

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: P455346

Luminaire Tested: **GALN-SA6C-730-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455346  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-730-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29726 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

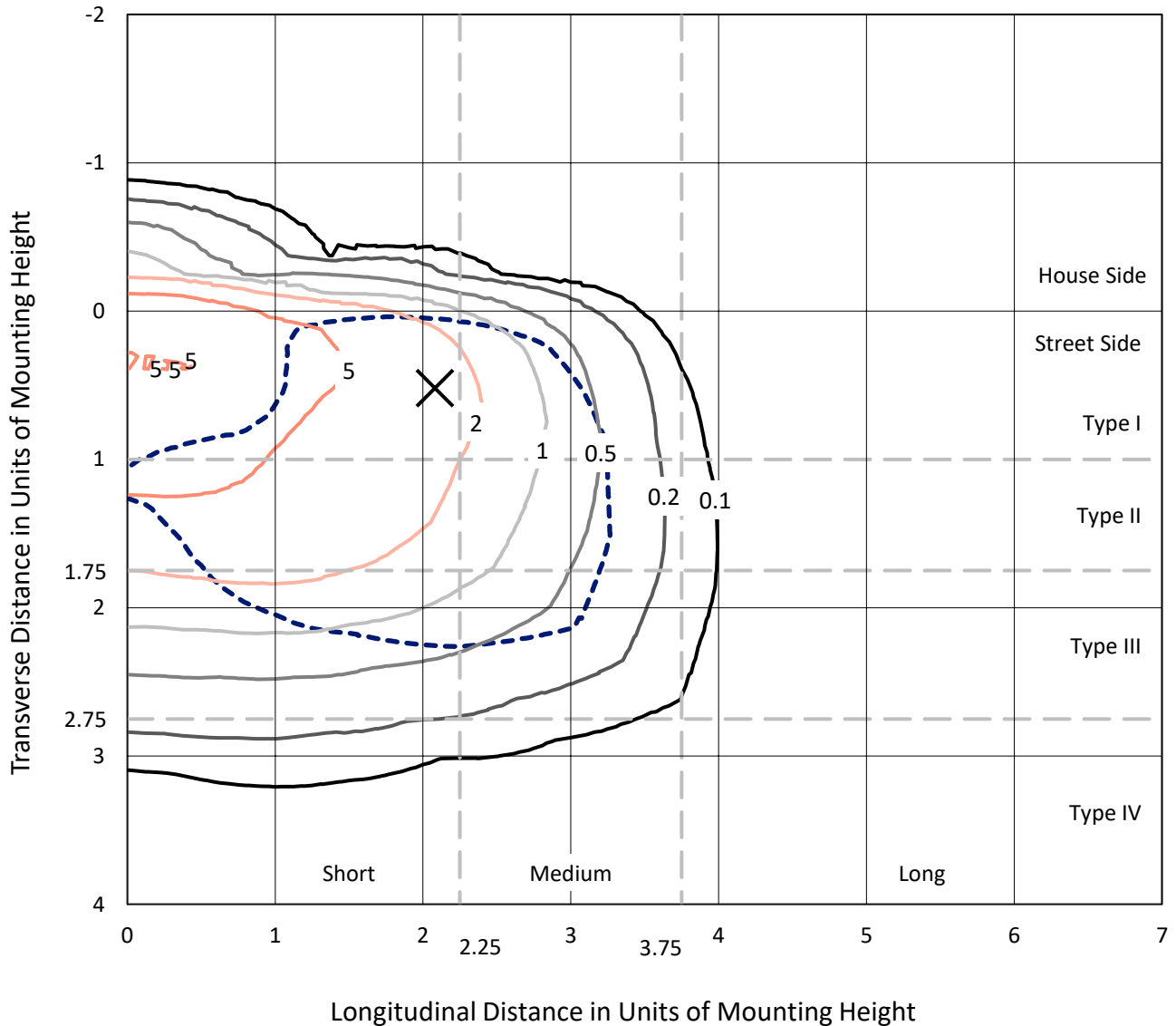
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

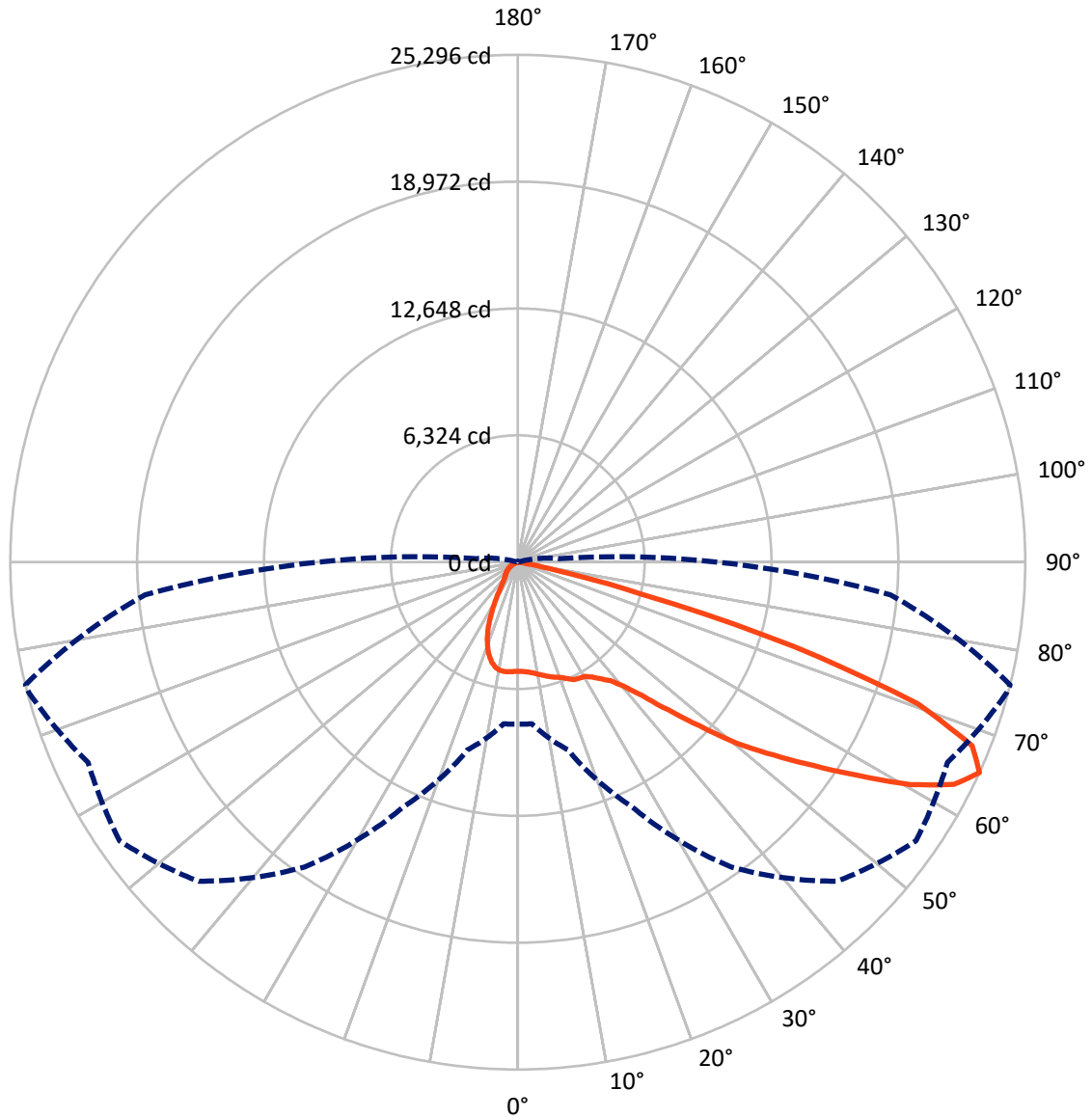
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P455346  
CATALOG NUMBER: GALN-SA6C-730-U-T3R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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 CATALOG NUMBER: GALN-SA6C-730-U-T3R-HSS

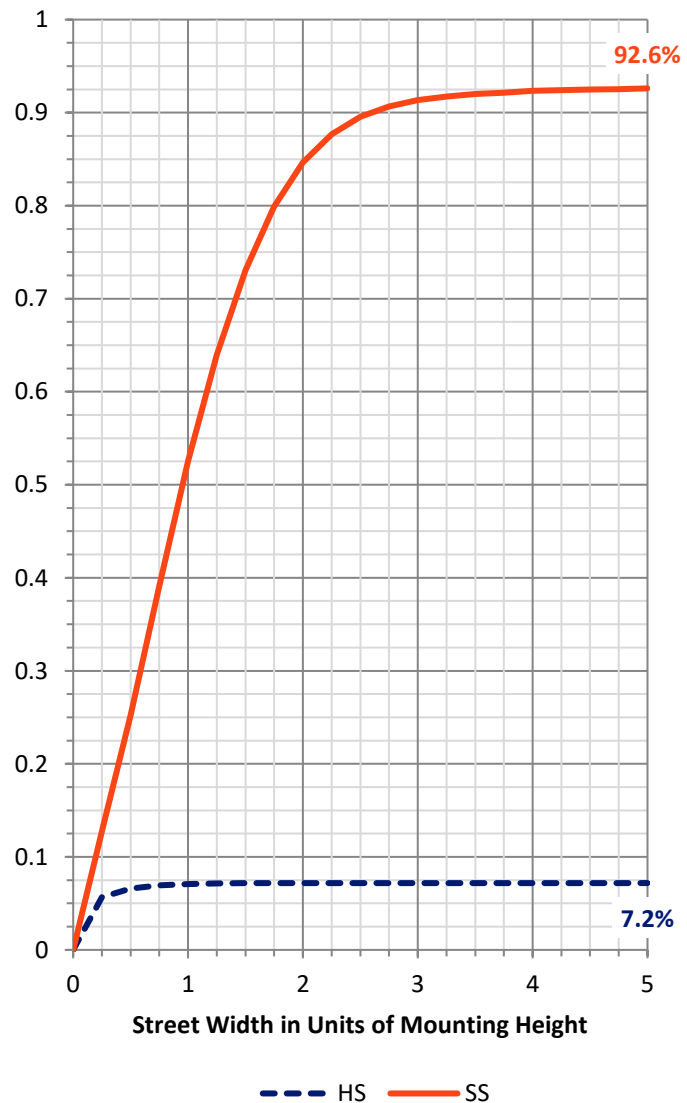
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2146.8	0.0	2146.8
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	27579.2	0.0	27579.2
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	29726.0	0.0	29726.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	447.9	1.5
10°-20°	997.4	3.4
20°-30°	1607.2	5.4
30°-40°	2794.5	9.4
40°-50°	4617.8	15.5
50°-60°	7133.6	24.0
60°-70°	8711.1	29.3
70°-80°	3306.1	11.1
80°-90°	110.3	0.4
