

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: P456954

Luminaire Tested: **GALN-SA8B-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456954
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-SA8B-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA 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: 41770 lumens
Efficiency: N/A
Efficacy: 128.5 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

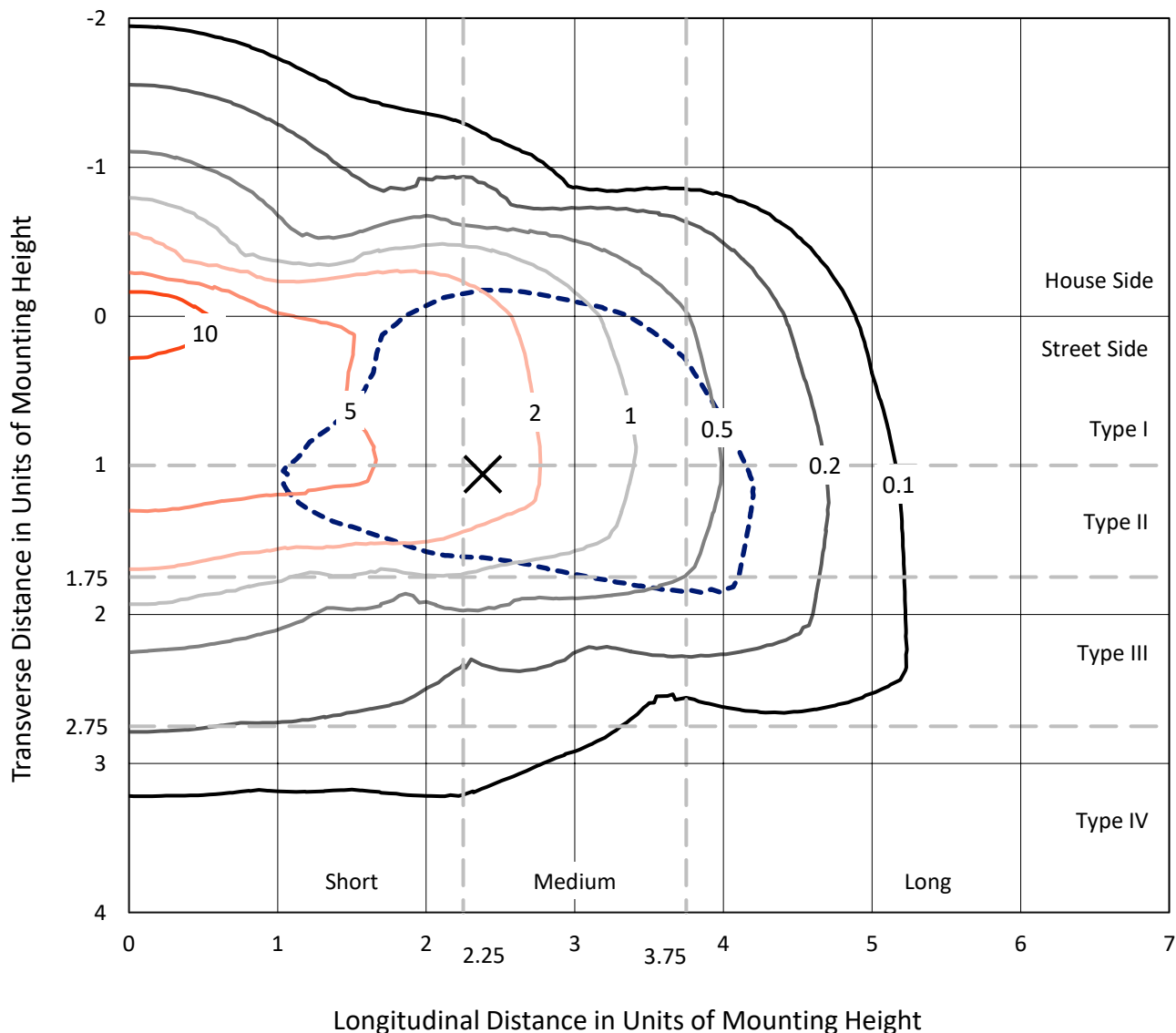
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

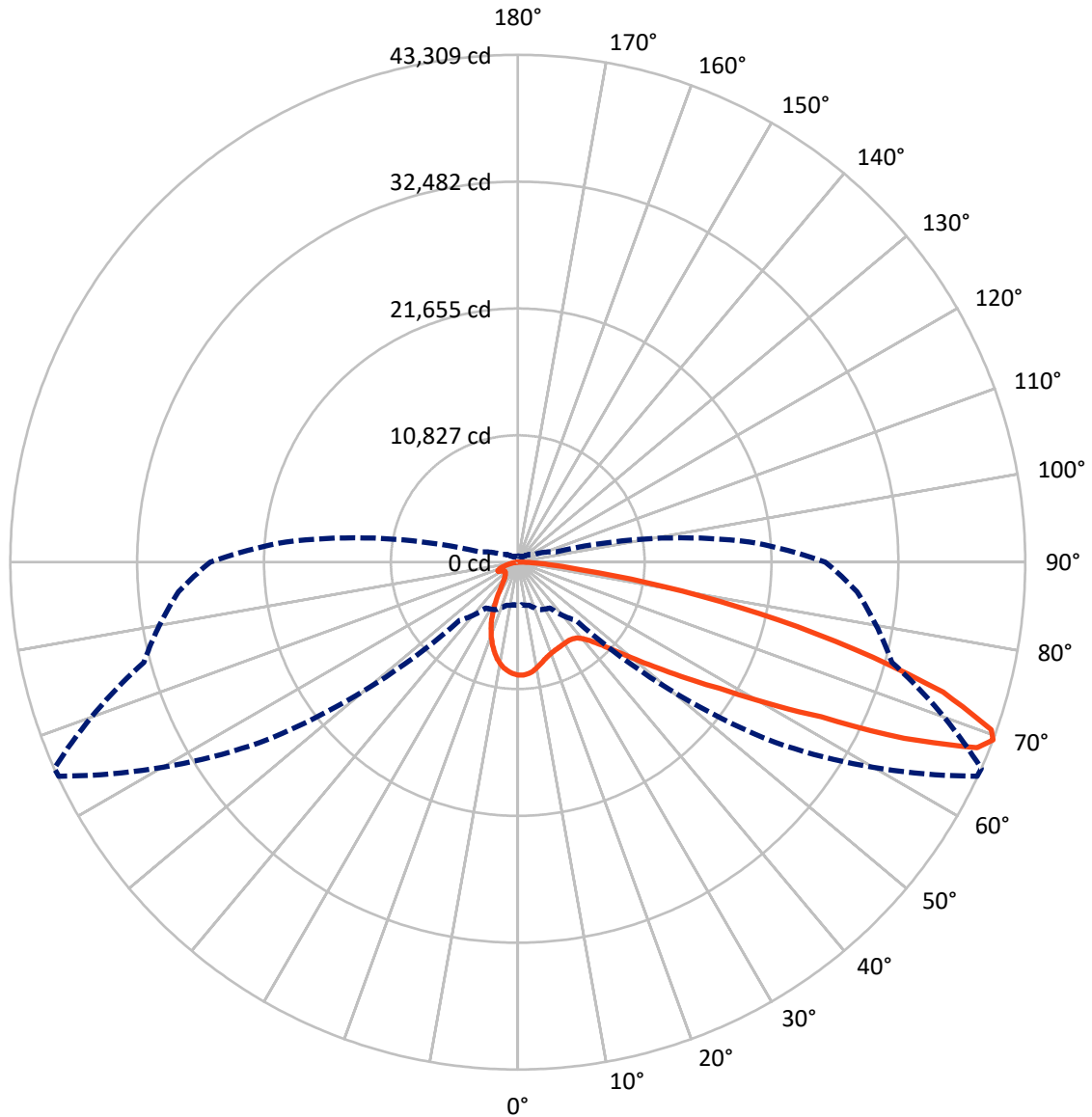
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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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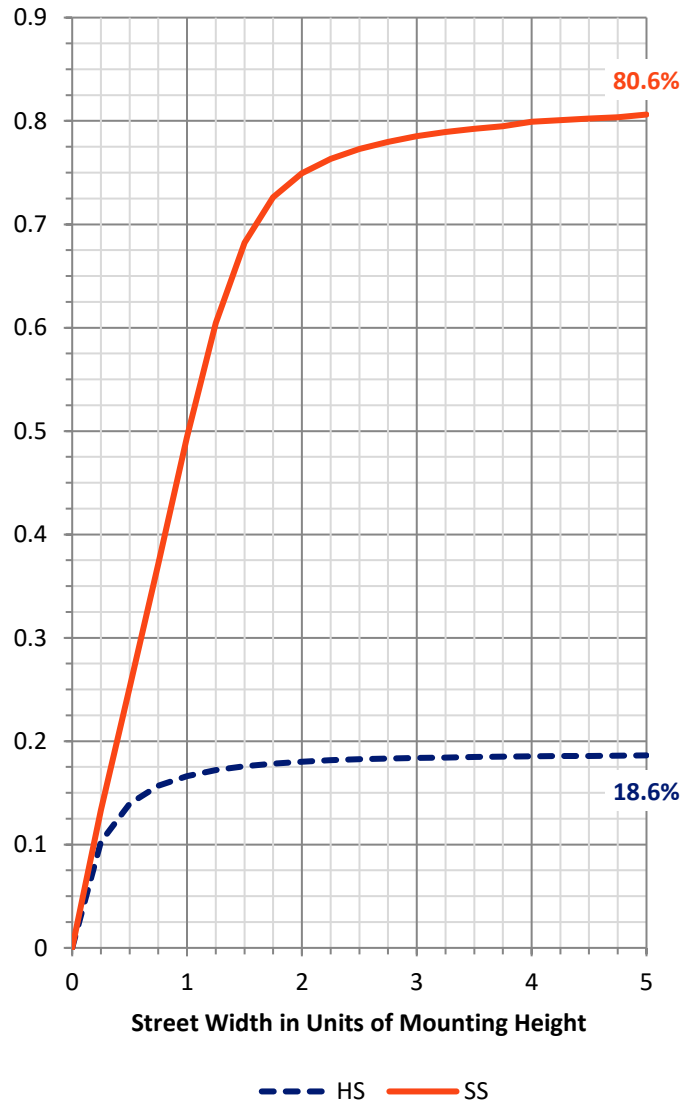
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7855.4	0.0	7855.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	33914.6	0.0	33914.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	41770.0	0.0	41770.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	837.6	2.0
10°-20°	1986.8	4.8
20°-30°	2704.8	6.5
30°-40°	3634.6	8.7
40°-50°	5427.1	13.0
50°-60°	8632.7	20.7
60°-70°	10617.8	25.4
70°-80°	6908.4	16.5
80°-90°	1020.2	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°	41770.0	100.0
0°-180°	41770.0	100.0

Coefficient of Utilization



