

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: P651587

Luminaire Tested: **GALN-SA8D-840-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651587  
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-SA8D-840-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 1200mA 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: 44790.8 lumens  
Efficiency: N/A  
Efficacy: 90.9 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

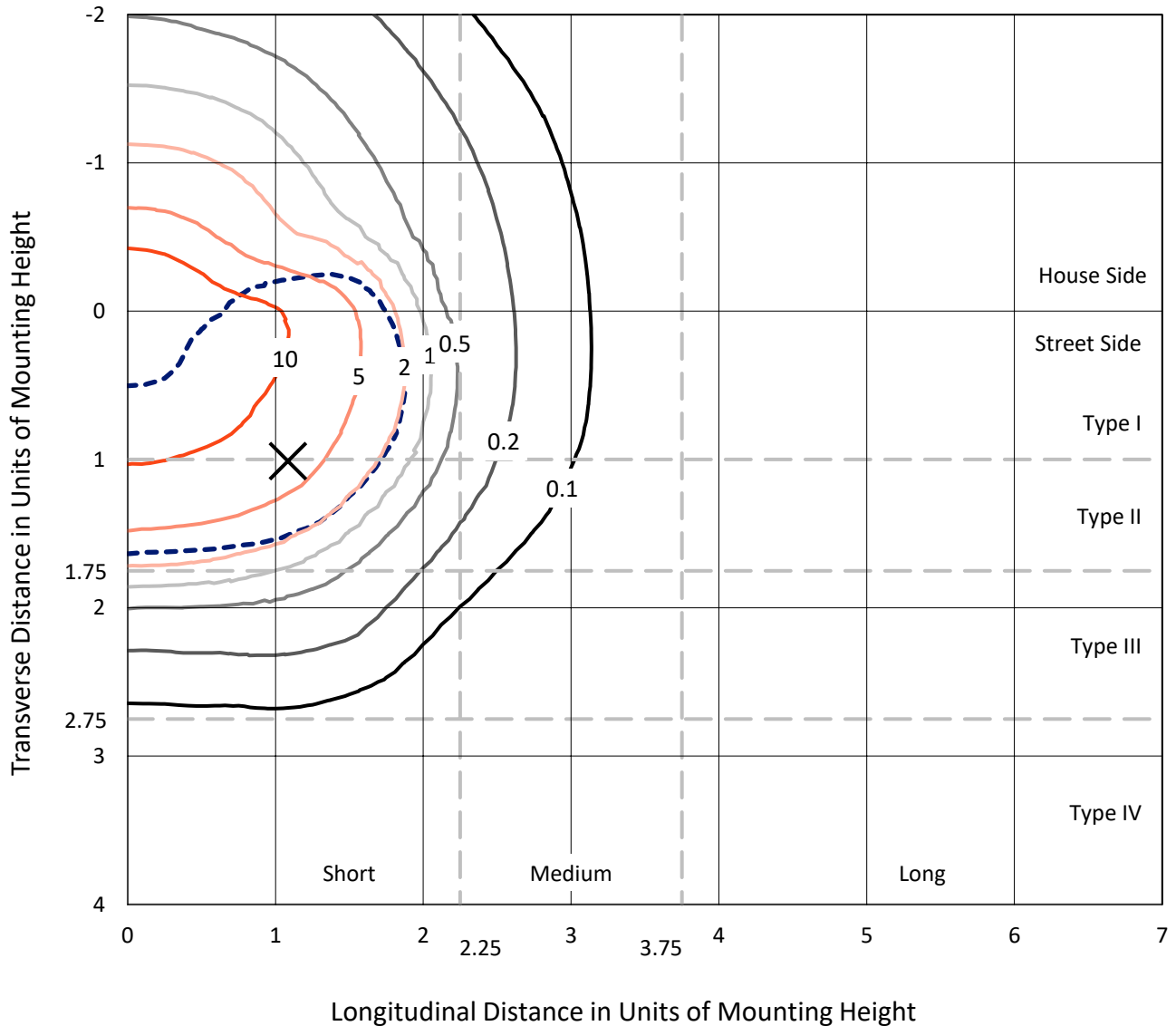
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

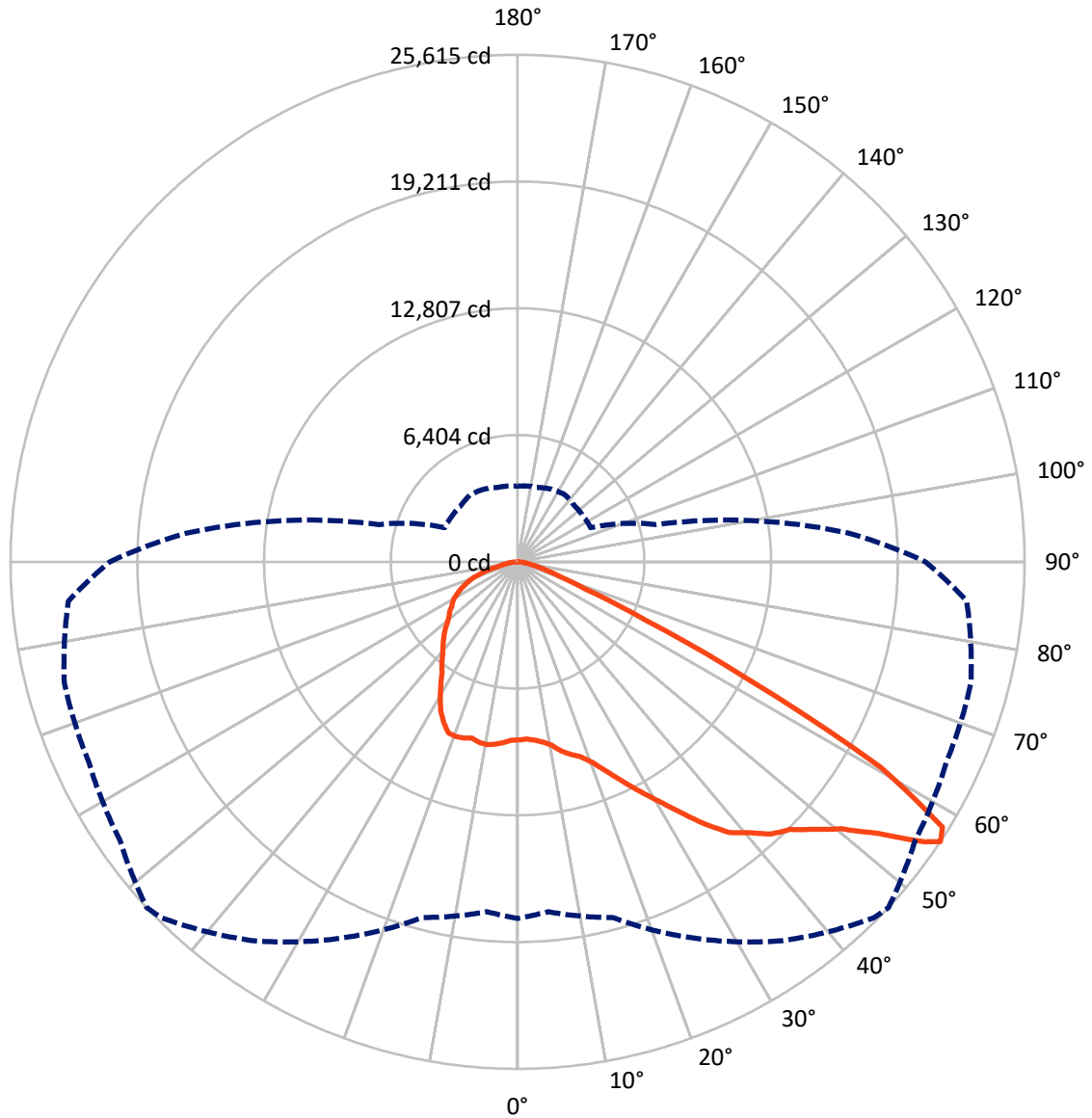
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 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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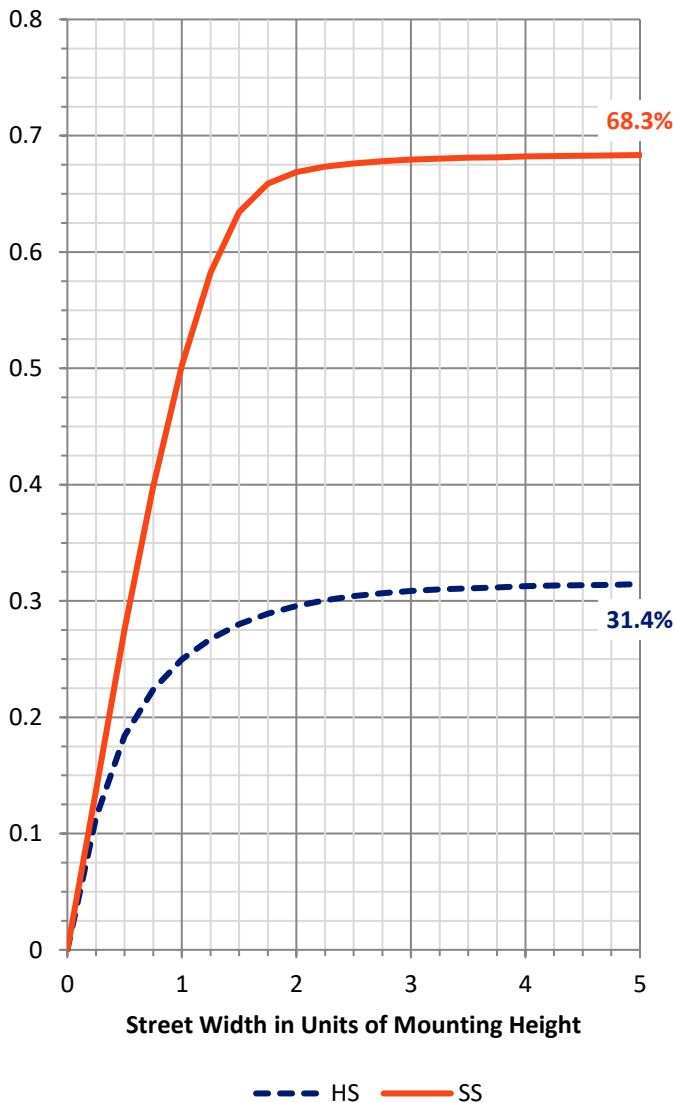
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14193.7	0.0	14193.7
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	30597.1	0.0	30597.1
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	44790.8	0.0	44790.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	876.7	2.0
10°-20°	2765.4	6.2
20°-30°	4888.5	10.9
30°-40°	7342.4	16.4
40°-50°	10076.7	22.5
50°-60°	12005.1	26.8
60°-70°	5137.4	11.5
70°-80°	1453.9	3.2
80°-90°	244.7	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°	44790.8	100.0
0°-180°	44790.8	100.0



