

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: P647000

Luminaire Tested: **GALN-SA6C-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27002.6 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

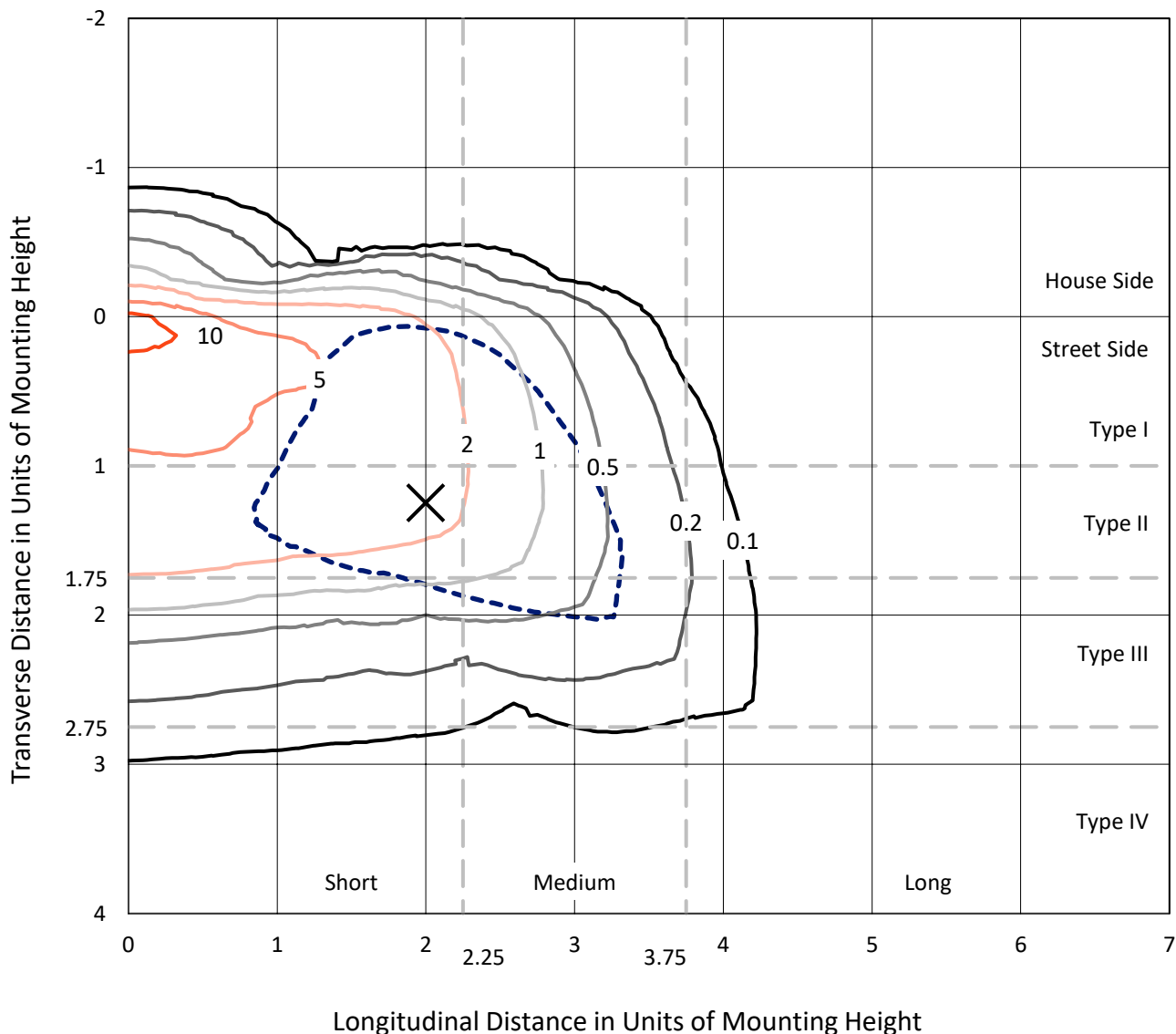
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647000
 CATALOG NUMBER: GALN-SA6C-835-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

