

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: P456141

Luminaire Tested: **GALN-SA7B-827-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23845 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

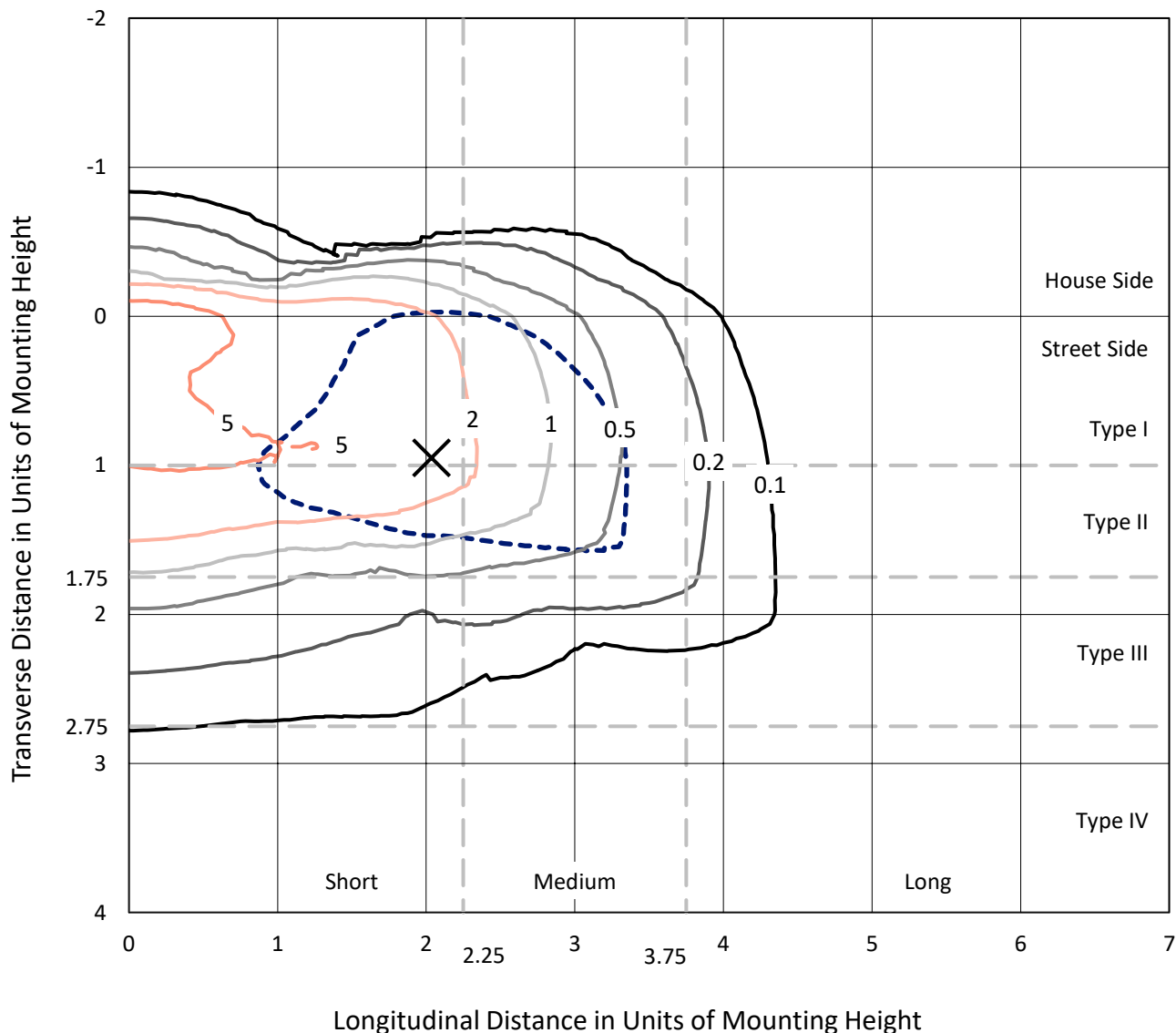
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

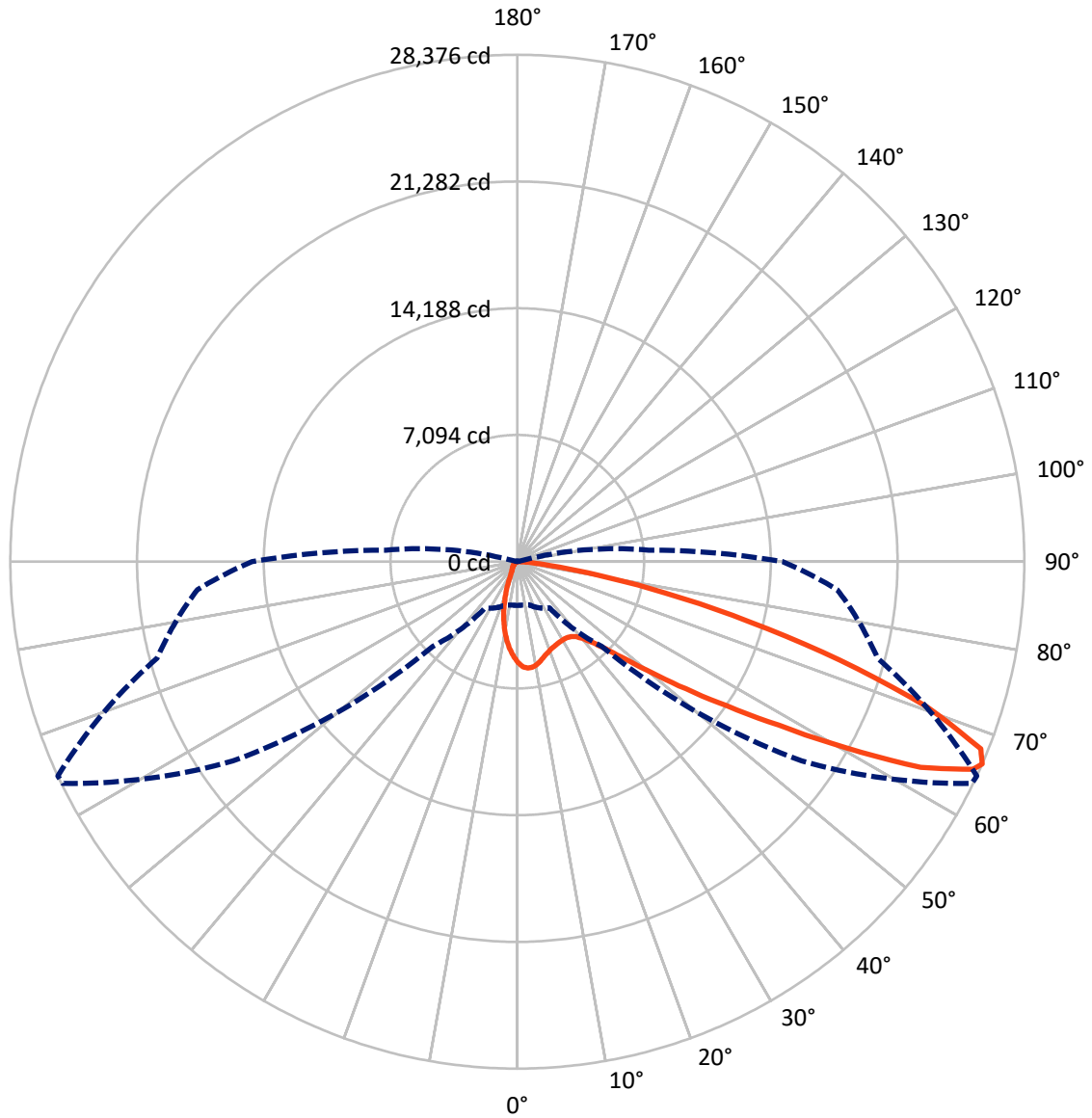
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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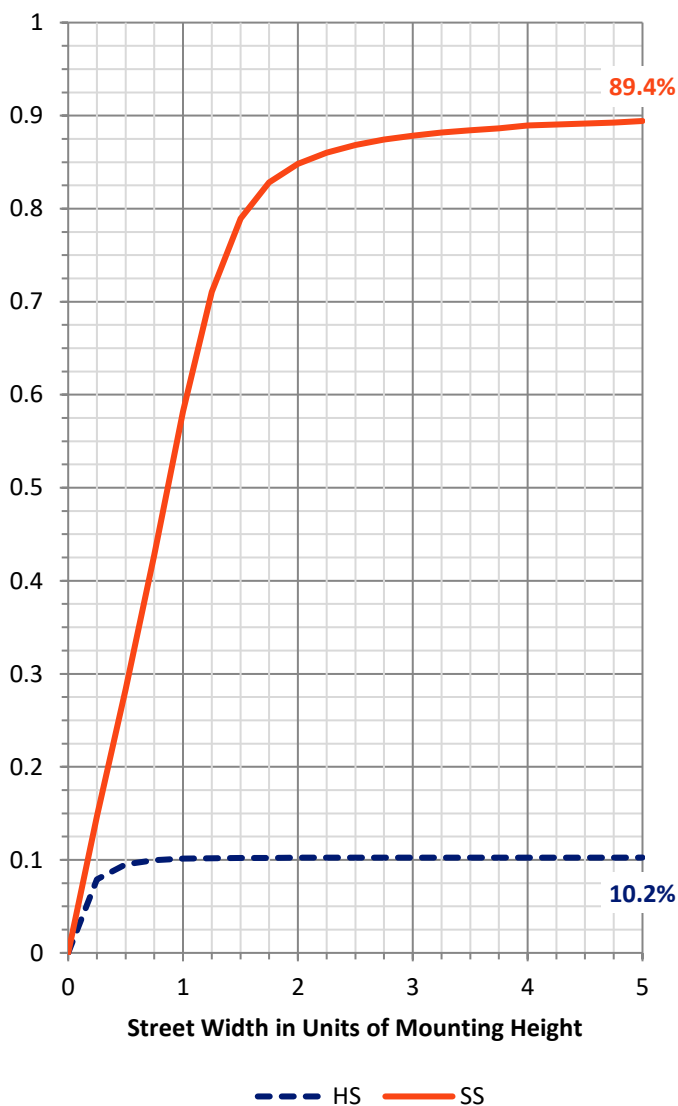
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2465.9	0.0	2465.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	21379.1	0.0	21379.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	23845.0	0.0	23845.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.5	1.9
10°-20°	1007.6	4.2
20°-30°	1443.4	6.1
30°-40°	2108.2	8.8
40°-50°	3535.1	14.8
50°-60°	5899.6	24.7
60°-70°	6262.2	26.3
70°-80°	2836.1	11.9
80°-90°	290.2	1.2
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°	23845.0	100.0
0°-180°	23845.0	100.0

Coefficient of Utilization



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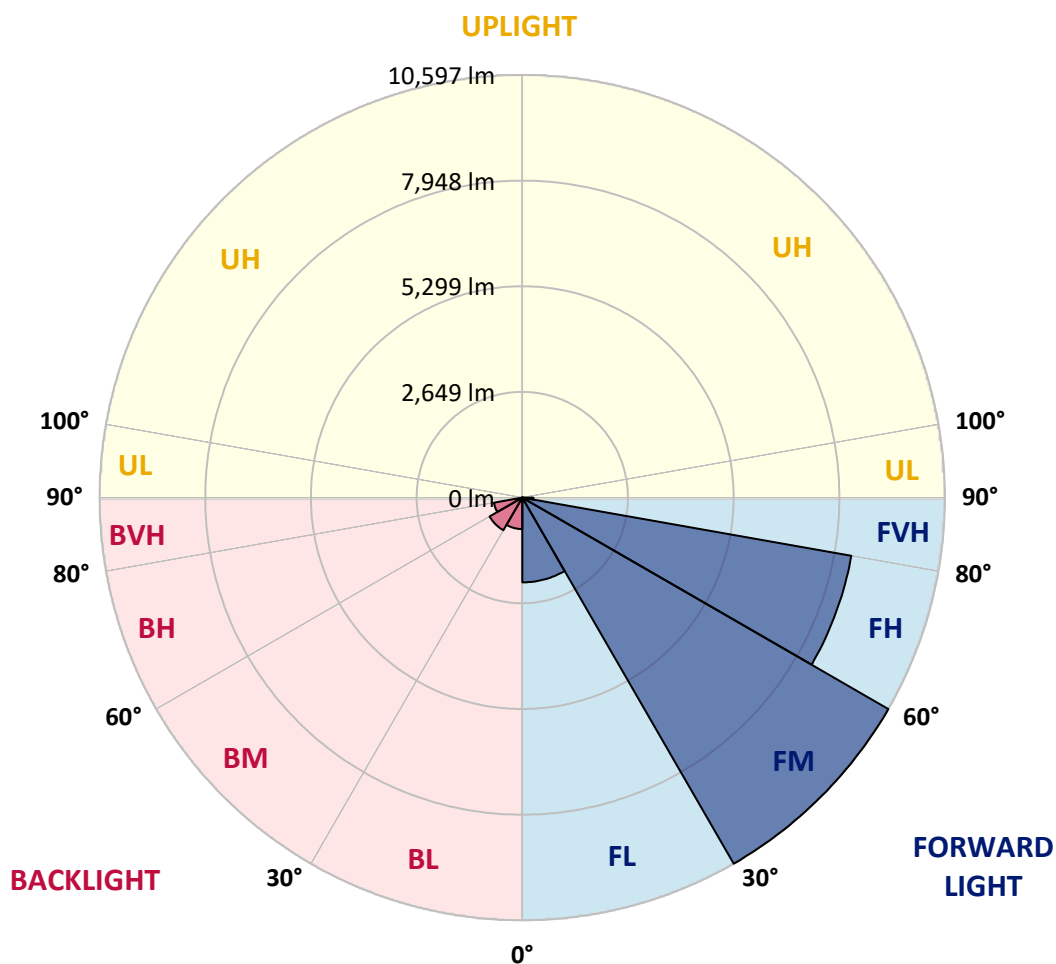
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2124.7	8.9			
