

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: P648672

Luminaire Tested: **GALN-SA9B-835-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648672  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-835-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34437.1 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

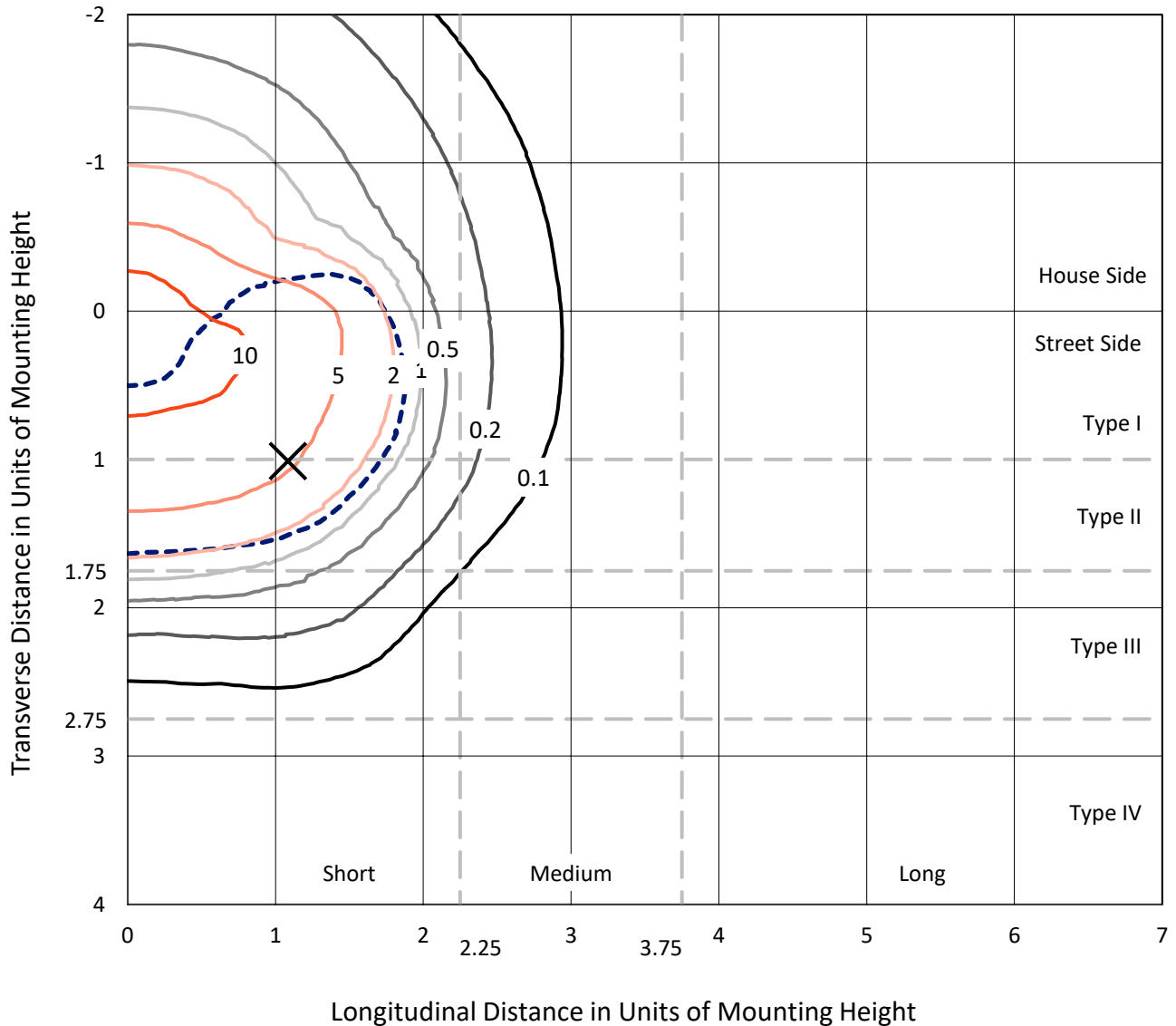
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

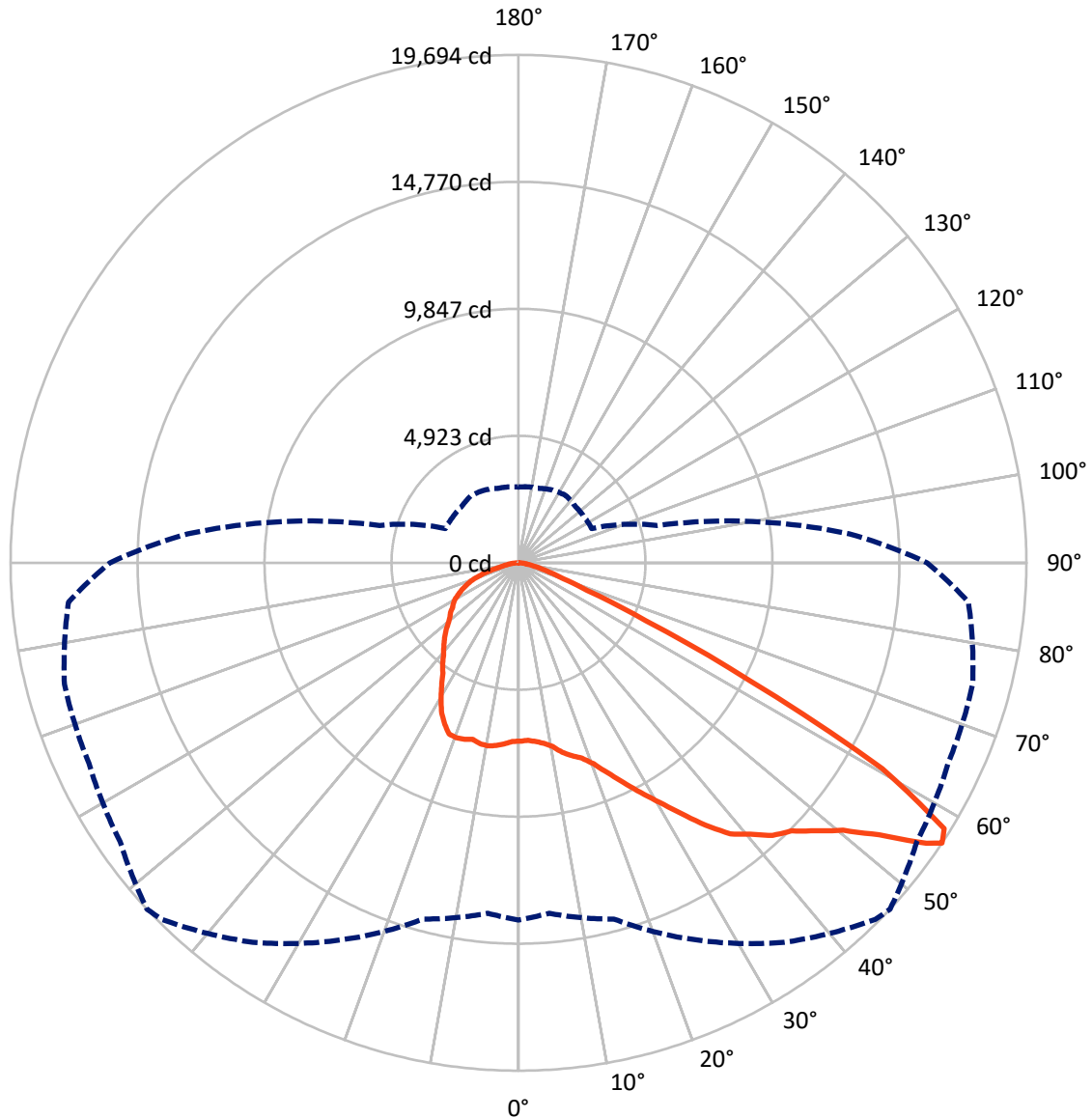
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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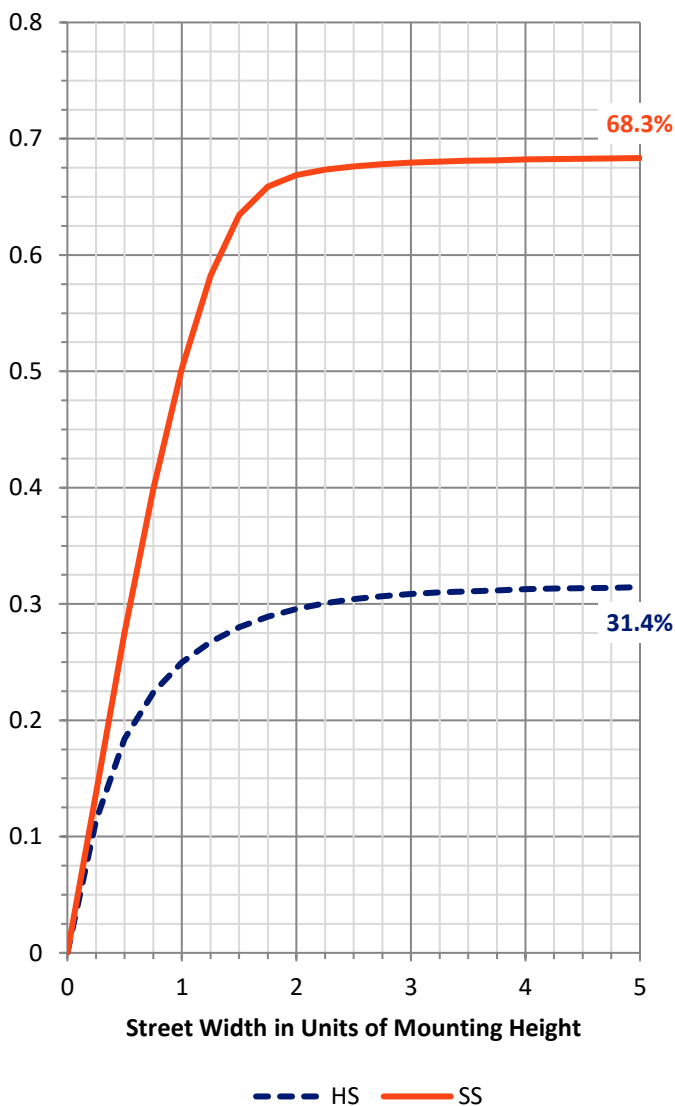
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10912.7	0.0	10912.7
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	23524.4	0.0	23524.4
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	34437.1	0.0	34437.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	674.0	2.0
10°-20°	2126.1	6.2
20°-30°	3758.5	10.9
30°-40°	5645.2	16.4
40°-50°	7747.4	22.5
50°-60°	9230.0	26.8
60°-70°	3949.9	11.5
70°-80°	1117.8	3.2
80°-90°	188.1	0.5
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°	34437.1	100.0
0°-180°	34437.1	100.0

**Coefficient of Utilization**

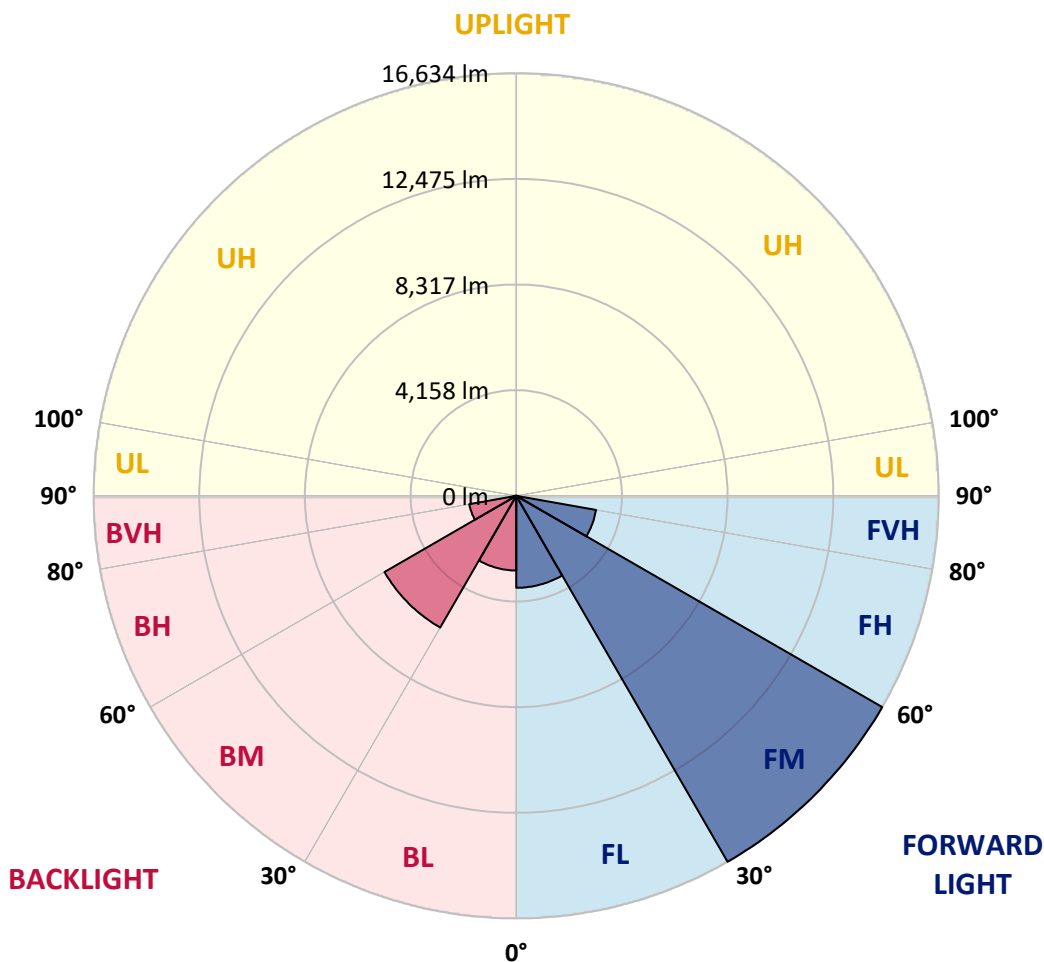


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3620.5	10.5			
