

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: P457175

Luminaire Tested: **GALN-SA8C-727-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34188 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

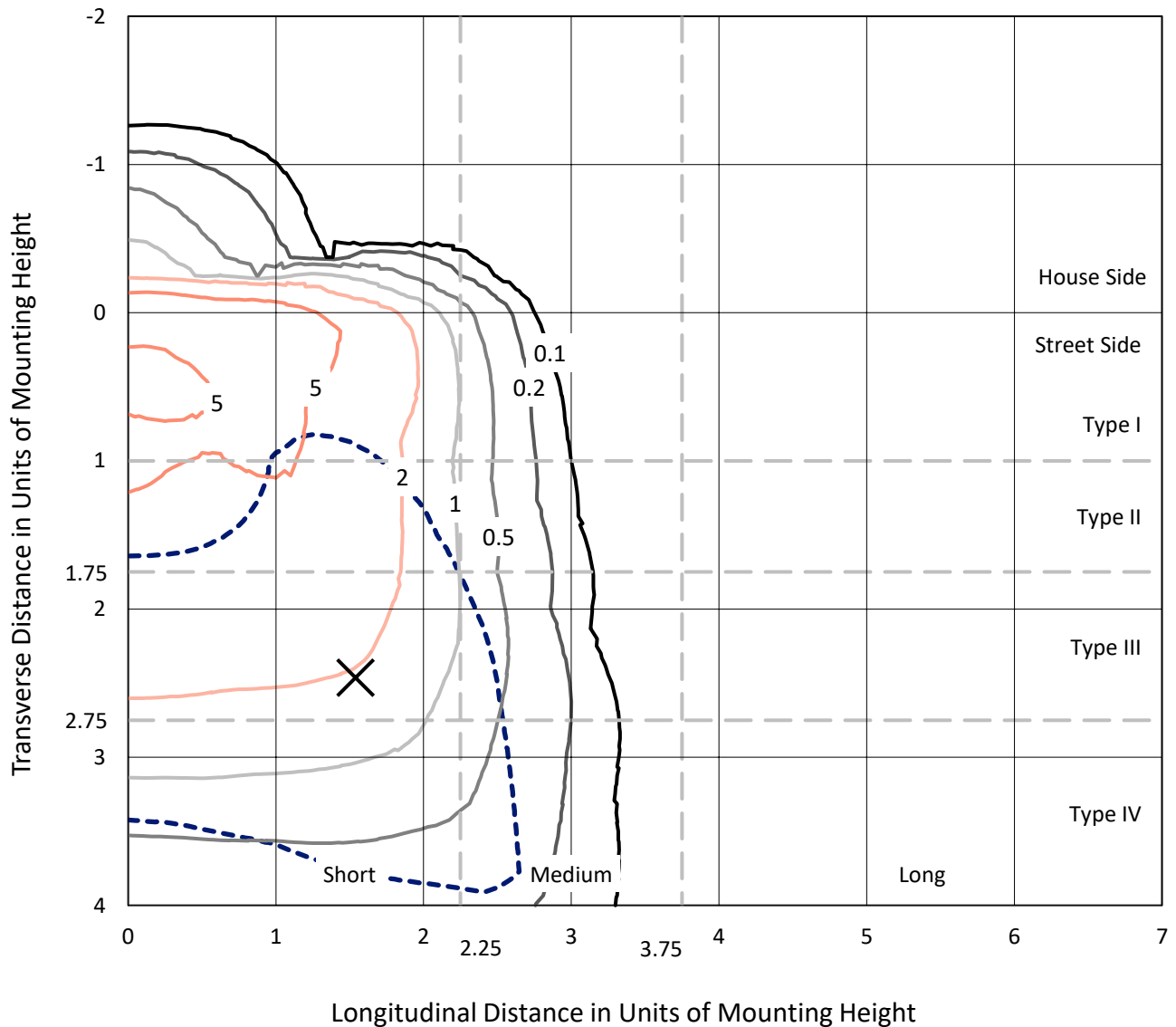
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

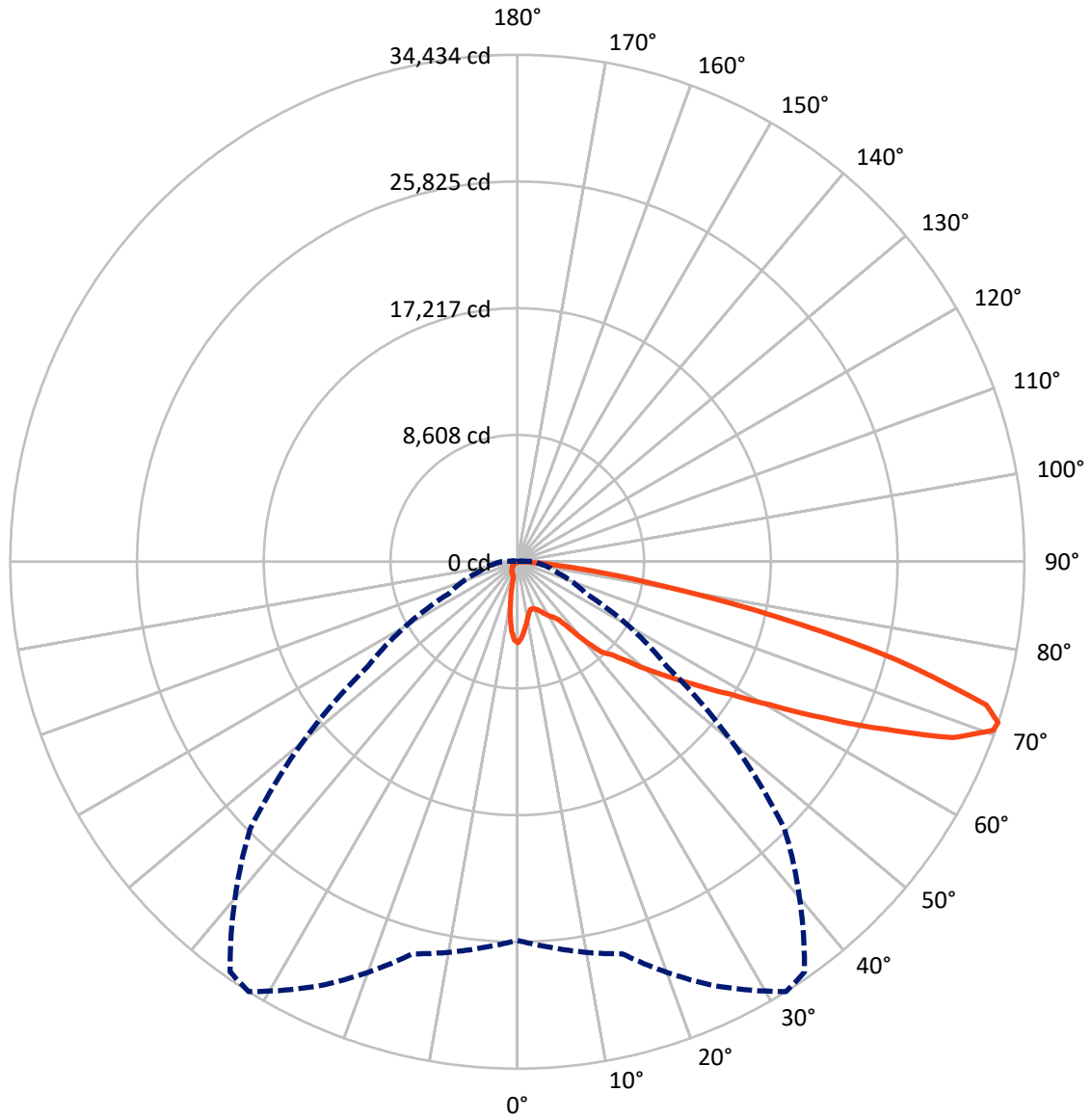
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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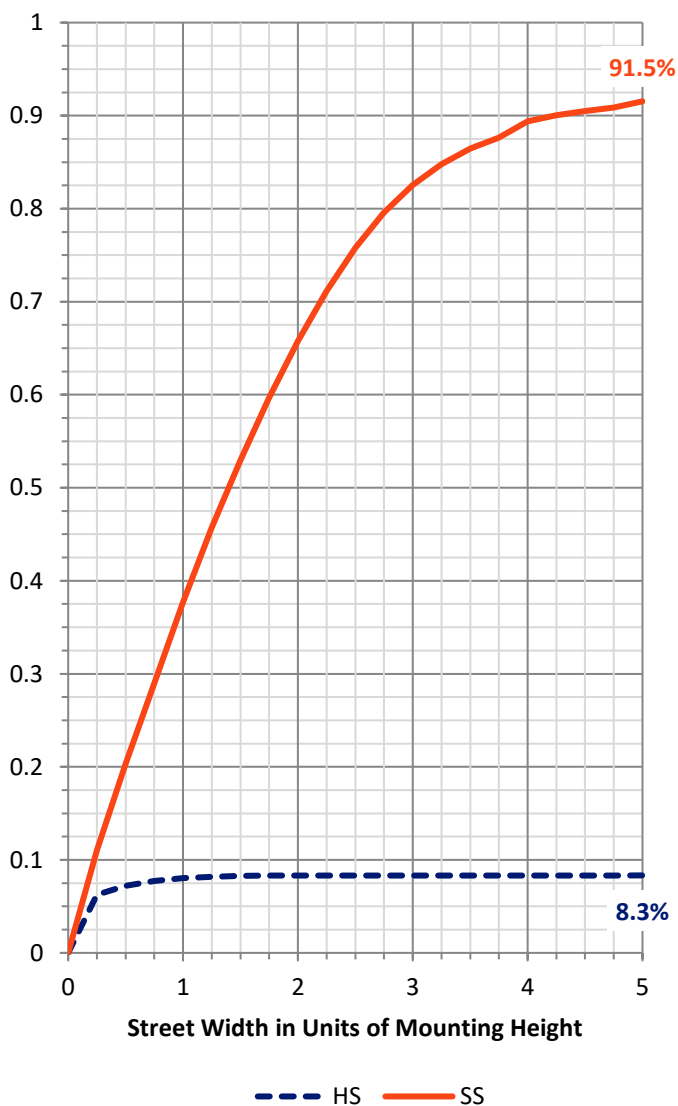
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2863.6	0.0	2863.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	31324.4	0.0	31324.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	34188.0	0.0	34188.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.1	1.3
10°-20°	970.3	2.8
20°-30°	1509.4	4.4
30°-40°	2514.7	7.4
40°-50°	4677.8	13.7
50°-60°	7510.3	22.0
60°-70°	10101.7	29.5
70°-80°	5993.5	17.5
80°-90°	463.3	1.4
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°	34188.0	100.0
0°-180°	34188.0	100.0

Coefficient of Utilization



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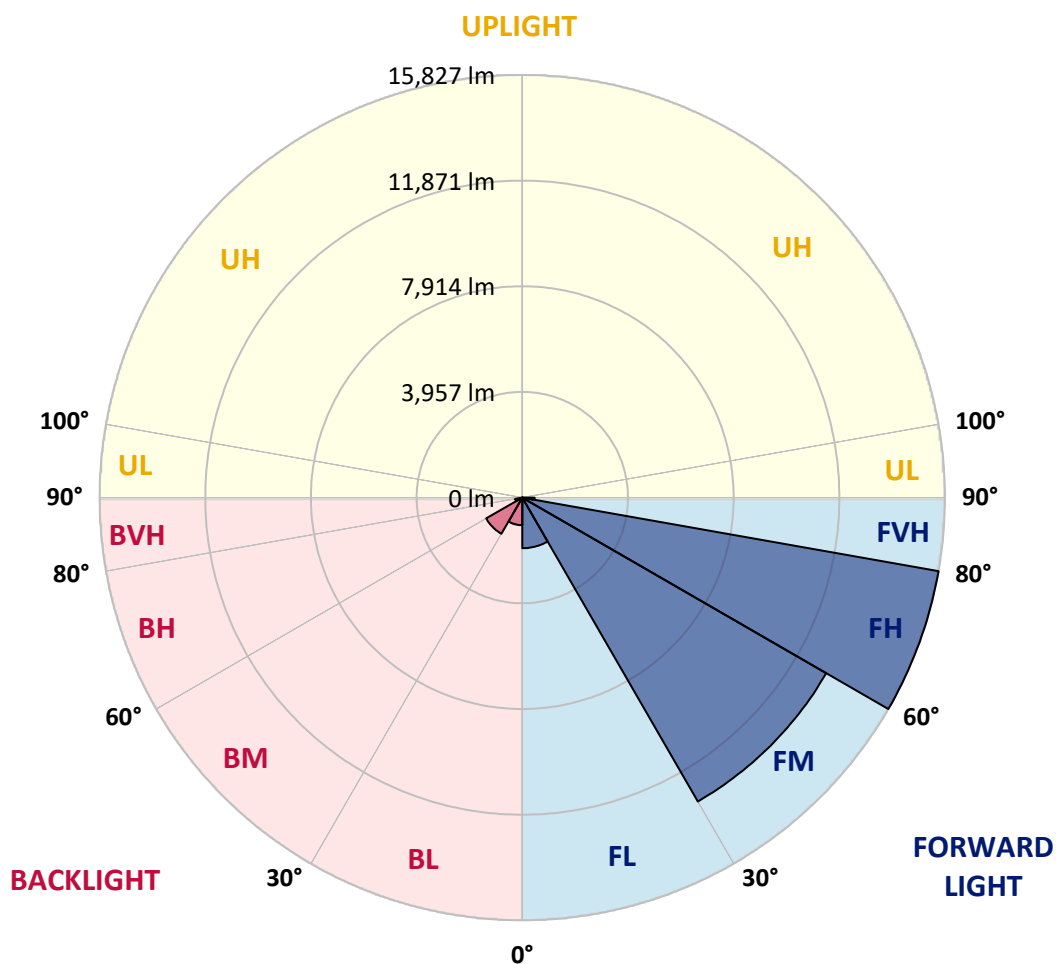
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1894.9	5.5			
