

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: P459377

Luminaire Tested: **GALN-SA8B-735-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459377  
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-SA8B-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 800mA 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: 33512 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

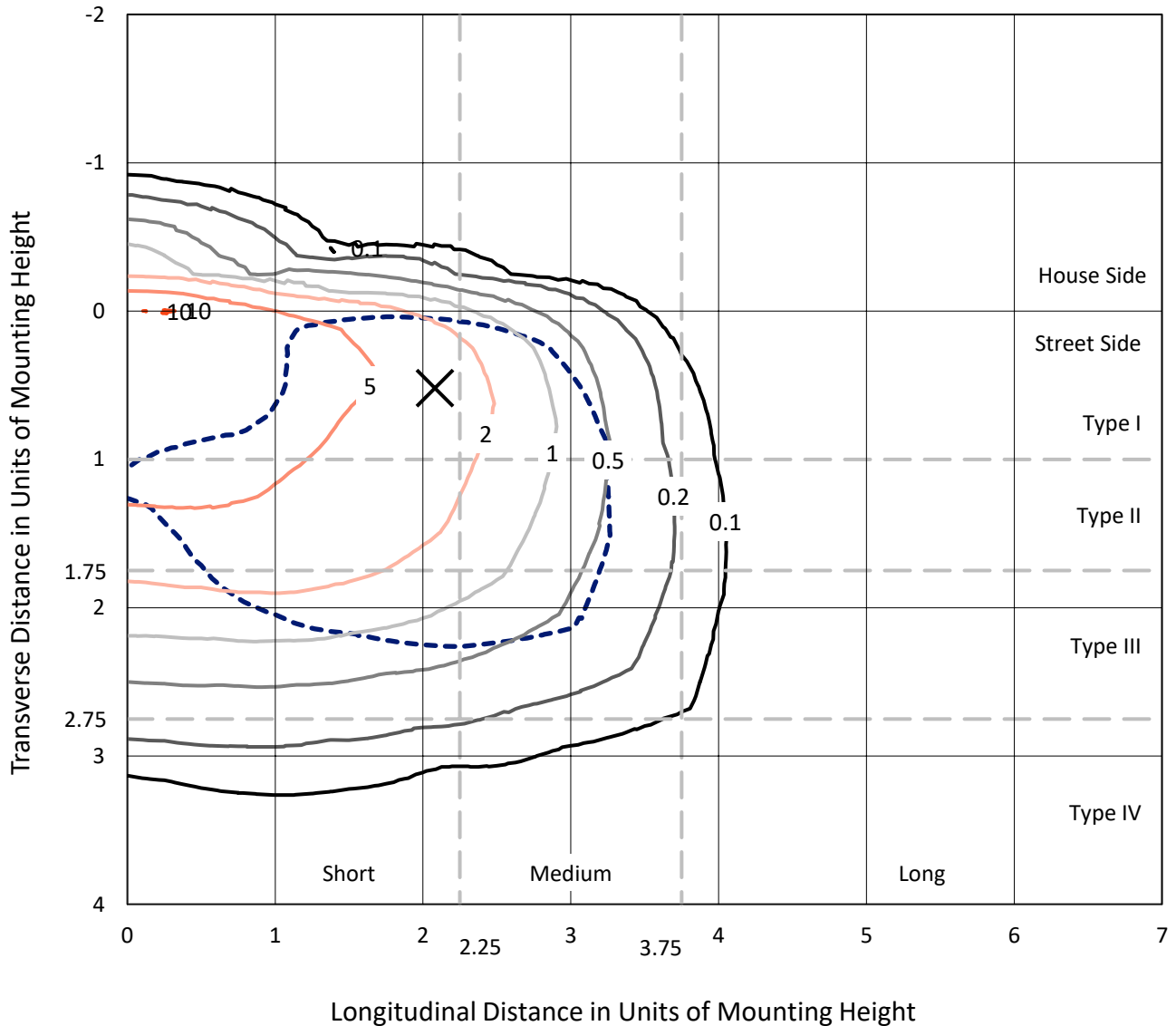
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

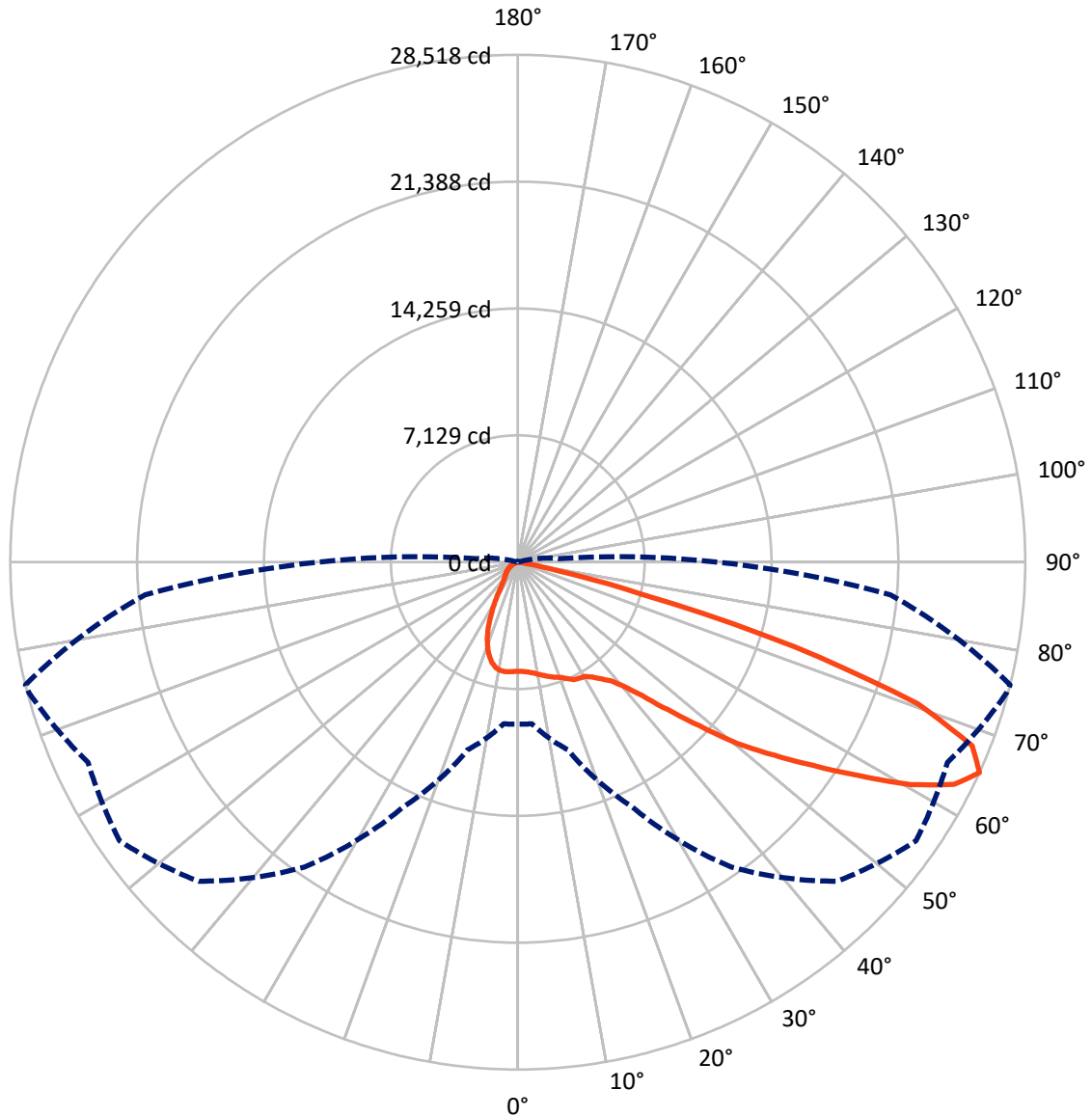
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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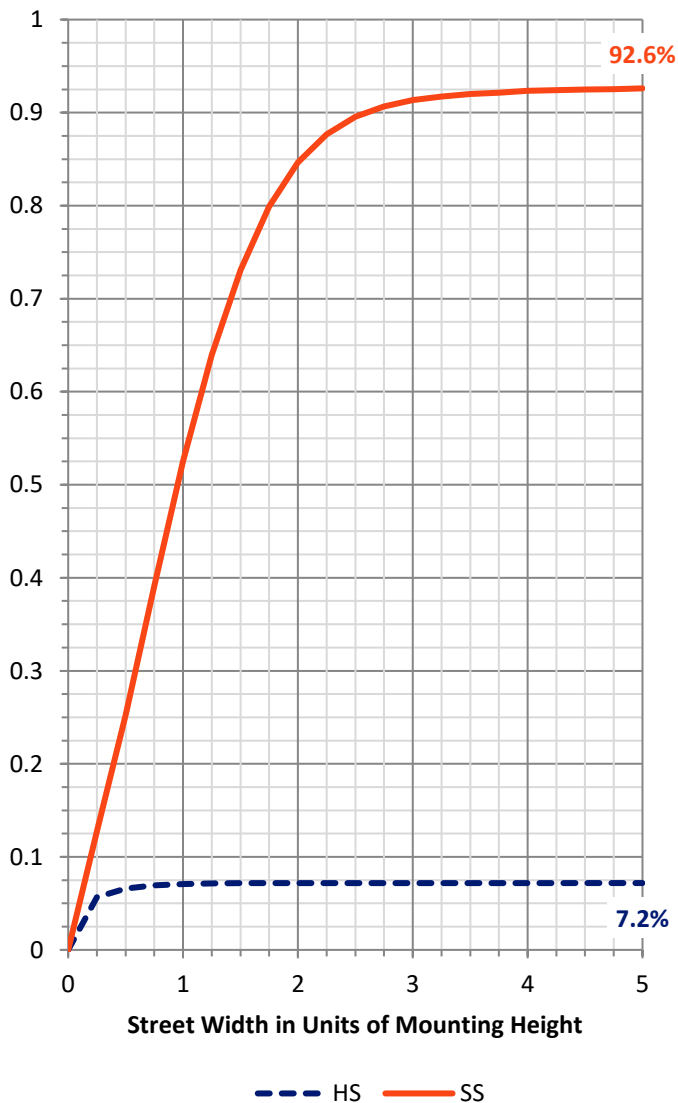
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2420.2	0.0	2420.2
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	31091.8	0.0	31091.8
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	33512.0	0.0	33512.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	505.0	1.5
10°-20°	1124.4	3.4
20°-30°	1811.9	5.4
30°-40°	3150.5	9.4
40°-50°	5206.0	15.5
50°-60°	8042.1	24.0
60°-70°	9820.6	29.3
70°-80°	3727.2	11.1
80°-90°	124.4	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°	33512.0	100.0
0°-180°	33512.0	100.0

