

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: P651084

Luminaire Tested: **GALN-SA8C-840-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651084  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-840-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40046.7 lumens  
Efficiency: N/A  
Efficacy: 93.3 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

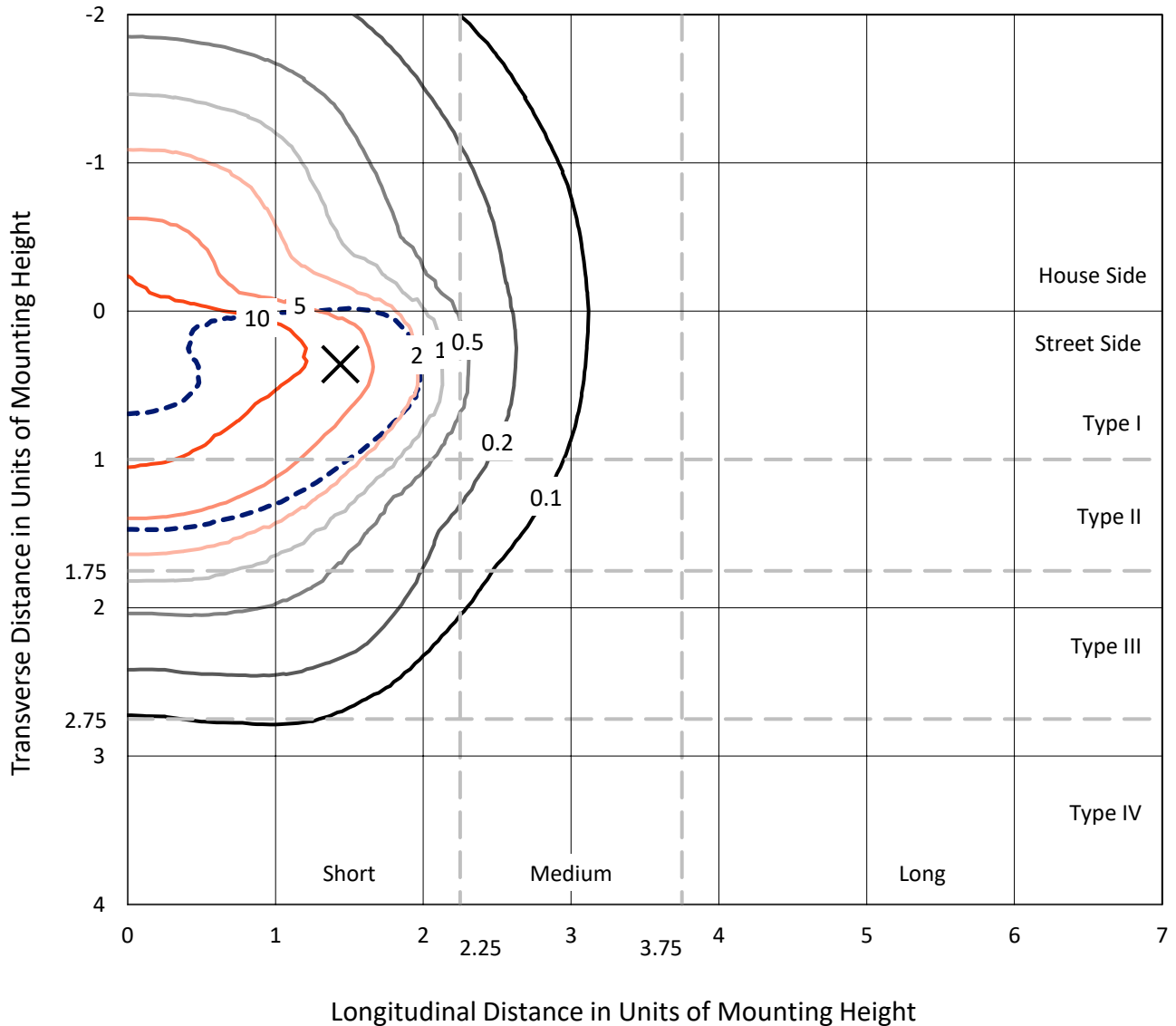
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

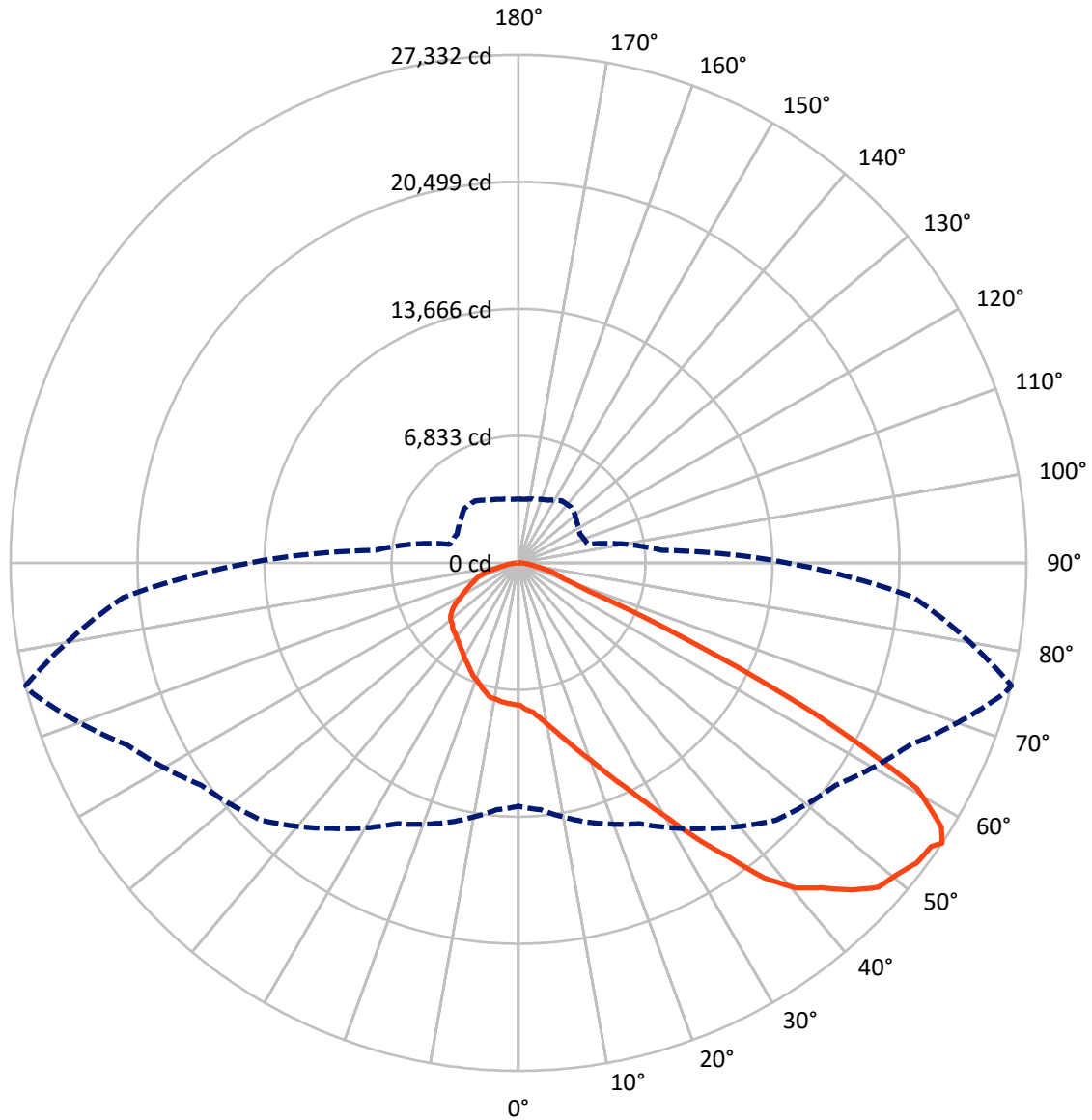
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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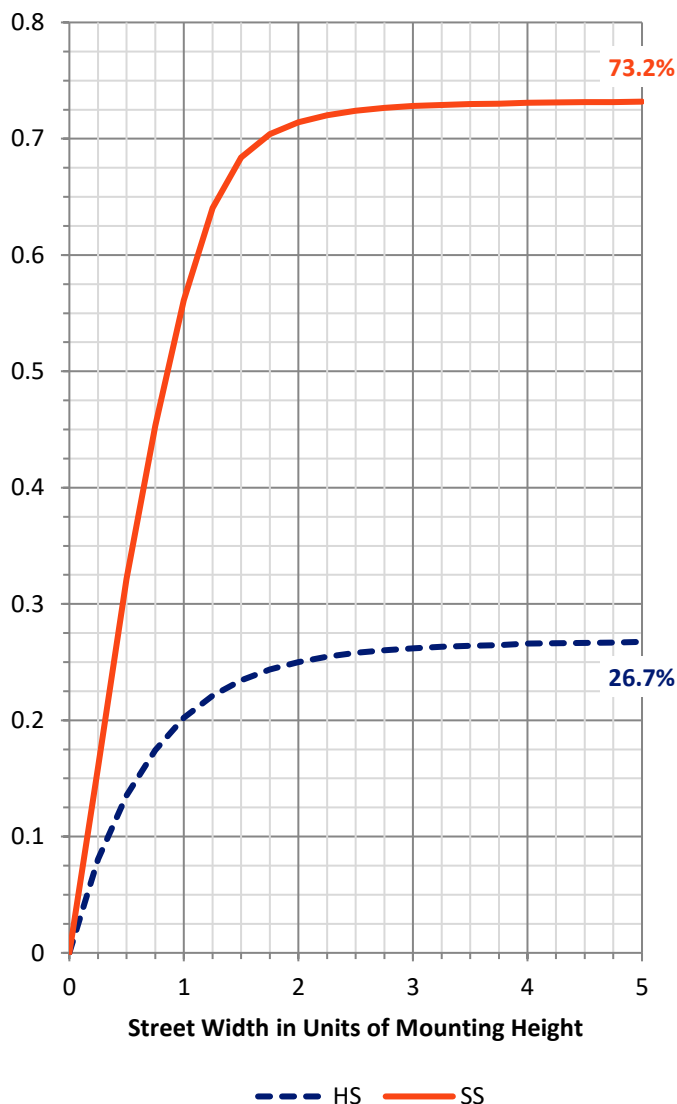
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10767.4	0.0	10767.4
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	29279.4	0.0	29279.4
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	40046.7	0.0	40046.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	759.9	1.9
10°-20°	2387.0	6.0
20°-30°	4174.6	10.4
30°-40°	6536.2	16.3
40°-50°	9508.3	23.7
50°-60°	10450.3	26.1
60°-70°	4664.6	11.6
70°-80°	1347.3	3.4
80°-90°	218.5	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°	40046.7	100.0
0°-180°	40046.7	100.0

**Coefficient of Utilization**

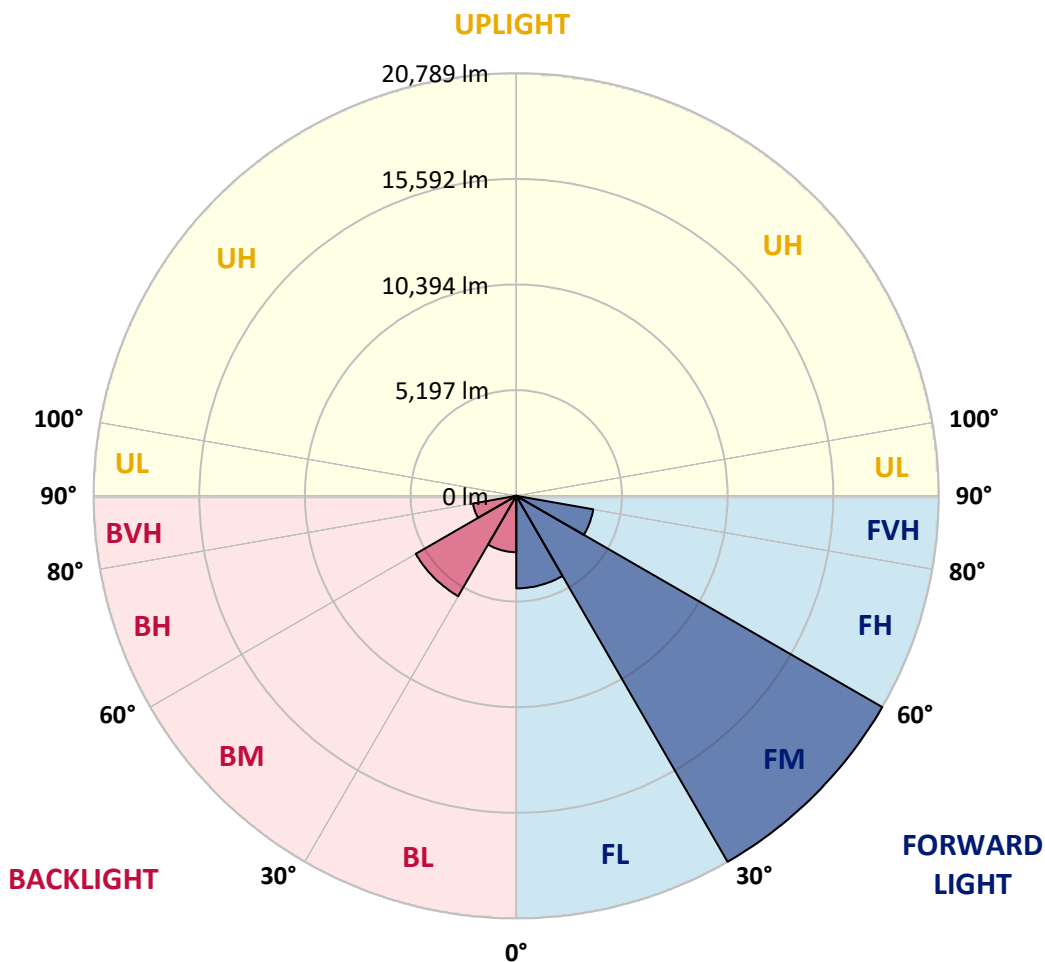


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4550.9	11.4			