FM	(30°-60°)	13140.6	38.4			
FH	(60°-80°)	15827.4	46.3			G5
FVH	(80°-90°)	461.5	1.3			G3/500
BL	(0°-30°)	1031.8	3.0	B3/2500		
BM	(30°-60°)	1562.2	4.6	B2/2500		
BH	(60°-80°)	267.8	0.8	B1/500		G1/500
BVH	(80°-90°)	1.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	5498.0	5498.0	5498.0	5498.0	5498.0	5498.0	5498.0	5498.0	5498.0	5498.0	5498.0
2.5°	5099.1	5151.6	5143.7	5162.1	5206.7	5225.0	5274.9	5330.0	5406.1	5458.6	5492.7
5°	4566.3	4605.7	4610.9	4702.8	4747.4	4797.3	4944.2	5104.3	5282.8	5424.5	5519.0
7.5°	3996.8	4017.8	4059.8	4180.6	4293.4	4343.3	4566.3	4844.5	5125.3	5390.4	5560.9
10°	3527.1	3550.7	3626.8	3755.4	3860.4	3926.0	4235.7	4584.7	4978.3	5372.0	5621.3
12.5°	3259.4	3272.5	3301.4	3416.9	3550.7	3621.6	3954.9	4353.8	4860.3	5379.9	5723.7
15°	3241.0	3235.8	3201.7	3248.9	3369.6	3443.1	3768.5	4196.3	4755.3	5406.1	5844.4
17.5°	3338.1	3325.0	3243.7	3243.7	3343.4	3403.8	3689.8	4112.3	4702.8	5466.5	6015.0
20°	3487.7	3466.7	3332.9	3322.4	3419.5	3482.5	3737.0	4117.6	4713.3	5579.3	6243.3
22.5°	3676.7	3653.1	3451.0	3456.2	3561.2	3624.2	3873.5	4212.0	4778.9	5718.4	6487.3
25°	3923.4	3897.1	3658.3	3647.8	3758.0	3813.1	4075.6	4380.0	4870.8	5891.6	6807.5
27.5°	4251.4	4196.3	3910.2	3894.5	4012.6	4083.5	4319.6	4605.7	5033.5	6130.4	7237.9
