

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: P954150

Luminaire Tested: **GALN-SB7C-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41128 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 350.5
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

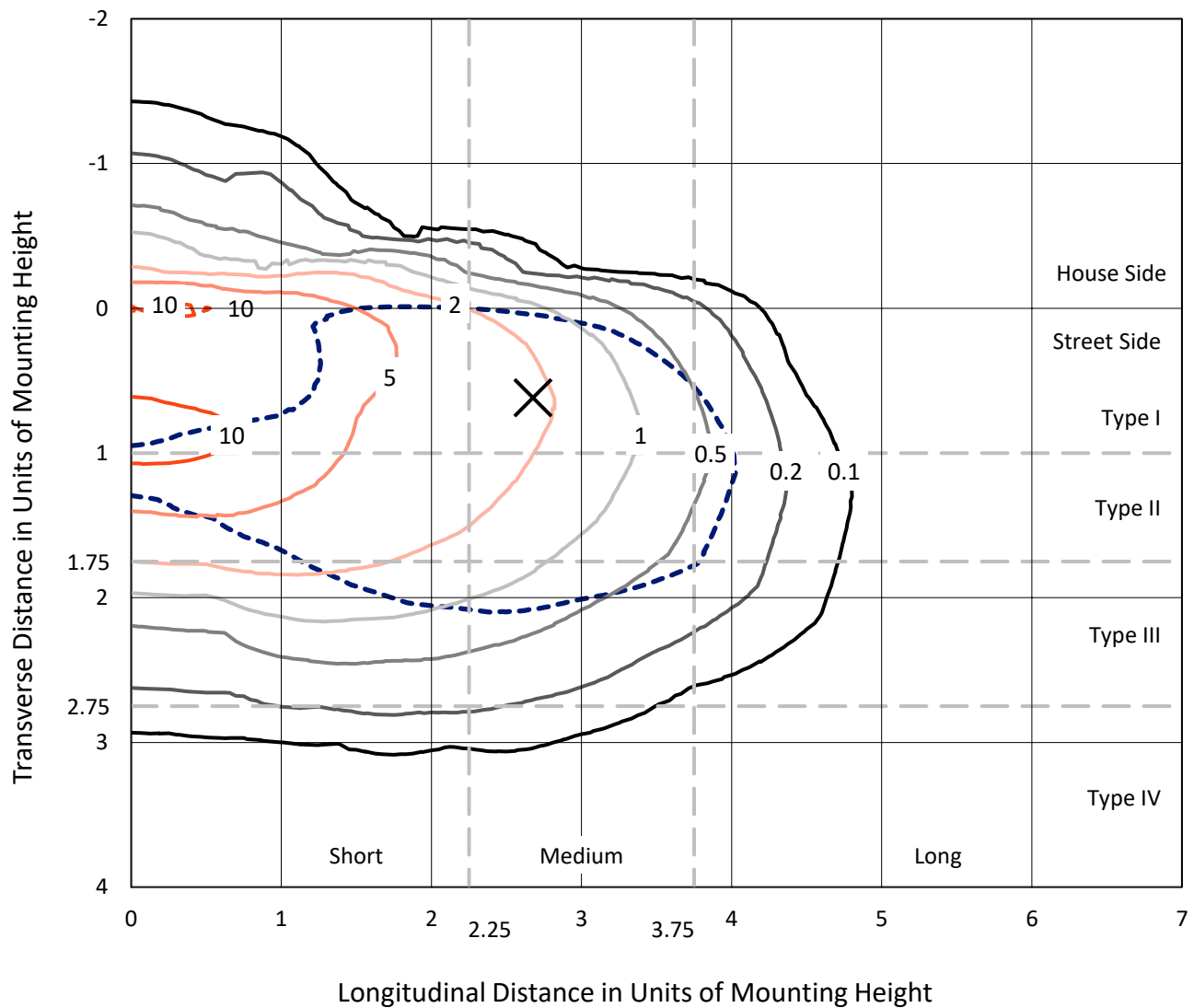


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Iso-Footcandle Lines of Horizontal Illumination

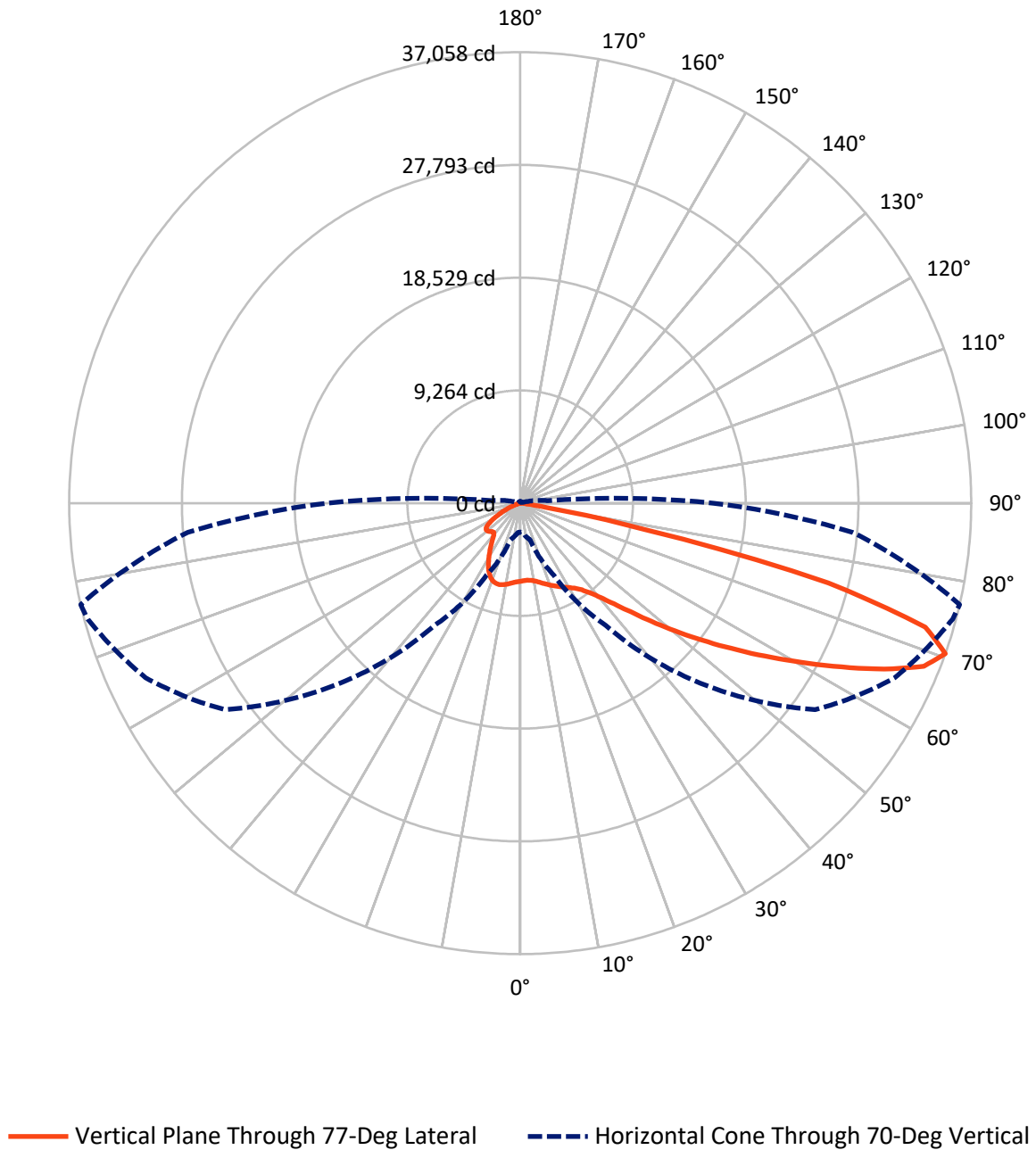
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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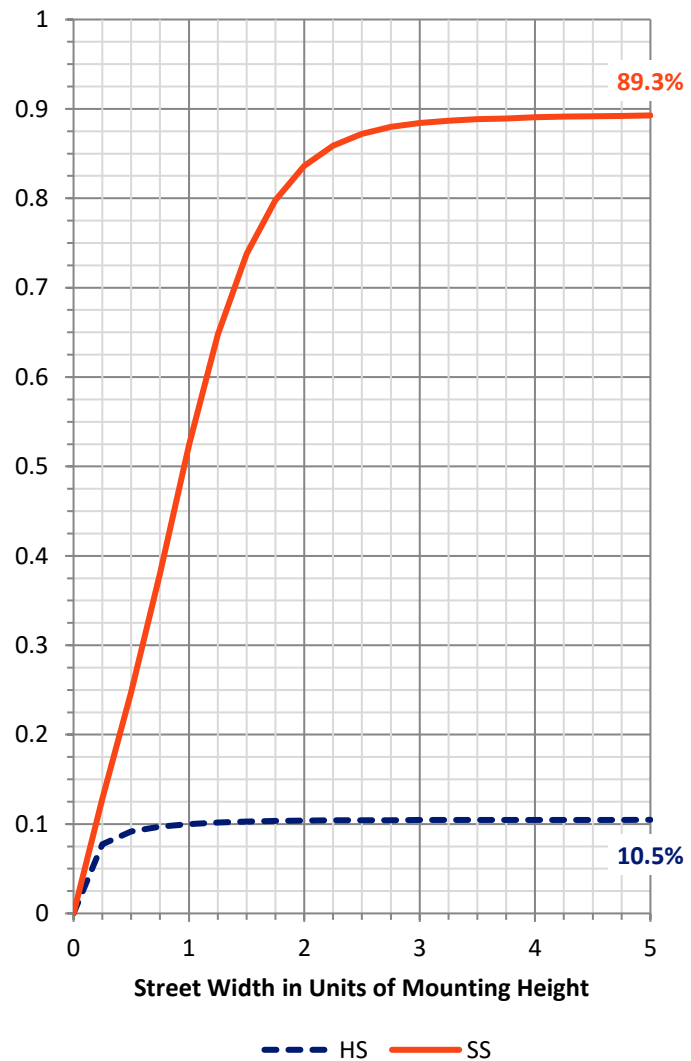
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4335.5	0.0	4335.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	36792.5	0.0	36792.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	41128.0	0.0	41128.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.9	1.3
10°-20°	1312.5	3.2
20°-30°	2030.1	4.9
30°-40°	3683.7	9.0
40°-50°	6953.4	16.9
50°-60°	10047.1	24.4
60°-70°	10694.8	26.0
70°-80°	5667.5	13.8
80°-90°	186.1	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°	41128.0	100.0
0°-180°	41128.0	100.0

Coefficient of Utilization



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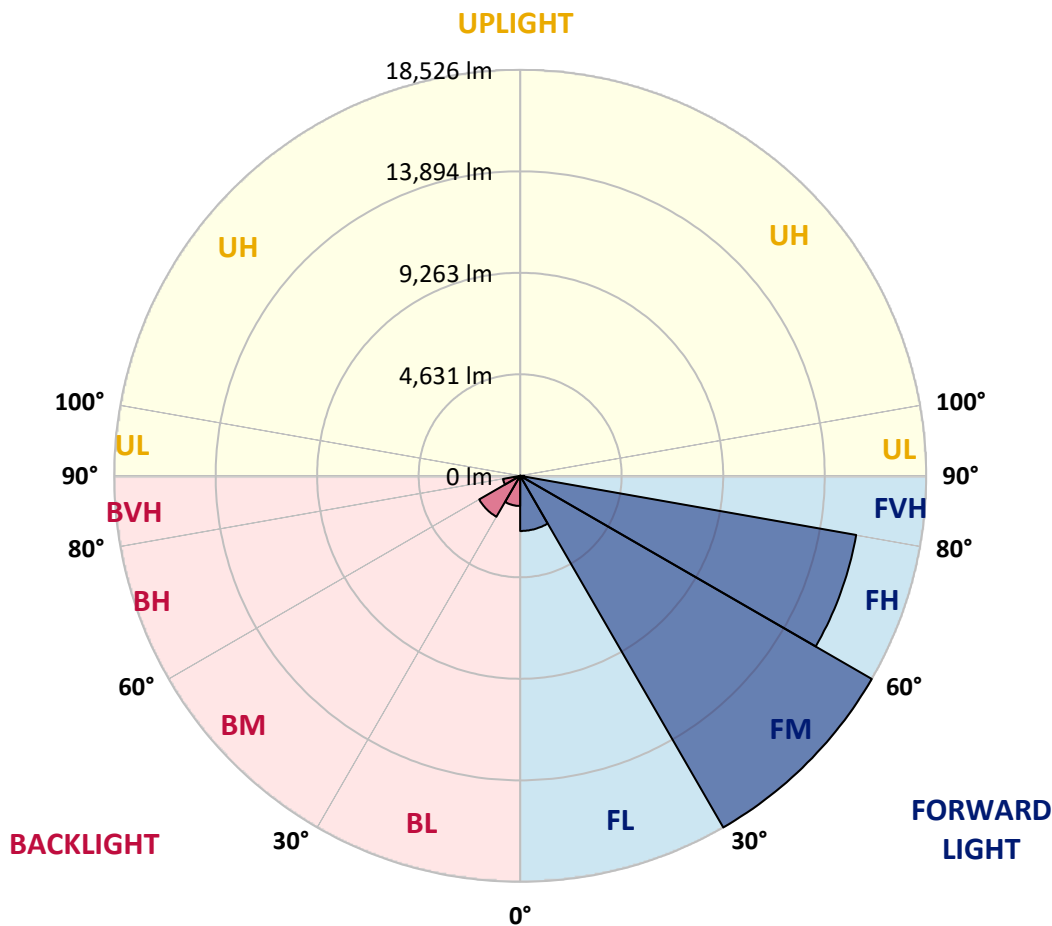