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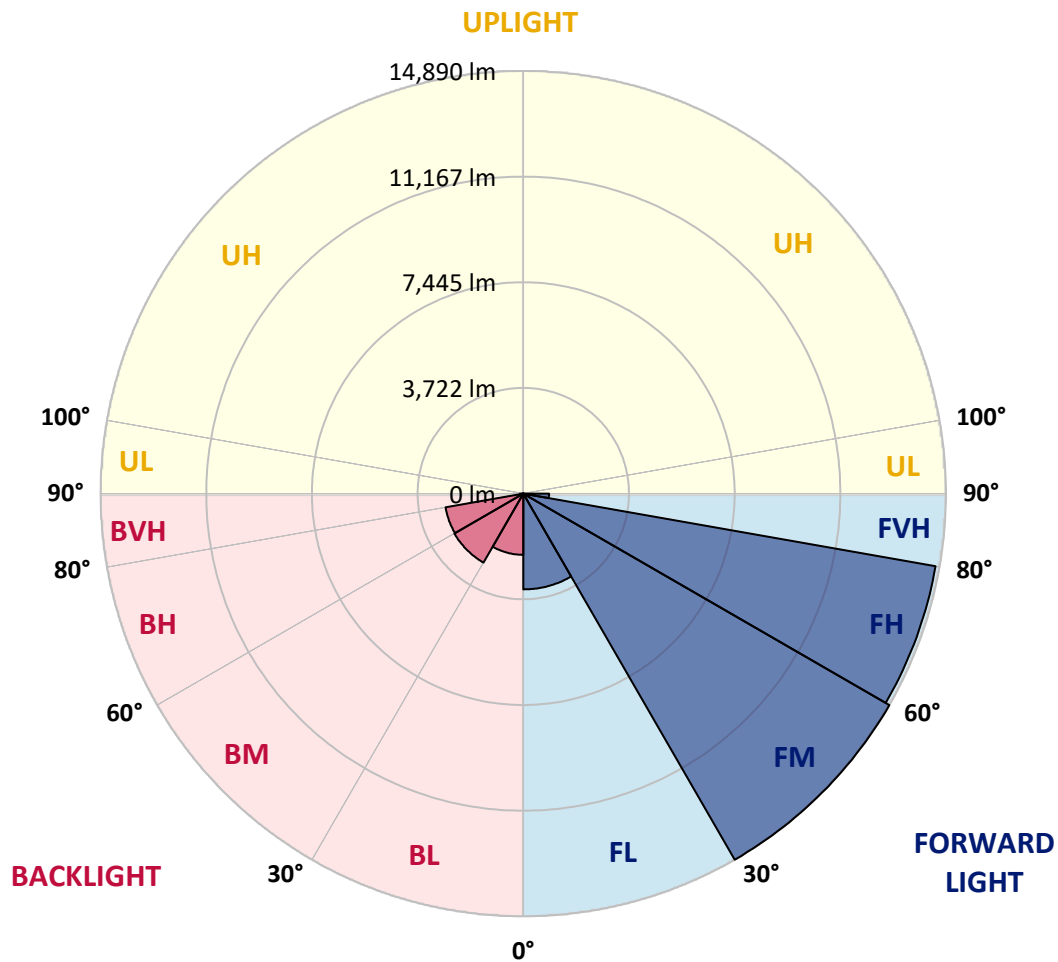
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3372.9	8.1			
FM (30°-60°)	14889.7	35.6			
FH (60°-80°)	14745.0	35.3			G5
FVH (80°-90°)	907.0	2.2			G5
BL (0°-30°)	2156.3	5.2	B3/2500		
BM (30°-60°)	2804.7	6.7	B3/5000		
BH (60°-80°)	2781.1	6.7	B4/5000		G4/5000
BVH (80°-90°)	113.2	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°	9645.9	9645.9	9645.9	9645.9	9645.9	9645.9	9645.9	9645.9	9645.9	9645.9	9645.9
2.5°	9308.1	9345.1	9386.8	9433.0	9520.9	9569.5	9604.2	9643.5	9648.2	9669.0	9652.8
5°	8621.1	8665.1	8727.5	8815.4	8947.3	9153.2	9366.0	9539.4	9560.3	9657.4	9685.2
7.5°	8047.5	8072.9	8123.8	8264.9	8452.3	8681.3	8991.2	9342.8	9393.7	9625.0	9706.0
10°	7580.2	7605.7	7665.8	7811.5	7996.6	8283.4	8623.4	9086.1	9127.7	9525.6	9710.6
12.5°	7230.9	7254.1	7318.8	7462.2	7675.0	7943.4	8318.1	8808.5	8868.6	9393.7	9666.7
15°	6964.9	7008.9	7062.1	7180.0	7404.4	7663.5	8026.6	8554.0	8602.6	9254.9	9636.6
17.5°	6851.6	6872.4	6909.4	7018.1	7182.3	7436.8	7802.3	8355.1	8412.9	9157.8	9629.7
20°	6856.2	6877.0	6883.9	6944.1	7062.1	7281.8	7642.7	8197.8	8267.2	9072.2	9641.2
22.5°	7013.5	7015.8	6990.4	6969.5	7015.8	7198.5	7529.3	8079.8	8160.8	9035.2	9650.5
25°	7256.4	7298.0	7261.0	7163.8	7078.3	7166.2	7485.4	8015.1	8091.4	8982.0	9638.9
