

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: P943147

Luminaire Tested: **GALN-SB7C-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49434 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - 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

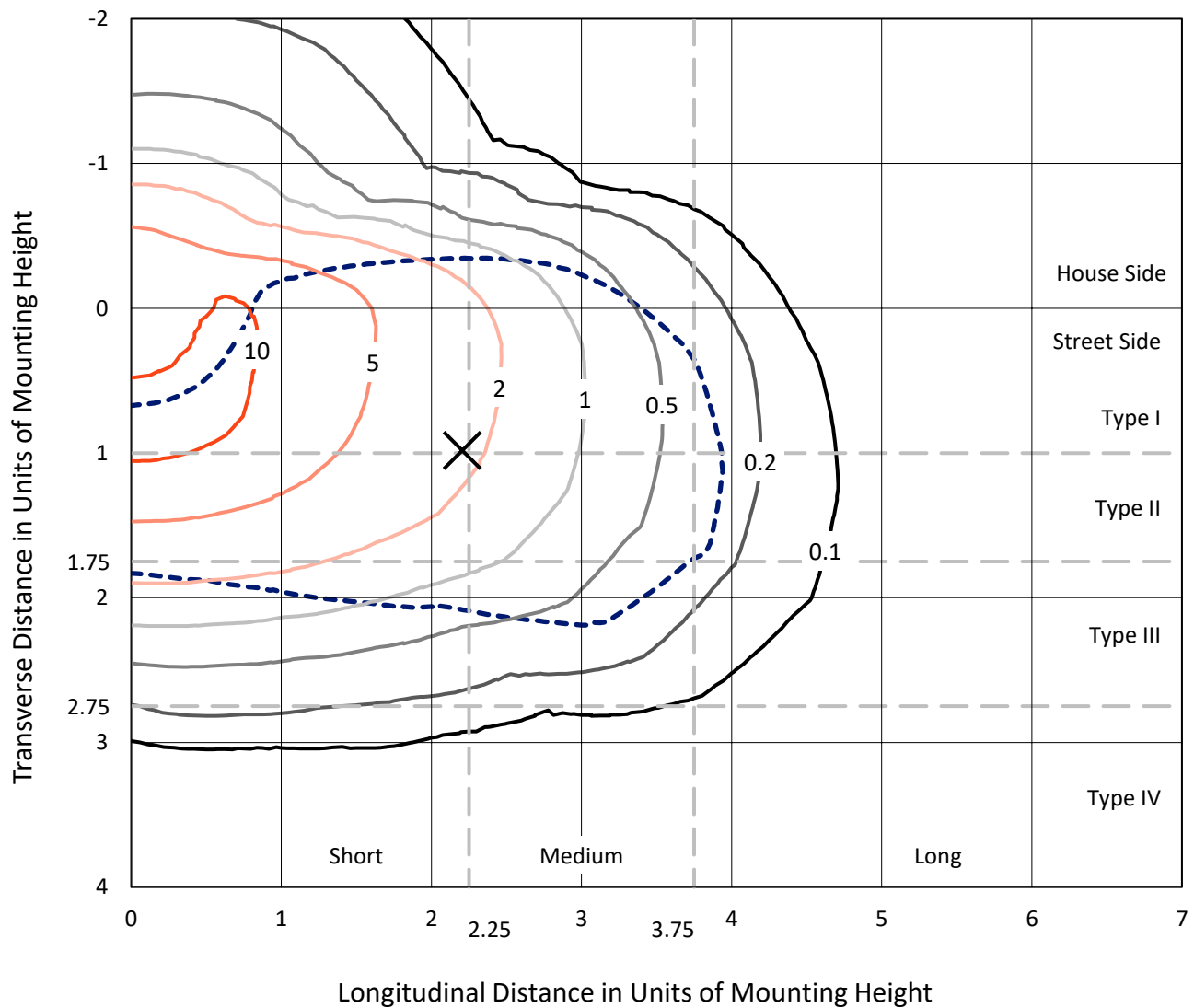


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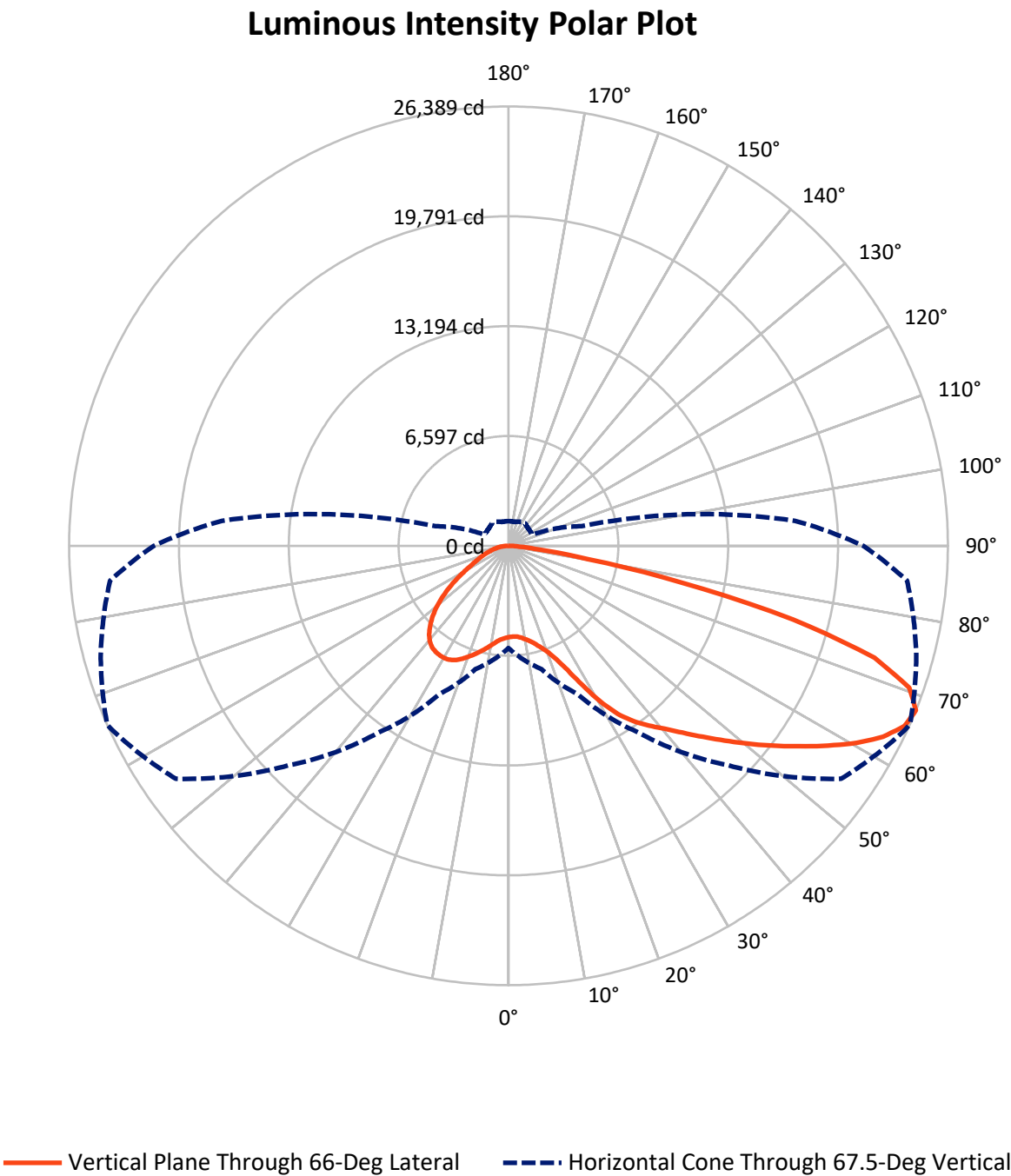
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
Type III - Short - N/A

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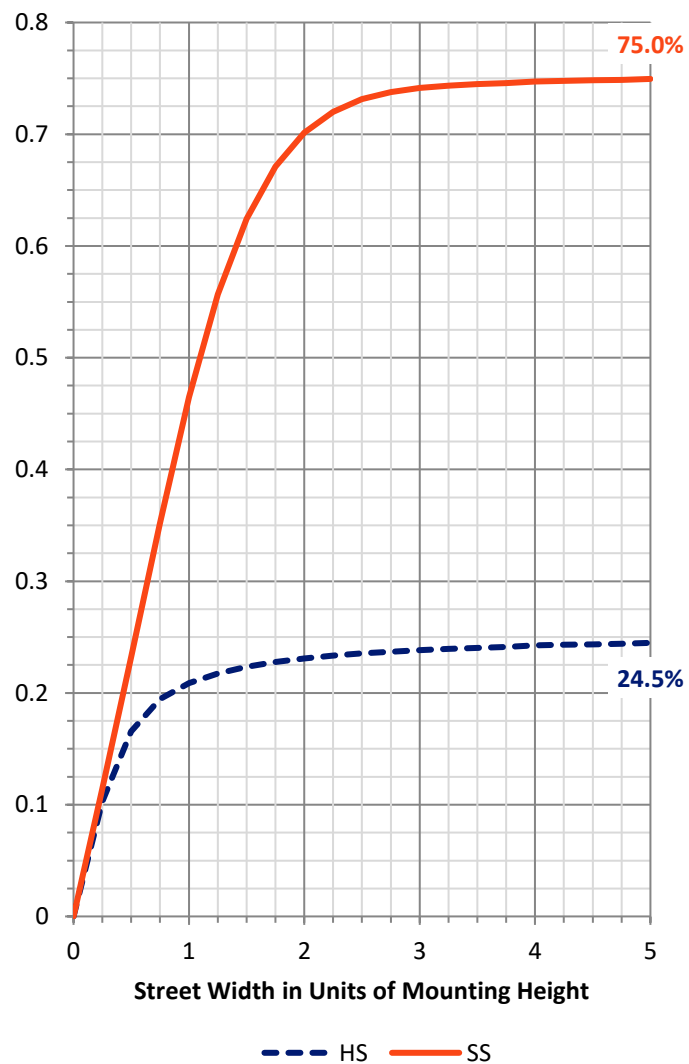
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12291.6	0.0	12291.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	37142.4	0.0	37142.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	49434.0	0.0	49434.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.6	1.1
10°-20°	1796.0	3.6
20°-30°	3461.7	7.0
30°-40°	6069.6	12.3
40°-50°	9023.5	18.3
50°-60°	11438.2	23.1
60°-70°	11192.0	22.6
70°-80°	5338.7	10.8
80°-90°	570.6	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°	49434.0	100.0
0°-180°	49434.0	100.0

Coefficient of Utilization



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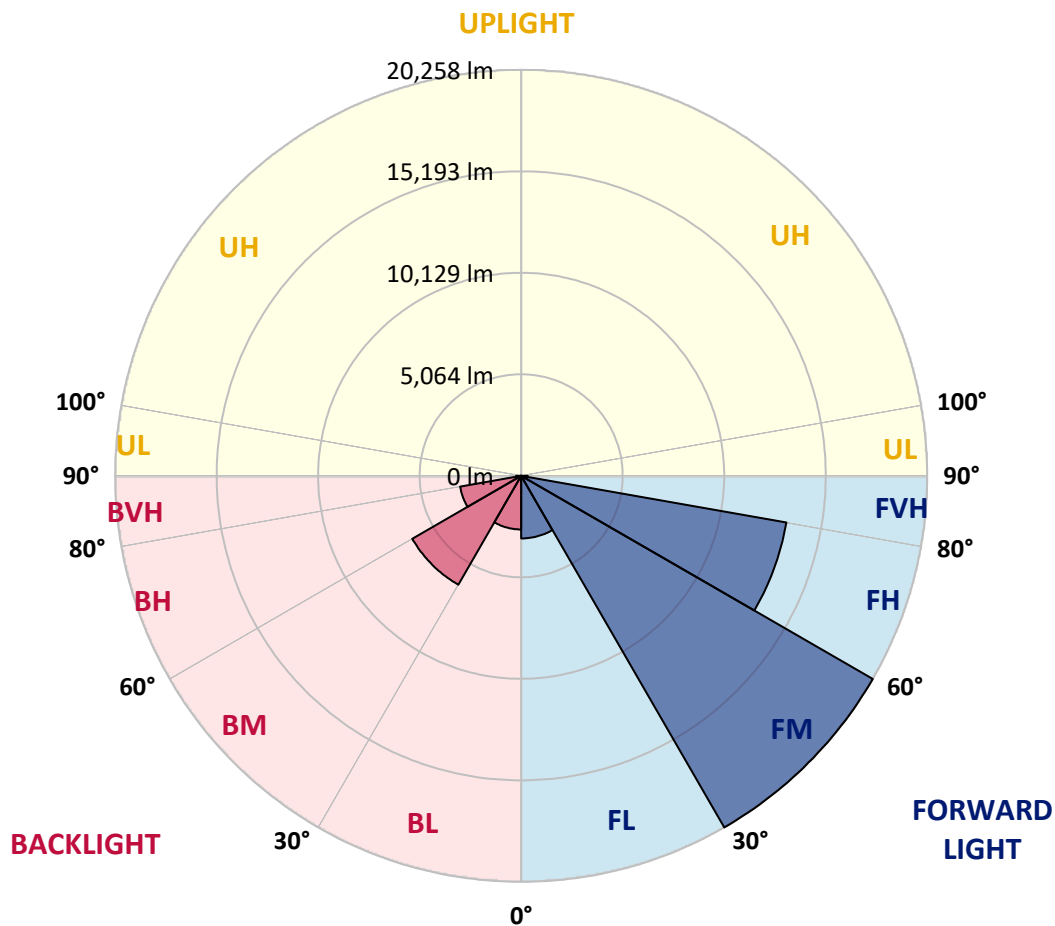
