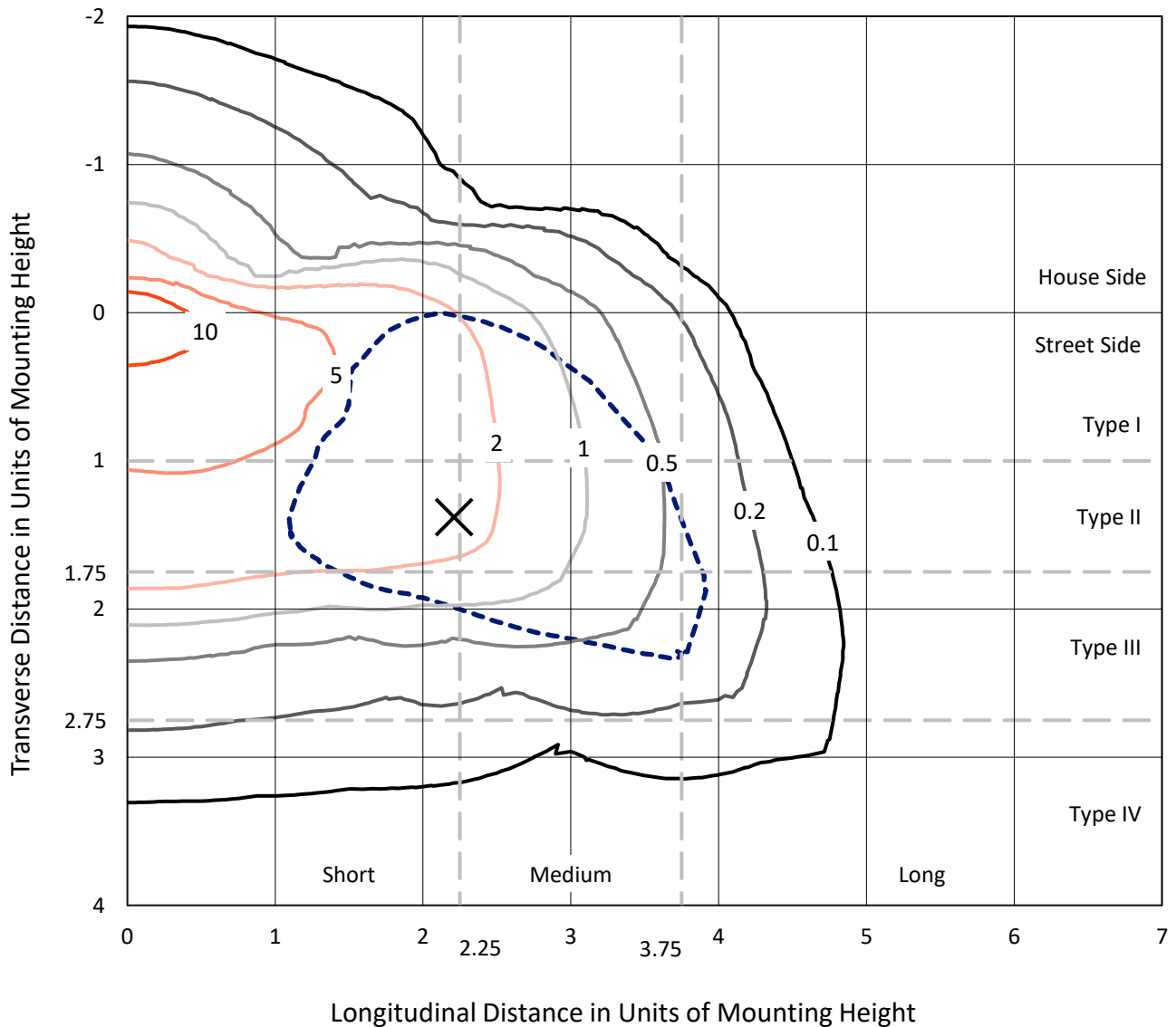
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

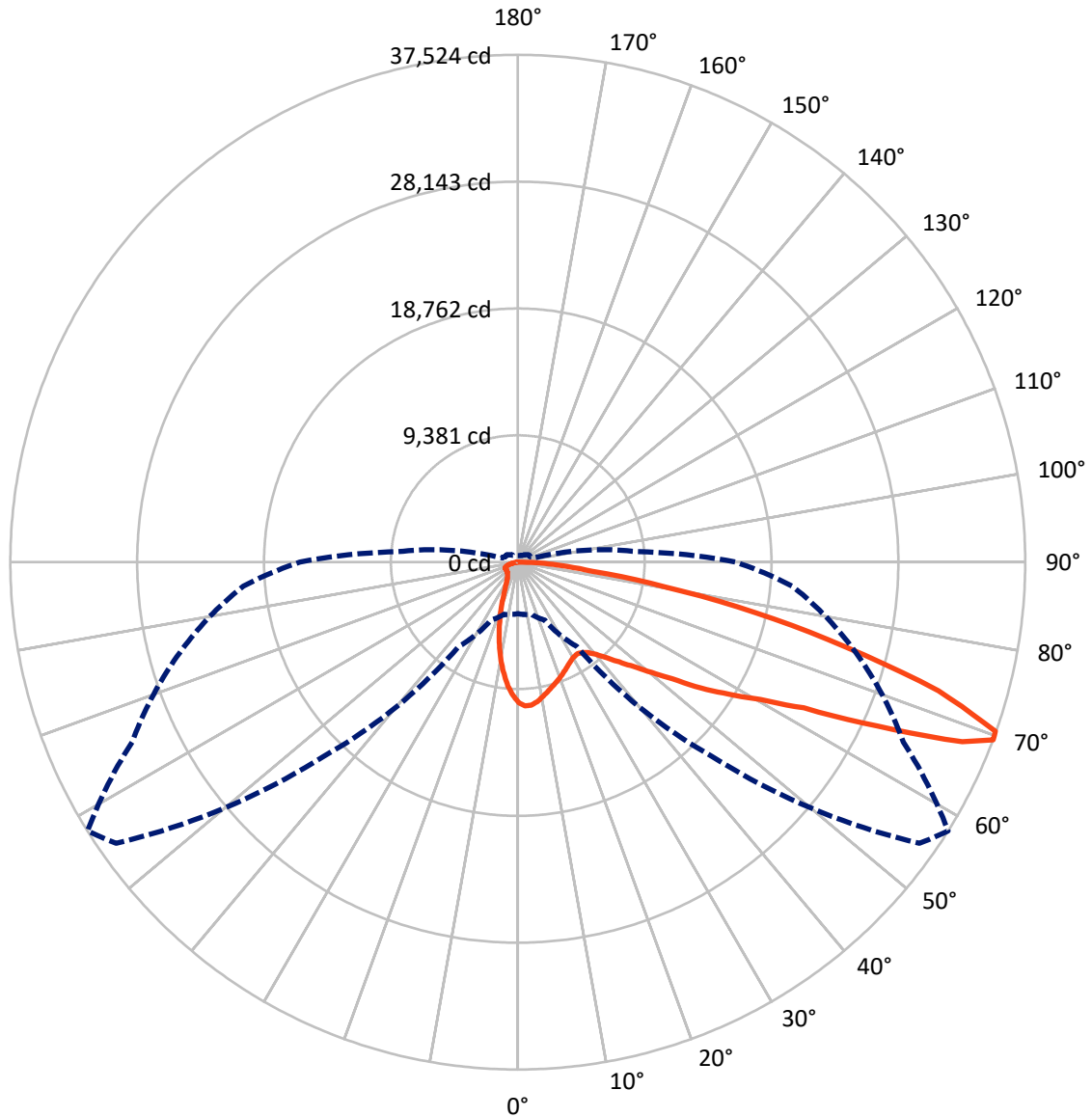
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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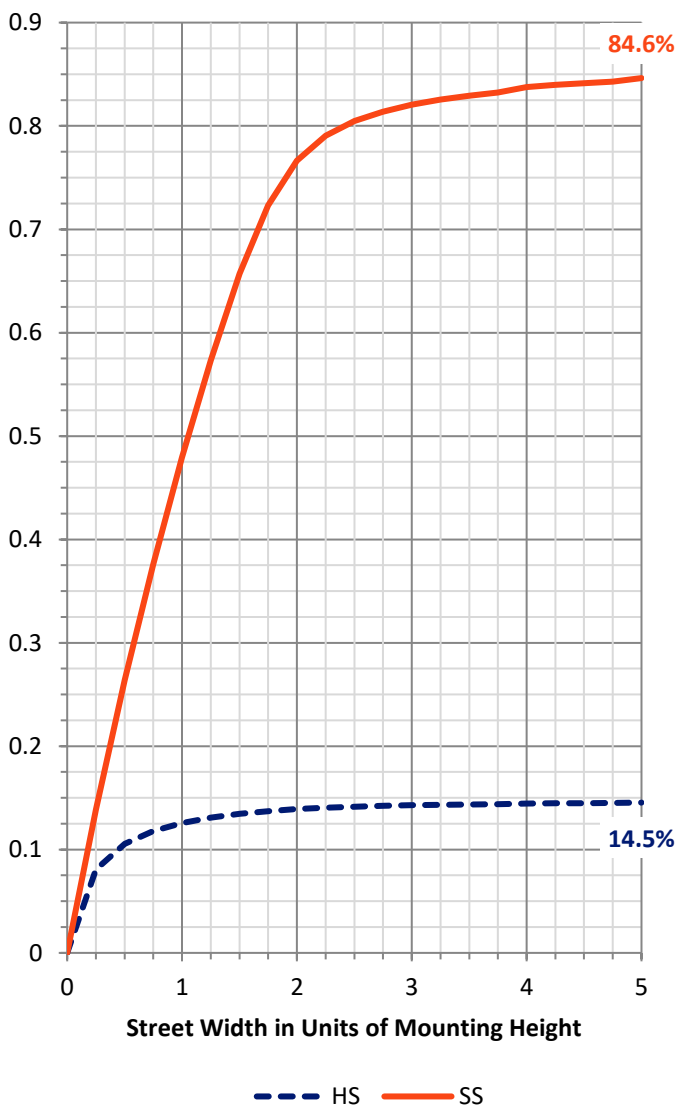
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5515.0	0.0	5515.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	32117.0	0.0	32117.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	37632.0	0.0	37632.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	883.1	2.3
10°-20°	1939.3	5.2
20°-30°	2505.5	6.7
30°-40°	3254.2	8.6
40°-50°	4731.1	12.6
50°-60°	7549.4	20.1
60°-70°	10085.0	26.8
70°-80°	5813.6	15.4
80°-90°	870.8	2.3
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°	37632.0	100.0
0°-180°	37632.0	100.0



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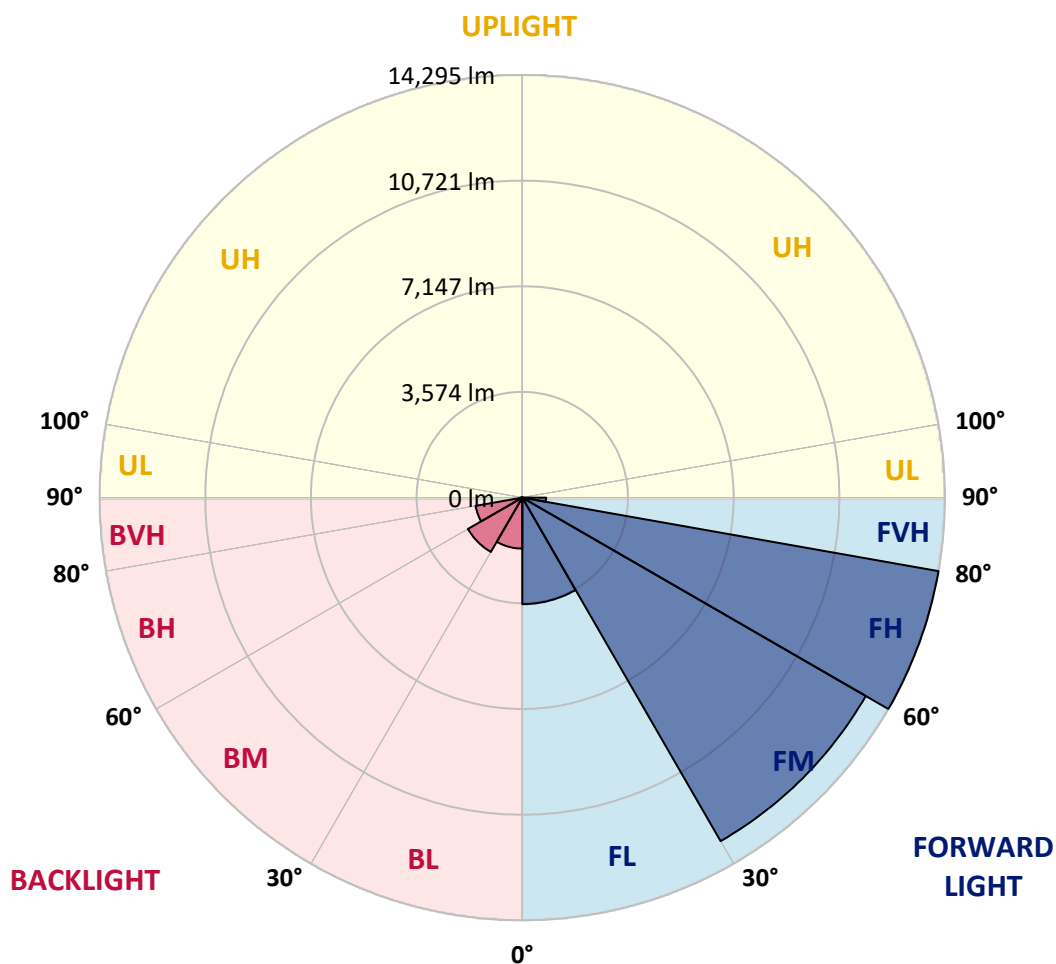
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3604.2	9.6			
FM	(30°-60°)	13413.8	35.6			
FH	(60°-80°)	14294.9	38.0			G5
FVH	(80°-90°)	804.0	2.1			G5
BL	(0°-30°)	1723.8	4.6	B3/2500		
BM	(30°-60°)	2120.9	5.6	B2/2500		
BH	(60°-80°)	1603.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	66.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10399.3	10399.3	10399.3	10399.3	10399.3	10399.3	10399.3	10399.3	10399.3	10399.3	10399.3