27.5°	7649.6	7656.5	7626.5	7494.6	7272.6	7207.8	7466.9	7966.5	8031.3	8942.7	9581.1
30°	8177.0	8156.2	8128.4	7982.7	7633.4	7367.4	7506.2	7922.6	7989.6	8884.8	9511.7
32.5°	8711.3	8776.1	8750.7	8579.5	8126.1	7677.4	7633.4	7917.9	7973.4	8840.9	9435.4
35°	9278.1	9308.1	9428.4	9340.5	8875.6	8179.3	7871.7	7989.6	8033.6	8843.2	9382.2
37.5°	9722.2	9803.1	10085.4	10161.7	9724.5	8843.2	8258.0	8193.2	8211.7	8956.5	9403.0
40°	10258.8	10397.6	10760.8	11073.1	10786.2	9706.0	8914.9	8570.2	8593.4	9229.5	9539.4
42.5°	10938.9	11036.1	11524.1	11947.4	11901.2	10846.4	9710.6	9187.8	9199.4	9773.1	9921.1
45°	11734.6	11873.4	12421.6	13057.8	13166.5	12137.1	10860.3	10122.4	10115.4	10617.4	10633.6
47.5°	12752.4	12838.0	13381.6	14075.5	14515.0	13758.6	12255.1	11464.0	11390.0	11848.0	11716.1
50°	13689.2	13823.4	14235.2	14993.9	16088.0	15657.7	14089.4	13203.5	13030.0	13457.9	13235.9
52.5°	14082.5	14223.6	14570.6	15512.0	17436.6	18114.3	16418.8	15278.4	14989.2	15317.7	15236.7
55°	13400.1	13582.8	13906.7	15051.7	18028.7	20947.9	19560.0	17677.1	17466.6	17325.5	17348.7
57.5°	11565.8	11739.3	12176.4	13439.4	17320.9	23004.3	24045.2	20760.6	20309.5	19659.5	19770.5
60°	8803.9	8912.6	9139.3	10538.7	15222.9	23538.7	29138.8	24658.2	24371.4	21984.2	22062.9
62.5°	6252.5	6375.1	6532.3	7230.9	11144.8	22032.8	33126.7	30101.1	29076.4	24392.2	24315.9
