

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: P648075

Luminaire Tested: **GALN-SA7A-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24885.3 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

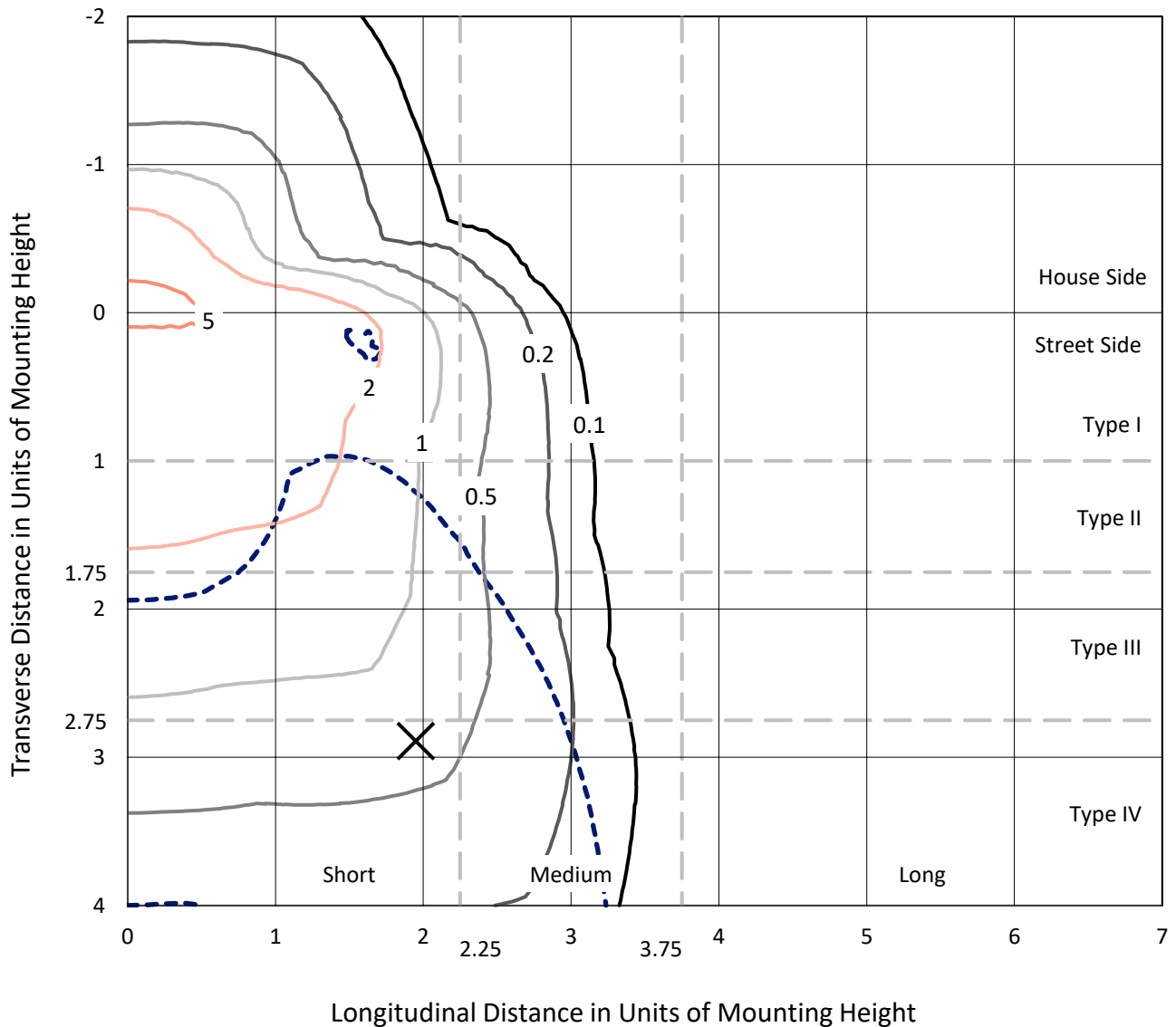
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA7A-835-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

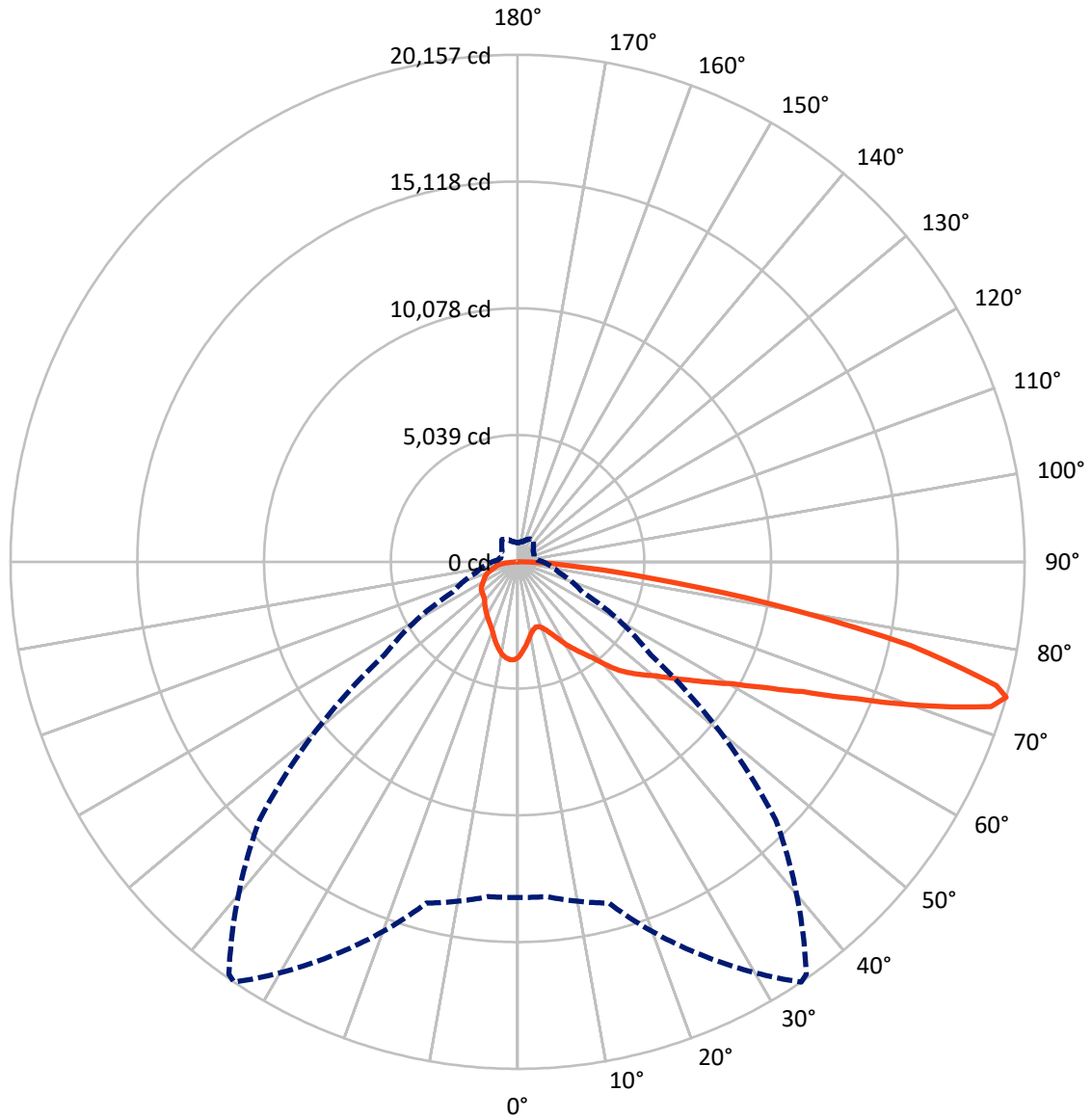
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

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CATALOG NUMBER: GALN-SA7A-835-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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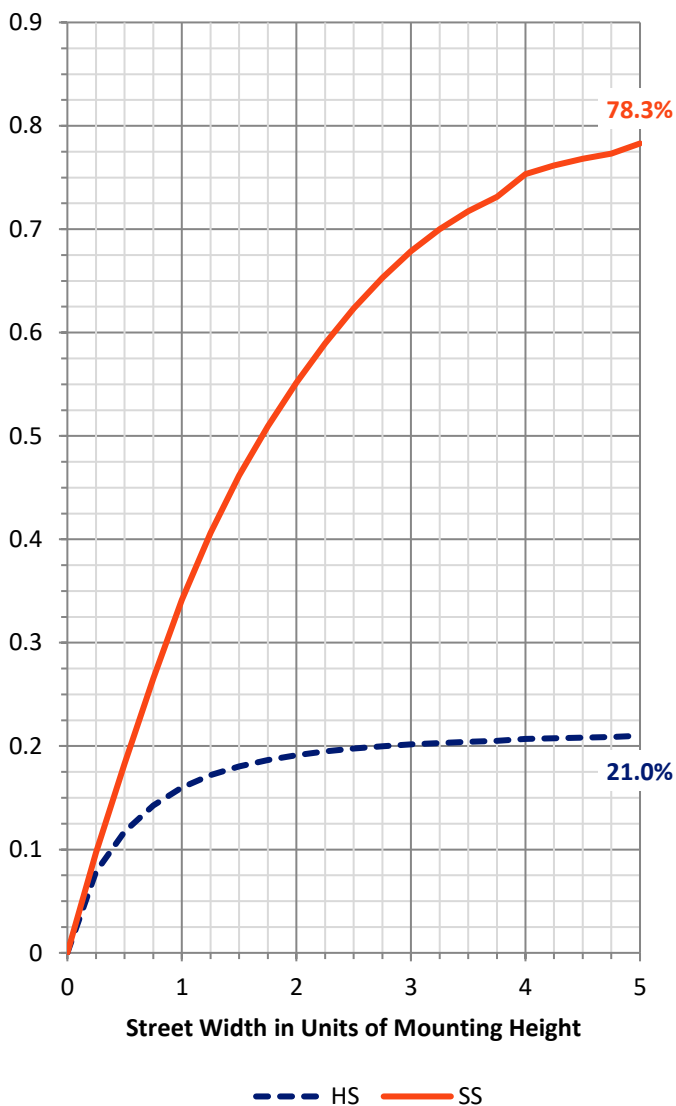
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5295.8	0.0	5295.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	19589.5	0.0	19589.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	24885.3	0.0	24885.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.6	1.4
10°-20°	945.9	3.8
20°-30°	1559.6	6.3
30°-40°	2336.1	9.4
40°-50°	3396.0	13.6
50°-60°	4743.4	19.1
60°-70°	5938.5	23.9
70°-80°	4910.7	19.7
80°-90°	709.5	2.9
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°	24885.3	100.0
0°-180°	24885.3	100.0

Coefficient of Utilization

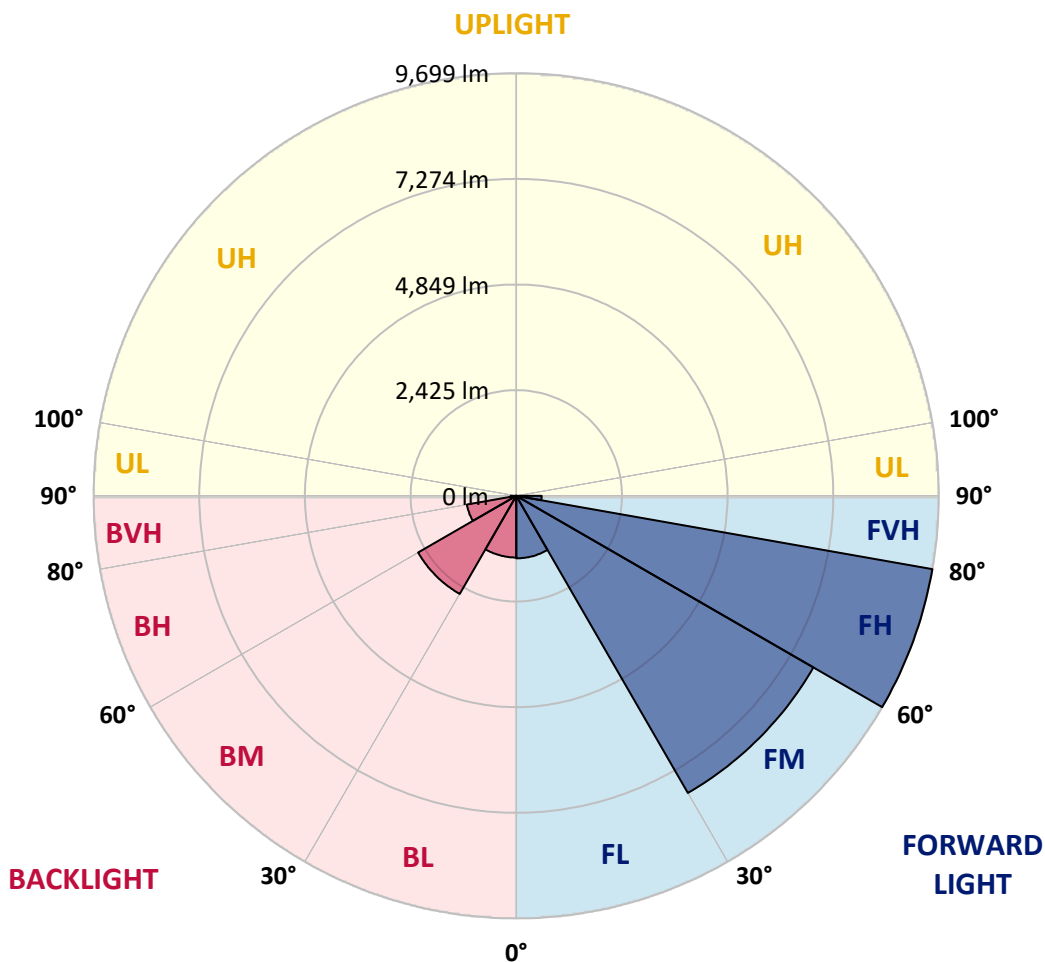