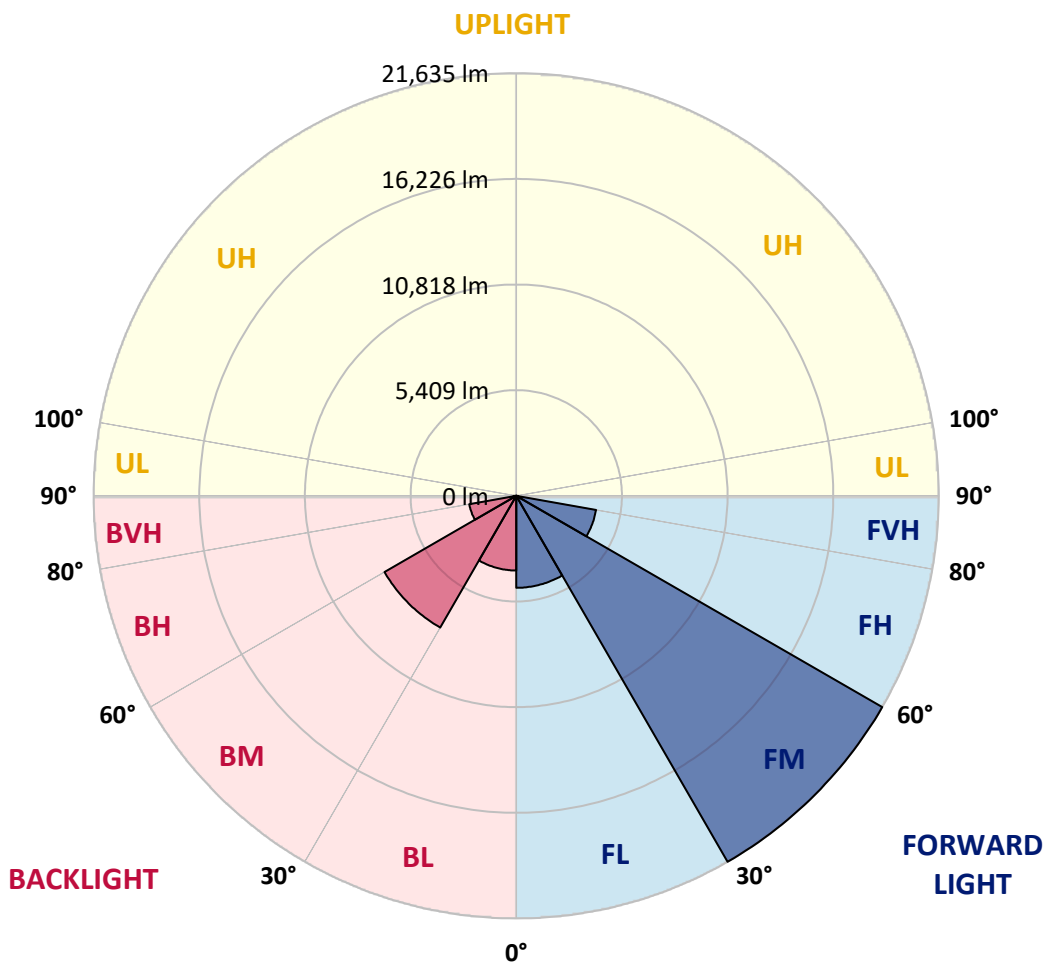
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4709.0	10.5			
FM (30°-60°)	21635.0	48.3			
FH (60°-80°)	4149.3	9.3			G2/5000
FVH (80°-90°)	103.8	0.2			G2/225
BL (0°-30°)	3821.5	8.5	B4/5000		
BM (30°-60°)	7789.2	17.4	B4/8500		
BH (60°-80°)	2442.1	5.5	B3/2500		G3/2500
BVH (80°-90°)	140.8	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°	8997.1	8997.1	8997.1	8997.1	8997.1	8997.1	8997.1	8997.1	8997.1	8997.1	8997.1
2.5°	8962.9	8945.7	8934.3	9025.7	8991.4	8997.1	8962.9	8997.1	9020.0	8968.6	9042.9
5°	8945.7	8997.1	8951.4	8979.9	9054.2	9031.4	9054.2	9122.7	9105.7	9088.5	9065.6
7.5°	9105.7	9111.4	9145.6	9157.1	9179.9	9157.1	9191.4	9254.2	9237.0	9139.9	9151.3
10°	9334.2	9345.6	9351.2	9414.2	9454.1	9459.8	9419.9	9362.7	9357.0	9488.4	9397.0
12.5°	9596.9	9568.4	9636.9	9659.7	9705.5	9756.9	9808.2	9688.3	9762.6	9768.3	9659.7
15°	9979.6	10008.2	9928.3	9928.3	9945.4	9951.1	10093.9	10036.7	10025.4	9962.5	10008.2
17.5°	10550.9	10356.7	10350.9	10271.0	10259.5	10305.3	10356.7	10402.4	10556.7	10430.9	10185.3
20°	10967.9	11013.7	10848.0	10750.8	10768.0	10870.8	10819.4	11025.0	11133.6	10928.0	10688.0
22.5°	11704.8	11550.5	11590.6	11373.5	11390.7	11499.2	11493.4	11704.8	11767.7	11442.1	11093.5
25°	12201.8	12161.8	12196.1	12024.7	12047.6	12133.3	12270.4	12618.8	12516.0	12156.1	11350.6
