

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: P651139

Luminaire Tested: **GALN-SA9C-840-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651139  
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-SA9C-840-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 44959.9 lumens  
Efficiency: N/A  
Efficacy: 93.5 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

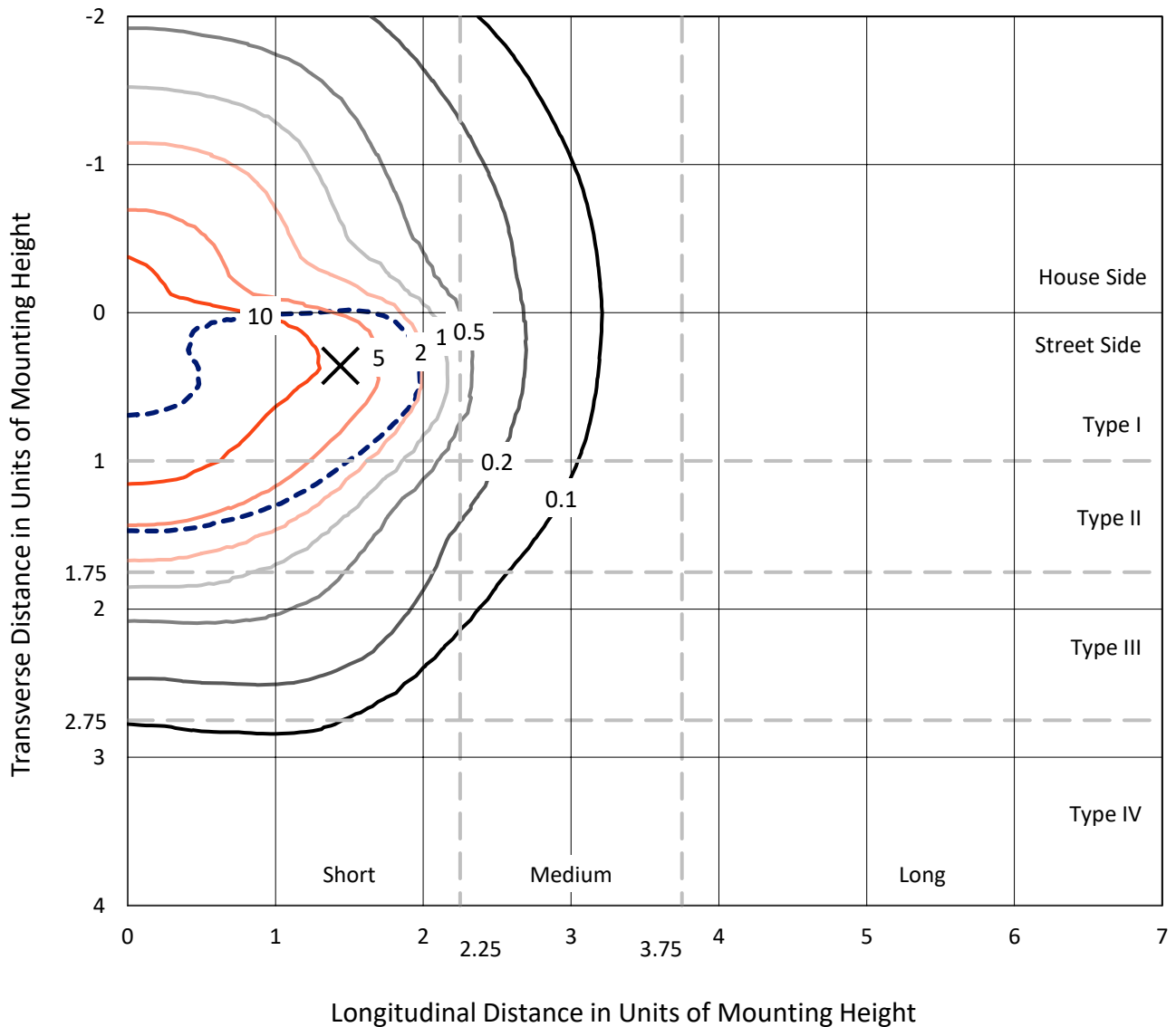
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

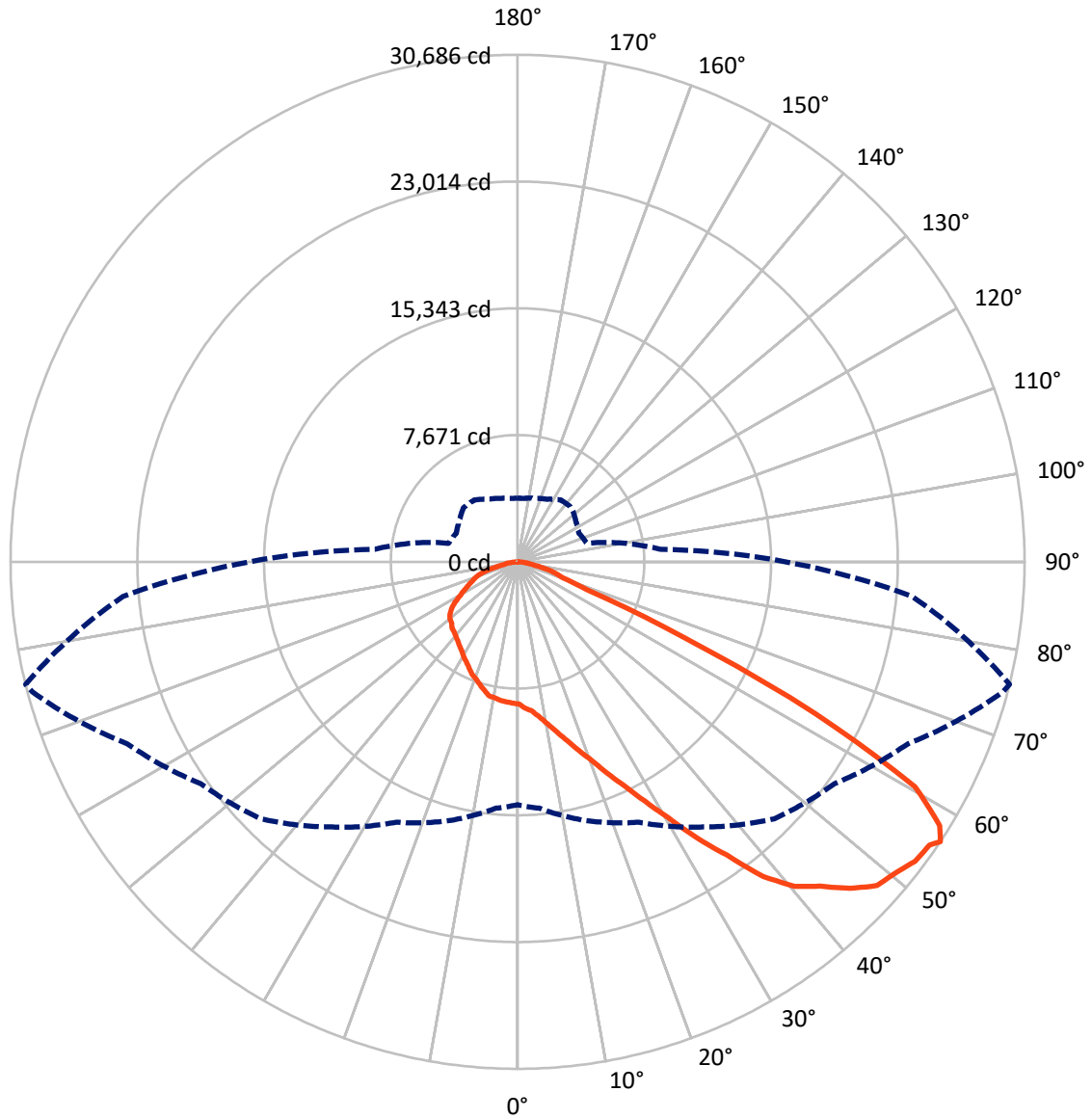
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 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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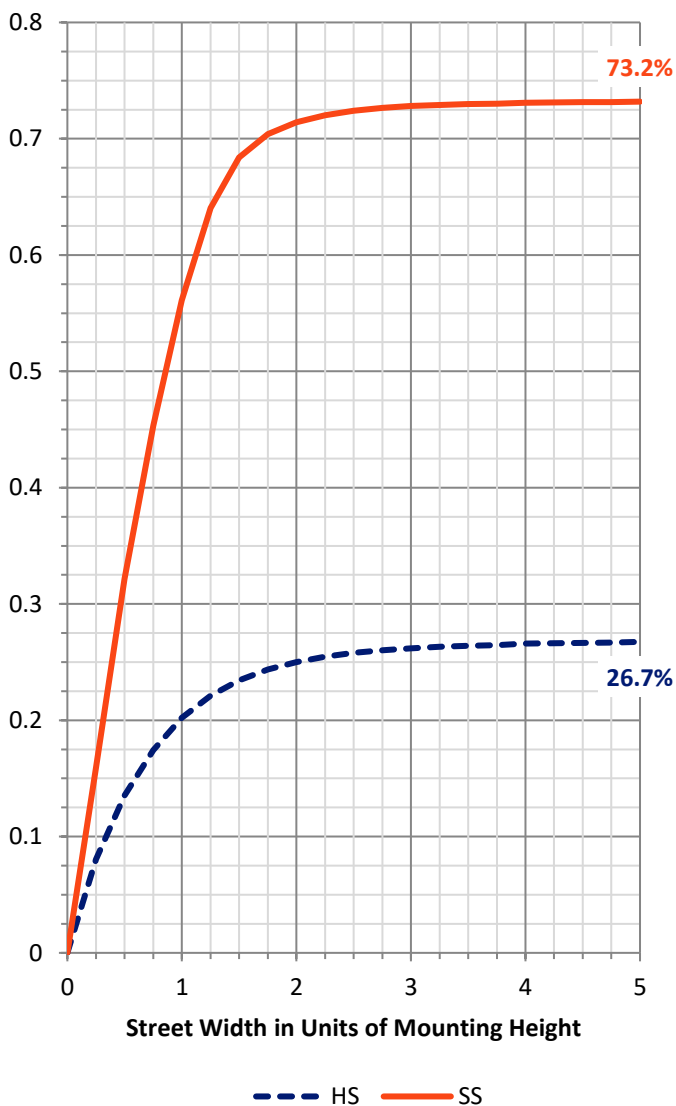
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12088.4	0.0	12088.4
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	32871.5	0.0	32871.5
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	44959.9	0.0	44959.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	853.1	1.9
10°-20°	2679.9	6.0
20°-30°	4686.8	10.4
30°-40°	7338.1	16.3
40°-50°	10674.9	23.7
50°-60°	11732.4	26.1
60°-70°	5236.8	11.6
70°-80°	1512.6	3.4
80°-90°	245.3	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°	44959.9	100.0
0°-180°	44959.9	100.0

**Coefficient of Utilization**



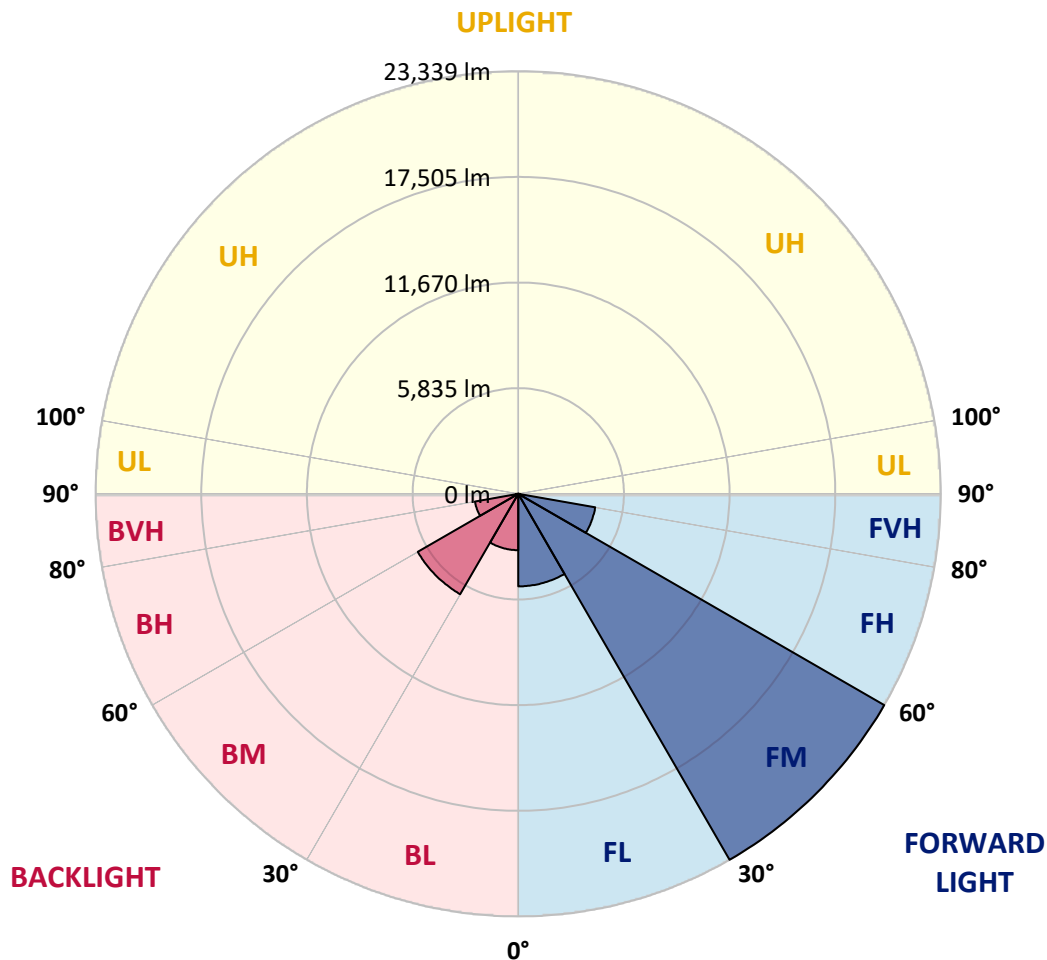