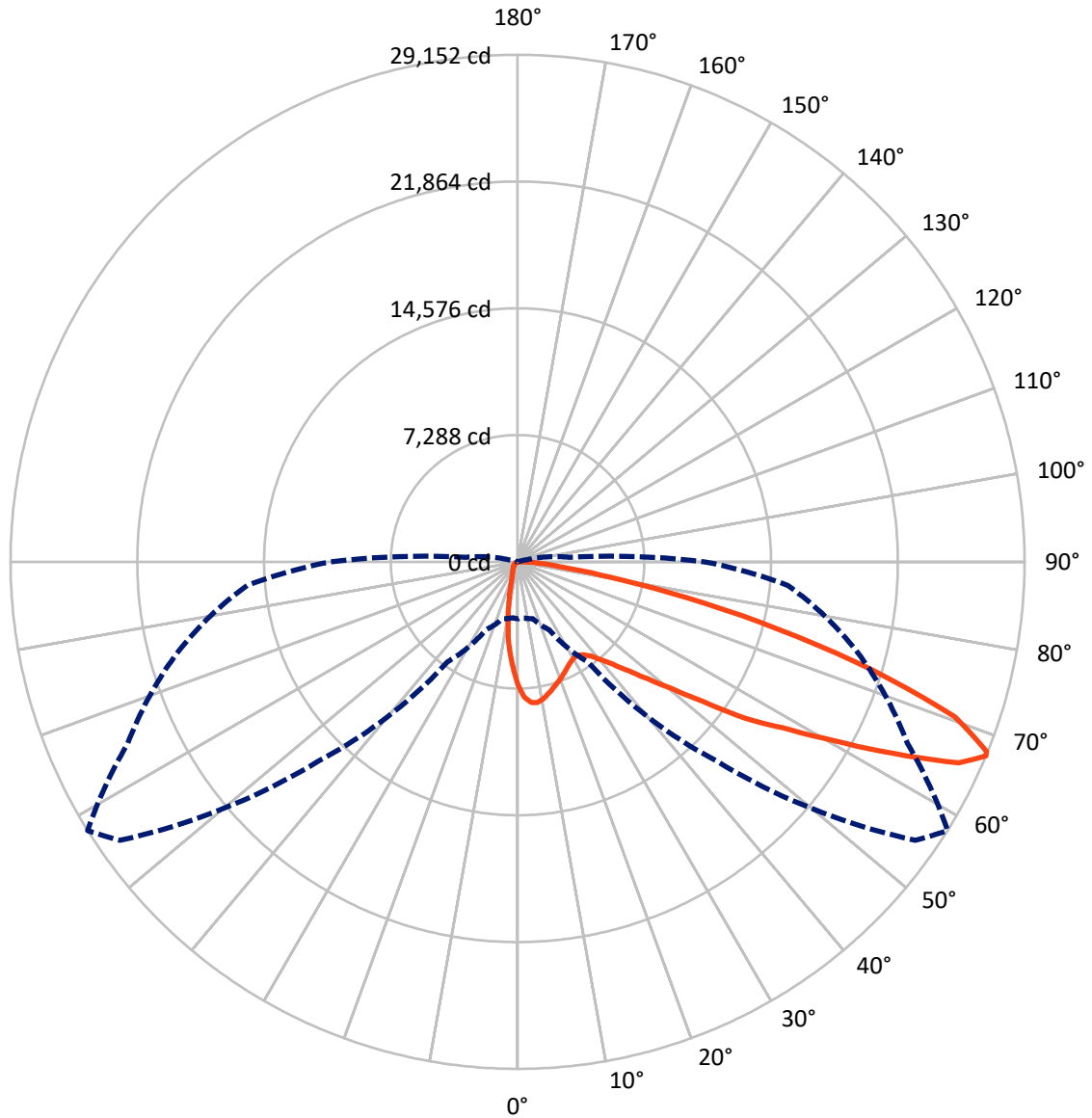
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type III - Short - N/A

REPORT NUMBER: P647000
CATALOG NUMBER: GALN-SA6C-835-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P647000
 CATALOG NUMBER: GALN-SA6C-835-U-SL3-HSS

