

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: P531390

Luminaire Tested: **GALN-SA6C-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531390
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-SA6C-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA 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: 28245 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

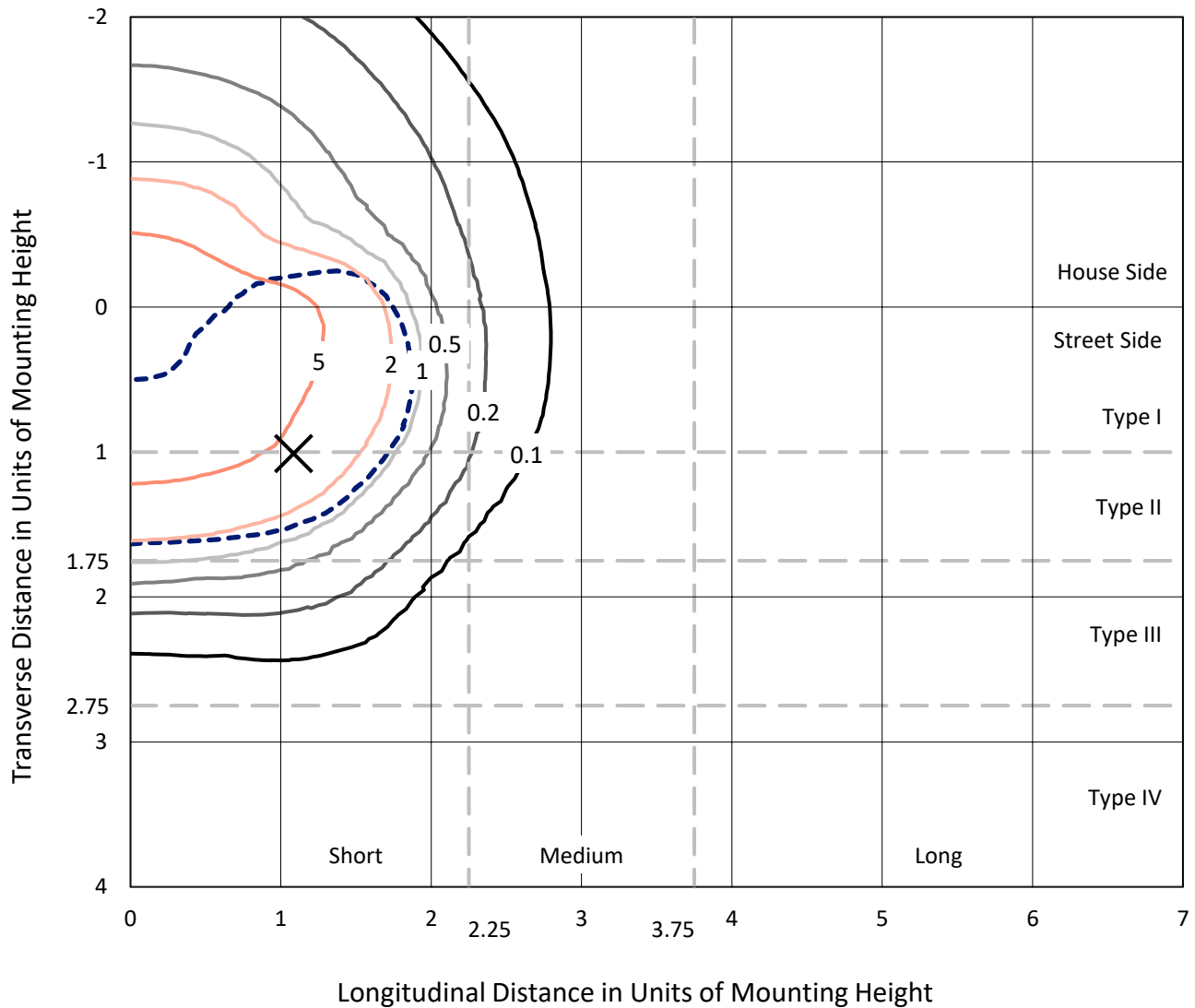
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531390
 CATALOG NUMBER: GALN-SA6C-830-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