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5109.2	11.4			
FM (30°-60°)	23339.5	51.9			
FH (60°-80°)	4317.2	9.6			G2/5000
FVH (80°-90°)	105.6	0.2			G2/225
BL (0°-30°)	3110.6	6.9	B4/5000		
BM (30°-60°)	6405.9	14.2	B4/8500		
BH (60°-80°)	2432.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	139.7	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°	8602.5	8602.5	8602.5	8602.5	8602.5	8602.5	8602.5	8602.5	8602.5	8602.5	8602.5
2.5°	9476.7	9325.2	9313.6	9272.8	9296.1	9191.1	9080.4	8934.7	8783.2	8876.4	8655.0
5°	10141.1	9937.2	10018.7	9878.9	9896.4	9756.5	9529.2	9360.2	9173.6	9063.0	8905.6
7.5°	10374.2	10391.7	10450.0	10426.7	10310.2	10310.2	10158.6	9861.4	9535.0	9470.9	9208.6
10°	10689.0	10694.8	10630.7	10648.2	10811.4	10735.6	10601.6	10473.4	10053.7	9978.0	9511.7
12.5°	10799.7	10694.8	10799.7	10893.0	11085.3	11190.3	11161.1	11067.8	10619.1	10566.6	9884.7
15°	10817.2	10753.1	10840.6	11050.3	11219.4	11662.3	11883.8	11819.7	11225.2	11231.1	10304.4
17.5°	10735.6	10823.1	10858.0	11038.7	11429.2	11843.0	12484.1	12571.5	12082.0	12006.2	10834.7
20°	10846.4	10782.3	10828.9	10992.0	11510.8	12157.7	12997.0	13574.0	12886.2	12833.8	11382.6
22.5°	11271.8	11184.4	11172.8	11277.6	11650.6	12320.9	13539.0	14576.5	13865.4	13894.6	12064.5
25°	11604.0	11650.6	11609.8	11604.0	11837.2	12565.7	14255.9	15771.3	15194.3	15025.2	12868.7