FM	(30°-60°)	10597.3	44.4			
FH	(60°-80°)	8376.2	35.1			G4/12000
FVH	(80°-90°)	281.0	1.2			G3/500
BL	(0°-30°)	788.8	3.3	B2/1000		
BM	(30°-60°)	945.7	4.0	B1/1000		
BH	(60°-80°)	722.1	3.0	B2/1000		G2/1000
BVH	(80°-90°)	9.2	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5654.5	5654.5	5654.5	5654.5	5654.5	5654.5	5654.5	5654.5	5654.5	5654.5	5654.5
2.5°	5958.9	5965.4	5973.4	5984.7	5992.7	5968.6	5934.8	5896.1	5888.1	5805.9	5706.1
5°	5640.0	5649.7	5720.6	5759.2	5846.2	5925.1	5975.0	5981.5	5978.2	5900.9	5741.5
7.5°	5185.9	5213.2	5282.5	5350.1	5512.8	5662.6	5839.7	5963.7	5971.8	5950.9	5752.8
10°	4817.1	4834.8	4870.2	5003.9	5139.2	5367.9	5615.9	5849.4	5868.7	5952.5	5743.1
12.5°	4528.8	4554.5	4598.0	4701.1	4863.8	5079.6	5361.4	5675.5	5715.7	5921.9	5715.7
15°	4327.5	4340.3	4383.8	4485.3	4643.1	4842.8	5127.9	5493.5	5528.9	5881.6	5710.9
17.5°	4232.4	4246.9	4277.5	4358.1	4488.5	4673.7	4952.3	5346.9	5392.0	5855.8	5728.6
20°	4258.2	4271.1	4272.7	4314.6	4403.2	4559.4	4823.5	5210.0	5268.0	5839.7	5757.6
22.5°	4404.8	4406.4	4387.1	4367.7	4398.3	4511.1	4744.6	5123.1	5182.6	5836.5	5791.4
25°	4623.8	4628.6	4596.4	4528.8	4467.6	4525.6	4726.9	5066.7	5119.8	5828.5	5812.4