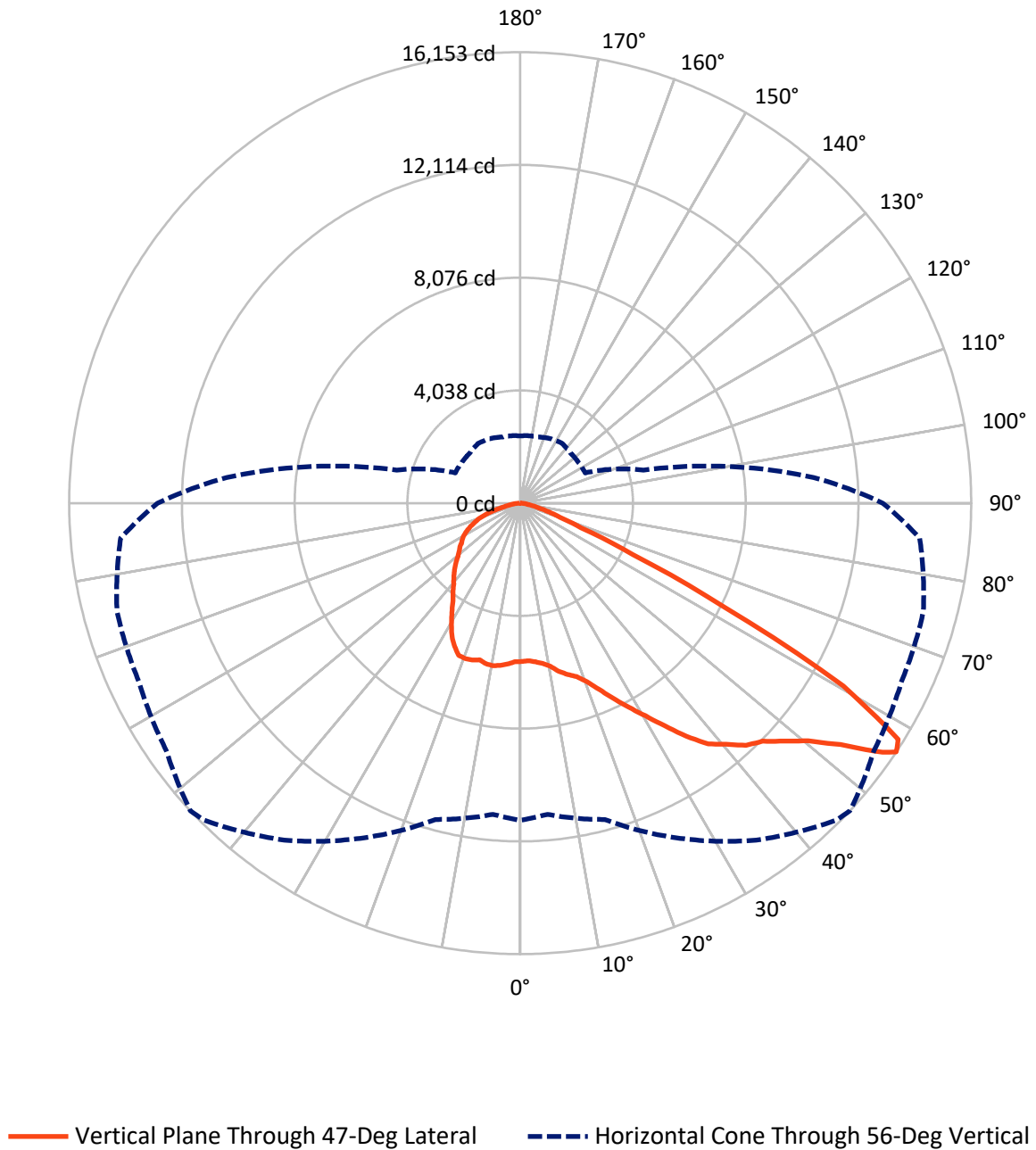
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