FM (30°-60°)	20789.0	51.9			
FH (60°-80°)	3845.4	9.6			G2/5000
FVH (80°-90°)	94.1	0.2			G1/100
BL (0°-30°)	2770.6	6.9	B4/5000		
BM (30°-60°)	5705.8	14.2	B4/8500		
BH (60°-80°)	2166.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	124.5	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°	55°	65°	75°	76°	85°
0°	7662.4	7662.4	7662.4	7662.4	7662.4	7662.4	7662.4	7662.4	7662.4	7662.4	7662.4
2.5°	8441.1	8306.1	8295.8	8259.5	8280.2	8186.7	8088.1	7958.3	7823.4	7906.4	7709.1
5°	9032.9	8851.3	8923.9	8799.3	8814.9	8690.3	8487.9	8337.3	8171.2	8072.5	7932.4
7.5°	9240.6	9256.2	9308.1	9287.3	9183.5	9183.5	9048.5	8783.7	8493.0	8435.9	8202.4
10°	9521.0	9526.1	9469.0	9484.6	9630.0	9562.4	9443.1	9328.9	8955.1	8887.6	8472.3
12.5°	9619.5	9526.1	9619.5	9702.6	9873.9	9967.4	9941.5	9858.4	9458.6	9411.9	8804.5
15°	9635.2	9578.1	9655.9	9842.8	9993.4	10387.9	10585.2	10528.1	9998.6	10003.7	9178.3
17.5°	9562.4	9640.3	9671.5	9832.4	10180.2	10548.8	11119.9	11197.7	10761.7	10694.2	9650.7
20°	9661.1	9604.0	9645.5	9790.9	10252.9	10829.1	11576.7	12090.6	11478.1	11431.4	10138.7
22.5°	10040.0	9962.2	9951.8	10045.2	10377.5	10974.5	12059.5	12983.5	12350.3	12376.2	10746.1
25°	10336.0	10377.5	10341.2	10336.0	10543.6	11192.5	12698.0	14047.8	13533.9	13383.3	11462.5