27.5°	12175.2	12285.9	12204.3	12315.1	12262.6	12932.9	14768.8	17094.3	16628.0	16400.7	13597.3
30°	12967.9	13026.2	12950.4	12950.4	12793.0	13445.7	15235.1	18475.5	18283.2	17974.3	14454.0
32.5°	14011.1	14098.5	13947.0	13859.6	13836.2	14209.3	16074.3	19839.4	20165.8	19903.4	15590.5
35°	15392.4	15339.9	15159.3	15077.7	14762.9	15380.7	17321.6	21407.2	22263.9	21797.6	16966.0
37.5°	16610.5	16528.9	16517.2	16062.7	16138.5	16645.5	18382.3	22596.1	24297.9	24163.9	18417.2
40°	17747.0	17822.8	17945.2	17688.8	17572.2	18131.7	19617.8	23505.3	25877.4	25824.9	19536.3
42.5°	18965.1	18895.2	19110.8	18895.2	18720.3	19513.0	20958.4	24134.8	27264.5	26833.3	20707.8
45°	20731.1	20509.6	20585.3	20602.8	20474.6	20766.1	21512.0	24589.4	28237.8	28191.2	21564.5
47.5°	22205.6	22211.5	22083.2	21984.2	21593.7	21885.1	22129.8	24874.9	29356.9	29281.1	21896.7
50°	22753.5	22677.7	23050.7	23266.3	23289.6	22695.2	22613.6	25032.3	29945.6	29613.3	22228.9
52.5°	20783.5	20853.4	21442.1	22724.3	23464.5	23528.7	23179.0	25358.7	30184.5	30114.5	22497.0
55°	16727.1	17065.1	18032.6	19513.0	21267.3	23196.5	23790.9	25696.8	30312.8	30254.4	23686.0
56°	14704.6	14966.9	16225.8	17385.7	19588.7	21990.0	23406.2	26058.0	30411.8	30685.7	23965.7
57.5°	11837.2	12140.3	13043.7	14360.8	16960.2	19693.6	22345.5	25615.2	30027.1	30132.0	24169.8