30°	4521.7	4461.4	4188.4	4146.4	4272.4	4327.5	4571.6	4910.1	5353.6	6547.7	7833.6
32.5°	4876.0	4786.8	4466.6	4356.4	4490.2	4561.1	4936.4	5477.0	5828.6	6988.6	8542.2
35°	5673.8	5618.7	5227.7	4841.9	4834.0	4923.2	5474.3	6049.1	6316.8	7676.2	9507.9
37.5°	6815.4	6776.0	6361.4	5844.4	5694.8	5652.8	6127.8	6678.9	7096.2	8620.9	10631.1
40°	8140.7	8048.8	7668.3	7230.0	7035.8	6912.5	6899.4	7615.8	8114.4	9904.2	11801.6
42.5°	9090.7	8922.7	8460.8	8429.3	8387.3	8258.8	7886.1	8985.7	9429.2	11284.6	13053.4
45°	10087.9	9833.4	9145.8	9027.7	9011.9	9004.1	9376.7	10607.5	10862.1	12780.5	14339.3
47.5°	10862.1	10660.0	10095.8	10043.3	10108.9	10287.4	11347.6	12329.1	12276.6	14113.6	15417.9
50°	11893.4	11741.2	11114.0	11213.7	11552.3	11843.6	13570.4	14205.5	13439.2	15163.4	16202.6
52.5°	13111.1	12830.3	12247.7	12518.0	13037.7	13523.2	15929.7	15848.3	14255.3	15953.3	16787.8
55°	14166.1	13966.7	13767.2	14048.0	14824.8	15431.0	18060.6	17079.1	14848.4	16588.4	17045.0
57.5°	15950.7	15903.4	15698.7	15984.8	16926.9	17556.7	19968.5	18034.4	15229.0	16919.0	16743.2
60°	18590.7	18514.6	18134.1	18498.9	19727.1	20716.4	21726.8	18892.5	15315.6	16790.4	15874.6
62.5°	21766.2	21506.4	21180.9	21718.9	23403.7	23839.4	23382.8	19401.6	14992.8	15767.0	13780.3