27.5°	12927.3	12847.3	12818.8	12755.9	12733.1	12961.6	13121.5	13492.8	13418.6	12893.0	11807.6
30°	13669.9	13618.5	13647.1	13390.0	13481.4	13966.9	14012.7	14521.0	14486.8	13561.4	12316.0
32.5°	14184.1	14212.6	14264.0	14121.1	14526.8	14915.2	15069.5	15646.4	15675.0	14709.6	13298.6
35°	15012.4	14915.2	14943.8	15109.4	15298.0	16006.3	16257.6	16640.4	16880.3	15914.9	14241.2
37.5°	15532.2	15634.9	15515.0	15777.8	16269.1	17120.2	17348.7	17742.9	17994.2	17103.1	15526.5
40°	16343.3	16177.6	16263.3	16451.9	16954.6	18062.7	17999.9	18405.5	18485.5	18114.2	16726.1
42.5°	17217.4	17137.4	17017.4	17445.9	17868.6	18674.0	18799.7	18611.2	19016.8	19102.5	18439.8
45°	18262.7	18359.8	18376.9	18388.4	18759.7	19462.3	19290.9	19125.3	19593.7	20216.4	19502.3
47.5°	19233.8	18925.4	19148.1	19456.6	19982.2	19987.9	20187.8	19793.7	20290.6	20844.8	20462.0
50°	19559.5	19411.0	19708.0	20290.6	21101.8	21187.5	21210.4	20650.5	20907.6	21347.4	20793.3
52.5°	19433.7	19382.4	20142.1	21044.7	22232.8	22667.1	22781.3	22090.0	22232.8	22032.9	21524.6
55°	18833.9	18988.2	19753.7	21593.1	23415.4	24757.8	24974.8	24100.9	23192.6	23346.8	22787.0
56°	18011.4	17742.9	18599.7	20970.4	23363.9	25437.6	25614.7	24523.6	23906.6	23706.7	22775.5
57.5°	15280.8	14932.4	16057.7	18868.3	22067.2	25180.5	25311.9	24700.7	23786.7	23381.1	21113.2
60°	8945.7	9117.1	10545.2	13013.0	17023.1	20644.8	21084.6	21530.3	20919.0	19102.5	15714.9
