

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: P459218

Luminaire Tested: **GALN-SA7A-735-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459218
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-SA7A-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA 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: 29410 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

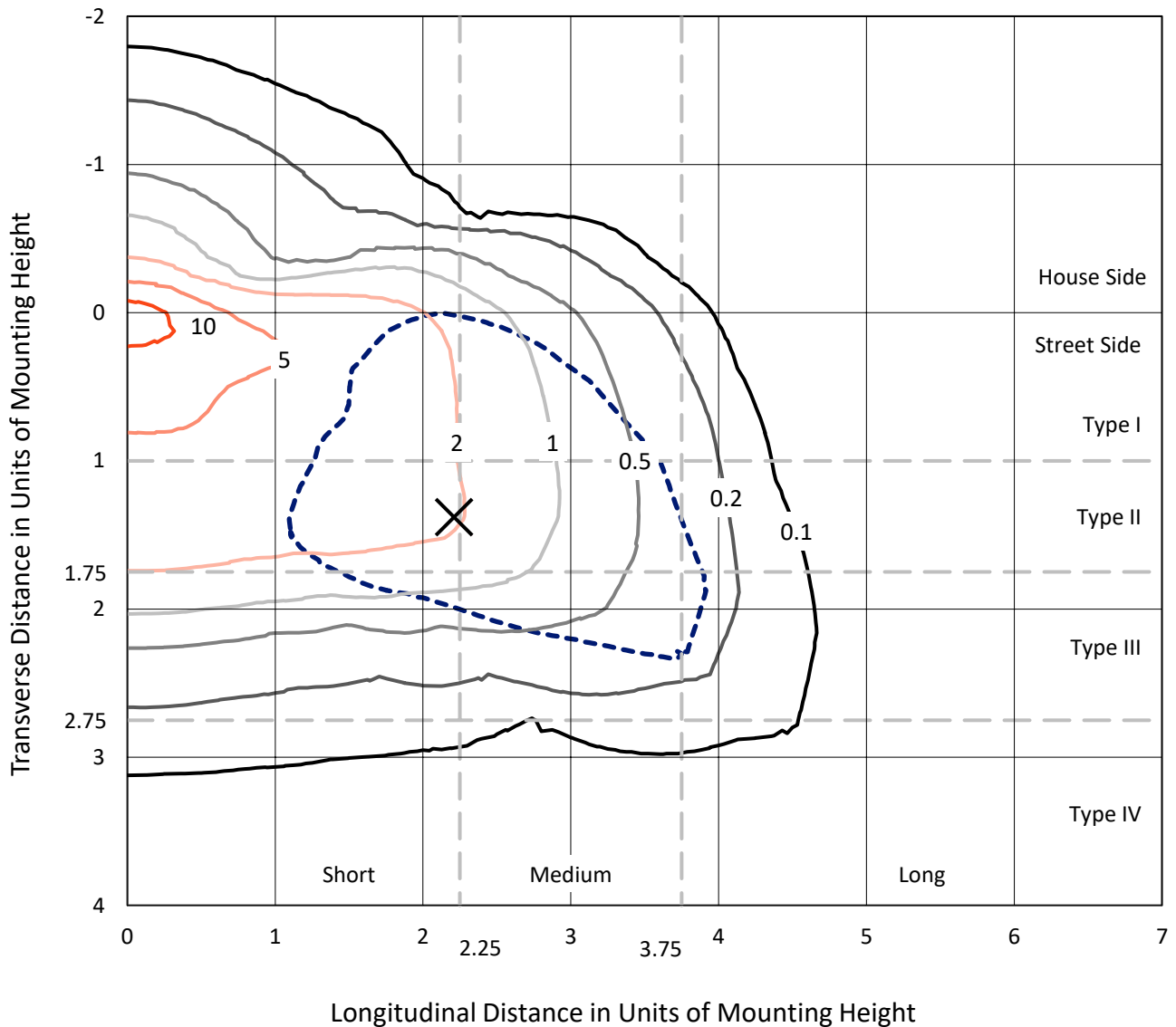
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

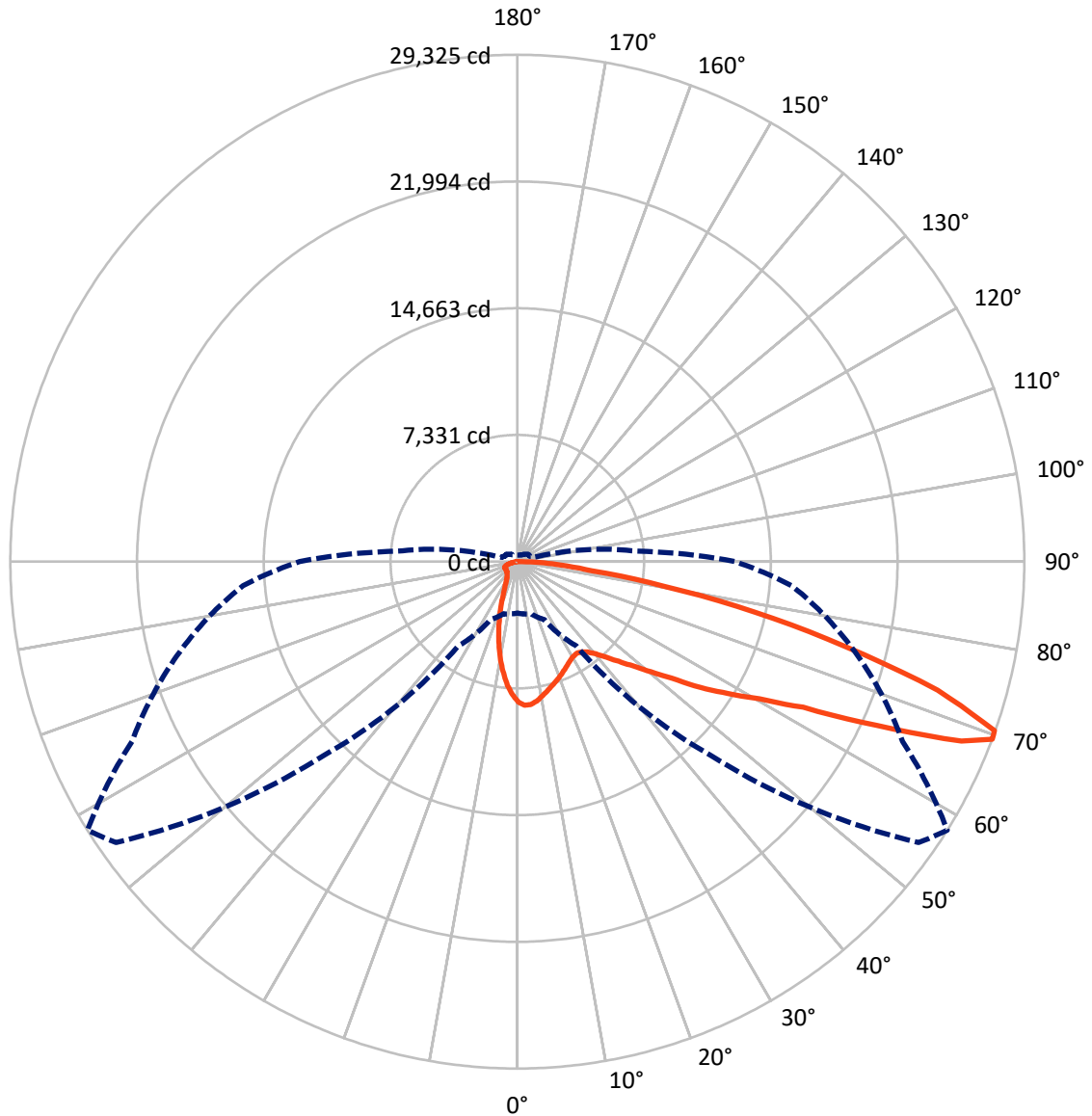
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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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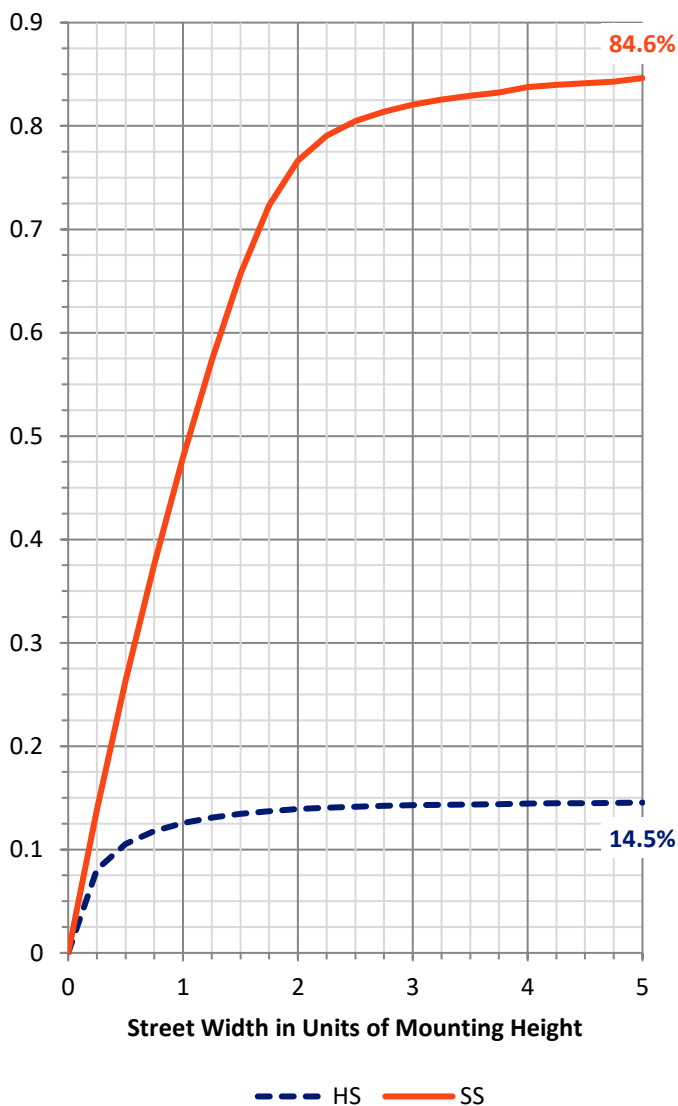
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4310.0	0.0	4310.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	25100.0	0.0	25100.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	29410.0	0.0	29410.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.2	2.3
10°-20°	1515.6	5.2
20°-30°	1958.1	6.7
30°-40°	2543.2	8.6
40°-50°	3697.5	12.6
50°-60°	5899.9	20.1
60°-70°	7881.6	26.8
70°-80°	4543.4	15.4
80°-90°	680.5	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°	29410.0	100.0
0°-180°	29410.0	100.0

Coefficient of Utilization