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1434.5	5.8			
FM (30°-60°)	7874.7	31.6			
FH (60°-80°)	9699.0	39.0			G4/12000
FVH (80°-90°)	581.3	2.3			G4/750
BL (0°-30°)	1416.5	5.7	B3/2500		
BM (30°-60°)	2600.8	10.5	B3/5000		
BH (60°-80°)	1150.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	128.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5
2.5°	3511.4	3529.3	3538.9	3573.4	3581.7	3592.7	3621.7	3660.3	3709.9	3754.0	3792.6
5°	3219.1	3246.6	3263.2	3293.5	3352.8	3358.4	3435.6	3523.7	3624.4	3718.2	3795.4
7.5°	2942.0	2972.3	2986.1	3041.3	3119.9	3132.2	3245.3	3384.5	3552.7	3694.7	3813.3
10°	2733.8	2749.0	2779.3	2820.7	2914.4	2922.7	3070.2	3256.3	3474.2	3683.7	3843.6
12.5°	2620.8	2629.1	2636.0	2680.1	2772.4	2784.8	2939.2	3150.2	3412.1	3691.9	3893.2
15°	2637.3	2640.0	2609.7	2618.0	2692.4	2710.4	2863.4	3079.9	3373.5	3712.7	3967.7
17.5°	2776.5	2766.9	2692.4	2653.8	2706.2	2714.5	2848.2	3052.3	3355.5	3751.3	4044.9
20°	2995.8	2982.0	2853.7	2768.3	2798.6	2805.5	2897.9	3073.0	3373.5	3814.7	4164.9
22.5°	3268.7	3263.2	3068.8	2965.5	2964.0	2964.0	3012.3	3147.4	3427.3	3901.5	4290.3
25°	3650.6	3621.7	3368.0	3234.3	3197.1	3194.2	3188.8	3270.1	3496.2	3993.8	4439.1
27.5°	4042.2	3992.5	3766.4	3561.0	3481.1	3471.4	3435.6	3443.8	3584.4	4098.7	4608.7