**Coefficient of Utilization**



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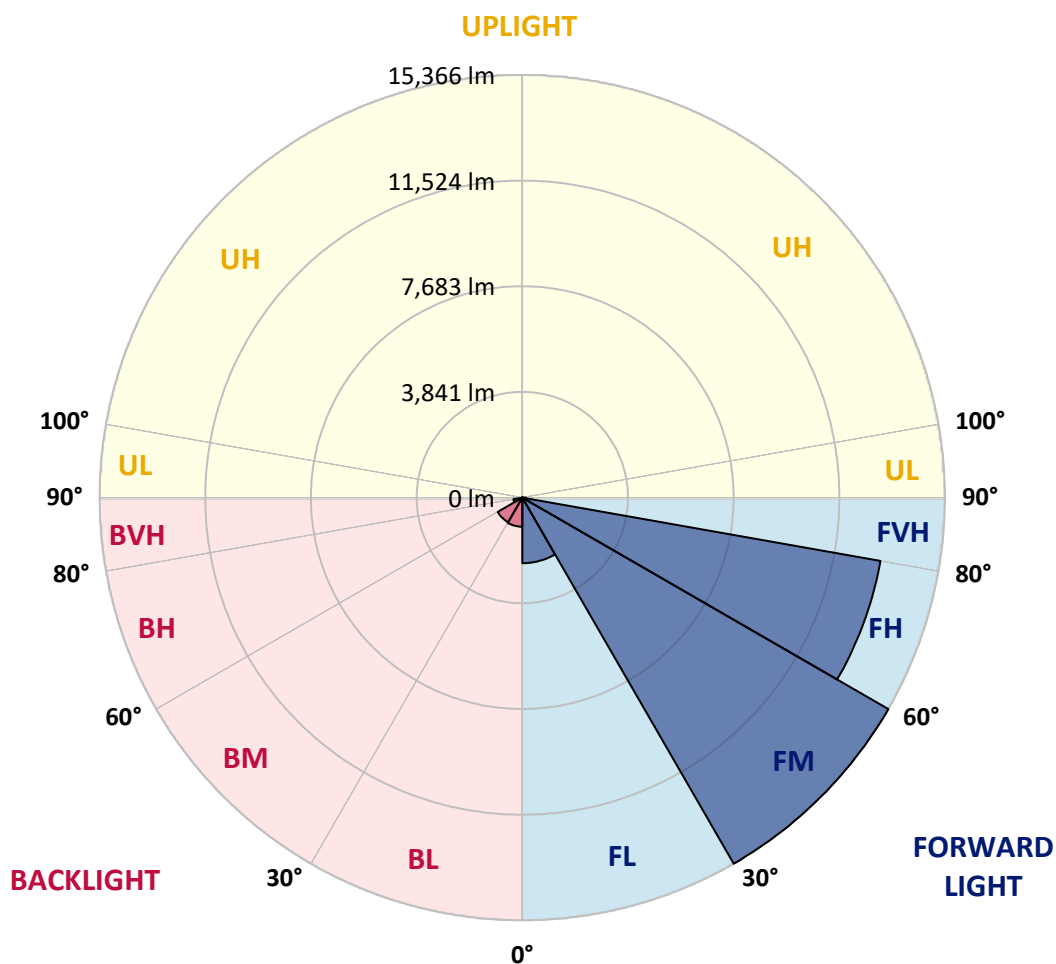
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2384.0	7.1			
FM	(30°-60°)	15365.8	45.9			
FH	(60°-80°)	13219.3	39.4			G5
FVH	(80°-90°)	122.7	0.4			G2/225
BL	(0°-30°)	1057.3	3.2	B3/2500		
BM	(30°-60°)	1032.8	3.1	B2/2500		
BH	(60°-80°)	328.4	1.0	B1/500		G1/500
BVH	(80°-90°)	1.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6130.4	6130.4	6130.4	6130.4	6130.4	6130.4	6130.4	6130.4	6130.4	6130.4	6130.4
2.5°	5858.3	5860.7	5874.9	5910.4	5964.8	6009.7	6047.6	6109.1	6151.7	6156.4	6170.6
5°	5453.7	5425.3	5453.7	5546.0	5628.8	5754.2	5908.0	6061.8	6199.0	6208.5	6274.7
7.5°	4999.4	5023.1	5068.1	5162.7	5318.9	5510.5	5732.9	6007.4	6267.6	6291.3	6421.4
10°	4538.1	4590.1	4663.5	4807.8	5025.5	5273.9	5576.8	5969.5	6376.5	6409.6	6634.4
12.5°	4112.2	4135.8	4225.8	4419.8	4689.5	5039.7	5458.5	5948.2	6497.2	6537.4	6861.5
15°	3785.7	3816.4	3894.5	4069.6	4370.1	4819.6	5361.5	5941.1	6615.5	6672.2	7088.7
17.5°	3724.1	3743.1	3776.2	3894.5	4157.1	4644.5	5273.9	5938.8	6729.0	6797.6	7299.2
20°	3977.3	3960.8	3927.6	3915.8	4060.1	4509.7	5210.0	5957.7	6837.9	6915.9	7521.6
22.5°	4611.4	4632.7	4438.7	4209.2	4161.9	4488.4	5200.6	6047.6	7010.6	7102.9	7770.1
