

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: P651977

Luminaire Tested: **GALN-SA6A-840-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651977  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-840-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23338.6 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

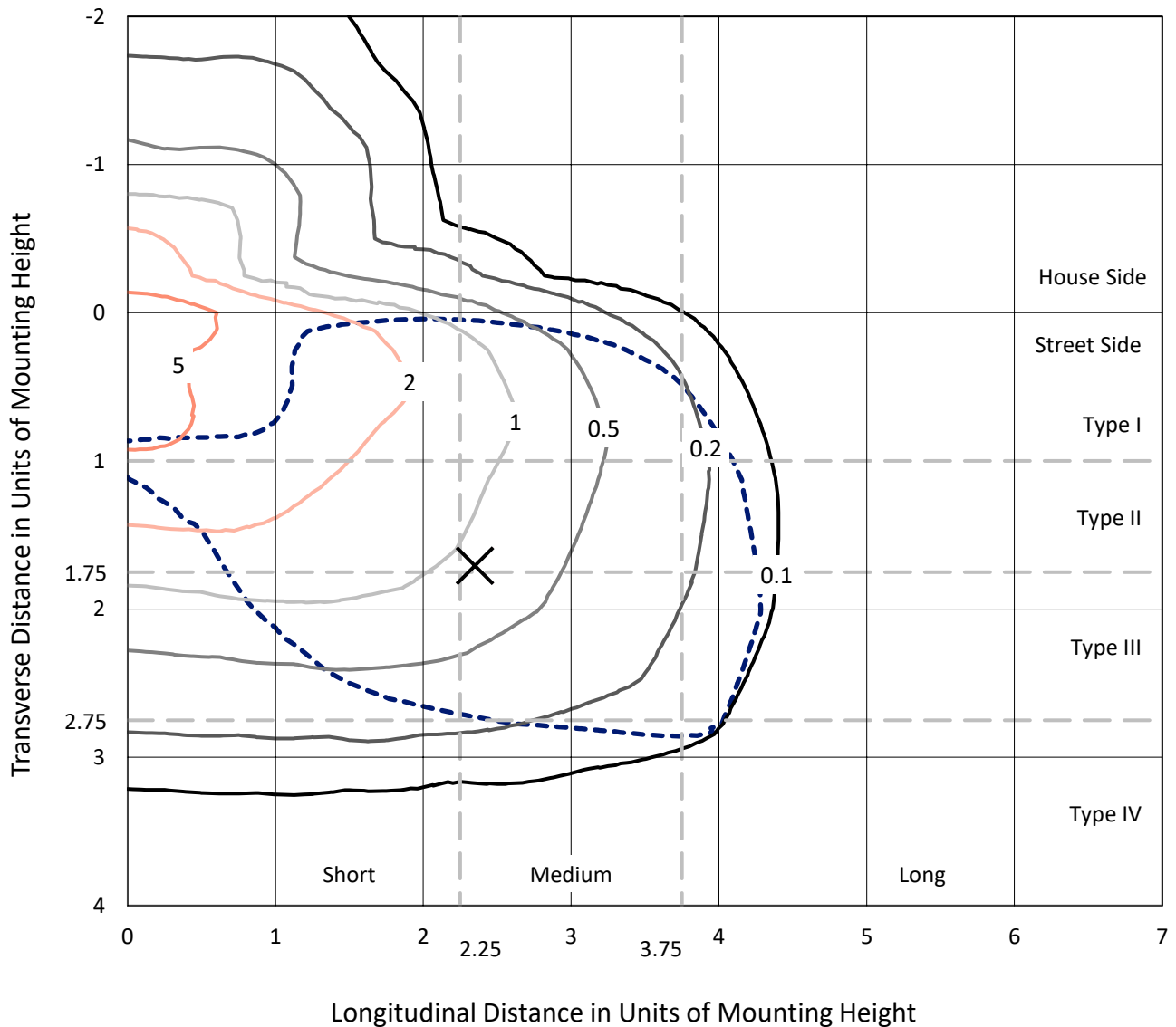
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

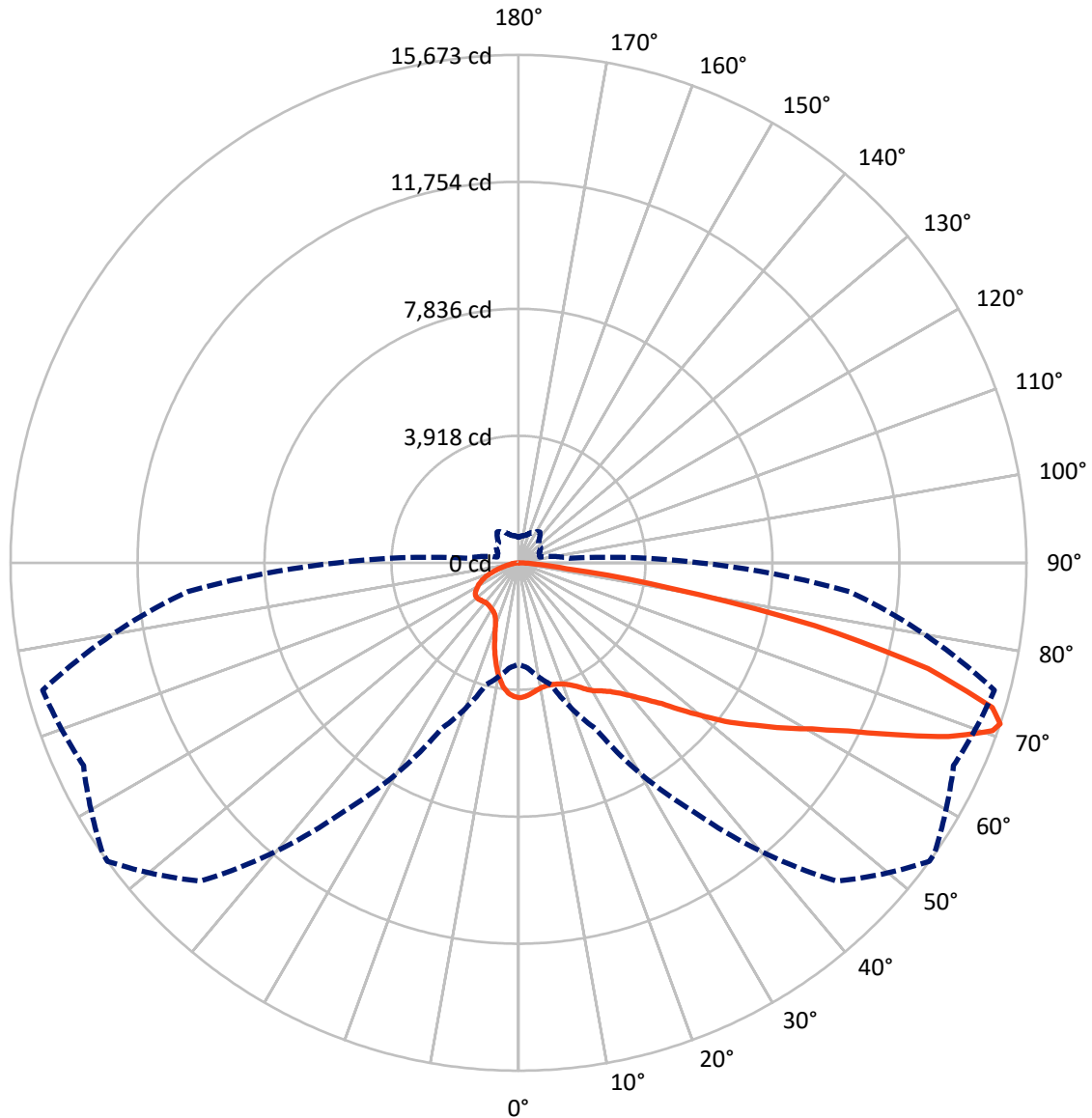
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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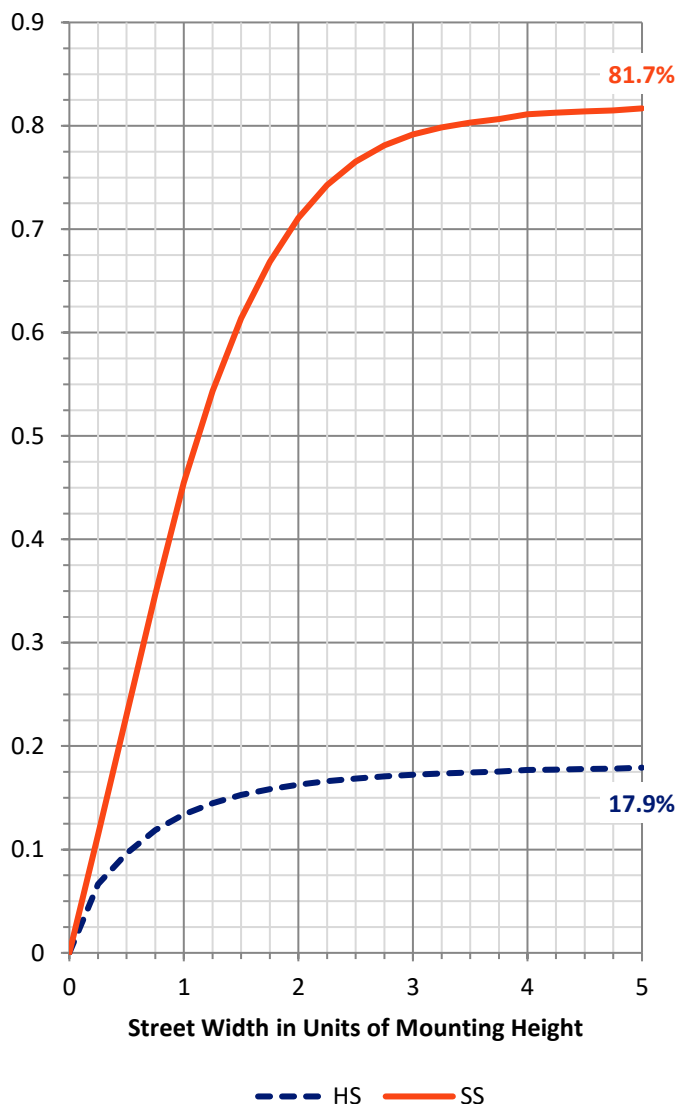
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4213.6	0.0	4213.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	19125.0	0.0	19125.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	23338.6	0.0	23338.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	371.1	1.6
10°-20°	979.8	4.2
20°-30°	1631.4	7.0
30°-40°	2412.4	10.3
40°-50°	3397.9	14.6
50°-60°	4549.9	19.5
60°-70°	5734.8	24.6
70°-80°	3916.9	16.8
80°-90°	344.5	1.5
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°	23338.6	100.0
0°-180°	23338.6	100.0

**Coefficient of Utilization**

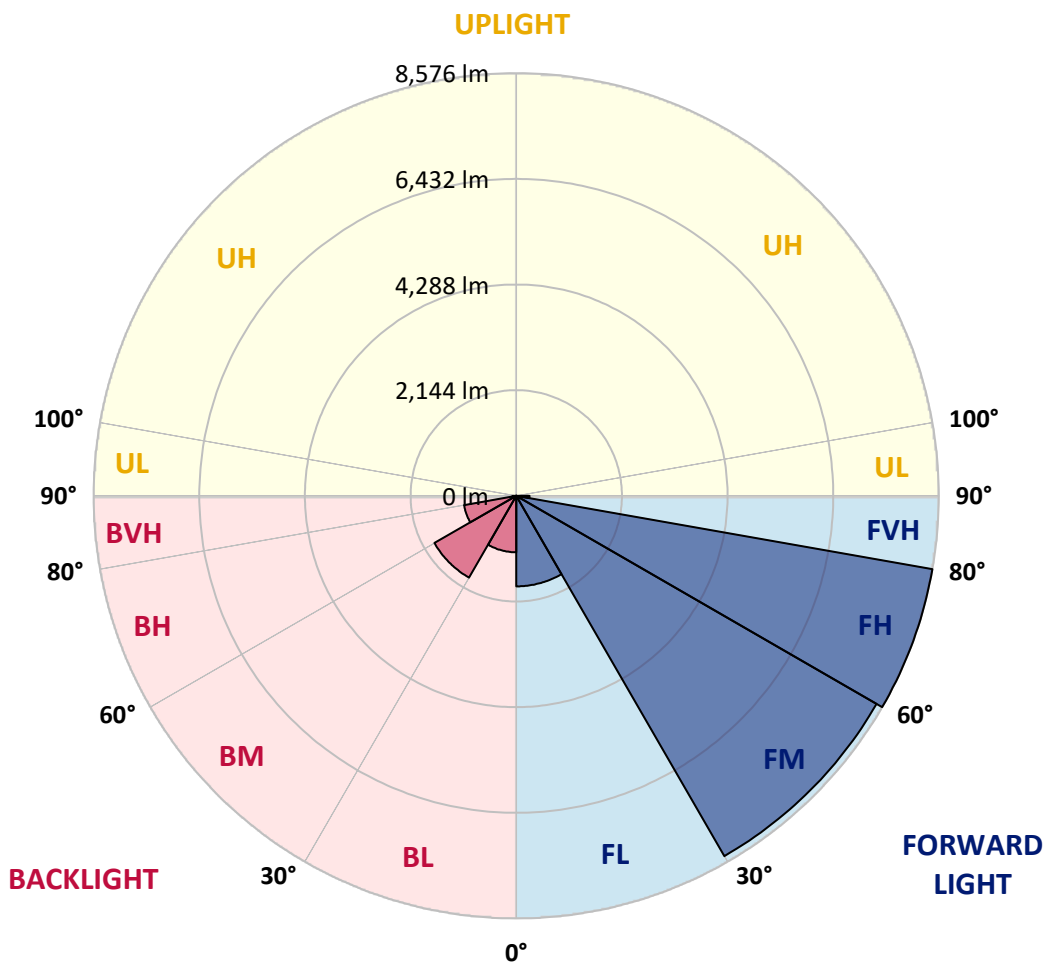


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1837.1	7.9			