REPORT NUMBER: P531390
CATALOG NUMBER: GALN-SA6C-830-U-T3-GRSWH

Luminous Intensity Polar Plot



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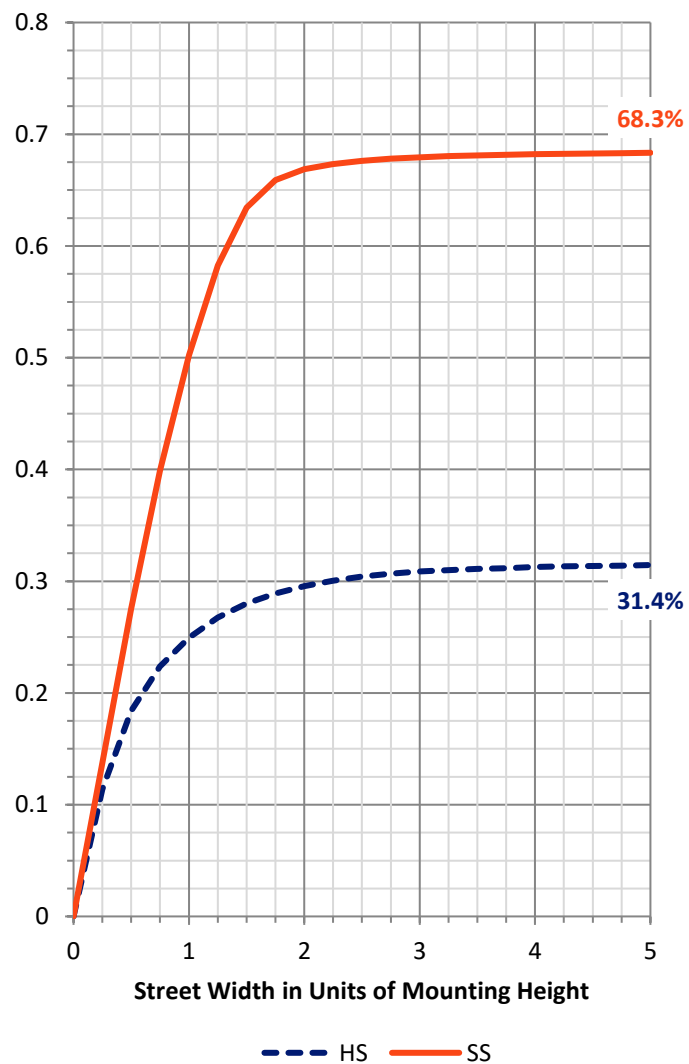
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8950.5	0.0	8950.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	19294.5	0.0	19294.5
	% Fixture	68.3	0.0	68.3
Total	Lumens	28245.0	0.0	28245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.8	2.0
10°-20°	1743.8	6.2
20°-30°	3082.7	10.9
30°-40°	4630.1	16.4
40°-50°	6354.4	22.5
50°-60°	7570.4	26.8
60°-70°	3239.7	11.5
70°-80°	916.8	3.2
80°-90°	154.3	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°	28245.0	100.0
0°-180°	28245.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531390