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°	29726.0	100.0
0°-180°	29726.0	100.0



REPORT NUMBER: P455346

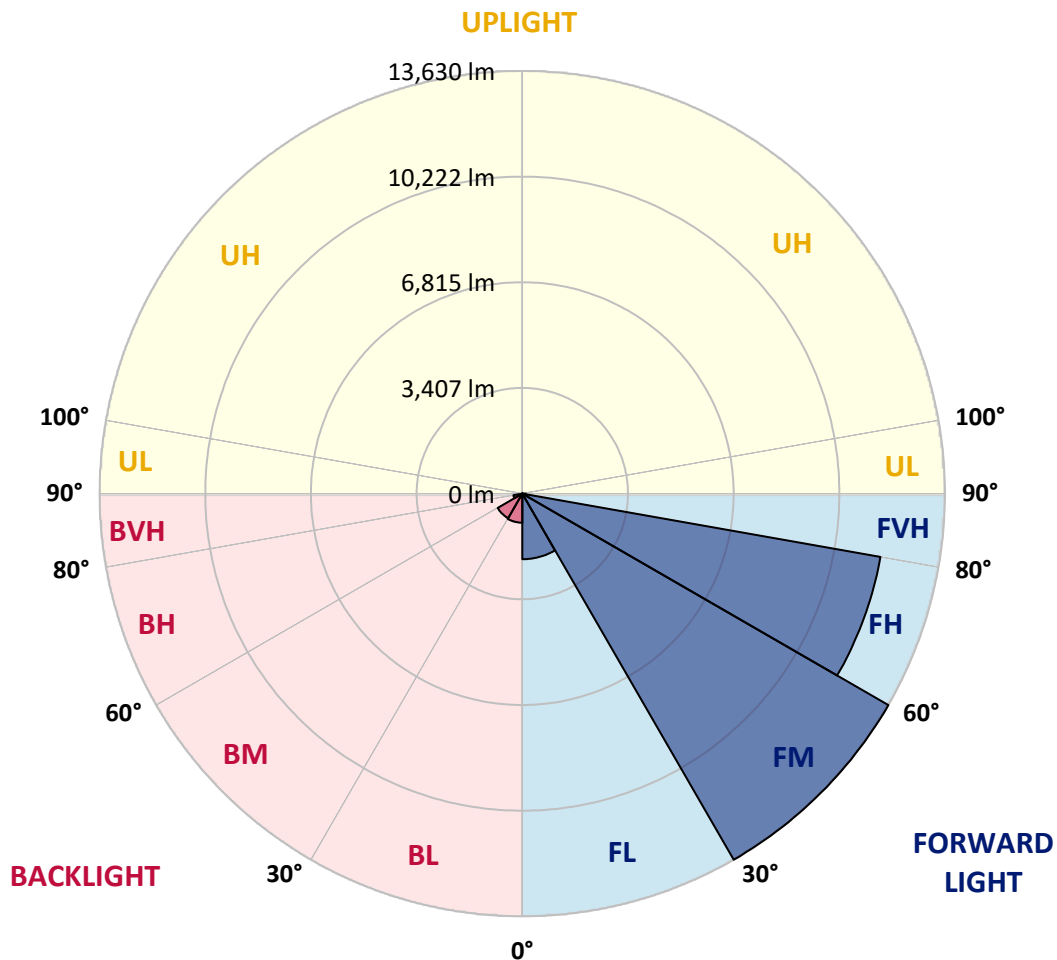
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2114.7	7.1			
FM (30°-60°)	13629.8	45.9			
FH (60°-80°)	11725.9	39.4			G4/12000
FVH (80°-90°)	108.8	0.4			G2/225
BL (0°-30°)	937.9	3.2	B2/1000		
BM (30°-60°)	916.1	3.1	B1/1000		
BH (60°-80°)	291.3	1.0	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5437.8	5437.8	5437.8	5437.8	5437.8	5437.8	5437.8	5437.8	5437.8	5437.8	5437.8
2.5°	5196.5	5198.6	5211.2	5242.7	5290.9	5330.8	5364.4	5418.9	5456.7	5460.9	5473.5
5°	4837.6	4812.4	4837.6	4919.4	4992.9	5104.1	5240.6	5377.0	5498.7	5507.1	5565.9
7.5°	4434.6	4455.6	4495.5	4579.4	4718.0	4888.0	5085.2	5328.7	5559.6	5580.5	5696.0
10°	4025.4	4071.6	4136.6	4264.6	4457.7	4678.1	4946.7	5295.1	5656.1	5685.5	5884.9
12.5°	3647.6	3668.6	3748.3	3920.4	4159.7	4470.3	4841.8	5276.2	5763.1	5798.8	6086.3
15°	3358.0	3385.3	3454.5	3609.8	3876.4	4275.1	4755.7	5269.9	5868.1	5918.4	6287.8
17.5°	3303.4	3320.2	3349.6	3454.5	3687.5	4119.8	4678.1	5267.8	5968.8	6029.7	6474.6
20°	3528.0	3513.3	3483.9	3473.4	3601.4	4000.2	4621.4	5284.6	6065.4	6134.6	6671.9
22.5°	4090.4	4109.3	3937.2	3733.7	3691.7	3981.3	4613.0	5364.4	6218.6	6300.4	6892.3