62.5°	4318.6	4210.0	5232.6	7460.4	10373.8	13178.6	13047.3	14298.3	14983.8	13572.8	9922.5
65°	2262.1	2250.7	2856.2	4073.0	5701.1	6923.5	7043.5	7717.5	8660.1	6992.1	5038.3
67.5°	1662.3	1708.0	2010.7	2861.9	3667.4	3741.7	3724.5	4061.5	4152.9	3513.2	3096.1
70°	1302.5	1325.2	1548.1	2176.4	2730.6	2445.0	2393.5	2433.5	2702.0	2816.3	2679.2
72.5°	942.6	965.4	1153.9	1468.1	1708.0	1668.0	1702.4	1925.1	2256.4	2376.4	2233.5
75°	628.4	645.5	748.3	896.8	1011.1	1091.1	1153.9	1410.9	1719.4	1788.0	1719.4
77.5°	434.1	451.3	519.8	634.1	645.5	696.9	719.7	839.7	1028.2	1113.9	1068.2
80°	245.7	245.7	279.9	325.6	399.9	468.4	479.9	576.9	662.6	719.7	731.2
82.5°	114.2	119.9	148.5	199.9	262.8	325.6	337.1	399.9	462.7	519.8	537.0
85°	57.1	62.8	85.7	119.9	160.0	194.2	188.6	194.2	205.6	194.2	199.9
87.5°	17.2	17.2	22.9	28.6	22.9	28.6	28.6	34.3	39.9	45.7	51.4
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°	8997.1	8997.1	8997.1	8997.1	8997.1	8997.1	8997.1	8997.1	8997.1	8997.1	8997.1
2.5°	9048.5	9065.6	8951.4	9059.9	9020.0	9014.3	9094.2	9082.8	9111.4	9100.0	9031.4
5°	9054.2	9014.3	9134.2	9025.7	9077.1	9185.7	9111.4	9282.7	9197.1	9254.2	9128.5
7.5°	9231.3	9242.8	9219.9	9265.6	9242.8	9294.1	9254.2	9294.1	9225.6	9231.3	9345.6
10°	9385.6	9351.2	9391.3	9334.2	9374.1	9357.0	9265.6	9237.0	9259.9	9231.3	9305.6