FM (30°-60°)	8443.1	36.2			
FH (60°-80°)	8575.5	36.7			G4/12000
FVH (80°-90°)	269.3	1.2			G3/500
BL (0°-30°)	1145.2	4.9	B3/2500		
BM (30°-60°)	1917.1	8.2	B2/2500		
BH (60°-80°)	1076.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	75.2	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-G4**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4164.0	4164.0	4164.0	4164.0	4164.0	4164.0	4164.0	4164.0	4164.0	4164.0	4164.0
2.5°	4022.8	4041.7	4046.7	4059.3	4085.8	4107.2	4128.6	4126.1	4156.4	4169.0	4180.4
5°	3843.7	3848.8	3867.7	3892.9	3939.6	3998.8	4056.8	4058.1	4132.4	4191.7	4220.6
7.5°	3712.6	3729.0	3741.6	3768.1	3817.3	3881.6	3973.6	3981.1	4113.5	4230.7	4292.5
10°	3626.9	3645.8	3659.7	3692.5	3741.6	3813.5	3913.1	3927.0	4099.6	4292.5	4401.0
12.5°	3548.8	3567.7	3580.3	3623.1	3687.4	3775.7	3887.9	3904.3	4104.7	4364.4	4519.4
15°	3596.6	3611.8	3606.7	3619.3	3662.2	3763.1	3898.0	3914.4	4123.6	4433.8	4636.7
17.5°	3809.7	3822.3	3780.7	3732.8	3712.6	3787.0	3929.5	3947.1	4161.4	4505.6	4756.4
20°	4123.6	4157.7	4066.9	3959.8	3862.6	3872.7	3995.0	4013.9	4214.3	4577.5	4878.7
22.5°	4532.1	4557.3	4446.4	4269.8	4090.8	3998.8	4093.3	4104.7	4293.8	4670.7	5012.4
25°	5012.4	5027.5	4873.7	4646.8	4388.3	4214.3	4228.2	4248.4	4424.9	4776.6	5130.9