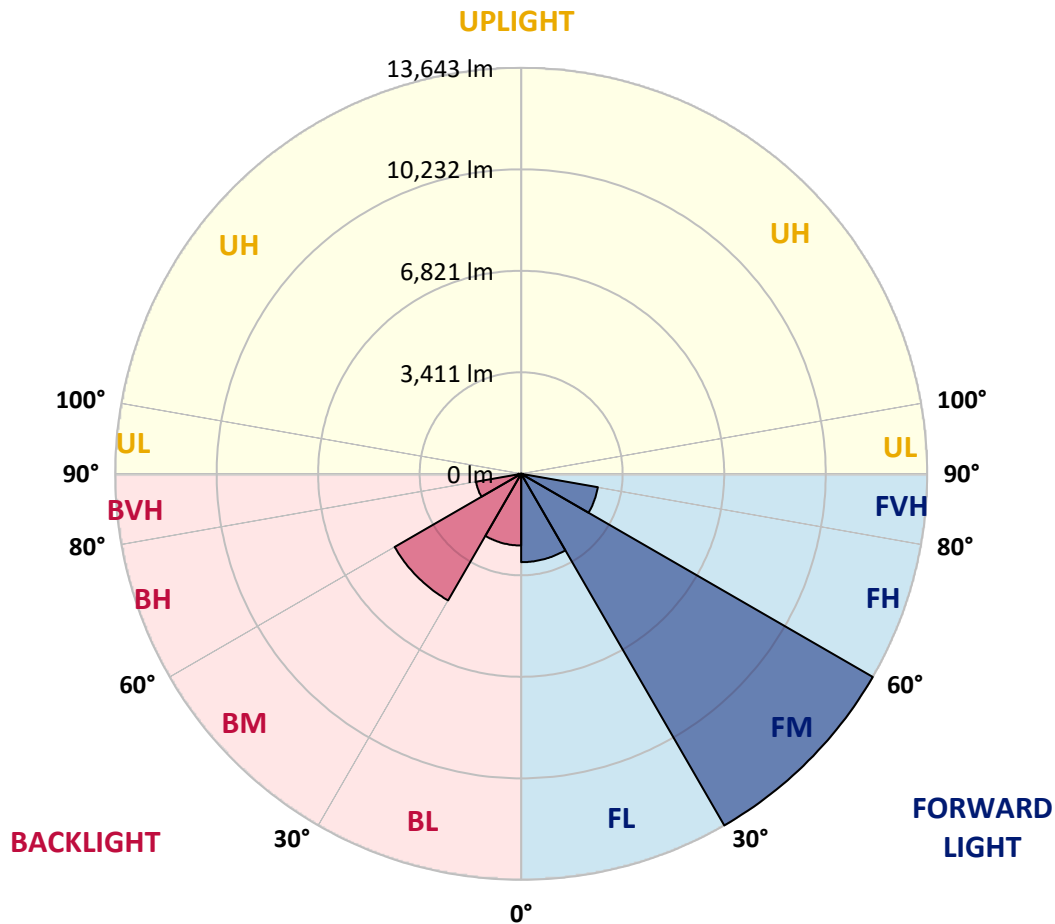
CATALOG NUMBER: GALN-SA6C-830-U-T3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2969.5	10.5			
FM	(30°-60°)	13643.0	48.3			
FH	(60°-80°)	2616.5	9.3			G2/5000
FVH	(80°-90°)	65.5	0.2			G1/100
BL	(0°-30°)	2409.8	8.5	B3/2500		
BM	(30°-60°)	4911.9	17.4	B3/5000		
BH	(60°-80°)	1540.0	5.5	B3/2500		G3/2500
BVH	(80°-90°)	88.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