2.5°	10785.5	10814.8	10806.4	10795.9	10779.2	10733.0	10657.4	10644.8	10596.6	10493.7	10365.7
5°	10619.6	10644.8	10646.9	10661.6	10682.6	10674.2	10619.6	10613.4	10542.0	10403.5	10189.4
7.5°	10050.9	10084.5	10157.9	10239.8	10313.2	10382.5	10399.3	10409.8	10365.7	10206.2	9920.8
10°	9410.8	9444.4	9477.9	9599.7	9780.2	9952.2	10095.0	10113.9	10124.3	9977.4	9629.0
12.5°	8701.4	8770.7	8842.0	9022.5	9263.9	9534.6	9786.4	9826.3	9897.7	9786.4	9377.2
15°	8099.1	8170.4	8273.3	8434.9	8726.6	9116.9	9471.6	9536.7	9677.3	9620.6	9142.1
17.5°	7681.4	7706.6	7777.9	7962.6	8277.5	8688.8	9163.1	9293.2	9517.8	9503.1	8940.7
20°	7351.9	7383.4	7427.5	7540.8	7868.2	8302.6	8875.6	9043.5	9347.8	9398.2	8741.3
22.5°	7213.4	7236.5	7230.2	7291.0	7513.5	7950.0	8583.9	8783.2	9196.7	9326.8	8556.6
25°	7221.8	7242.8	7211.3	7196.6	7328.8	7639.4	8279.5	8533.5	9075.0	9278.6	8388.7
27.5°	7362.4	7377.1	7318.3	7259.6	7270.1	7446.3	8027.7	8308.9	8972.1	9299.5	8248.1
30°	7551.3	7578.6	7540.8	7469.4	7391.8	7400.2	7866.1	8143.1	8923.9	9373.0	8180.9
32.5°	7794.7	7819.9	7803.1	7746.5	7645.7	7534.5	7826.2	8082.3	8928.1	9522.0	8166.2