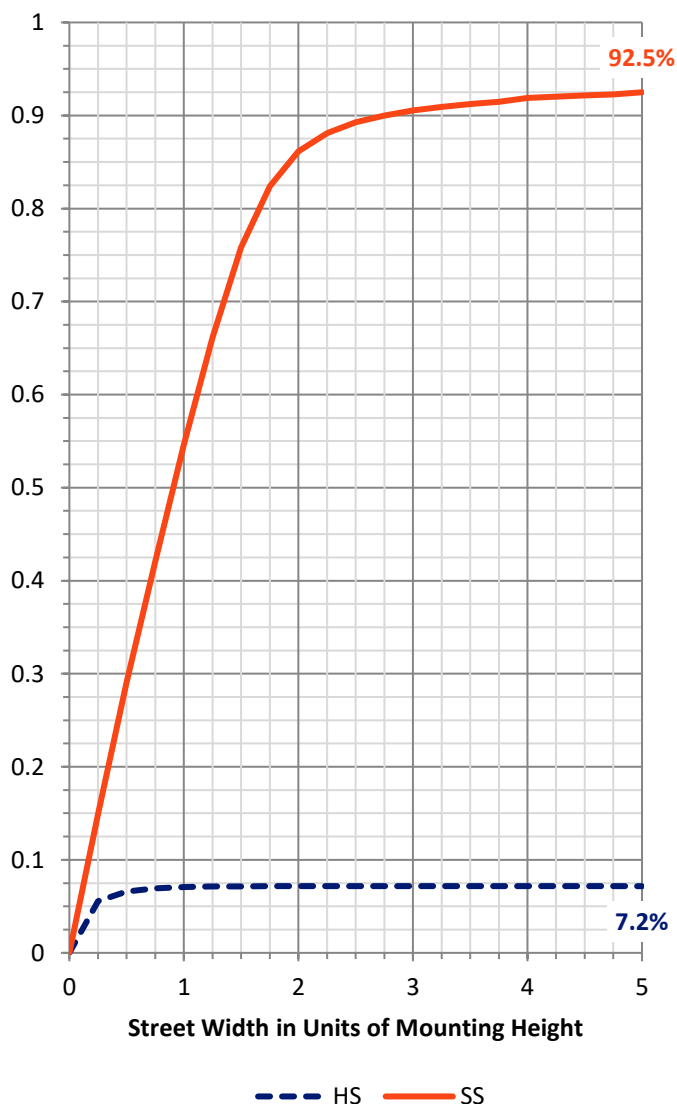
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1948.7	0.0	1948.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	25053.9	0.0	25053.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	27002.6	0.0	27002.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.9	2.2
10°-20°	1254.5	4.6
20°-30°	1700.0	6.3
30°-40°	2357.8	8.7
40°-50°	3760.4	13.9
50°-60°	6500.1	24.1
60°-70°	7425.1	27.5
70°-80°	3095.6	11.5
80°-90°	328.2	1.2
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°	27002.6	100.0
0°-180°	27002.6	100.0