27.5°	4926.6	4925.0	4915.3	4802.6	4628.6	4590.0	4741.4	5036.1	5081.2	5805.9	5820.4
30°	5350.1	5337.3	5316.3	5189.1	4923.4	4746.2	4802.6	5016.8	5058.6	5773.7	5799.5
32.5°	5767.3	5815.6	5812.4	5691.6	5359.8	5024.8	4929.8	5042.5	5073.1	5752.8	5768.9
35°	6253.6	6252.0	6376.0	6330.9	5942.8	5380.7	5147.2	5127.9	5152.0	5767.3	5754.4
37.5°	6704.6	6746.5	6939.7	6986.4	6632.1	5883.2	5454.8	5311.5	5319.5	5865.5	5789.8
40°	7266.7	7347.2	7635.5	7791.7	7479.2	6628.9	5909.0	5648.1	5649.7	6107.1	5923.5
42.5°	7991.4	8118.6	8387.6	8648.5	8481.0	7511.5	6590.2	6181.2	6177.9	6532.3	6229.5
45°	8872.3	8960.9	9266.9	9680.8	9574.5	8743.5	7582.3	7007.4	6965.5	7229.6	6772.2
47.5°	9632.5	9753.3	10064.1	10536.0	11019.2	10247.7	8767.7	8142.8	8115.4	8339.3	7703.1
50°	9964.3	10070.6	10397.5	11059.4	12230.3	12222.2	10532.8	9800.0	9753.3	9874.1	9142.9
52.5°	9600.3	9700.2	10030.3	10854.9	12800.4	14628.3	13090.3	11879.2	11822.8	11668.2	10862.9
55°	8353.8	8435.9	8923.9	9870.9	12581.4	16232.4	16614.1	14448.0	14228.9	13628.2	12810.1
57.5°	6651.4	6609.6	6912.3	8012.3	11296.2	16770.3	20231.3	17648.1	17256.7	15322.5	14457.6
60°	4609.3	4738.1	4860.5	5585.3	8493.9	15837.8	22481.2	21671.1	21155.8	16989.4	16035.9