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3123.7	6.3			
FM	(30°-60°)	20257.6	41.0			
FH	(60°-80°)	13437.5	27.2			G5
FVH	(80°-90°)	323.5	0.7			G3/500
BL	(0°-30°)	2677.6	5.4	B4/5000		
BM	(30°-60°)	6273.8	12.7	B4/8500		
BH	(60°-80°)	3093.2	6.3	B4/5000		G4/5000
BVH	(80°-90°)	247.1	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5482.9	5482.9	5482.9	5482.9	5482.9	5482.9	5482.9	5482.9	5482.9	5482.9	5482.9
2.5°	5425.7	5456.9	5449.1	5436.1	5433.5	5438.7	5446.5	5454.3	5451.7	5464.7	5485.5
5°	5410.2	5441.3	5438.7	5438.7	5449.1	5469.9	5482.9	5495.9	5482.9	5498.5	5527.0
7.5°	5420.5	5443.9	5454.3	5464.7	5490.7	5529.6	5560.8	5589.4	5573.8	5592.0	5628.3
10°	5553.0	5571.2	5581.6	5581.6	5599.8	5643.9	5675.1	5727.0	5714.0	5742.6	5789.4
12.5°	5794.6	5812.7	5812.7	5802.4	5815.3	5843.9	5854.3	5911.4	5888.1	5934.8	5981.6
15°	6090.7	6127.0	6098.4	6080.3	6085.5	6114.0	6111.4	6155.6	6132.2	6171.2	6212.7
17.5°	6417.9	6464.7	6417.9	6415.3	6404.9	6436.1	6438.7	6477.6	6436.1	6464.7	6493.2
20°	6804.9	6869.8	6830.9	6843.9	6820.5	6833.5	6846.5	6903.6	6838.7	6859.4	6851.7
22.5°	7350.3	7428.3	7386.7	7436.0	7420.5	7410.1	7407.5	7508.8	7407.5	7415.3	7339.9