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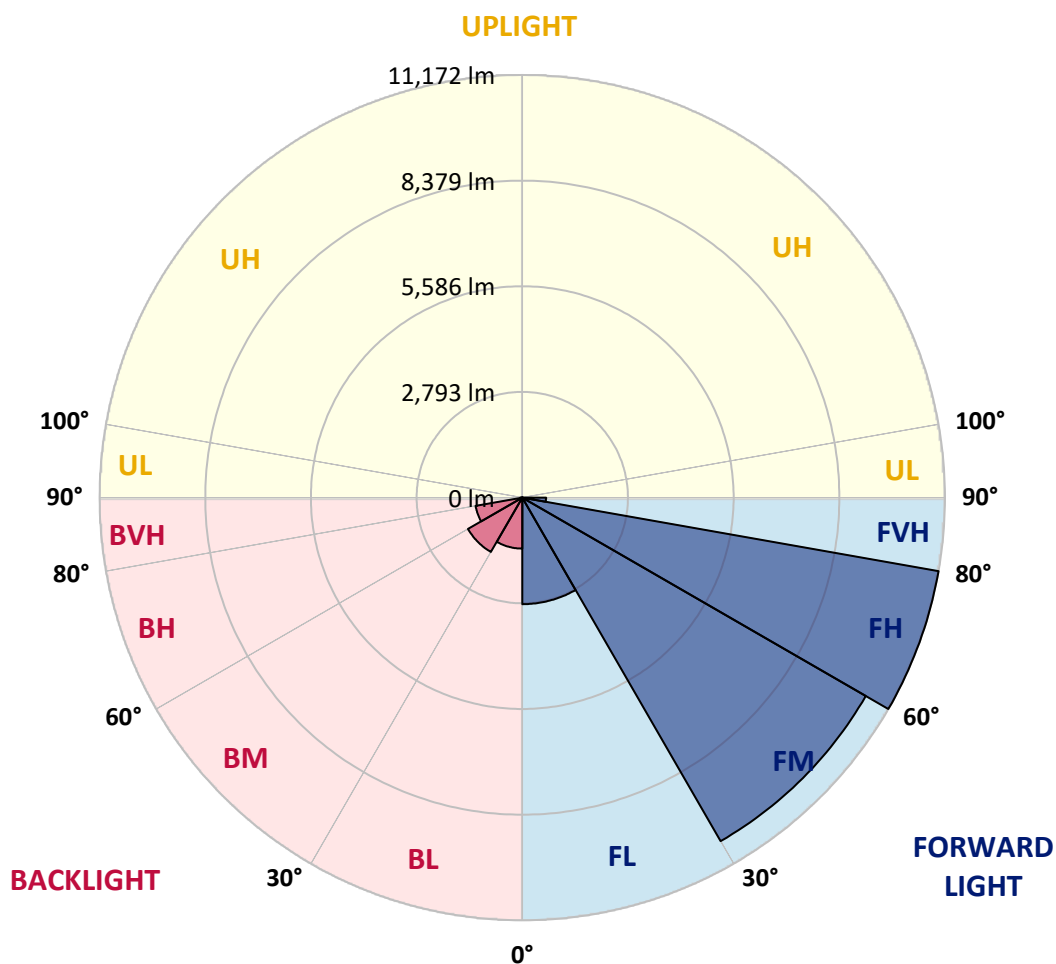
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2816.7	9.6			
FM	(30°-60°)	10483.1	35.6			
FH	(60°-80°)	11171.7	38.0			G4/12000
FVH	(80°-90°)	628.4	2.1			G4/750
BL	(0°-30°)	1347.1	4.6	B3/2500		
BM	(30°-60°)	1657.5	5.6	B2/2500		
BH	(60°-80°)	1253.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	52.1	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8127.2	8127.2	8127.2	8127.2	8127.2	8127.2	8127.2	8127.2	8127.2	8127.2	8127.2
2.5°	8429.0	8452.0	8445.4	8437.2	8424.1	8388.0	8328.9	8319.1	8281.4	8201.0	8101.0
5°	8299.4	8319.1	8320.7	8332.2	8348.6	8342.1	8299.4	8294.5	8238.7	8130.5	7963.2
7.5°	7854.9	7881.2	7938.6	8002.5	8060.0	8114.1	8127.2	8135.4	8101.0	7976.3	7753.2
10°	7354.7	7380.9	7407.2	7502.3	7643.3	7777.8	7889.4	7904.1	7912.3	7797.5	7525.2
12.5°	6800.3	6854.4	6910.2	7051.2	7239.9	7451.4	7648.3	7679.4	7735.2	7648.3	7328.4
15°	6329.5	6385.3	6465.7	6592.0	6820.0	7125.0	7402.2	7453.1	7563.0	7518.7	7144.7
17.5°	6003.1	6022.8	6078.6	6222.9	6469.0	6790.4	7161.1	7262.8	7438.3	7426.8	6987.3
20°	5745.6	5770.2	5804.7	5893.2	6149.1	6488.6	6936.4	7067.6	7305.5	7344.8	6831.4
22.5°	5637.4	5655.4	5650.5	5698.1	5871.9	6213.1	6708.4	6864.2	7187.4	7289.1	6687.1