62.5°	3388.5	3473.9	3554.4	3889.4	5340.5	12645.8	22879.0	25803.7	25346.3	18759.3	17541.8
65°	2679.9	2686.3	2718.6	3048.7	3519.0	8223.3	20967.3	28134.1	28016.6	20463.2	18152.1
66°	2441.5	2443.2	2493.1	2847.4	3158.2	6696.5	19435.7	28311.3	28375.7	20872.3	17973.4
67.5°	2133.9	2127.5	2200.0	2559.1	2876.4	4828.3	16694.6	27593.0	27974.7	21186.4	17330.8
70°	1654.0	1645.9	1734.5	2146.8	2649.3	3221.0	11096.5	23692.3	24307.5	20543.8	15333.7
72.5°	1101.6	1108.0	1259.4	1694.3	2528.5	2836.1	6675.6	18023.3	18893.0	16965.2	12062.8
75°	642.6	653.9	826.2	1259.4	2195.1	2704.1	3778.3	12851.9	13407.6	11714.9	7514.7
77.5°	336.6	341.4	462.2	831.0	1683.0	2510.8	2517.2	8210.4	8471.3	5693.2	2974.6
80°	178.8	173.9	248.0	500.9	1158.0	2204.8	2042.1	4346.8	4519.1	1691.0	752.1
82.5°	67.6	74.1	132.1	328.5	684.5	1583.1	1758.7	1921.3	1861.8	372.0	315.7
85°	12.9	16.1	56.4	194.9	344.7	661.9	1296.5	942.2	872.9	140.1	182.0
87.5°	1.6	3.2	16.1	46.7	49.9	223.9	383.3	260.9	225.5	51.5	75.7
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°	5654.5	5654.5	5654.5	5654.5	5654.5	5654.5	5654.5	5654.5	5654.5	5654.5	5654.5
2.5°	5657.7	5614.3	5469.3	5326.0	5179.4	5047.4	4957.2	4810.6	4773.6	4720.4	4689.8
5°	5646.5	5545.0	5266.4	4962.0	4678.6	4372.6	4139.0	3913.6	3792.8	3731.6	3709.0