60°	7401.9	7431.0	8515.0	9383.5	11213.6	13882.9	17053.5	22287.2	27789.1	27637.5	21710.2
62.5°	4854.9	4860.7	5845.7	6556.8	7390.2	8002.2	10036.2	14780.4	20503.7	20235.6	15456.5
65°	3409.5	3485.3	4248.8	5198.8	5536.8	5216.3	5152.1	7792.4	11452.5	11067.8	8305.2
67.5°	2494.5	2500.3	3176.4	4196.3	4685.9	3969.0	3223.0	3805.9	4534.3	4522.7	3846.6
70°	1649.4	1719.3	2238.1	3135.6	3695.1	3188.1	2634.3	2721.8	2885.0	2885.0	2861.7
72.5°	961.7	1025.8	1369.7	1987.5	2074.8	1993.3	2086.5	2331.3	2436.2	2430.4	2401.2
75°	547.8	577.0	652.8	827.6	1031.6	1218.1	1532.8	1765.9	1870.9	1935.0	1859.2
77.5°	320.6	338.0	384.7	472.1	536.2	658.6	833.4	996.7	1136.5	1119.0	1130.6
80°	169.0	169.0	215.6	279.7	373.0	466.3	553.7	646.9	722.7	740.2	757.7
82.5°	99.1	104.9	139.9	204.0	268.1	332.2	425.5	489.5	559.5	565.3	577.0
85°	52.5	58.3	87.5	134.1	180.6	204.0	209.8	198.1	215.6	204.0	233.1
87.5°	17.5	17.5	29.2	23.3	23.3	29.2	35.0	35.0	46.6	46.6	46.6
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°	8602.5	8602.5	8602.5	8602.5	8602.5	8602.5	8602.5	8602.5	8602.5	8602.5	8602.5
2.5°	8649.1	8649.1	8550.0	8363.5	8334.4	8258.6	8188.6	8182.8	8130.4	8083.8	8060.5
5°	8812.3	8631.6	8485.9	8316.9	8118.8	8025.5	7920.6	7804.1	7757.4	7804.1	7798.2
7.5°	8998.8	8847.3	8410.2	8095.5	7868.1	7774.9	7658.3	7535.9	7547.6	7547.6	7466.0
10°	9179.5	8975.5	8276.1	7873.9	7541.8	7471.8	7407.7	7454.3	7512.6	7524.3	7471.8