REPORT NUMBER: P531390

CATALOG NUMBER: GALN-SA6C-830-U-T3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5673.6	5673.6	5673.6	5673.6	5673.6	5673.6	5673.6	5673.6	5673.6	5673.6	5673.6
2.5°	5651.9	5641.1	5633.9	5691.6	5670.0	5673.6	5651.9	5673.6	5688.0	5655.6	5702.4
5°	5641.1	5673.6	5644.7	5662.8	5709.6	5695.2	5709.6	5752.8	5742.0	5731.2	5716.8
7.5°	5742.0	5745.6	5767.2	5774.4	5788.8	5774.4	5796.0	5835.7	5824.9	5763.6	5770.8
10°	5886.1	5893.3	5896.9	5936.5	5961.7	5965.3	5940.1	5904.1	5900.5	5983.4	5925.7
12.5°	6051.8	6033.8	6077.0	6091.4	6120.2	6152.7	6185.1	6109.4	6156.3	6159.9	6091.4
15°	6293.2	6311.2	6260.7	6260.7	6271.5	6275.1	6365.2	6329.2	6322.0	6282.3	6311.2
17.5°	6653.4	6530.9	6527.3	6476.9	6469.7	6498.5	6530.9	6559.7	6657.0	6577.7	6422.8
20°	6916.3	6945.2	6840.7	6779.5	6790.3	6855.1	6822.7	6952.4	7020.8	6891.1	6739.8
22.5°	7381.0	7283.8	7309.0	7172.1	7182.9	7251.4	7247.8	7381.0	7420.7	7215.3	6995.6
25°	7694.4	7669.2	7690.8	7582.8	7597.2	7651.2	7737.7	7957.4	7892.6	7665.6	7157.7
27.5°	8151.9	8101.5	8083.5	8043.9	8029.4	8173.5	8274.4	8508.5	8461.7	8130.3	7445.9
30°	8620.2	8587.8	8605.8	8443.7	8501.3	8807.5	8836.3	9156.9	9135.3	8551.8	7766.5
32.5°	8944.4	8962.4	8994.8	8904.8	9160.6	9405.5	9502.8	9866.6	9884.6	9275.8	8386.1
35°	9466.7	9405.5	9423.5	9528.0	9646.9	10093.5	10252.0	10493.4	10644.7	10035.9	8980.4
37.5°	9794.5	9859.4	9783.7	9949.4	10259.2	10796.0	10940.1	11188.6	11347.1	10785.2	9790.9
40°	10306.1	10201.6	10255.6	10374.5	10691.5	11390.4	11350.7	11606.5	11656.9	11422.8	10547.4
42.5°	10857.2	10806.8	10731.1	11001.3	11267.9	11775.8	11855.0	11736.2	11991.9	12046.0	11628.1
45°	11516.4	11577.7	11588.5	11595.7	11829.8	12272.9	12164.8	12060.4	12355.8	12748.4	12298.1
47.5°	12128.8	11934.3	12074.8	12269.3	12600.7	12604.3	12730.4	12481.8	12795.2	13144.7	12903.3
50°	12334.1	12240.5	12427.8	12795.2	13306.8	13360.8	13375.2	13022.2	13184.3	13461.7	13112.2
52.5°	12254.9	12222.5	12701.6	13270.7	14020.0	14293.8	14365.8	13929.9	14020.0	13893.9	13573.3
55°	11876.7	11973.9	12456.6	13616.5	14765.7	15612.2	15749.1	15197.9	14625.2	14722.4	14369.4
56°	11357.9	11188.6	11729.0	13223.9	14733.3	16040.9	16152.5	15464.5	15075.5	14949.4	14362.2
57.5°	9636.1	9416.3	10126.0	11898.3	13915.5	15878.8	15961.6	15576.2	14999.8	14744.1	13314.0
60°	5641.1	5749.2	6649.8	8206.0	10734.7	13018.6	13295.9	13576.9	13191.5	12046.0	9909.8
62.5°	2723.3	2654.9	3299.7	4704.6	6541.7	8310.4	8227.6	9016.5	9448.7	8559.0	6257.1
65°	1426.5	1419.3	1801.1	2568.4	3595.1	4365.9	4441.6	4866.7	5461.0	4409.2	3177.2
67.5°	1048.3	1077.1	1268.0	1804.7	2312.7	2359.5	2348.7	2561.2	2618.8	2215.4	1952.4
70°	821.3	835.7	976.2	1372.5	1721.9	1541.8	1509.3	1534.6	1703.9	1775.9	1689.5
72.5°	594.4	608.8	727.7	925.8	1077.1	1051.9	1073.5	1214.0	1422.9	1498.5	1408.5
75°	396.2	407.1	471.9	565.6	637.6	688.0	727.7	889.8	1084.3	1127.5	1084.3
77.5°	273.8	284.6	327.8	399.9	407.1	439.5	453.9	529.5	648.4	702.4	673.6
80°	154.9	154.9	176.5	205.3	252.2	295.4	302.6	363.8	417.9	453.9	461.1
82.5°	72.0	75.6	93.7	126.1	165.7	205.3	212.5	252.2	291.8	327.8	338.6
85°	36.0	39.6	54.0	75.6	100.9	122.5	118.9	122.5	129.7	122.5	126.1
87.5°	10.8	10.8	14.4	18.0	14.4	18.0	18.0	21.6	25.2	28.8	32.4
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: P531390