7.5°	5614.3	5453.2	5018.4	4541.7	4087.5	3630.1	3232.3	2929.5	2734.7	2601.0	2510.8
10°	5549.8	5327.6	4730.1	4074.6	3388.5	2784.6	2280.5	1897.2	1600.9	1507.4	1510.7
12.5°	5483.8	5187.5	4408.0	3556.0	2705.7	1943.9	1409.2	1106.4	964.7	918.0	908.3
15°	5422.6	5053.8	4092.3	3053.5	2014.8	1259.4	908.3	802.0	763.4	755.3	753.7
17.5°	5390.4	4929.8	3755.7	2478.6	1406.0	855.2	728.0	699.0	687.7	679.6	676.4
20°	5363.0	4821.9	3433.6	1940.7	961.5	700.6	652.3	624.9	605.6	597.5	592.7
22.5°	5343.7	4710.8	3100.2	1502.6	736.0	621.7	578.2	542.7	515.4	505.7	499.3
25°	5314.7	4588.4	2763.6	1098.4	620.0	552.4	502.5	460.6	425.2	407.5	404.2
27.5°	5272.8	4449.9	2394.8	813.3	554.0	491.2	430.0	378.5	343.0	323.7	325.3
30°	5205.2	4304.9	2026.0	645.8	500.9	428.4	362.4	312.4	278.6	264.1	262.5
32.5°	5124.7	4129.4	1687.8	554.0	452.6	372.0	302.8	259.3	233.5	222.3	220.6
35°	5049.0	3952.2	1343.2	497.7	402.6	320.5	254.5	217.4	198.1	188.4	190.0
37.5°	5007.1	3794.4	1046.8	452.6	362.4	275.4	219.0	186.8	169.1	161.1	159.4
40°	5034.5	3665.5	832.6	412.3	317.3	236.7	188.4	161.1	143.3	132.1	132.1
42.5°	5163.3	3609.2	671.6	373.6	275.4	204.5	164.3	138.5	119.2	107.9	109.5
45°	5556.3	3668.8	562.1	338.2	236.7	177.2	141.7	114.3	96.6	88.6	87.0