25°	8145.1	8238.6	8165.9	8233.4	8233.4	8267.2	8306.1	8436.0	8267.2	8217.8	8023.0
27.5°	9319.1	9412.6	9269.7	9311.3	9298.3	9381.4	9339.9	9661.9	9480.1	9399.6	9007.4
30°	10732.0	10898.2	10628.1	10617.7	10604.7	10737.2	10796.9	11009.9	10825.5	10745.0	10272.3
32.5°	12259.2	12433.2	12111.2	12017.7	11968.3	12048.8	11999.5	12170.9	12043.6	11919.0	11334.6
35°	13874.7	14046.2	13739.7	13557.9	13360.5	13191.6	13015.0	13059.2	12939.7	12750.1	12144.9
37.5°	15401.9	15716.2	15391.6	15196.8	14833.1	14503.3	14009.8	13804.6	13692.9	13518.9	12908.5
40°	16957.7	17136.9	16890.2	16724.0	16329.2	15812.3	15022.7	14589.0	14438.3	14269.5	13752.7
42.5°	18103.1	18274.5	18142.1	18027.8	17718.7	17118.8	16098.0	15555.2	15337.0	15147.4	14708.5
45°	19012.2	19139.4	19056.3	19097.9	18965.4	18383.6	17212.3	16591.5	16365.5	16134.4	15788.9
47.5°	19378.4	19513.5	19645.9	19892.7	20118.6	19690.1	18409.6	17713.5	17474.6	17238.2	16898.0
50°	19336.8	19474.5	19858.9	20383.5	21084.8	20942.0	19671.9	18908.3	18687.5	18417.4	18103.1
52.5°	19004.4	19160.2	19653.7	20526.4	21643.2	21879.6	20957.6	20142.0	19934.2	19612.2	19297.9
55°	18131.7	18225.2	18965.4	20201.7	21775.7	22534.1	22217.2	21456.2	21248.4	20799.1	20456.3