FM (30°-60°)	16633.9	48.3			
FH (60°-80°)	3190.1	9.3			G2/5000
FVH (80°-90°)	79.8	0.2			G1/100
BL (0°-30°)	2938.2	8.5	B4/5000		
BM (30°-60°)	5988.7	17.4	B4/8500		
BH (60°-80°)	1877.6	5.5	B3/2500		G3/2500
BVH (80°-90°)	108.3	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-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	6917.3	6917.3	6917.3	6917.3	6917.3	6917.3	6917.3	6917.3	6917.3	6917.3	6917.3
2.5°	6891.0	6877.9	6869.0	6939.3	6913.0	6917.3	6891.0	6917.3	6935.0	6895.4	6952.5
5°	6877.9	6917.3	6882.3	6904.2	6961.3	6943.7	6961.3	7014.0	7000.8	6987.6	6970.1
7.5°	7000.8	7005.2	7031.6	7040.3	7057.9	7040.3	7066.7	7115.0	7101.8	7027.2	7036.0
10°	7176.5	7185.3	7189.7	7238.0	7268.7	7273.1	7242.4	7198.4	7194.0	7295.1	7224.8
12.5°	7378.5	7356.6	7409.3	7426.8	7462.0	7501.5	7541.0	7448.8	7505.9	7510.3	7426.8
15°	7672.8	7694.8	7633.2	7633.2	7646.5	7650.8	7760.6	7716.7	7707.9	7659.6	7694.8
17.5°	8112.0	7962.6	7958.3	7896.8	7888.0	7923.1	7962.6	7997.8	8116.4	8019.7	7830.9
20°	8432.6	8467.8	8340.4	8265.7	8278.9	8358.0	8318.4	8476.5	8560.0	8401.8	8217.4
22.5°	8999.2	8880.6	8911.3	8744.5	8757.6	8841.1	8836.7	8999.2	9047.5	8797.2	8529.2
25°	9381.3	9350.5	9376.9	9245.1	9262.7	9328.6	9434.0	9701.9	9622.8	9346.1	8726.8
27.5°	9939.1	9877.5	9855.6	9807.3	9789.7	9965.4	10088.4	10373.9	10316.7	9912.7	9078.3