47.5°	6208.5	3892.6	486.4	301.2	202.9	151.4	119.2	95.0	77.3	70.9	69.3
50°	7348.8	4354.8	430.0	264.1	172.3	128.8	98.2	75.7	61.2	54.8	54.8
52.5°	8917.4	5363.0	389.7	222.3	144.9	109.5	80.5	61.2	48.3	43.5	41.9
55°	10556.9	6426.0	368.8	186.8	120.8	90.2	64.4	48.3	37.0	32.2	30.6
57.5°	12133.6	7260.2	344.7	151.4	96.6	69.3	49.9	37.0	25.8	22.5	20.9
60°	13645.9	7935.0	293.1	120.8	75.7	49.9	37.0	25.8	17.7	14.5	14.5
62.5°	14998.8	8328.0	230.3	96.6	58.0	35.4	24.2	19.3	12.9	9.7	9.7
65°	15156.6	7817.5	173.9	74.1	41.9	22.5	14.5	14.5	9.7	6.4	6.4
66°	14839.3	7384.2	153.0	67.6	37.0	19.3	12.9	11.3	8.1	4.8	4.8
67.5°	14130.7	6645.0	132.1	58.0	30.6	14.5	9.7	9.7	6.4	3.2	3.2
70°	12209.3	5427.4	104.7	43.5	22.5	11.3	6.4	6.4	4.8	3.2	3.2
72.5°	9305.6	4052.1	85.4	32.2	16.1	8.1	4.8	4.8	4.8	3.2	3.2
75°	5612.7	2182.3	66.0	24.2	14.5	6.4	3.2	4.8	6.4	4.8	3.2
77.5°	2067.9	742.4	51.5	19.3	11.3	6.4	3.2	3.2	6.4	4.8	4.8
80°	507.3	193.3	37.0	16.1	11.3	6.4	3.2	3.2	6.4	6.4	6.4
82.5°	235.1	82.1	25.8	14.5	11.3	6.4	3.2	3.2	4.8	6.4	6.4
85°	135.3	38.7	20.9	16.1	11.3	6.4	3.2	3.2	4.8	6.4	6.4
87.5°	54.8	19.3	19.3	16.1	12.9	8.1	3.2	3.2	3.2	4.8	4.8
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)