12.5°	9671.2	9608.3	9579.7	9511.2	9465.5	9294.1	9151.3	9071.4	9179.9	9197.1	9162.8
15°	9962.5	9968.2	9836.8	9682.6	9397.0	9139.9	9174.2	9202.7	9202.7	9248.5	9162.8
17.5°	10145.3	10145.3	10025.4	9716.9	9425.5	9277.0	9242.8	9151.3	9071.4	9059.9	9054.2
20°	10465.2	10368.1	10093.9	9711.2	9414.2	9345.6	9088.5	8871.5	8705.8	8648.7	8643.0
22.5°	10830.8	10585.2	10202.4	9722.6	9397.0	9299.9	8820.0	8494.4	8197.4	8071.7	8088.8
25°	11167.8	10773.7	10265.2	9671.2	9334.2	8865.7	8328.8	7877.5	7569.0	7466.1	7414.8
27.5°	11402.0	10973.6	10265.2	9716.9	9100.0	8380.1	7831.8	7254.8	6986.4	6917.8	6929.2
30°	11716.2	11225.0	10442.4	9619.8	8631.5	7751.8	7094.8	6717.8	6557.9	6500.8	6540.8
32.5°	12453.1	11881.9	10688.0	9385.6	8077.4	7123.4	6592.2	6380.8	6146.6	6032.3	5992.4
35°	13252.9	12504.6	10928.0	8991.4	7454.8	6552.1	6220.9	6026.6	5746.7	5621.1	5643.9
37.5°	14384.0	13304.3	10945.0	8340.2	6780.6	6232.3	5929.6	5626.8	5398.3	5204.0	5146.9
40°	15909.2	14395.4	10905.1	7654.7	6238.0	5855.3	5632.5	5255.5	4998.4	4861.3	4889.8
42.5°	17251.6	15675.0	10739.4	6877.8	5746.7	5598.2	5346.8	4975.5	4724.2	4581.3	4570.0
45°	18382.7	16617.5	10425.2	6215.2	5335.5	5312.6	5021.3	4735.6	4535.7	4404.3	4461.4
47.5°	19428.0	17377.2	9951.1	5552.5	4958.5	5004.1	4724.2	4547.1	4421.5	4301.5	4295.7
50°	19805.0	17365.9	9534.1	5004.1	4655.6	4632.8	4621.4	4432.8	4301.5	4198.7	4244.4