30°	10510.0	10470.5	10492.4	10294.8	10365.0	10738.4	10773.5	11164.4	11138.1	10426.6	9469.1
32.5°	10905.3	10927.2	10966.8	10857.0	11168.8	11467.4	11586.1	12029.6	12051.6	11309.3	10224.6
35°	11542.1	11467.4	11489.4	11616.8	11761.8	12306.3	12499.6	12793.8	12978.3	12236.1	10949.2
37.5°	11941.8	12020.9	11928.6	12130.6	12508.3	13162.8	13338.5	13641.5	13834.7	13149.6	11937.4
40°	12565.4	12438.1	12504.0	12648.9	13035.4	13887.4	13839.1	14151.0	14212.5	13927.0	12859.8
42.5°	13237.4	13175.9	13083.7	13413.1	13738.1	14357.4	14454.0	14309.1	14620.9	14686.8	14177.3
45°	14041.1	14115.8	14129.0	14137.8	14423.3	14963.5	14831.7	14704.3	15064.5	15543.3	14994.2
47.5°	14787.8	14550.6	14721.9	14959.1	15363.2	15367.5	15521.3	15218.2	15600.3	16026.4	15732.1
50°	15038.1	14924.0	15152.3	15600.3	16224.0	16289.8	16307.5	15877.0	16074.7	16412.9	15986.8
52.5°	14941.5	14902.0	15486.1	16180.1	17093.6	17427.4	17515.2	16983.8	17093.6	16939.9	16549.0
55°	14480.3	14599.0	15187.5	16601.7	18002.7	19034.9	19201.7	18529.8	17831.4	17950.0	17519.6
56°	13847.9	13641.5	14300.3	16123.0	17963.2	19557.5	19693.6	18854.8	18380.5	18226.8	17510.9
57.5°	11748.5	11480.7	12345.9	14506.7	16966.2	19359.8	19460.8	18991.0	18288.2	17976.3	16232.8
60°	6877.9	7009.6	8107.6	10004.9	13088.1	15872.6	16210.8	16553.4	16083.4	14686.8	12082.3