65°	24731.7	24464.0	24471.8	25605.6	27440.0	27736.5	25314.3	19325.5	14048.0	13203.0	10164.0
67.5°	27001.7	26957.1	27277.3	29489.6	31888.2	31683.5	27041.1	18186.6	11247.9	8557.9	5400.9
70°	27117.2	27203.8	28122.3	31856.7	34292.1	33966.7	26894.1	14782.8	7012.2	3936.5	2128.3
71°	25721.0	26303.6	27573.8	31783.2	34433.8	34011.3	25655.4	12381.6	5143.7	2745.0	1535.2
72.5°	21918.4	22225.4	24970.5	29912.1	33313.2	32410.4	22514.1	8678.6	3293.5	1679.6	881.8
75°	12071.9	12827.7	16722.2	23466.7	26644.8	25852.2	14672.6	4122.8	1642.8	918.5	364.8
77.5°	5747.3	5600.3	8159.0	13956.2	18065.9	18023.9	7392.7	1831.8	957.9	622.0	183.7
80°	1642.8	1847.5	3122.9	6634.3	10030.2	10140.4	2839.5	884.4	664.0	485.5	94.5
82.5°	496.0	506.5	1146.8	2934.0	4988.8	4702.8	1065.5	451.4	477.6	385.8	55.1
85°	86.6	107.6	338.5	1034.0	1902.6	1443.4	267.7	215.2	314.9	254.6	31.5
87.5°	5.2	7.9	112.8	118.1	168.0	97.1	47.2	31.5	68.2	68.2	18.4
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°	5498.0	5498.0	5498.0	5498.0	5498.0	5498.0	5498.0	5498.0	5498.0	5498.0	5498.0
2.5°	5516.3	5532.1	5521.6	5498.0	5458.6	5411.4	5348.4	5295.9	5251.3	5227.7	5256.5
5°	5550.5	5571.4	5519.0	5400.9	5222.4	5028.2	4807.8	4637.2	4503.3	4461.4	4445.6