12.5°	9482.5	9022.2	8212.0	7652.5	7442.7	7291.1	7331.9	7460.2	7582.5	7547.6	7588.3
15°	9709.8	9063.0	7920.6	7425.2	7162.9	7232.9	7378.6	7466.0	7670.0	7646.6	7687.5
17.5°	9931.4	9086.2	7635.0	7122.1	7011.4	7203.8	7314.4	7565.0	7629.2	7769.1	7821.5
20°	10385.9	9132.8	7343.6	6935.6	6900.7	7122.1	7314.4	7431.0	7570.9	7693.3	7693.3
22.5°	10619.1	9109.5	7151.3	6690.8	6801.6	6941.4	7116.3	7314.4	7314.4	7431.0	7436.9
25°	10910.5	9016.3	6848.2	6574.3	6655.8	6789.9	6988.0	6918.2	6993.9	6993.9	7087.1
27.5°	11242.7	8818.1	6586.0	6364.4	6527.7	6673.3	6702.5	6655.8	6568.5	6556.8	6521.8
30°	11510.8	8573.3	6393.6	6294.5	6428.5	6510.2	6416.9	6317.8	6166.3	6154.6	6073.0
32.5°	11877.9	8270.3	6154.6	6119.6	6271.2	6277.1	6247.9	6096.3	5874.9	5781.6	5688.4
35°	12495.7	8095.5	5974.0	6026.4	6073.0	6055.5	6003.1	5839.9	5618.5	5577.6	5542.7
37.5°	12950.4	7967.2	5787.4	5851.6	5892.4	5915.7	5758.3	5577.6	5583.5	5501.9	5478.5
40°	13463.2	7885.6	5635.9	5665.1	5670.9	5746.6	5554.3	5466.9	5507.7	5455.2	5490.2
42.5°	14121.8	7908.9	5478.5	5455.2	5566.0	5536.8	5443.5	5327.0	5350.4	5193.0	5216.3
45°	14471.5	8066.3	5385.3	5280.4	5402.8	5396.9	5274.6	5163.8	5024.0	4720.9	4732.6
47.5°	14704.6	8107.1	5163.8	5093.9	5222.1	5297.9	5158.0	4901.5	4703.4	4487.7	4435.3
50°	14943.6	8182.8	5059.0	4913.2	4965.7	5146.3	4971.5	4726.7	4534.3	4342.1	4371.2