25°	5284.6	5139.8	4871.2	4384.3	4017.0	4096.7	4707.5	5553.3	6397.0	6487.2	7091.6
27.5°	6604.7	6560.7	6143.0	5341.3	4657.1	4340.2	4875.4	5698.1	6455.7	6548.1	7205.0
30°	7901.8	7954.2	7475.7	6590.0	5586.8	4791.4	5032.8	5752.6	6508.2	6604.7	7349.8
32.5°	9104.3	9167.3	8747.5	7870.3	6682.4	5572.2	5303.5	5964.6	6728.6	6827.2	7591.1
35°	10050.9	10059.3	9742.3	9043.5	7878.7	6520.8	5889.1	6336.1	7026.6	7142.0	7847.2
37.5°	10919.7	10907.1	10535.7	9933.3	8875.6	7463.1	6625.7	6764.2	7366.6	7486.2	8216.6
40°	11564.1	11572.4	11452.8	10886.2	9805.3	8334.1	7209.2	7165.1	7937.4	8124.2	8753.8
42.5°	11994.3	12071.9	12130.7	11843.2	10974.3	9406.6	8105.3	8023.5	8928.0	9083.3	9513.6
45°	12342.7	12481.2	12775.0	12760.3	12097.1	10722.5	9335.2	9167.3	10332.1	10497.9	10481.1
47.5°	12596.6	12737.3	13224.2	13518.0	13152.8	11998.5	10882.0	10737.2	12009.0	12189.5	11549.4
50°	12726.8	12894.7	13515.9	14084.6	13977.6	13228.4	12644.9	12653.3	14034.3	14208.5	12787.6
52.5°	12422.4	12640.7	13671.2	14695.4	14903.1	14405.7	14296.6	14573.6	15837.1	15986.1	13906.2
55°	11450.7	11725.7	13459.2	15215.9	15975.6	15795.1	16172.9	16594.7	17807.8	17904.3	15054.3
57.5°	10835.8	11127.5	12833.8	15658.7	17264.2	17541.3	18139.4	18447.9	19841.5	20087.0	16372.3