35°	8050.8	8101.2	8128.4	8124.2	8042.4	7849.3	7983.6	8195.6	9028.8	9771.8	8252.3
37.5°	8340.4	8382.4	8499.9	8575.5	8499.9	8275.4	8338.3	8485.2	9251.3	10132.7	8441.2
40°	8621.6	8684.6	8856.7	9091.8	9062.4	8865.1	8879.8	8976.3	9643.7	10670.0	8810.5
42.5°	8915.5	8991.0	9291.1	9639.5	9708.8	9555.6	9595.5	9681.5	10202.0	11415.1	9444.4
45°	9293.2	9383.5	9752.9	10187.3	10460.1	10365.7	10479.0	10521.0	10949.2	12384.7	10279.7
47.5°	9780.2	9885.1	10340.5	10882.0	11268.2	11354.2	11551.5	11526.3	11874.7	13532.7	11362.6
50°	10600.8	10659.5	11089.8	11641.7	12172.7	12561.0	12775.1	12814.9	13022.7	14649.2	12573.6
52.5°	11576.7	11629.1	11939.8	12422.5	13087.8	13910.5	14439.4	14309.2	14359.6	16009.2	13990.2
55°	12674.3	12762.5	12959.8	13280.9	14143.4	15354.4	16416.4	16447.9	15889.6	17310.4	15348.1
57.5°	13524.3	13673.3	14011.2	14468.7	15562.2	16960.0	18387.1	18408.1	17694.5	18699.8	16846.6
60°	13096.2	13272.5	14044.8	15159.2	17423.8	19761.8	20741.9	20622.3	19451.2	20282.3	18674.6
62.5°	11249.3	11280.8	12403.6	14145.5	17996.7	23510.1	24246.8	23741.0	21795.5	22288.7	20532.0
65°	7280.5	7486.2	8376.1	10816.9	16114.2	25590.0	30387.7	29218.7	25082.1	24565.8	22087.2
67.5°	4596.3	4543.8	4913.2	6176.6	11083.5	23757.8	35628.3	35443.6	29380.3	26003.5	21715.7