Coefficient of Utilization

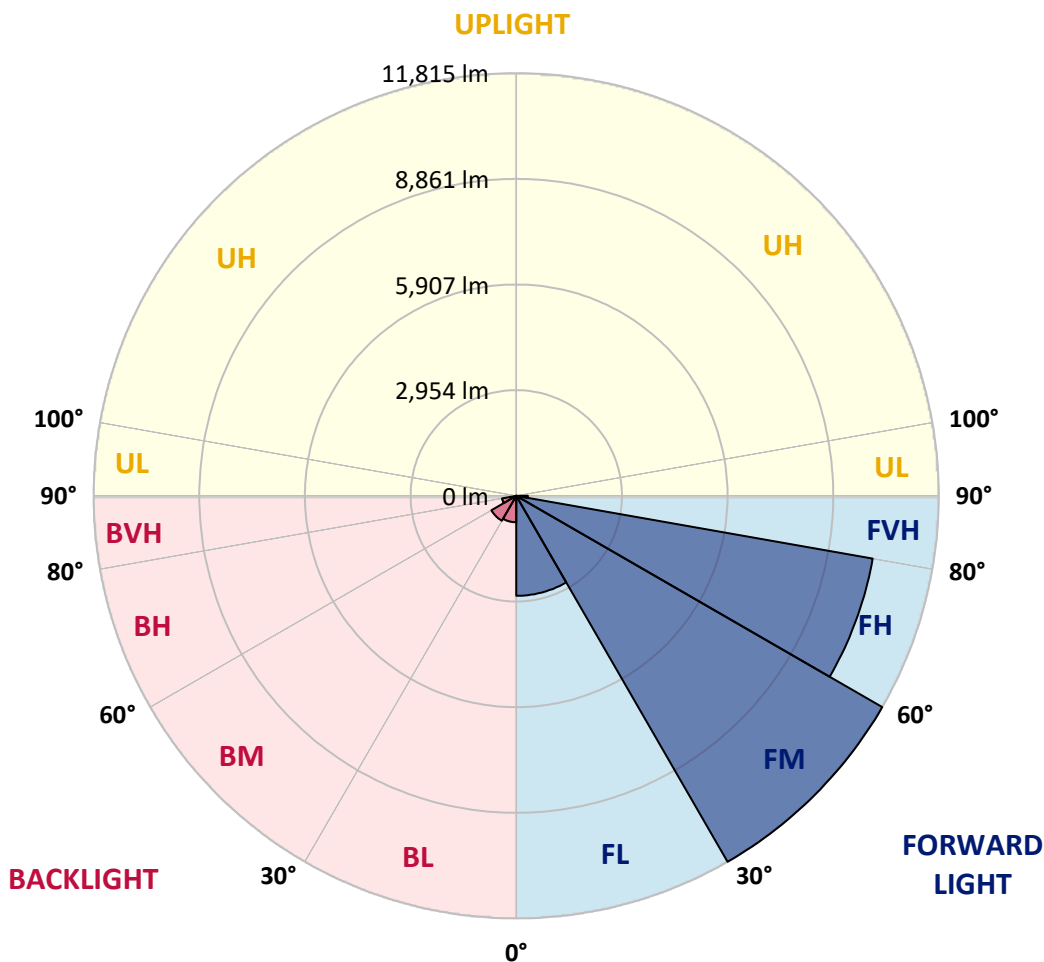


REPORT NUMBER: P647000
 CATALOG NUMBER: GALN-SA6C-835-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2795.4	10.4			
FM (30°-60°)	11814.7	43.8			
FH (60°-80°)	10117.9	37.5			G4/12000
FVH (80°-90°)	325.8	1.2			G3/500
BL (0°-30°)	740.0	2.7	B2/1000		
BM (30°-60°)	803.5	3.0	B1/1000		
BH (60°-80°)	402.9	1.5	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Short