30°	4393.6	4361.9	4149.7	3922.2	3827.1	3805.0	3705.8	3660.3	3731.9	4287.6	4879.0
32.5°	4662.5	4643.2	4477.7	4271.0	4130.4	4126.3	3981.5	3944.3	3962.1	4516.3	5187.8
35°	4880.4	4887.3	4803.2	4623.9	4462.6	4439.1	4342.7	4295.8	4243.4	4847.2	5576.5
37.5°	5178.1	5193.2	5187.8	5033.4	4836.2	4841.8	4819.7	4742.5	4603.3	5216.7	6008.0
40°	5506.2	5517.3	5515.9	5456.6	5353.2	5358.7	5350.5	5262.2	5054.0	5686.9	6487.8
42.5°	5959.8	5907.4	5770.9	5830.2	5890.9	5917.1	5973.6	5889.5	5604.1	6188.7	6938.6
45°	6467.1	6367.9	6059.1	6086.7	6311.4	6361.0	6672.6	6556.8	6201.0	6764.9	7469.4
47.5°	6787.0	6689.1	6428.5	6423.0	6720.8	6769.0	7320.5	7277.8	6744.2	7386.7	8117.4
50°	7072.4	7058.6	6764.9	6835.2	7126.1	7197.8	8026.4	7986.4	7286.0	8120.1	8823.2
52.5°	7495.6	7383.9	7149.6	7294.3	7679.0	7772.7	8726.7	8609.6	7783.7	8768.0	9508.4
55°	7685.8	7659.6	7645.8	7771.4	8299.3	8366.9	9407.7	9138.9	8208.3	9316.8	10029.5
57.5°	8194.6	8146.3	8282.8	8368.2	9030.0	9133.4	10119.1	9691.7	8580.6	9752.4	10283.1
60°	8853.5	8827.3	8952.8	9107.2	9846.1	10003.3	10929.7	10163.3	8879.8	9971.6	10143.9
62.5°	9837.8	9835.1	9811.7	10142.6	11002.8	11147.6	11860.3	10622.3	8926.6	9807.5	9424.3
65°	11249.6	11200.0	10995.9	11357.1	12442.1	12611.7	12829.5	10878.8	8644.0	8965.2	7935.4