69°	3811.3	3870.1	3996.0	4734.8	7626.8	20284.4	36247.4	37523.5	31464.4	25890.1	20366.2
70°	3456.6	3483.9	3616.1	4197.5	5884.9	16989.3	35231.6	37466.8	32282.9	25415.8	19388.2
72.5°	2743.1	2741.0	2967.6	3492.3	4399.0	9698.3	28929.1	32528.4	31367.8	23207.9	16019.7
75°	2084.1	2117.6	2367.4	2955.0	4052.7	5299.3	20187.8	25050.6	25052.7	18330.4	9996.3
77.5°	1502.7	1523.7	1815.4	2480.7	3817.6	4296.1	13446.7	17967.4	16890.7	8399.2	3141.8
80°	984.3	996.9	1219.4	1964.4	3441.9	4052.7	7973.1	10997.4	7966.8	2228.9	1038.9
82.5°	539.4	602.3	745.1	1271.8	2761.9	3744.2	4846.0	5565.9	2988.6	992.7	541.5
85°	270.7	287.5	419.7	743.0	1804.9	3097.7	3374.8	3192.2	1542.6	493.2	281.2
87.5°	79.8	100.7	174.2	287.5	732.5	1613.9	1878.4	1685.3	593.9	178.4	58.8
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°	10399.3	10399.3	10399.3	10399.3	10399.3	10399.3	10399.3	10399.3	10399.3	10399.3	10399.3
2.5°	10313.2	10275.5	10107.6	9956.4	9817.9	9671.0	9547.2	9438.1	9448.6	9450.6	9339.4
5°	10078.2	9992.1	9673.1	9375.1	9123.2	8804.2	8531.4	8355.1	8267.0	8149.4	8191.4
7.5°	9759.2	9593.4	9150.5	8655.2	8191.4	7777.9	7328.8	7020.3	6823.0	6632.0	6657.2
10°	9429.7	9163.1	8518.8	7864.0	7263.8	6602.7	6029.7	5538.6	5173.4	5037.0	4946.7