60°	10317.4	10546.2	12319.6	15753.1	18573.8	19677.8	20259.1	20578.1	22351.6	22511.1	17822.5
62.5°	9454.8	9717.2	11450.7	15094.1	19232.8	21388.3	22592.9	22450.2	24292.9	24404.1	18712.4
65°	8067.6	8090.6	9687.8	13438.2	18552.9	22498.5	24232.0	23633.9	25220.6	25296.1	18643.1
67.5°	6021.3	6243.8	7452.6	10563.0	15671.3	21549.9	24763.0	23665.4	24635.0	24425.1	17163.5
70°	3878.5	4048.5	5051.7	7324.6	11299.6	17984.1	23002.2	22043.1	21621.2	21155.3	14049.0
72.5°	1790.2	2008.5	3001.2	4184.9	6701.3	12810.7	18672.5	17908.5	15562.2	14412.0	8930.1
75°	780.7	835.3	1481.7	2207.9	3141.8	6774.7	12311.2	11117.0	7028.7	6420.0	3574.2
77.5°	476.4	512.1	776.5	1183.7	1234.1	2581.4	6632.0	4850.2	2172.2	1916.1	969.6
80°	323.2	363.1	564.6	619.1	421.8	719.9	2489.1	1294.9	438.6	419.7	207.8
82.5°	157.4	199.4	417.6	346.3	182.6	230.9	724.1	277.0	128.0	119.6	73.5
85°	23.1	39.9	235.1	226.7	81.9	54.6	128.0	69.3	44.1	42.0	33.6
87.5°	0.0	0.0	79.8	35.7	8.4	8.4	14.7	14.7	16.8	14.7	16.8
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°	5437.8	5437.8	5437.8	5437.8	5437.8	5437.8	5437.8	5437.8	5437.8	5437.8	5437.8
2.5°	5479.8	5490.3	5450.4	5393.8	5332.9	5272.0	5186.0	5108.3	5062.2	5089.4	5022.3