27.5°	5478.8	5526.7	5348.9	5071.7	4731.2	4441.3	4413.6	4426.2	4567.4	4835.9	5212.9
30°	6032.2	6028.5	5840.7	5519.1	5083.0	4688.4	4588.8	4586.3	4644.3	4864.8	5272.1
32.5°	6473.5	6525.2	6341.1	5990.6	5485.1	4944.3	4709.9	4704.8	4703.5	4915.3	5360.3
35°	6975.3	6982.7	6813.9	6460.9	5920.1	5265.8	4878.7	4853.5	4824.6	5023.7	5480.0
37.5°	7424.0	7459.3	7304.3	6908.4	6347.4	5599.8	5110.7	5094.3	5006.1	5211.6	5671.7
40°	7774.5	7800.9	7707.7	7330.7	6768.5	5960.4	5405.7	5375.4	5268.3	5519.1	5927.6
42.5°	7889.2	7943.4	7980.0	7794.6	7252.5	6387.7	5768.8	5730.9	5649.0	5985.6	6222.6
45°	7898.0	7983.8	8176.6	8185.5	7739.1	6899.6	6192.4	6165.9	6159.6	6583.2	6637.3
47.5°	7831.2	7918.2	8242.1	8417.4	8172.8	7416.4	6803.8	6762.1	6765.9	7321.9	7102.6
50°	7669.8	7773.2	8166.5	8566.2	8511.9	7953.5	7449.2	7435.4	7513.5	8165.3	7585.4
52.5°	7366.0	7490.8	8088.4	8659.4	8764.1	8416.1	8182.9	8143.8	8341.8	9080.5	8113.5
55°	6525.2	6713.0	7802.2	8711.2	9003.6	8858.7	8843.5	8914.1	9176.3	10079.0	8694.8
57.5°	6086.5	6227.6	7180.7	8720.0	9306.2	9372.9	9615.1	9632.6	10091.6	11139.1	9351.6
60°	5847.0	5971.8	6840.4	8662.0	9728.5	10009.6	10404.2	10467.3	10985.4	12287.6	10032.3
62.5°	5637.6	5744.8	6636.1	8461.6	10205.0	10953.9	11426.6	11456.9	12000.2	13555.8	10704.2
65°	5144.7	5267.0	6225.2	8261.1	10616.0	12133.9	12783.0	12747.8	13080.6	14650.1	11125.3