12.5°	9091.8	8741.3	7922.8	7051.8	6222.8	5431.6	4619.3	4092.6	3689.6	3475.5	3502.8
15°	8783.2	8357.2	7301.5	6239.6	5162.9	4220.6	3410.5	2908.9	2627.6	2568.9	2602.4
17.5°	8497.8	7939.6	6720.2	5450.4	4193.3	3164.9	2562.6	2279.2	2165.9	2134.4	2132.3
20°	8204.0	7584.9	6067.5	4606.7	3267.7	2453.4	2102.9	1970.7	1949.7	1962.3	1964.4
22.5°	7906.0	7146.2	5395.9	3769.3	2602.4	2006.4	1838.5	1802.8	1819.6	1849.0	1853.2
25°	7631.0	6760.1	4749.5	3034.8	2077.8	1762.9	1681.1	1681.1	1718.9	1762.9	1765.0
27.5°	7404.4	6386.5	4105.1	2409.4	1739.9	1586.7	1559.4	1574.1	1626.5	1660.1	1662.2
30°	7217.6	6038.1	3496.5	1930.8	1530.0	1446.0	1439.7	1464.9	1502.7	1534.2	1536.3
32.5°	7077.0	5731.7	2927.7	1622.3	1385.2	1339.0	1336.9	1355.8	1376.8	1385.2	1393.6
35°	7022.4	5477.7	2407.3	1427.1	1288.6	1259.2	1259.2	1257.1	1265.5	1269.7	1273.9
37.5°	7066.5	5282.5	2004.3	1301.2	1217.3	1196.3	1183.7	1171.1	1166.9	1166.9	1169.0
40°	7253.3	5179.7	1704.2	1219.4	1166.9	1135.4	1112.3	1097.6	1083.0	1087.1	1091.3
42.5°	7649.9	5198.6	1500.6	1164.8	1122.8	1078.8	1045.2	1028.4	1017.9	1030.5	1028.4
45°	8281.6	5387.5	1370.5	1127.0	1078.8	1022.1	990.6	973.8	973.8	992.7	999.0
47.5°	9165.2	5748.5	1301.2	1097.6	1045.2	978.0	946.5	933.9	938.1	969.6	971.7
50°	10244.0	6376.0	1288.6	1083.0	1028.4	946.5	910.9	898.3	908.8	942.3	946.5