62.5°	3320.3	3236.9	4023.1	5735.9	7975.9	10132.3	10031.2	10993.2	11520.2	10435.4	7628.8
65°	1739.2	1730.4	2196.0	3131.5	4383.2	5323.1	5415.3	5933.6	6658.2	5375.8	3873.7
67.5°	1278.1	1313.2	1546.0	2200.4	2819.7	2876.7	2863.6	3122.7	3193.0	2701.0	2380.5
70°	1001.4	1018.9	1190.2	1673.3	2099.4	1879.7	1840.2	1871.0	2077.4	2165.2	2059.8
72.5°	724.7	742.3	887.2	1128.8	1313.2	1282.5	1308.8	1480.1	1734.8	1827.1	1717.3
75°	483.1	496.3	575.3	689.5	777.4	838.9	887.2	1084.8	1322.0	1374.7	1322.0
77.5°	333.8	346.9	399.6	487.5	496.3	535.8	553.4	645.6	790.6	856.4	821.3
80°	188.9	188.9	215.2	250.3	307.4	360.2	368.9	443.6	509.5	553.4	562.2
82.5°	87.9	92.2	114.2	153.7	202.0	250.3	259.1	307.4	355.7	399.6	412.9
85°	43.9	48.3	65.9	92.2	123.0	149.3	144.9	149.3	158.1	149.3	153.7
87.5°	13.2	13.2	17.5	21.9	17.5	21.9	21.9	26.4	30.8	35.2	39.5
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°	6917.3	6917.3	6917.3	6917.3	6917.3	6917.3	6917.3	6917.3	6917.3	6917.3	6917.3
2.5°	6956.9	6970.1	6882.3	6965.6	6935.0	6930.6	6992.0	6983.3	7005.2	6996.4	6943.7
5°	6961.3	6930.6	7022.8	6939.3	6978.9	7062.3	7005.2	7137.0	7071.1	7115.0	7018.4
7.5°	7097.4	7106.2	7088.7	7123.8	7106.2	7145.7	7115.0	7145.7	7093.0	7097.4	7185.3
10°	7216.0	7189.7	7220.4	7176.5	7207.3	7194.0	7123.8	7101.8	7119.4	7097.4	7154.5