67.5°	4480.3	4635.4	5457.4	7569.0	10819.0	13423.5	14311.0	14266.9	14147.1	15367.4	11246.4
70°	3631.9	3715.1	4475.3	6372.6	10008.3	14100.5	15517.5	15470.8	14807.7	15462.0	10674.0
71°	3125.2	3255.0	3896.7	5660.4	9333.9	13893.7	15672.5	15659.8	14808.9	15201.0	10242.9
72.5°	2439.4	2518.8	3086.0	4385.8	7933.3	12718.8	15289.2	15337.1	14487.5	14476.1	9354.1
75°	1543.1	1578.3	1936.4	2581.8	4353.0	9007.4	13051.6	13181.4	12863.8	11848.9	6956.3
77.5°	896.3	941.8	1159.8	1521.6	1880.9	4888.8	9339.0	9480.2	8938.1	6523.9	2847.8
80°	521.9	572.3	764.0	883.7	863.5	1814.1	4755.2	4996.0	3870.2	1647.7	799.3
82.5°	290.0	324.0	537.1	538.3	460.1	592.5	1496.4	1565.8	1104.3	664.4	326.5
85°	210.5	238.3	346.7	313.9	220.6	254.7	520.7	545.9	446.2	279.9	105.9
87.5°	74.3	105.9	190.3	151.3	60.6	53.0	150.0	122.3	113.5	78.1	24.0
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°	4164.0	4164.0	4164.0	4164.0	4164.0	4164.0	4164.0	4164.0	4164.0	4164.0	4164.0
2.5°	4186.7	4189.2	4176.6	4153.9	4131.2	4102.1	4069.4	4044.2	4032.8	4031.6	4030.3
5°	4232.0	4238.3	4190.5	4119.8	4041.7	3945.9	3863.9	3770.6	3746.7	3708.9	3720.2
7.5°	4305.2	4301.4	4206.9	4056.8	3874.0	3671.0	3499.6	3400.0	3296.6	3267.6	3268.9
10°	4409.8	4385.8	4206.9	3928.2	3623.1	3321.9	3082.3	2931.1	2849.1	2781.0	2755.8