65°	5077.4	4994.1	5183.8	5509.9	6539.3	17075.7	34024.2	37655.8	36244.8	27563.5	26504.1
67.5°	4175.2	4087.3	4274.7	4855.3	4973.3	9911.9	30790.4	42559.7	42277.5	31012.5	28727.1
69°	3696.4	3650.2	3814.4	4476.0	4774.4	7038.9	26823.3	43242.1	43309.2	33045.7	29069.4
70°	3330.9	3349.4	3509.1	4284.0	4684.1	5803.7	22925.7	42300.7	42869.7	34061.2	28699.3
72.5°	2451.9	2491.3	2713.3	3548.4	4598.6	4924.7	13643.0	36948.0	37954.2	34121.3	26254.3
75°	1714.0	1695.5	1892.2	2671.7	4344.1	4880.8	8012.8	28574.4	29714.8	29492.7	22060.6
77.5°	1121.9	1152.0	1309.2	1887.5	3654.8	4843.7	5223.1	20272.5	21012.7	19724.3	13048.5
80°	791.1	788.8	876.7	1288.4	2711.0	4654.1	4277.0	12777.9	12590.5	7751.4	3869.9
82.5°	453.4	485.8	587.5	906.8	1813.5	4096.6	3934.7	6111.4	5579.3	2209.1	1306.9
85°	252.1	263.7	349.3	548.2	1059.4	3085.7	3435.0	2780.4	2623.1	922.9	562.1
87.5°	81.0	87.9	145.7	277.6	481.1	1457.3	1945.4	1283.8	1184.3	333.1	226.7
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°	9645.9	9645.9	9645.9	9645.9	9645.9	9645.9	9645.9	9645.9	9645.9	9645.9	9645.9
2.5°	9659.7	9687.5	9613.5	9541.8	9477.0	9386.8	9305.8	9238.7	9192.5	9185.5	9162.4
5°	9692.1	9694.4	9553.3	9363.6	9178.6	8975.0	8764.5	8614.2	8473.1	8394.4	8355.1
7.5°	9715.2	9694.4	9440.0	9132.3	8776.1	8406.0	8035.9	7739.8	7510.8	7420.6	7455.3