7.5°	5602.9	5616.1	5474.3	5211.9	4834.0	4374.8	3973.2	3634.7	3372.3	3293.5	3178.1
10°	5671.2	5663.3	5395.6	4907.5	4243.5	3553.3	2931.4	2469.5	2120.5	1994.5	1984.0
12.5°	5776.1	5734.2	5295.9	4492.8	3540.2	2637.4	1868.5	1461.7	1241.3	1167.8	1152.1
15°	5907.4	5807.6	5138.4	4007.3	2710.9	1703.2	1152.1	1028.7	999.9	994.6	989.4
17.5°	6062.2	5904.7	4931.1	3411.6	1905.3	1104.8	963.1	960.5	963.1	957.9	955.3
20°	6272.1	6007.1	4684.4	2705.7	1259.7	931.6	918.5	918.5	921.1	918.5	918.5
22.5°	6495.2	6127.8	4380.0	2065.3	950.0	884.4	881.8	887.0	892.3	889.6	889.6
25°	6770.8	6285.3	3978.5	1414.5	850.3	845.0	847.7	858.2	868.7	871.3	868.7
27.5°	7169.7	6479.5	3548.1	973.6	779.4	784.7	810.9	837.2	852.9	855.5	855.5
30°	7618.4	6694.7	2986.5	789.9	721.7	721.7	753.2	803.0	837.2	842.4	845.0
32.5°	8195.8	6944.0	2364.5	711.2	666.6	661.3	690.2	750.6	813.5	831.9	831.9
35°	8909.6	7237.9	1758.3	661.3	627.2	614.1	629.8	679.7	761.1	813.5	818.8
37.5°	9746.7	7516.1	1285.9	616.7	590.5	572.1	582.6	622.0	687.6	766.3	787.3
40°	10520.9	7762.8	960.5	580.0	553.7	540.6	548.5	566.9	622.0	695.4	708.6
42.5°	11366.0	7954.3	763.7	540.6	517.0	511.7	511.7	519.6	556.4	598.3	601.0
45°	12208.4	8022.6	640.3	493.4	477.6	482.9	480.3	475.0	490.7	485.5	485.5