25°	5957.7	5794.4	5491.6	4942.7	4528.6	4618.5	5307.0	6260.5	7211.7	7313.4	7994.9
27.5°	7445.9	7396.2	6925.4	6021.6	5250.2	4893.0	5496.3	6423.8	7277.9	7382.1	8122.6
30°	8908.1	8967.3	8427.8	7429.4	6298.4	5401.7	5673.8	6485.3	7337.1	7445.9	8285.9
32.5°	10263.9	10334.9	9861.7	8872.7	7533.5	6281.8	5979.0	6724.3	7585.5	7696.7	8558.0
35°	11331.0	11340.4	10983.2	10195.3	8882.1	7351.3	6639.1	7143.1	7921.5	8051.6	8846.6
37.5°	12310.5	12296.3	11877.5	11198.5	10006.0	8413.6	7469.6	7625.8	8304.8	8439.7	9263.1
40°	13036.9	13046.4	12911.5	12272.7	11054.1	9395.6	8127.4	8077.7	8948.4	9158.9	9868.8
42.5°	13521.9	13609.5	13675.7	13351.6	12372.0	10604.6	9137.7	9045.4	10065.1	10240.2	10725.3
45°	13914.7	14070.9	14402.1	14385.5	13637.9	12088.1	10524.2	10334.9	11648.0	11834.9	11816.0
47.5°	14201.0	14359.5	14908.4	15239.7	14828.0	13526.7	12267.9	12104.7	13538.5	13742.0	13020.3
50°	14347.7	14537.0	15237.3	15878.5	15757.8	14913.2	14255.4	14264.9	15821.7	16018.1	14416.3
52.5°	14004.6	14250.7	15412.4	16567.0	16801.3	16240.5	16117.5	16429.8	17854.2	18022.1	15677.4
55°	12909.1	13219.1	15173.4	17153.8	18010.3	17806.8	18232.7	18708.3	20075.9	20184.7	16971.6