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2518.0	6.1			
FM	(30°-60°)	18525.9	45.0			
FH	(60°-80°)	15567.5	37.9			G5
FVH	(80°-90°)	181.1	0.4			G2/225
BL	(0°-30°)	1377.5	3.3	B3/2500		
BM	(30°-60°)	2158.2	5.2	B2/2500		
BH	(60°-80°)	794.8	1.9	B2/1000		G2/1000
BVH	(80°-90°)	5.0	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	6415.2	6415.2	6415.2	6415.2	6415.2	6415.2	6415.2	6415.2	6415.2	6415.2	6415.2
2.5°	6023.0	6077.6	6069.8	6106.2	6119.1	6171.1	6223.0	6293.2	6371.1	6368.5	6420.4
5°	5682.8	5737.3	5750.3	5799.7	5862.0	5942.5	6049.0	6189.3	6334.7	6358.1	6462.0
7.5°	5280.2	5337.4	5371.1	5469.8	5584.1	5750.3	5924.3	6129.5	6371.1	6404.8	6604.8
10°	4877.6	4929.6	4973.7	5114.0	5295.8	5542.5	5825.6	6121.7	6446.4	6495.7	6778.8
12.5°	4628.3	4677.7	4727.0	4849.1	5075.0	5376.3	5760.7	6158.1	6571.1	6641.2	7015.2
15°	4540.0	4584.2	4623.1	4732.2	4942.6	5285.4	5747.7	6233.4	6729.5	6823.0	7300.9
17.5°	4553.0	4576.4	4602.3	4685.5	4890.6	5243.9	5771.1	6363.3	6916.5	6999.6	7586.6
20°	4628.3	4641.3	4643.9	4701.0	4882.8	5238.7	5817.9	6487.9	7093.1	7204.8	7869.7
22.5°	4724.4	4729.6	4724.4	4763.4	4932.2	5277.6	5880.2	6638.6	7290.5	7394.4	8155.4
25°	5173.7	5075.0	4950.4	4875.1	5015.3	5352.9	5973.7	6841.2	7506.1	7607.4	8433.3