CATALOG NUMBER: GALN-SA6C-830-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5673.6	5673.6	5673.6	5673.6	5673.6	5673.6	5673.6	5673.6	5673.6	5673.6	5673.6
2.5°	5706.0	5716.8	5644.7	5713.2	5688.0	5684.4	5734.8	5727.6	5745.6	5738.4	5695.2
5°	5709.6	5684.4	5760.0	5691.6	5724.0	5792.4	5745.6	5853.7	5799.6	5835.7	5756.4
7.5°	5821.3	5828.5	5814.1	5842.9	5828.5	5860.9	5835.7	5860.9	5817.7	5821.3	5893.3
10°	5918.5	5896.9	5922.1	5886.1	5911.3	5900.5	5842.9	5824.9	5839.3	5821.3	5868.1
12.5°	6098.6	6059.0	6041.0	5997.8	5968.9	5860.9	5770.8	5720.4	5788.8	5799.6	5778.0
15°	6282.3	6285.9	6203.1	6105.8	5925.7	5763.6	5785.2	5803.2	5803.2	5832.1	5778.0
17.5°	6397.6	6397.6	6322.0	6127.4	5943.7	5850.1	5828.5	5770.8	5720.4	5713.2	5709.6
20°	6599.3	6538.1	6365.2	6123.8	5936.5	5893.3	5731.2	5594.3	5489.8	5453.8	5450.2
22.5°	6829.9	6675.0	6433.6	6131.0	5925.7	5864.5	5561.9	5356.6	5169.2	5090.0	5100.8
25°	7042.4	6793.9	6473.3	6098.6	5886.1	5590.7	5252.1	4967.5	4773.0	4708.2	4675.7
27.5°	7190.1	6919.9	6473.3	6127.4	5738.4	5284.5	4938.7	4574.9	4405.6	4362.3	4369.5
30°	7388.2	7078.4	6584.9	6066.2	5443.0	4888.3	4474.0	4236.3	4135.4	4099.4	4124.6
32.5°	7852.9	7492.7	6739.8	5918.5	5093.6	4492.0	4157.0	4023.7	3876.0	3804.0	3778.8
35°	8357.2	7885.4	6891.1	5670.0	4701.0	4131.8	3922.9	3800.4	3623.9	3544.6	3559.0
37.5°	9070.5	8389.7	6901.9	5259.3	4275.9	3930.1	3739.1	3548.2	3404.1	3281.7	3245.6
40°	10032.3	9077.7	6876.7	4827.0	3933.7	3692.3	3551.8	3314.1	3152.0	3065.5	3083.5
42.5°	10878.8	9884.6	6772.3	4337.1	3623.9	3530.2	3371.7	3137.6	2979.1	2889.0	2881.8
45°	11592.1	10479.0	6574.1	3919.3	3364.5	3350.1	3166.4	2986.3	2860.2	2777.3	2813.4
47.5°	12251.3	10958.1	6275.1	3501.4	3126.8	3155.6	2979.1	2867.4	2788.2	2712.5	2708.9
50°	12489.0	10950.9	6012.2	3155.6	2935.8	2921.4	2914.2	2795.4	2712.5	2647.7	2676.5
52.5°	12885.3	11073.4	5727.6	2917.8	2762.9	2766.5	2791.8	2705.3	2611.6	2572.0	2608.0
55°	13454.4	11091.4	5100.8	2640.5	2618.8	2644.1	2644.1	2586.4	2507.2	2474.8	2456.7
56°	12989.8	10554.6	4574.9	2568.4	2546.8	2546.8	2615.2	2550.4	2453.1	2427.9	2406.3
57.5°	11981.1	9247.0	3829.2	2482.0	2449.5	2500.0	2536.0	2467.5	2377.5	2341.5	2363.1
60°	8263.6	6257.1	2878.2	2294.6	2294.6	2377.5	2406.3	2305.4	2265.8	2262.2	2233.4
62.5°	4823.4	3645.5	2251.4	2125.3	2132.5	2201.0	2222.6	2165.0	2114.5	2175.8	2204.6
65°	2557.6	2175.8	1930.8	1945.2	1948.8	2002.9	2096.5	2092.9	2089.3	2107.3	2110.9
67.5°	1851.6	1808.3	1754.3	1739.9	1747.1	1786.7	1880.4	1952.4	1948.8	1905.6	1873.2
70°	1649.8	1588.6	1556.2	1559.8	1531.0	1577.8	1653.4	1700.3	1617.4	1567.0	1545.4
72.5°	1372.5	1354.5	1332.8	1336.4	1278.8	1268.0	1181.5	1181.5	1159.9	1145.5	1170.7
75°	1048.3	1041.1	1051.9	1033.8	972.6	907.8	857.3	810.5	738.5	709.6	695.2
77.5°	662.8	684.4	709.6	670.0	644.8	598.0	547.5	500.7	443.1	410.7	410.7
80°	450.3	468.3	486.3	479.1	450.3	407.1	367.4	317.0	277.4	252.2	248.6
82.5°	342.2	356.6	381.8	353.0	324.2	288.2	255.8	219.7	183.7	154.9	154.9
85°	122.5	140.5	154.9	169.3	180.1	183.7	158.5	129.7	104.5	82.9	79.2
87.5°	32.4	36.0	39.6	36.0	36.0	36.0	39.6	36.0	32.4	25.2	25.2
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)