5°	5578.4	5570.1	5465.1	5293.0	5064.3	4789.3	4516.5	4283.5	4208.0	4094.6	4082.0
7.5°	5714.9	5691.8	5469.3	5074.8	4558.5	4042.2	3538.5	3204.8	3013.8	2852.2	2856.4
10°	5905.9	5838.7	5421.0	4690.7	3840.7	3062.1	2419.8	1979.1	1788.1	1727.3	1679.0
12.5°	6103.1	5973.0	5286.7	4172.3	2990.7	2092.4	1471.2	1202.6	1085.0	1047.3	1043.1
15°	6279.4	6073.8	5051.7	3549.0	2174.3	1336.9	1003.2	915.1	900.4	902.5	900.4
17.5°	6453.6	6153.5	4726.4	2887.9	1477.5	959.1	862.6	841.6	847.9	856.3	854.2
20°	6598.4	6170.3	4310.8	2203.7	1045.2	841.6	810.1	805.9	812.2	818.5	818.5
22.5°	6755.8	6182.9	3817.6	1525.8	854.2	782.8	766.0	766.0	774.4	782.8	784.9
25°	6873.4	6113.6	3227.9	1095.5	753.4	726.2	717.8	719.9	728.3	732.5	730.4
27.5°	6892.3	5918.4	2602.4	839.5	684.2	656.9	648.5	656.9	646.4	652.7	648.5
30°	6909.1	5670.8	1968.6	707.3	621.2	579.3	566.7	554.1	545.7	535.2	533.1
32.5°	6961.5	5379.1	1437.6	635.9	562.5	516.3	486.9	451.2	423.9	415.6	413.5
35°	6984.6	5028.6	1055.7	579.3	510.0	459.6	407.2	356.8	316.9	302.2	312.7
37.5°	7072.8	4688.6	818.5	537.3	463.8	400.9	333.7	270.7	233.0	224.6	228.8
40°	7253.2	4319.2	686.3	501.6	423.9	346.3	264.4	203.6	178.4	170.0	167.9
42.5°	7542.9	3951.9	610.7	468.0	384.1	291.7	207.8	159.5	138.5	132.2	132.2