52.5°	11434.0	7184.0	1349.5	1085.1	1013.7	927.6	881.5	862.6	873.1	900.4	908.8
55°	12844.3	8195.6	1506.9	1093.4	992.7	917.2	860.5	818.5	831.1	850.0	852.1
57.5°	14284.1	9471.6	1783.9	1095.5	975.9	898.3	824.8	770.2	770.2	782.8	789.1
60°	16042.8	10861.0	2149.1	1097.6	978.0	871.0	776.5	715.7	707.3	713.6	715.7
62.5°	17789.0	12023.7	2210.0	1091.3	999.0	843.7	724.1	661.1	646.4	644.3	640.1
65°	18559.2	11807.5	1811.2	1062.0	1022.1	826.9	682.1	608.6	583.5	575.1	575.1
67.5°	17304.2	9987.9	1362.1	1022.1	1007.4	810.1	642.2	564.6	535.2	518.4	518.4
69°	16124.7	8884.0	1223.6	994.8	969.6	782.8	617.0	541.5	505.8	486.9	480.6
70°	15213.8	8124.2	1164.8	971.7	933.9	751.4	598.1	524.7	484.8	463.8	459.6
72.5°	12141.2	6373.9	1020.0	883.6	795.4	631.7	531.0	472.2	434.4	411.4	405.1
75°	6997.2	3454.5	845.8	768.1	640.1	491.1	449.1	411.4	382.0	361.0	354.7
77.5°	2153.3	1334.8	612.8	606.5	470.1	379.9	358.9	344.2	323.2	300.1	295.9
80°	906.7	680.0	415.6	409.3	312.7	264.4	258.1	256.0	247.7	228.8	222.5
82.5°	497.4	384.1	289.6	251.8	188.9	153.2	159.5	161.6	155.3	136.4	123.8
85°	243.5	209.9	140.6	113.3	86.0	54.6	52.5	63.0	58.8	42.0	46.2
87.5°	48.3	58.8	37.8	16.8	8.4	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	0.0

(END OF REPORT)