67.5°	12726.1	12723.4	12557.9	13026.6	14508.7	14683.8	14041.3	10822.2	7859.5	7262.6	5635.8
70°	13950.3	13891.0	14102.0	15351.0	17148.7	17351.4	15101.5	10156.4	6260.3	4796.3	3348.7
72.5°	14243.9	14246.7	14685.2	17143.2	19684.0	19715.7	15483.4	8231.8	4189.7	2645.6	1675.0
74°	13339.6	13363.0	14042.7	17232.8	20156.9	20013.5	14507.3	6469.9	2833.1	1727.5	1207.7
75°	12176.0	12028.5	13011.5	16635.9	19666.1	19511.7	13364.4	5191.9	2161.7	1380.0	1057.4
77.5°	6509.9	6660.1	8176.6	12414.5	15976.9	15799.1	9061.7	2489.8	1167.7	960.9	761.0
80°	2317.4	2555.9	3592.7	6496.1	10243.2	10298.3	4324.7	1141.5	821.7	708.6	537.7
82.5°	945.7	971.9	1542.7	2882.7	5201.5	5251.2	1766.1	678.3	587.3	488.0	321.2
85°	369.5	380.5	682.4	1295.9	2219.6	2364.3	610.7	358.5	361.2	279.8	164.0
87.5°	124.1	140.6	279.8	431.5	754.1	738.9	177.8	106.2	129.6	121.3	51.0
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°	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5
2.5°	3811.9	3838.1	3856.0	3875.3	3893.2	3898.8	3894.6	3907.0	3908.4	3909.8	3911.2
5°	3834.0	3869.8	3904.3	3923.5	3931.8	3924.9	3901.5	3889.1	3878.0	3869.8	3872.6
7.5°	3864.3	3915.3	3947.0	3955.2	3933.2	3901.5	3843.6	3798.1	3769.1	3749.9	3748.5
10°	3911.2	3960.8	3987.0	3963.5	3902.9	3825.7	3734.7	3649.2	3584.4	3565.2	3563.7