52.5°	15153.5	8328.6	4854.9	4639.3	4732.6	4930.7	4837.4	4540.2	4330.4	4173.0	4126.4
55°	16086.0	8655.0	4511.0	4231.3	4452.8	4703.4	4651.0	4289.6	4062.3	3980.7	3969.0
56°	16231.6	8666.6	4330.4	4091.5	4295.4	4627.6	4563.5	4178.8	3974.9	3846.6	3852.5
57.5°	16255.0	8526.7	4074.0	3963.2	4138.1	4516.9	4435.3	4091.5	3811.7	3695.1	3660.1
60°	14302.6	6655.8	3753.4	3683.4	3887.4	4178.8	4149.7	3852.5	3537.8	3403.7	3467.8
62.5°	9750.6	4878.2	3502.8	3491.2	3596.0	3881.6	3805.9	3537.8	3275.4	3188.1	3147.3
65°	5676.8	3700.9	3257.9	3211.4	3298.8	3450.3	3502.8	3223.0	2949.1	2890.8	2873.4
67.5°	3351.2	3059.8	2943.2	2867.5	2838.4	2931.6	2972.4	2809.2	2535.3	2453.7	2523.7
70°	2803.4	2721.8	2727.6	2599.4	2529.5	2465.3	2430.4	2284.7	2057.3	1952.5	1923.3
72.5°	2418.7	2383.7	2360.4	2243.9	2179.8	2034.0	1882.5	1736.8	1567.8	1480.4	1486.2
75°	1847.6	1835.9	1847.6	1789.3	1678.6	1562.0	1422.1	1235.6	1107.3	996.7	1020.0
77.5°	1101.5	1136.5	1154.0	1130.6	1084.0	979.2	891.7	769.3	646.9	559.5	547.8
80°	757.7	786.8	815.9	786.8	740.2	664.4	571.2	477.9	390.5	343.9	332.2
82.5°	577.0	606.1	623.6	594.5	536.2	454.6	390.5	326.4	256.4	209.8	198.1
85°	209.8	238.9	233.1	279.7	303.1	291.4	250.6	192.3	145.7	104.9	99.1
87.5°	58.3	52.5	58.3	58.3	58.3	52.5	46.6	46.6	46.6	29.2	23.3
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)