REPORT NUMBER: P647000

CATALOG NUMBER: GALN-SA6C-835-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7158.1	7158.1	7158.1	7158.1	7158.1	7158.1	7158.1	7158.1	7158.1	7158.1	7158.1
2.5°	8307.6	8320.2	8273.3	8235.4	8138.0	8033.3	7894.4	7820.4	7694.1	7475.7	7233.9
5°	8502.4	8518.6	8511.4	8502.4	8464.5	8363.5	8186.7	8121.7	7935.9	7580.4	7143.7
7.5°	8069.4	8128.9	8136.2	8206.5	8273.3	8282.3	8215.5	8166.8	7995.4	7578.6	6983.1
10°	7495.6	7535.3	7593.0	7674.2	7834.8	7968.3	8033.3	8026.1	7926.8	7522.6	6795.4
12.5°	6916.3	6938.0	7026.4	7165.3	7362.0	7589.4	7762.6	7796.9	7798.7	7455.9	6638.4
15°	6418.3	6409.3	6477.8	6638.4	6914.5	7199.6	7510.0	7564.1	7650.7	7390.9	6492.3
17.5°	5992.5	6039.4	6050.2	6227.0	6481.4	6851.4	7246.5	7342.2	7515.4	7335.0	6371.4
20°	5729.1	5754.3	5777.8	5877.0	6106.1	6495.9	6999.3	7131.1	7389.1	7284.4	6236.0
22.5°	5651.5	5667.7	5647.9	5678.5	5840.9	6187.3	6730.5	6905.5	7268.2	7237.5	6126.0
25°	5711.0	5727.3	5680.3	5644.3	5700.2	5936.5	6470.6	6683.5	7170.8	7228.5	6043.0
27.5°	5855.4	5886.0	5821.1	5756.1	5723.7	5801.2	6266.7	6513.9	7104.0	7271.8	6005.1
30°	6080.9	6098.9	6050.2	5970.8	5896.9	5819.3	6160.3	6396.6	7085.9	7372.9	6001.5
32.5°	6326.3	6364.1	6337.1	6284.7	6189.1	6005.1	6190.9	6400.2	7129.3	7519.0	6046.6
35°	6629.4	6672.7	6698.0	6687.1	6564.4	6335.3	6385.8	6562.6	7244.7	7787.9	6169.3
37.5°	6927.1	6965.0	7107.6	7156.3	7048.0	6831.5	6764.7	6882.0	7499.2	8139.8	6391.2
40°	7268.2	7318.7	7519.0	7704.9	7652.6	7425.2	7302.5	7399.9	7888.9	8670.2	6811.7
42.5°	7594.8	7685.0	7990.0	8318.4	8367.1	8112.7	8031.5	8064.0	8466.3	9433.5	7398.1
45°	8058.6	8143.4	8536.7	8982.4	9211.5	9013.0	8930.0	8924.6	9258.5	10507.2	8349.1
47.5°	8727.9	8803.7	9267.5	9707.8	10115.6	10142.7	9985.7	10039.8	10254.5	11763.0	9514.7
50°	9549.0	9727.6	10032.6	10490.9	11035.8	11476.1	11524.8	11452.6	11636.7	13217.4	10914.9
52.5°	10741.7	10810.3	11089.9	11467.1	12105.8	12852.9	13432.1	13332.8	13275.1	14603.2	12329.6
55°	11631.3	11723.3	12158.2	12676.1	13612.5	14597.7	15853.6	15887.9	15158.9	15934.8	13713.5
57.5°	11362.4	11503.1	12161.8	13202.9	15261.8	17062.6	17997.3	18020.7	16902.0	17228.6	15276.2
60°	9982.1	10048.8	10992.5	12381.9	15402.5	19733.1	21037.7	20848.2	18675.7	18675.7	16656.6
62.5°	7078.7	7183.4	7948.5	9992.9	13910.2	20660.6	24679.0	24287.5	21118.9	20059.7	17479.4
65°	4523.7	4422.6	4929.7	6308.2	10362.8	19291.0	27849.4	27872.8	23417.7	20613.6	17030.1
67°	3276.9	3237.2	3383.3	4312.5	7026.4	16216.3	27916.1	29152.2	24738.6	20263.6	15593.8
67.5°	2997.2	3027.8	3134.3	3890.3	6384.0	14756.5	27613.0	29076.4	25036.3	20052.5	15074.1
70°	2271.8	2219.4	2334.9	2751.8	3827.1	9309.0	23753.3	26667.5	24666.4	17957.6	12044.5
72.5°	1670.9	1665.4	1826.0	2250.1	2946.6	4958.5	17831.3	21382.3	20151.8	13673.8	7584.0
75°	1127.8	1178.3	1434.5	1880.2	2670.5	3215.5	12156.4	15512.6	13989.6	7764.4	3100.0
77.5°	642.4	646.0	923.9	1510.3	2398.1	2587.5	7203.2	9882.8	7405.3	2582.1	920.3
80°	277.9	305.0	458.3	1097.1	1988.5	2291.6	4130.3	5431.3	2995.4	546.8	297.7