12.5°	7435.6	7387.3	7365.4	7312.7	7277.5	7145.7	7036.0	6974.5	7057.9	7071.1	7044.7
15°	7659.6	7664.0	7563.0	7444.4	7224.8	7027.2	7053.5	7075.5	7075.5	7110.7	7044.7
17.5°	7800.2	7800.2	7707.9	7470.8	7246.7	7132.6	7106.2	7036.0	6974.5	6965.6	6961.3
20°	8046.1	7971.4	7760.6	7466.4	7238.0	7185.3	6987.6	6820.7	6693.4	6649.5	6645.1
22.5°	8327.2	8138.3	7844.1	7475.1	7224.8	7150.1	6781.2	6530.8	6302.5	6205.9	6219.1
25°	8586.3	8283.3	7892.4	7435.6	7176.5	6816.3	6403.5	6056.5	5819.4	5740.3	5700.8
27.5°	8766.4	8437.0	7892.4	7470.8	6996.4	6443.1	6021.4	5577.8	5371.4	5318.7	5327.5
30°	9007.9	8630.2	8028.6	7396.1	6636.3	5959.9	5454.8	5165.0	5042.0	4998.0	5028.8
32.5°	9574.5	9135.3	8217.4	7216.0	6210.3	5476.8	5068.4	4905.8	4725.8	4637.9	4607.2
35°	10189.4	9614.1	8401.8	6913.0	5731.6	5037.6	4782.9	4633.6	4418.3	4321.7	4339.3
37.5°	11059.0	10229.0	8415.1	6412.3	5213.3	4791.6	4558.9	4326.1	4150.4	4001.1	3957.2
40°	12231.6	11067.8	8384.3	5885.3	4796.0	4501.8	4330.5	4040.6	3843.0	3737.6	3759.6
42.5°	13263.8	12051.6	8256.9	5287.9	4418.3	4304.2	4110.9	3825.4	3632.2	3522.4	3513.6
45°	14133.4	12776.3	8015.3	4778.5	4102.1	4084.5	3860.6	3641.0	3487.2	3386.2	3430.2
47.5°	14937.1	13360.4	7650.8	4269.0	3812.3	3847.3	3632.2	3496.0	3399.4	3307.2	3302.8
50°	15227.0	13351.6	7330.2	3847.3	3579.5	3561.9	3553.1	3408.2	3307.2	3228.1	3263.2