45°	7895.5	3599.3	558.3	432.3	342.1	235.1	163.7	128.0	115.4	111.2	111.2
47.5°	8359.3	3290.8	514.2	396.7	295.9	186.8	132.2	111.2	102.8	104.9	107.0
50°	8829.4	3062.1	465.9	356.8	243.5	153.2	113.3	98.6	96.5	98.6	98.6
52.5°	9184.1	2927.7	400.9	302.2	191.0	128.0	100.7	92.3	90.2	86.0	86.0
55°	9662.6	2898.4	319.0	245.6	151.1	107.0	90.2	83.9	77.7	73.5	71.4
57.5°	10277.5	2931.9	245.6	191.0	117.5	88.1	79.8	69.3	60.9	52.5	52.5
60°	10659.5	2856.4	191.0	146.9	86.0	71.4	60.9	50.4	39.9	33.6	31.5
62.5°	10537.8	2537.4	151.1	109.1	60.9	52.5	39.9	33.6	23.1	16.8	14.7
65°	9910.2	2048.4	121.7	75.6	44.1	31.5	21.0	21.0	10.5	2.1	0.0
67.5°	8674.1	1517.4	96.5	50.4	25.2	14.7	10.5	6.3	0.0	0.0	0.0
70°	7060.2	1095.5	75.6	31.5	14.7	10.5	4.2	2.1	0.0	0.0	0.0
72.5°	4482.9	627.5	58.8	18.9	10.5	4.2	0.0	0.0	0.0	0.0	0.0
75°	1733.6	245.6	39.9	12.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	491.1	115.4	23.1	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	128.0	50.4	12.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	60.9	21.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.7	8.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.8	2.1	0.0	0.0	0.0	0.0	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)