57.5°	12215.9	12544.8	14468.3	17653.0	19463.1	19775.4	20449.7	20797.5	22368.6	22645.4	18457.5
60°	11631.5	11889.4	13888.7	17759.5	20939.5	22184.0	22839.4	23199.0	25198.3	25378.2	20092.4
62.5°	10659.0	10954.8	12909.1	17016.6	21682.4	24112.3	25470.4	25309.5	27386.9	27512.3	21095.6
65°	9095.1	9121.1	10921.6	15149.8	20915.8	25364.0	27318.3	26644.0	28432.7	28517.9	21017.5
67.5°	6788.2	7039.0	8401.8	11908.3	17667.2	24294.5	27916.9	26679.5	27772.6	27536.0	19349.5
70°	4372.4	4564.1	5695.1	8257.5	12738.8	20274.6	25931.8	24850.5	24375.0	23849.7	15838.3
72.5°	2018.2	2264.3	3383.4	4717.9	7554.8	14442.3	21050.7	20189.4	17544.2	16247.6	10067.5
75°	880.2	941.7	1670.4	2489.1	3542.0	7637.6	13879.2	12532.9	7923.9	7237.7	4029.4
77.5°	537.1	577.3	875.4	1334.4	1391.2	2910.2	7476.7	5467.9	2448.9	2160.2	1093.1
80°	364.4	409.3	636.5	698.0	475.6	811.6	2806.1	1459.8	494.5	473.2	234.2
82.5°	177.5	224.8	470.8	390.4	205.8	260.3	816.3	312.3	144.3	134.9	82.8
85°	26.0	45.0	265.0	255.5	92.3	61.5	144.3	78.1	49.7	47.3	37.9
87.5°	0.0	0.0	89.9	40.2	9.5	9.5	16.6	16.6	18.9	16.6	18.9
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°	6130.4	6130.4	6130.4	6130.4	6130.4	6130.4	6130.4	6130.4	6130.4	6130.4	6130.4
2.5°	6177.7	6189.6	6144.6	6080.7	6012.1	5943.5	5846.5	5758.9	5706.9	5737.7	5661.9