25°	5643.9	5660.3	5635.7	5624.3	5727.6	5970.3	6470.6	6669.1	7092.2	7251.3	6555.9
27.5°	5753.8	5765.3	5719.4	5673.5	5681.7	5819.4	6273.8	6493.6	7011.9	7267.7	6446.0
30°	5901.4	5922.8	5893.2	5837.5	5776.8	5783.4	6147.5	6364.0	6974.1	7325.1	6393.5
32.5°	6091.7	6111.4	6098.3	6054.0	5975.3	5888.3	6116.3	6316.4	6977.4	7441.6	6382.0
35°	6291.8	6331.2	6352.5	6349.2	6285.3	6134.4	6239.3	6405.0	7056.2	7636.8	6449.3
37.5°	6518.2	6551.0	6642.8	6701.9	6642.8	6467.3	6516.5	6631.3	7230.0	7918.9	6596.9
40°	6738.0	6787.2	6921.7	7105.4	7082.4	6928.2	6939.7	7015.1	7536.7	8338.8	6885.6
42.5°	6967.6	7026.6	7261.2	7533.4	7587.6	7467.8	7499.0	7566.3	7973.0	8921.1	7380.9
45°	7262.8	7333.3	7622.0	7961.5	8174.8	8101.0	8189.5	8222.3	8556.9	9678.8	8033.7
47.5°	7643.3	7725.4	8081.3	8504.4	8806.2	8873.5	9027.7	9008.0	9280.3	10576.0	8880.1
50°	8284.7	8330.6	8666.8	9098.2	9513.2	9816.6	9983.9	10015.1	10177.5	11448.6	9826.5
52.5°	9047.4	9088.4	9331.1	9708.4	10228.3	10871.3	11284.6	11182.9	11222.3	12511.5	10933.6
55°	9905.2	9974.1	10128.2	10379.2	11053.3	11999.7	12829.7	12854.3	12418.0	13528.4	11994.8
57.5°	10569.5	10685.9	10950.0	11307.6	12162.1	13254.5	14369.8	14386.2	13828.5	14614.2	13165.9
60°	10234.9	10372.6	10976.2	11847.2	13617.0	15444.1	16210.1	16116.6	15201.4	15850.9	14594.5