27.5°	6568.5	6285.4	5838.6	5337.4	5186.7	5462.0	6103.6	7046.4	7724.2	7815.1	8732.0
30°	8833.3	8461.9	7703.5	6573.7	5737.3	5690.6	6272.4	7251.5	7955.4	8054.1	9051.4
32.5°	11103.3	11012.4	10137.1	8573.5	6976.2	6199.7	6552.9	7529.4	8261.9	8339.8	9482.6
35°	13399.2	13214.8	12498.0	10952.6	8885.2	7236.0	7020.4	7893.1	8664.4	8752.8	10111.1
37.5°	15157.6	15045.9	14601.8	13329.1	11150.0	8835.9	7820.3	8456.7	9248.8	9347.5	10916.3
40°	16710.8	16658.8	16508.2	15669.3	13682.4	10929.3	9064.4	9329.3	10059.2	10176.1	11903.2
42.5°	17931.5	18053.5	18139.2	17905.5	16292.6	13318.7	10737.1	10555.3	11189.0	11308.5	13160.3
45°	19180.7	19222.3	19567.7	19905.4	18884.7	15817.3	12622.7	11991.5	12594.1	12742.1	14666.7
47.5°	19983.3	20149.5	20757.3	21352.1	21063.8	18295.1	14648.5	13687.5	14222.6	14500.5	16354.9
50°	20043.0	20357.3	21193.6	22229.9	22650.7	20653.4	16851.0	15619.9	16188.7	16495.2	18157.4
52.5°	19048.3	19536.6	20832.6	22349.4	23507.8	22650.7	19128.8	17552.3	18282.1	18682.1	20027.5
55°	14604.4	15243.3	19474.2	21700.1	23541.5	24164.9	21346.9	19565.1	20614.4	21066.4	22048.1
57.5°	12724.0	13046.0	15310.8	20572.9	22915.6	24775.2	23351.9	21481.9	23152.0	23713.0	23957.1