27.5°	10844.7	10943.3	10870.7	10969.3	10922.6	11519.6	13154.8	15226.2	14810.9	14608.4	12111.4
30°	11550.7	11602.7	11535.2	11535.2	11395.0	11976.4	13570.2	16456.6	16285.3	16010.1	12874.5
32.5°	12480.0	12557.9	12422.9	12345.0	12324.3	12656.5	14317.8	17671.3	17962.1	17728.4	13886.8
35°	13710.3	13663.6	13502.7	13430.0	13149.7	13700.0	15428.6	19067.8	19830.9	19415.7	15112.0
37.5°	14795.4	14722.6	14712.3	14307.3	14374.9	14826.5	16373.5	20126.9	21642.7	21523.3	16404.6
40°	15807.7	15875.1	15984.1	15755.7	15651.9	16150.3	17474.0	20936.7	23049.6	23002.9	17401.4
42.5°	16892.7	16830.3	17022.4	16830.3	16674.6	17380.6	18668.1	21497.4	24285.1	23901.0	18444.9
45°	18465.6	18268.4	18335.8	18351.4	18237.2	18496.8	19161.3	21902.3	25152.0	25110.6	19208.0
47.5°	19779.1	19784.2	19670.0	19581.8	19233.9	19493.5	19711.5	22156.6	26148.8	26081.3	19503.9
50°	20267.0	20199.6	20531.8	20723.8	20744.6	20215.1	20142.5	22296.8	26673.2	26377.2	19799.8
52.5°	18512.3	18574.7	19098.9	20241.1	20900.4	20957.5	20646.0	22587.6	26886.0	26823.7	20038.6
55°	14899.2	15200.2	16062.0	17380.6	18943.2	20661.6	21191.1	22888.7	27000.2	26948.2	21097.7
56°	13097.7	13331.4	14452.8	15485.8	17448.1	19587.0	20848.5	23210.5	27088.4	27332.4	21346.9
57.5°	10543.6	10813.6	11618.2	12791.4	15106.8	17541.6	19903.6	22816.0	26745.8	26839.3	21528.5
60°	6593.0	6619.0	7584.6	8358.1	9988.1	12365.8	15189.9	19851.7	24752.3	24617.3	19337.8