12.5°	4520.7	4460.2	4166.5	3747.9	3300.4	2931.1	2673.9	2469.6	2416.7	2361.2	2362.5
15°	4626.6	4525.8	4087.1	3494.5	2952.5	2513.7	2264.1	2141.9	2125.5	2131.8	2130.5
17.5°	4722.4	4572.4	3966.0	3212.1	2546.5	2155.7	2023.4	2032.2	2076.3	2107.8	2111.6
20°	4819.5	4600.1	3785.8	2833.9	2163.3	1938.9	1944.0	2013.3	2080.0	2122.9	2129.2
22.5°	4911.5	4612.7	3574.0	2468.3	1885.9	1846.8	1921.3	1995.6	2061.2	2102.8	2109.1
25°	4972.0	4583.8	3273.9	2086.4	1749.8	1814.1	1892.2	1955.2	2010.7	2053.6	2063.7
27.5°	4988.4	4490.4	2902.0	1777.5	1686.8	1782.6	1854.4	1901.1	1944.0	1984.3	1991.8
30°	4979.6	4353.0	2493.6	1596.0	1650.2	1746.0	1801.5	1835.5	1887.2	1918.7	1925.0
32.5°	4965.8	4193.0	2067.5	1498.9	1619.9	1711.9	1744.7	1775.0	1773.8	1761.1	1770.0
35°	4970.7	4001.3	1722.0	1441.0	1593.4	1686.8	1714.5	1676.7	1568.3	1563.3	1558.2
37.5°	4997.2	3812.3	1471.2	1400.6	1579.6	1683.0	1698.1	1524.1	1428.4	1384.2	1372.8
40°	5065.3	3591.6	1306.1	1370.3	1578.3	1711.9	1623.7	1447.2	1263.2	1177.5	1171.2
42.5°	5156.1	3374.8	1205.2	1351.4	1593.4	1756.1	1593.4	1338.8	1138.4	1087.9	1080.3
45°	5291.0	3126.4	1149.7	1342.6	1616.1	1772.5	1583.4	1259.4	1087.9	1047.6	1047.6
47.5°	5443.5	2889.4	1119.5	1336.3	1645.2	1761.1	1493.9	1234.2	1064.0	1069.1	1093.0