52.5°	20433.4	17560.1	9082.8	4627.1	4381.4	4387.2	4427.2	4290.0	4141.5	4078.7	4135.8
55°	21336.0	17588.7	8088.8	4187.3	4152.9	4193.0	4193.0	4101.6	3975.8	3924.4	3895.9
56°	20599.1	16737.5	7254.8	4073.0	4038.7	4038.7	4147.2	4044.5	3890.2	3850.2	3816.0
57.5°	18999.6	14663.8	6072.4	3935.9	3884.5	3964.5	4021.6	3913.0	3770.2	3713.1	3747.3
60°	13104.4	9922.5	4564.3	3638.8	3638.8	3770.2	3816.0	3656.0	3593.2	3587.5	3541.7
62.5°	7649.0	5781.0	3570.3	3370.3	3381.7	3490.3	3524.5	3433.2	3353.2	3450.3	3496.0
65°	4055.8	3450.3	3061.9	3084.7	3090.4	3176.1	3324.6	3318.9	3313.2	3341.8	3347.5
67.5°	2936.2	2867.6	2781.9	2759.2	2770.5	2833.4	2981.9	3096.1	3090.4	3021.9	2970.5
70°	2616.3	2519.2	2467.7	2473.5	2427.8	2502.1	2622.0	2696.2	2564.9	2484.9	2450.7
72.5°	2176.4	2147.9	2113.6	2119.3	2027.9	2010.7	1873.7	1873.7	1839.4	1816.6	1856.5
75°	1662.3	1650.9	1668.0	1639.4	1542.4	1439.5	1359.6	1285.3	1171.1	1125.3	1102.5
77.5°	1051.1	1085.4	1125.3	1062.5	1022.5	948.2	868.3	794.1	702.7	651.2	651.2
80°	714.1	742.6	771.2	759.8	714.1	645.5	582.6	502.7	439.8	399.9	394.2
82.5°	542.7	565.6	605.5	559.9	514.1	457.0	405.6	348.4	291.3	245.7	245.7
85°	194.2	222.8	245.7	268.4	285.6	291.3	251.4	205.6	165.7	131.4	125.6
87.5°	51.4	57.1	62.8	57.1	57.1	57.1	62.8	57.1	51.4	39.9	39.9
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)