12.5°	3970.4	4027.0	4025.6	3956.7	3850.5	3712.7	3565.2	3465.9	3377.6	3333.5	3351.5
15°	4047.6	4090.4	4050.4	3926.4	3758.2	3569.2	3387.3	3252.2	3152.9	3106.1	3108.8
17.5°	4137.3	4174.5	4068.3	3872.6	3628.6	3385.9	3175.0	3046.7	2968.2	2933.7	2930.9
20°	4248.9	4260.0	4068.3	3778.8	3461.7	3172.2	2970.9	2881.4	2837.2	2819.3	2824.8
22.5°	4368.9	4346.8	4046.2	3646.4	3242.6	2948.9	2813.8	2773.8	2751.8	2749.0	2751.8
25°	4504.0	4442.0	4000.7	3467.3	3013.7	2755.8	2677.3	2684.2	2688.4	2688.4	2698.0
27.5°	4669.4	4545.3	3924.9	3241.2	2746.2	2576.6	2554.6	2602.8	2624.9	2629.1	2636.0
30°	4887.3	4658.4	3799.5	2958.6	2518.8	2415.3	2453.9	2518.8	2543.6	2558.8	2555.9
32.5°	5146.4	4782.5	3629.9	2675.9	2335.4	2302.3	2349.2	2415.3	2443.0	2451.2	2440.1
35°	5451.1	4923.1	3406.6	2411.2	2175.5	2194.7	2250.0	2270.6	2295.4	2295.4	2300.9
37.5°	5779.2	5036.1	3133.6	2168.6	2051.4	2121.7	2161.7	2142.4	2131.3	2117.5	2124.4
40°	6112.8	5120.2	2779.3	1928.7	1927.4	2045.9	2056.9	2001.7	1957.7	1943.9	1937.0
42.5°	6403.7	5172.6	2459.5	1742.6	1810.1	1971.4	1979.7	1891.5	1821.2	1779.8	1766.1
45°	6747.0	5233.3	2146.5	1588.2	1701.2	1912.2	1932.8	1814.3	1710.9	1624.0	1601.9
47.5°	7217.1	5371.1	1899.7	1468.2	1622.6	1874.9	1903.9	1750.9	1614.4	1501.3	1483.4
50°	7747.9	5560.0	1708.1	1386.9	1562.0	1841.9	1877.7	1686.0	1524.7	1399.3	1385.5