50°	5594.8	2684.0	1096.7	1322.4	1670.4	1754.8	1457.3	1232.9	1070.3	1134.6	1177.5
52.5°	5770.0	2539.0	1069.1	1299.8	1670.4	1714.5	1446.0	1258.1	1087.9	1106.8	1125.8
55°	5981.8	2493.6	1033.8	1250.6	1640.1	1613.6	1439.7	1294.7	1100.5	1056.5	1064.0
57.5°	6261.7	2566.7	999.7	1188.8	1570.8	1509.0	1437.2	1304.8	1071.5	1035.0	1027.4
60°	6587.0	2711.6	989.6	1125.8	1476.2	1419.5	1422.0	1275.8	1031.2	993.4	999.7
62.5°	6815.1	2798.7	983.3	1077.8	1372.8	1321.1	1385.5	1240.5	1013.6	980.8	987.1
65°	6815.1	2692.8	925.4	1004.7	1239.2	1202.6	1341.3	1196.3	990.9	953.0	946.7
67.5°	6556.7	2383.9	837.0	895.1	1091.7	1067.8	1279.6	1143.4	956.8	927.9	912.7
70°	5883.5	1807.8	726.1	766.5	905.2	926.6	1200.1	1071.5	900.1	864.8	842.1
71°	5587.3	1574.5	679.5	700.9	833.3	864.8	1162.3	1041.3	874.9	824.4	784.1
72.5°	5016.1	1326.2	608.9	617.7	712.2	769.0	1082.9	983.3	827.0	755.1	709.7
75°	3811.0	968.2	490.4	485.3	527.0	610.1	916.5	876.2	724.9	627.8	601.3
77.5°	1646.4	527.0	366.8	370.6	358.0	462.6	721.1	752.6	621.5	510.6	486.6
80°	499.2	303.9	250.9	255.9	239.5	310.2	508.0	590.0	499.2	397.1	364.3
82.5°	255.9	181.6	171.5	169.0	152.6	175.3	307.6	403.4	356.8	248.3	219.3
85°	110.9	97.1	84.4	81.9	71.8	63.0	109.7	201.7	189.1	138.7	132.4
87.5°	27.8	25.2	16.4	15.1	8.8	1.3	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)