57.5°	16513.6	16648.6	17726.5	19326.5	21443.2	22978.2	23323.7	22838.0	22638.0	21991.3	21632.8
60°	14402.0	14617.6	15851.3	17856.4	20596.5	22975.6	24328.8	24196.4	24030.1	23165.2	22791.2
62.5°	12012.5	12261.8	13448.8	15778.6	19116.1	22323.7	24957.4	25334.0	25248.3	24248.3	23770.4
65°	9225.6	9397.0	10578.8	13090.4	16812.3	20923.8	25030.1	26110.6	26126.2	25071.7	24282.1
67.5°	6142.6	6636.1	7662.0	9823.0	13726.7	18635.6	24391.2	26237.8	26388.5	25354.8	24025.0
70°	2997.3	3646.6	4651.8	6384.1	9823.0	15126.6	22721.1	25193.7	25528.8	24528.8	22492.6
72.5°	1244.1	1454.5	2002.5	3150.5	5638.7	10207.4	19365.4	22362.7	22983.4	21734.1	18910.9
75°	838.9	909.1	1145.4	1615.5	2568.7	5033.6	13965.6	16674.6	17674.6	16414.9	13417.6
77.5°	646.7	690.9	833.7	1129.8	1527.2	1903.8	7475.0	10048.9	10565.8	9781.4	6981.5
80°	509.1	542.8	623.4	823.3	1083.1	1018.1	2547.9	4553.1	4851.7	4070.0	2244.1
82.5°	441.5	454.5	446.7	558.4	719.4	594.8	836.3	1680.4	1854.5	1345.4	732.4
85°	319.5	355.8	371.4	345.4	381.8	301.3	342.8	594.8	654.5	584.4	413.0
87.5°	129.9	192.2	236.4	223.4	140.3	85.7	106.5	174.0	200.0	218.2	135.1