62.5°	8791.5	8816.1	9693.6	11055.0	14064.7	18373.5	18949.3	18554.0	17033.5	17418.9	16046.1
65°	5689.9	5850.6	6546.0	8453.6	12593.5	19999.0	23748.5	22834.9	19602.1	19198.6	17261.5
67.5°	3592.0	3551.0	3839.7	4827.1	8661.9	18567.1	27844.1	27699.7	22961.2	20322.1	16971.2
69°	2978.6	3024.5	3122.9	3700.3	5960.5	15852.6	28327.9	29325.2	24589.9	20233.5	15916.5
70°	2701.4	2722.7	2826.1	3280.4	4599.1	13277.4	27534.1	29280.9	25229.6	19862.8	15152.2
72.5°	2143.7	2142.1	2319.2	2729.3	3437.9	7579.4	22608.5	25421.5	24514.5	18137.4	12519.7
75°	1628.7	1655.0	1850.1	2309.4	3167.2	4141.5	15777.1	19577.5	19579.1	14325.5	7812.3
77.5°	1174.4	1190.8	1418.8	1938.7	2983.5	3357.5	10508.8	14041.8	13200.3	6564.1	2455.4
80°	769.3	779.1	953.0	1535.2	2689.9	3167.2	6231.1	8594.7	6226.2	1741.9	811.9
82.5°	421.5	470.7	582.3	994.0	2158.5	2926.1	3787.2	4349.8	2335.6	775.8	423.2
85°	211.6	224.7	328.0	580.6	1410.6	2420.9	2637.4	2494.7	1205.5	385.4	219.8
87.5°	62.3	78.7	136.1	224.7	572.4	1261.3	1468.0	1317.1	464.2	139.4	45.9
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°	8127.2	8127.2	8127.2	8127.2	8127.2	8127.2	8127.2	8127.2	8127.2	8127.2	8127.2
2.5°	8060.0	8030.4	7899.2	7781.1	7672.9	7558.1	7461.3	7376.0	7384.2	7385.8	7298.9
5°	7876.3	7809.0	7559.7	7326.8	7130.0	6880.6	6667.4	6529.6	6460.8	6368.9	6401.7