82.5°	102.9	120.9	202.1	674.9	1450.7	1887.4	2495.5	2593.0	1015.9	193.1	185.9
85°	0.0	3.6	74.0	315.8	756.1	842.7	1667.3	1537.3	449.3	92.0	120.9
87.5°	0.0	0.0	0.0	32.5	99.2	314.0	517.9	577.4	108.3	32.5	28.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647000
 CATALOG NUMBER: GALN-SA6C-835-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7158.1	7158.1	7158.1	7158.1	7158.1	7158.1	7158.1	7158.1	7158.1	7158.1	7158.1
2.5°	7104.0	6986.7	6692.6	6398.4	6180.1	5997.9	5723.7	5573.9	5494.5	5377.2	5384.4
5°	6925.3	6687.1	6169.3	5633.4	5200.3	4778.1	4272.8	4068.9	3897.5	3800.1	3735.1
7.5°	6660.1	6308.2	5541.4	4826.8	4161.0	3423.0	2869.0	2499.1	2250.1	2158.1	2069.7
10°	6369.6	5902.3	4904.4	3913.7	2989.9	2228.4	1759.3	1420.0	1299.2	1187.3	1198.1
12.5°	6100.7	5532.4	4319.8	3089.2	2094.9	1416.4	1104.3	965.4	925.7	913.1	913.1
15°	5880.6	5178.7	3691.8	2322.3	1436.3	1017.7	884.2	846.3	831.9	828.3	828.3
17.5°	5646.1	4843.1	3125.3	1716.0	1044.8	851.7	806.6	781.3	775.9	772.3	772.3
20°	5436.7	4505.6	2587.5	1277.5	844.5	766.9	738.0	721.8	716.4	712.8	714.6
22.5°	5238.2	4206.1	2082.3	965.4	743.5	698.3	669.5	653.2	642.4	633.4	635.2
25°	5061.4	3917.4	1674.5	790.4	669.5	629.8	600.9	577.4	554.0	543.2	541.3
27.5°	4936.9	3664.8	1304.6	676.7	602.7	559.4	523.3	494.4	463.8	447.5	443.9
30°	4834.0	3408.6	1032.2	597.3	535.9	494.4	449.3	407.8	375.3	359.1	351.9
32.5°	4767.3	3165.0	813.8	532.3	480.0	429.5	378.9	337.4	301.4	285.1	281.5
35°	4756.4	2961.1	665.9	478.2	429.5	375.3	323.0	277.9	247.2	231.0	227.4
37.5°	4834.0	2804.1	557.6	434.9	388.0	328.4	270.7	229.2	202.1	189.5	187.7
40°	5041.6	2704.8	483.6	398.8	350.1	285.1	231.0	194.9	167.8	155.2	155.2
42.5°	5436.7	2708.4	434.9	364.5	312.2	243.6	196.7	162.4	138.9	128.1	124.5
45°	6053.8	2831.1	393.4	330.2	276.1	211.1	167.8	133.5	110.1	101.1	101.1
47.5°	6880.2	3074.8	357.3	295.9	243.6	180.4	142.6	108.3	88.4	79.4	79.4
50°	7961.1	3466.3	326.6	267.1	216.5	155.2	115.5	88.4	68.6	61.4	59.5
52.5°	9090.6	3949.8	290.5	241.8	185.9	131.7	93.8	68.6	52.3	46.9	45.1
55°	10337.5	4422.6	256.2	216.5	151.6	110.1	74.0	54.1	37.9	32.5	32.5
57.5°	11595.2	4886.4	214.7	180.4	119.1	81.2	57.7	39.7	25.3	19.8	19.8
60°	12659.8	5036.1	182.3	146.2	90.2	57.7	41.5	25.3	14.4	9.0	9.0
62.5°	12806.0	4530.9	153.4	111.9	65.0	39.7	21.7	14.4	5.4	3.6	3.6
65°	12012.0	3681.0	128.1	84.8	43.3	19.8	9.0	5.4	1.8	0.0	0.0
67°	10763.4	2984.5	104.7	63.2	30.7	12.6	5.4	1.8	0.0	0.0	0.0
67.5°	10444.0	2845.6	101.1	59.5	27.1	10.8	3.6	1.8	0.0	0.0	0.0
70°	8195.7	2131.0	72.2	36.1	16.2	7.2	0.0	0.0	0.0	0.0	0.0
72.5°	5093.9	1205.4	52.3	21.7	10.8	3.6	0.0	0.0	0.0	0.0	0.0
75°	1925.3	422.3	36.1	14.4	7.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	599.1	160.6	21.7	10.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	202.1	61.4	14.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	124.5	25.3	9.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	77.6	10.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.4	3.6	1.8	0.0	0.0	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)