52.5°	15710.1	13501.0	6983.3	3557.5	3368.6	3373.0	3403.8	3298.4	3184.2	3135.8	3179.8
55°	16404.1	13522.9	6219.1	3219.3	3193.0	3223.7	3223.7	3153.5	3056.8	3017.3	2995.4
56°	15837.5	12868.5	5577.8	3131.5	3105.1	3105.1	3188.6	3109.5	2990.9	2960.2	2933.8
57.5°	14607.7	11274.2	4668.7	3026.1	2986.5	3048.1	3092.0	3008.5	2898.7	2854.8	2881.1
60°	10075.2	7628.8	3509.2	2797.7	2797.7	2898.7	2933.8	2810.9	2762.6	2758.2	2723.0
62.5°	5880.9	4444.7	2745.0	2591.3	2600.0	2683.5	2709.9	2639.6	2578.1	2652.7	2687.9
65°	3118.3	2652.7	2354.1	2371.7	2376.1	2441.9	2556.1	2551.7	2547.3	2569.3	2573.7
67.5°	2257.5	2204.8	2138.9	2121.3	2130.1	2178.4	2292.6	2380.5	2376.1	2323.4	2283.9
70°	2011.5	1936.8	1897.4	1901.8	1866.6	1923.7	2015.9	2073.0	1972.0	1910.5	1884.1
72.5°	1673.3	1651.3	1625.0	1629.4	1559.2	1546.0	1440.6	1440.6	1414.3	1396.6	1427.4
75°	1278.1	1269.3	1282.5	1260.5	1185.9	1106.8	1045.3	988.2	900.4	865.2	847.7
77.5°	808.1	834.4	865.2	816.9	786.1	729.1	667.6	610.5	540.2	500.7	500.7
80°	549.0	571.0	592.9	584.1	549.0	496.3	448.0	386.5	338.2	307.4	303.0
82.5°	417.3	434.8	465.6	430.4	395.3	351.3	311.9	267.9	224.0	188.9	188.9
85°	149.3	171.3	188.9	206.4	219.6	224.0	193.2	158.1	127.4	101.0	96.6
87.5°	39.5	43.9	48.3	43.9	43.9	43.9	48.3	43.9	39.5	30.8	30.8
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)