7.5°	7626.9	7497.4	7151.3	6764.2	6401.7	6078.6	5727.6	5486.5	5332.3	5183.0	5202.7
10°	7369.4	7161.1	6657.6	6145.8	5676.7	5160.1	4712.3	4328.5	4043.1	3936.5	3866.0
12.5°	7105.4	6831.4	6191.8	5511.1	4863.2	4244.8	3610.1	3198.4	2883.5	2716.2	2737.5
15°	6864.2	6531.3	5706.3	4876.3	4034.9	3298.4	2665.3	2273.3	2053.5	2007.6	2033.9
17.5°	6641.2	6204.9	5251.9	4259.6	3277.1	2473.4	2002.7	1781.3	1692.7	1668.1	1666.4
20°	6411.6	5927.7	4741.8	3600.2	2553.8	1917.4	1643.5	1540.1	1523.7	1533.6	1535.2
22.5°	6178.6	5584.9	4217.0	2945.8	2033.9	1568.0	1436.8	1408.9	1422.1	1445.0	1448.3
25°	5963.8	5283.1	3711.8	2371.7	1623.8	1377.8	1313.8	1313.8	1343.3	1377.8	1379.4
27.5°	5786.6	4991.1	3208.2	1883.0	1359.7	1240.0	1218.7	1230.2	1271.2	1297.4	1299.0
30°	5640.7	4718.9	2732.6	1509.0	1195.7	1130.1	1125.2	1144.9	1174.4	1199.0	1200.6
32.5°	5530.8	4479.4	2288.1	1267.9	1082.5	1046.4	1044.8	1059.6	1076.0	1082.5	1089.1
35°	5488.1	4280.9	1881.3	1115.3	1007.1	984.1	984.1	982.5	989.0	992.3	995.6
37.5°	5522.6	4128.4	1566.4	1016.9	951.3	934.9	925.1	915.2	912.0	912.0	913.6
40°	5668.5	4048.0	1331.8	953.0	912.0	887.3	869.3	857.8	846.3	849.6	852.9
42.5°	5978.5	4062.8	1172.7	910.3	877.5	843.1	816.8	803.7	795.5	805.3	803.7
45°	6472.2	4210.4	1071.1	880.8	843.1	798.8	774.2	761.1	761.1	775.8	780.7
47.5°	7162.8	4492.5	1016.9	857.8	816.8	764.3	739.7	729.9	733.2	757.8	759.4