47.5°	12809.3	7941.2	530.1	448.8	448.8	456.6	443.5	425.1	417.3	385.8	388.4
50°	13221.4	7644.7	435.6	396.3	417.3	427.8	401.5	372.7	343.8	309.7	301.8
52.5°	13391.9	7117.2	356.9	328.0	370.0	383.2	351.7	317.5	272.9	244.1	236.2
55°	13281.7	6466.3	296.5	267.7	312.3	328.0	296.5	257.2	207.3	175.8	170.6
57.5°	12796.2	5689.5	251.9	212.6	249.3	259.8	238.8	196.8	147.0	115.5	115.5
60°	11956.4	4886.5	204.7	168.0	186.3	202.1	181.1	141.7	99.7	70.9	65.6
62.5°	10253.2	3968.0	165.3	131.2	131.2	144.3	126.0	102.3	63.0	36.7	34.1
65°	7403.2	2721.4	131.2	97.1	94.5	94.5	78.7	68.2	36.7	15.7	10.5
67.5°	4023.1	1535.2	105.0	73.5	65.6	63.0	49.9	39.4	15.7	2.6	0.0
70°	1582.5	590.5	81.4	49.9	42.0	39.4	26.2	18.4	10.5	0.0	0.0
71°	1073.3	406.8	70.9	42.0	34.1	28.9	21.0	15.7	7.9	0.0	0.0
72.5°	614.1	251.9	55.1	31.5	26.2	21.0	15.7	10.5	7.9	0.0	0.0
75°	267.7	128.6	34.1	23.6	18.4	13.1	10.5	7.9	2.6	0.0	0.0
77.5°	136.5	70.9	23.6	18.4	10.5	7.9	5.2	2.6	0.0	0.0	0.0
80°	76.1	36.7	15.7	10.5	7.9	5.2	2.6	2.6	0.0	0.0	0.0
82.5°	42.0	21.0	7.9	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.2	13.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.1	5.2	0.0	0.0	0.0	0.0	2.6	2.6	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)