10°	9706.0	9641.2	9268.8	8776.1	8258.0	7705.1	7173.1	6756.7	6375.1	6178.4	6183.1
12.5°	9655.1	9548.7	9014.4	8375.9	7614.9	6874.7	6060.5	5498.4	5056.6	4795.2	4714.2
15°	9611.2	9426.1	8716.0	7832.3	6886.3	5829.1	4836.8	4142.9	3772.8	3566.9	3564.6
17.5°	9564.9	9308.1	8389.8	7256.4	6048.9	4688.8	3647.8	3118.1	2944.6	2965.5	2930.8
20°	9516.3	9169.3	8049.8	6615.6	5028.8	3497.5	2731.8	2516.7	2565.3	2660.1	2674.0
22.5°	9460.8	9021.3	7684.3	5910.1	3955.5	2632.4	2216.0	2183.6	2308.5	2456.6	2477.4
25°	9375.2	8836.2	7224.0	5172.2	3051.1	2121.2	1940.7	1963.9	2086.5	2211.4	2225.3
27.5°	9254.9	8607.2	6759.0	4251.6	2292.3	1820.5	1774.2	1804.3	1864.4	1940.7	1959.2
30°	9093.0	8348.2	6224.7	3455.9	1836.6	1670.1	1651.6	1667.8	1702.5	1734.9	1744.1
32.5°	8931.1	8098.4	5685.7	2646.2	1637.7	1570.6	1552.1	1552.1	1552.1	1556.8	1559.1
35°	8780.7	7862.4	5107.4	2061.0	1533.6	1492.0	1466.5	1438.8	1434.2	1418.0	1418.0
37.5°	8697.5	7647.3	4492.1	1725.6	1457.3	1427.2	1392.5	1346.3	1320.8	1323.1	1318.5
40°	8713.7	7506.2	3932.4	1535.9	1394.8	1362.4	1309.2	1256.0	1239.9	1239.9	1235.2
42.5°	8896.4	7459.9	3395.7	1436.5	1334.7	1297.7	1230.6	1182.0	1172.8	1170.5	1175.1
45°	9317.4	7573.3	2914.6	1371.7	1283.8	1228.3	1161.2	1117.3	1108.0	1108.0	1105.7
47.5°	10138.6	7941.1	2569.9	1330.1	1246.8	1175.1	1105.7	1061.7	1045.5	1040.9	1040.9