60°	10586.4	11009.8	12840.8	18728.8	22066.3	24835.0	25123.3	23954.5	25902.4	26533.6	25707.7
62.5°	7194.4	7654.1	9474.8	15560.2	20905.3	24806.4	26575.1	26499.8	28959.4	29637.3	27190.7
65°	4456.9	4745.2	5945.1	12705.8	19282.0	24837.6	28094.5	29590.6	32185.2	32873.5	28338.7
67.5°	3521.9	3654.3	4280.3	9755.3	16484.8	24136.3	29611.3	32496.9	35221.4	35766.8	28689.3
70°	2366.1	2446.6	3114.1	6539.9	12264.2	20900.1	29582.8	33956.5	36785.0	37057.7	27411.5
72.5°	1246.7	1309.0	1820.7	3028.4	7407.4	14856.3	24936.3	32211.2	35229.2	34818.8	23429.9
75°	623.3	727.2	1225.9	1537.6	3163.5	8285.3	15484.8	25396.0	27728.3	26138.8	15032.9
77.5°	472.7	571.4	1012.9	1012.9	1101.2	2789.5	6558.1	13851.2	12775.9	10638.4	4412.7
80°	301.3	389.6	885.7	766.2	459.7	709.1	1709.0	3880.3	2714.1	2064.8	802.6
82.5°	176.6	254.5	737.6	506.5	257.1	262.3	483.1	825.9	703.9	548.0	246.7
85°	70.1	166.2	506.5	200.0	101.3	64.9	145.4	176.6	145.4	109.1	62.3
87.5°	0.0	39.0	88.3	0.0	7.8	5.2	10.4	13.0	13.0	10.4	20.8
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°	6415.2	6415.2	6415.2	6415.2	6415.2	6415.2	6415.2	6415.2	6415.2	6415.2	6415.2
2.5°	6443.8	6449.0	6464.6	6467.2	6430.8	6384.1	6365.9	6358.1	6326.9	6324.3	6329.5
5°	6521.7	6545.1	6521.7	6454.2	6293.2	6067.2	5895.8	5755.5	5628.3	5589.3	5565.9