62.5°	4324.4	4329.6	5206.9	5840.2	6582.6	7127.7	8939.5	13165.3	18263.2	18024.4	13767.4
65°	3036.9	3104.5	3784.5	4630.7	4931.8	4646.3	4589.2	6940.9	10201.0	9858.4	7397.7
67.5°	2221.9	2227.1	2829.3	3737.7	4173.9	3535.3	2870.8	3390.0	4038.9	4028.5	3426.3
70°	1469.1	1531.5	1993.5	2793.0	3291.3	2839.6	2346.5	2424.4	2569.7	2569.7	2549.0
72.5°	856.6	913.7	1220.0	1770.2	1848.1	1775.4	1858.5	2076.5	2169.9	2164.8	2138.8
75°	487.9	513.9	581.5	737.1	918.9	1085.0	1365.4	1573.0	1666.4	1723.5	1656.0
77.5°	285.5	301.1	342.6	420.5	477.6	586.6	742.4	887.8	1012.3	996.8	1007.1
80°	150.5	150.5	192.1	249.2	332.3	415.3	493.2	576.3	643.7	659.3	674.9
82.5°	88.2	93.4	124.6	181.7	238.8	295.9	379.0	436.1	498.4	503.6	513.9
85°	46.8	51.9	77.9	119.4	161.0	181.7	186.9	176.5	192.1	181.7	207.6
87.5°	15.6	15.6	26.0	20.8	20.8	26.0	31.1	31.1	41.5	41.5	41.5
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°	7662.4	7662.4	7662.4	7662.4	7662.4	7662.4	7662.4	7662.4	7662.4	7662.4	7662.4
2.5°	7704.0	7704.0	7615.7	7449.6	7423.6	7356.1	7293.8	7288.6	7241.9	7200.4	7179.6
5°	7849.3	7688.4	7558.6	7408.0	7231.5	7148.5	7055.1	6951.2	6909.7	6951.2	6946.0
7.5°	8015.4	7880.5	7491.1	7210.8	7008.3	6925.3	6821.4	6712.4	6722.8	6722.8	6650.1
10°	8176.4	7994.7	7371.7	7013.5	6717.6	6655.3	6598.2	6639.7	6691.7	6702.0	6655.3