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°	5482.9	5482.9	5482.9	5482.9	5482.9	5482.9	5482.9	5482.9	5482.9	5482.9	5482.9
2.5°	5488.1	5506.3	5519.2	5534.8	5545.2	5560.8	5592.0	5610.2	5612.7	5625.7	5623.1
5°	5537.4	5563.4	5592.0	5633.5	5680.3	5719.2	5779.0	5820.5	5836.1	5849.1	5846.5
7.5°	5643.9	5680.3	5732.2	5804.9	5872.5	5924.4	5997.1	6046.5	6095.8	6114.0	6116.6
10°	5802.4	5854.3	5929.6	6028.3	6101.0	6168.6	6243.9	6285.4	6334.8	6355.6	6366.0
12.5°	5999.7	6054.3	6153.0	6290.6	6358.2	6404.9	6430.9	6420.5	6430.9	6449.1	6454.3
15°	6225.7	6285.4	6397.1	6545.2	6591.9	6550.4	6493.2	6441.3	6433.5	6438.7	6456.9
17.5°	6493.2	6537.4	6667.2	6791.9	6758.2	6586.7	6462.1	6378.9	6337.4	6324.4	6342.6
20°	6867.2	6867.2	6973.7	7051.6	6825.7	6534.8	6340.0	6204.9	6119.2	6082.9	6075.1
22.5°	7321.8	7280.2	7347.7	7293.2	6812.7	6389.3	6119.2	5885.5	5755.6	5703.7	5695.9
25°	7898.4	7849.0	7830.8	7493.2	6719.2	6158.2	5719.2	5436.1	5321.9	5293.3	5298.5
27.5°	8768.5	8643.8	8407.4	7602.3	6547.8	5794.6	5251.7	4989.4	4924.5	4927.1	4934.9
30°	9926.9	9677.5	9098.3	7620.5	6267.3	5280.3	4773.8	4586.8	4555.7	4568.6	4612.8
32.5°	10999.5	10763.2	9804.8	7537.3	5836.1	4776.4	4345.3	4220.6	4173.8	4189.4	4210.2