7.5°	6677.5	6700.9	6630.8	6365.9	5960.7	5511.4	5106.2	4820.5	4563.4	4467.3	4428.3
10°	6900.9	6932.1	6711.3	6176.3	5459.4	4737.4	4051.7	3568.6	3192.0	3038.8	2973.9
12.5°	7181.4	7194.4	6755.5	5888.0	4807.5	3776.4	2805.0	2288.2	1953.1	1828.5	1789.5
15°	7490.5	7472.3	6760.7	5495.8	3919.3	2670.0	1831.1	1503.8	1368.8	1327.2	1327.2
17.5°	7815.1	7739.8	6656.8	4929.6	2945.3	1825.9	1358.4	1280.4	1257.1	1246.7	1244.1
20°	8134.6	7965.8	6467.2	4189.4	2114.2	1363.6	1233.7	1210.3	1197.3	1192.1	1186.9
22.5°	8425.5	8137.2	6142.5	3329.7	1535.0	1205.1	1166.2	1145.4	1122.0	1111.6	1109.0
25°	8708.6	8235.9	5685.4	2527.1	1228.5	1127.2	1096.0	1057.1	1025.9	1012.9	1007.7
27.5°	8983.9	8298.2	5114.0	1870.0	1096.0	1054.5	997.3	942.8	919.4	914.2	909.0
30°	9277.4	8319.0	4464.7	1394.7	1015.5	963.6	880.5	818.1	805.1	807.7	807.7
32.5°	9635.8	8350.2	3810.2	1142.8	948.0	854.5	755.8	690.9	680.5	690.9	688.3
35°	10064.4	8412.5	3179.0	1051.9	888.3	742.8	636.3	581.8	571.4	579.2	576.6
37.5°	10646.2	8513.8	2589.5	1033.7	838.9	649.3	535.0	490.9	490.9	493.5	490.9
40°	11420.1	8783.9	2062.2	1020.7	812.9	579.2	451.9	433.7	441.5	446.7	446.7
42.5°	12362.9	9357.9	1706.4	1005.1	784.4	548.0	410.4	402.6	415.6	420.8	420.8
45°	13420.0	10085.1	1581.7	979.2	758.4	568.8	392.2	381.8	397.4	400.0	402.6