5°	6288.9	6279.5	6161.2	5967.2	5709.3	5399.3	5091.7	4829.1	4743.9	4616.1	4602.0
7.5°	6442.7	6416.7	6165.9	5721.1	5139.0	4557.0	3989.1	3612.9	3397.6	3215.5	3220.2
10°	6658.0	6582.3	6111.5	5288.1	4329.9	3452.1	2728.0	2231.2	2015.9	1947.3	1892.8
12.5°	6880.4	6733.8	5960.1	4703.7	3371.6	2358.9	1658.6	1355.7	1223.2	1180.7	1175.9
15°	7079.2	6847.3	5695.1	4001.0	2451.2	1507.2	1131.0	1031.6	1015.0	1017.4	1015.0
17.5°	7275.6	6937.2	5328.3	3255.7	1665.7	1081.3	972.4	948.8	955.9	965.3	963.0
20°	7438.8	6956.2	4859.8	2484.3	1178.3	948.8	913.3	908.6	915.7	922.8	922.8
22.5°	7616.3	6970.4	4303.8	1720.1	963.0	882.5	863.6	863.6	873.1	882.5	884.9
25°	7748.8	6892.3	3639.0	1235.1	849.4	818.7	809.2	811.6	821.0	825.7	823.4
27.5°	7770.1	6672.2	2933.9	946.4	771.3	740.6	731.1	740.6	728.7	735.8	731.1
30°	7789.0	6393.0	2219.3	797.4	700.3	653.0	638.8	624.6	615.2	603.3	601.0
32.5°	7848.2	6064.2	1620.7	716.9	634.1	582.0	548.9	508.7	477.9	468.5	466.1
35°	7874.2	5669.0	1190.1	653.0	574.9	518.2	459.0	402.2	357.3	340.7	352.5
37.5°	7973.6	5285.7	922.8	605.7	522.9	451.9	376.2	305.2	262.6	253.2	257.9
40°	8177.0	4869.3	773.7	565.5	477.9	390.4	298.1	229.5	201.1	191.6	189.3
42.5°	8503.6	4455.3	688.5	527.6	433.0	328.9	234.2	179.8	156.2	149.1	149.1