12.5°	8446.3	8036.2	7314.6	6816.2	6629.4	6494.4	6530.7	6644.9	6753.9	6722.8	6759.1
15°	8648.8	8072.5	7055.1	6613.8	6380.2	6442.5	6572.2	6650.1	6831.8	6811.0	6847.4
17.5°	8846.1	8093.3	6800.7	6343.8	6245.2	6416.5	6515.1	6738.3	6795.4	6920.1	6966.8
20°	9251.0	8134.8	6541.1	6177.7	6146.5	6343.8	6515.1	6619.0	6743.6	6852.6	6852.6
22.5°	9458.6	8114.1	6369.8	5959.7	6058.3	6182.9	6338.6	6515.1	6515.1	6619.0	6624.1
25°	9718.2	8031.0	6099.9	5855.8	5928.5	6047.9	6224.4	6162.1	6229.6	6229.6	6312.7
27.5°	10014.1	7854.5	5866.2	5668.9	5814.3	5944.1	5970.1	5928.5	5850.7	5840.2	5809.1
30°	10252.9	7636.4	5694.9	5606.7	5726.0	5798.7	5715.7	5627.4	5492.5	5482.1	5409.4
32.5°	10579.9	7366.5	5482.1	5450.9	5585.9	5591.1	5565.1	5430.2	5232.9	5149.8	5066.8
35°	11130.2	7210.8	5321.1	5367.9	5409.4	5393.8	5347.1	5201.8	5004.5	4968.1	4937.0
37.5°	11535.2	7096.6	5155.0	5212.1	5248.4	5269.2	5129.1	4968.1	4973.3	4900.6	4879.9
40°	11992.0	7023.9	5020.0	5046.0	5051.2	5118.7	4947.4	4869.5	4905.8	4859.1	4890.2
42.5°	12578.7	7044.6	4879.9	4859.1	4957.7	4931.8	4848.7	4744.9	4765.7	4625.5	4646.3
45°	12890.1	7184.8	4796.8	4703.4	4812.4	4807.2	4698.2	4599.5	4475.0	4205.0	4215.3
47.5°	13097.7	7221.2	4599.5	4537.3	4651.5	4718.9	4594.4	4365.9	4189.4	3997.4	3950.6
50°	13310.6	7288.6	4506.1	4376.3	4423.0	4584.0	4428.2	4210.2	4038.9	3867.6	3893.5