52.5°	8234.5	5662.0	1542.7	1313.8	1502.7	1781.2	1843.3	1639.2	1436.5	1297.3	1284.9
55°	8500.6	5496.6	1380.0	1242.2	1421.4	1702.6	1794.9	1574.4	1351.1	1243.5	1225.6
57.5°	8536.4	5154.6	1232.5	1164.9	1335.9	1606.1	1705.4	1495.8	1295.9	1206.3	1191.1
60°	8259.3	4644.6	1118.0	1101.5	1249.0	1497.2	1604.8	1426.9	1239.4	1164.9	1149.8
62.5°	7570.0	4090.4	1038.1	1043.6	1160.8	1382.8	1530.3	1360.7	1185.6	1119.5	1105.7
65°	6384.4	3376.2	960.9	984.3	1082.2	1293.1	1462.7	1305.6	1131.8	1085.0	1072.6
67.5°	4435.1	2437.4	897.5	922.3	1007.8	1202.1	1384.1	1246.3	1071.2	1046.4	1027.1
70°	2455.3	1499.9	823.0	852.0	930.6	1100.1	1295.9	1156.6	983.0	971.9	944.4
72.5°	1290.4	955.4	738.9	770.6	825.8	969.2	1160.8	1058.8	896.1	849.2	813.4
74°	1007.8	783.1	682.4	715.5	752.7	892.0	1080.9	988.5	834.1	778.9	751.4
75°	878.2	697.6	634.2	676.9	710.0	839.6	1018.8	938.8	799.6	747.2	722.4
77.5°	620.4	522.5	518.3	569.4	587.3	736.2	918.1	854.7	712.8	657.6	634.2
80°	435.7	391.5	410.8	442.6	467.4	650.7	852.0	738.9	584.5	519.8	511.5
82.5°	284.0	256.4	293.6	322.6	330.9	479.7	687.9	561.1	426.0	346.0	321.2
85°	131.0	128.2	168.2	164.0	162.7	234.4	408.1	328.1	245.4	183.4	172.3
87.5°	33.1	31.7	41.3	34.5	41.3	35.9	37.2	9.6	1.4	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)