47.5°	14513.5	10796.8	1566.1	950.6	732.4	600.0	387.0	363.6	381.8	384.4	387.0
50°	15619.9	11261.7	1581.7	906.4	690.9	600.0	389.6	345.4	361.0	368.8	371.4
52.5°	16734.1	11474.7	1571.3	810.3	618.1	563.6	389.6	329.9	345.4	350.6	350.6
55°	17814.6	11433.1	1412.9	667.5	524.6	498.7	379.2	316.9	327.3	329.9	329.9
57.5°	18669.1	10853.9	1119.4	519.5	426.0	415.6	345.4	301.3	309.1	306.5	306.5
60°	19115.8	9581.3	800.0	400.0	335.0	327.3	303.9	280.5	285.7	272.7	270.1
62.5°	19121.0	7898.3	535.0	316.9	267.5	259.7	259.7	251.9	246.7	220.8	213.0
65°	18713.2	6030.8	355.8	251.9	215.6	202.6	218.2	215.6	197.4	161.0	155.8
67.5°	17788.6	3953.0	270.1	197.4	166.2	158.4	174.0	181.8	168.8	135.1	132.5
70°	15887.4	2301.2	223.4	153.2	124.7	116.9	140.3	155.8	140.3	109.1	103.9
72.5°	13196.7	1241.5	181.8	114.3	85.7	77.9	111.7	127.3	111.7	80.5	77.9
75°	8563.2	664.9	140.3	75.3	44.2	49.3	83.1	93.5	77.9	51.9	46.8
77.5°	2875.2	293.5	88.3	36.4	20.8	20.8	49.3	57.1	36.4	18.2	15.6
80°	641.5	122.1	36.4	15.6	7.8	7.8	10.4	10.4	5.2	0.0	0.0
82.5°	210.4	49.3	15.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	80.5	18.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	31.2	2.6	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)