45°	8901.0	4057.8	629.4	487.4	385.7	265.0	184.6	144.3	130.1	125.4	125.4
47.5°	9423.9	3710.0	579.7	447.2	333.6	210.6	149.1	125.4	115.9	118.3	120.7
50°	9953.9	3452.1	525.3	402.2	274.5	172.7	127.8	111.2	108.8	111.2	111.2
52.5°	10353.8	3300.6	451.9	340.7	215.3	144.3	113.6	104.1	101.7	97.0	97.0
55°	10893.3	3267.5	359.6	276.8	170.4	120.7	101.7	94.6	87.5	82.8	80.4
57.5°	11586.5	3305.4	276.8	215.3	132.5	99.4	89.9	78.1	68.6	59.2	59.2
60°	12017.1	3220.2	215.3	165.6	97.0	80.4	68.6	56.8	45.0	37.9	35.5
62.5°	11879.9	2860.5	170.4	123.0	68.6	59.2	45.0	37.9	26.0	18.9	16.6
65°	11172.4	2309.3	137.2	85.2	49.7	35.5	23.7	23.7	11.8	2.4	0.0
67.5°	9778.9	1710.6	108.8	56.8	28.4	16.6	11.8	7.1	0.0	0.0	0.0
70°	7959.4	1235.1	85.2	35.5	16.6	11.8	4.7	2.4	0.0	0.0	0.0
72.5°	5053.9	707.4	66.2	21.3	11.8	4.7	0.0	0.0	0.0	0.0	0.0
75°	1954.4	276.8	45.0	14.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	553.7	130.1	26.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	144.3	56.8	14.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	68.6	23.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	40.2	9.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.9	2.4	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)