50°	8005.8	4982.9	1007.1	846.3	803.7	739.7	711.8	702.0	710.2	736.5	739.7
52.5°	8935.8	5614.4	1054.7	848.0	792.2	725.0	688.9	674.1	682.3	703.6	710.2
55°	10038.0	6405.0	1177.7	854.5	775.8	716.8	672.5	639.7	649.5	664.3	665.9
57.5°	11163.2	7402.2	1394.2	856.2	762.7	702.0	644.6	602.0	602.0	611.8	616.7
60°	12537.7	8488.0	1679.6	857.8	764.3	680.7	606.9	559.3	552.7	557.7	559.3
62.5°	13902.4	9396.7	1727.1	852.9	780.7	659.4	565.9	516.7	505.2	503.5	500.3
65°	14504.3	9227.8	1415.5	829.9	798.8	646.2	533.1	475.7	456.0	449.4	449.4
67.5°	13523.5	7805.7	1064.5	798.8	787.3	633.1	501.9	441.2	418.3	405.1	405.1
69°	12601.7	6943.0	956.2	777.5	757.8	611.8	482.2	423.2	395.3	380.5	375.6
70°	11889.8	6349.2	910.3	759.4	729.9	587.2	467.5	410.1	378.9	362.5	359.2
72.5°	9488.6	4981.3	797.1	690.5	621.6	493.7	415.0	369.0	339.5	321.5	316.6
75°	5468.4	2699.8	661.0	600.3	500.3	383.8	351.0	321.5	298.5	282.1	277.2
77.5°	1682.8	1043.2	478.9	474.0	367.4	296.9	280.5	269.0	252.6	234.5	231.3
80°	708.6	531.4	324.8	319.8	244.4	206.7	201.7	200.1	193.5	178.8	173.9
82.5°	388.7	300.2	226.3	196.8	147.6	119.7	124.7	126.3	121.4	106.6	96.8
85°	190.3	164.0	109.9	88.6	67.2	42.6	41.0	49.2	45.9	32.8	36.1
87.5°	37.7	45.9	29.5	13.1	6.6	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)