52.5°	13497.5	7418.5	4324.4	4132.3	4215.3	4391.9	4308.8	4044.0	3857.2	3717.0	3675.5
55°	14328.1	7709.1	4018.1	3768.9	3966.2	4189.4	4142.7	3820.8	3618.4	3545.7	3535.3
56°	14457.9	7719.5	3857.2	3644.3	3826.0	4121.9	4064.8	3722.2	3540.5	3426.3	3431.4
57.5°	14478.7	7594.9	3628.7	3530.1	3685.9	4023.3	3950.6	3644.3	3395.1	3291.3	3260.1
60°	12739.6	5928.5	3343.2	3280.9	3462.6	3722.2	3696.3	3431.4	3151.1	3031.7	3088.8
62.5°	8685.1	4345.2	3120.0	3109.6	3203.0	3457.4	3390.0	3151.1	2917.5	2839.6	2803.3
65°	5056.3	3296.5	2902.0	2860.4	2938.3	3073.3	3120.0	2870.8	2626.9	2574.9	2559.3
67.5°	2985.0	2725.4	2621.6	2554.1	2528.2	2611.2	2647.6	2502.2	2258.3	2185.6	2247.8
70°	2497.0	2424.4	2429.6	2315.4	2253.0	2195.9	2164.8	2035.0	1832.5	1739.1	1713.1
72.5°	2154.4	2123.3	2102.5	1998.6	1941.5	1811.8	1676.8	1547.0	1396.5	1318.6	1323.8
75°	1645.7	1635.2	1645.7	1593.8	1495.1	1391.3	1266.7	1100.5	986.3	887.8	908.4
77.5°	981.2	1012.3	1027.9	1007.1	965.6	872.1	794.2	685.2	576.3	498.4	487.9
80°	674.9	700.8	726.8	700.8	659.3	591.8	508.7	425.7	347.8	306.3	295.9
82.5°	513.9	539.9	555.5	529.5	477.6	404.9	347.8	290.7	228.4	186.9	176.5
85°	186.9	212.9	207.6	249.2	270.0	259.5	223.2	171.3	129.8	93.4	88.2
87.5°	51.9	46.8	51.9	51.9	51.9	46.8	41.5	41.5	41.5	26.0	20.8
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)