50°	11415.4	8739.1	2313.2	1293.1	1200.5	1126.5	1054.8	1003.9	978.5	976.2	973.8
52.5°	13189.6	9983.6	2213.7	1265.3	1149.6	1075.6	997.0	948.4	916.0	909.1	904.4
55°	15264.5	11720.8	2350.2	1244.5	1096.4	1017.8	936.8	885.9	855.9	842.0	839.7
57.5°	17667.9	13807.2	2868.3	1216.7	1047.9	955.3	876.7	825.8	793.4	777.2	772.6
60°	19826.0	15951.5	3772.8	1200.5	1006.2	888.3	807.3	761.0	731.0	714.8	712.5
62.5°	22197.0	17996.3	4853.0	1244.5	987.7	823.5	742.5	700.9	675.4	659.2	659.2
65°	24729.9	20043.5	5567.8	1392.5	1015.5	772.6	673.1	638.4	615.3	603.7	601.4
67.5°	26437.0	20751.3	4587.0	1545.2	1084.9	717.1	606.0	578.3	564.4	552.8	552.8
69°	26252.0	19856.1	3384.1	1584.5	1105.7	689.3	569.0	548.2	529.7	525.1	520.5
70°	25666.8	18836.0	2835.9	1559.1	1089.5	663.9	545.9	520.5	504.3	499.6	497.3
72.5°	22860.9	16335.5	2111.9	1355.5	927.6	576.0	483.4	460.3	446.4	439.5	439.5
75°	18993.3	13351.5	1649.3	1077.9	726.3	485.8	414.1	395.5	384.0	379.4	377.0
77.5°	10645.1	7455.3	1184.3	844.3	550.5	393.2	347.0	330.8	319.2	314.6	314.6
80°	2965.5	2130.4	696.3	557.5	374.7	298.4	275.3	263.7	247.5	235.9	242.9
82.5°	1117.3	922.9	397.9	335.4	238.3	198.9	192.0	182.7	175.8	159.6	159.6
85°	543.6	448.8	254.4	178.1	131.8	104.1	99.5	94.8	90.2	78.6	81.0
87.5°	187.4	198.9	111.0	64.8	39.3	25.4	20.8	11.6	11.6	11.6	11.6
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)