35°	11841.1	11776.1	10459.3	7420.5	5306.3	4303.7	3960.9	3854.4	3763.5	3742.7	3758.3
37.5°	12635.8	12609.9	10950.2	7256.8	4781.6	3968.7	3651.8	3511.5	3379.1	3306.4	3309.0
40°	13508.5	13482.5	11272.2	7004.9	4316.7	3677.8	3373.9	3189.5	3025.8	2893.4	2906.4
42.5°	14490.3	14337.1	11425.5	6643.9	3921.9	3431.0	3147.9	2898.6	2683.0	2560.9	2568.7
45°	15563.0	15217.5	11422.9	6184.2	3589.5	3205.1	2906.4	2553.1	2353.1	2238.9	2233.7
47.5°	16700.6	16059.1	11282.6	5675.1	3267.4	2955.7	2532.4	2262.2	2129.8	2059.7	2044.1
50°	17874.6	16846.0	11043.7	5090.7	2937.5	2672.6	2298.6	2114.2	2012.9	1948.0	1924.6
52.5°	18978.4	17560.3	10755.4	4428.4	2602.5	2397.3	2194.7	2051.9	1945.4	1872.6	1841.5
55°	20004.3	18175.9	10347.6	3750.5	2329.8	2212.9	2145.4	2025.9	1903.8	1818.1	1784.3
57.5°	20916.0	18575.8	9643.7	3114.2	2135.0	2085.6	2093.4	1981.7	1841.5	1768.8	1722.0
60°	21674.4	18869.3	8602.2	2524.6	1976.5	1961.0	2012.9	1898.6	1735.0	1651.9	1615.5
62.5°	22128.9	18864.1	7324.4	2067.4	1841.5	1846.7	1906.4	1794.7	1628.5	1550.6	1527.2
65°	22090.0	18401.8	5921.8	1768.8	1711.6	1716.8	1794.7	1680.4	1540.2	1493.4	1490.8
67.5°	21308.2	17274.6	4542.7	1574.0	1568.8	1592.1	1683.0	1602.5	1485.7	1480.5	1488.2
70°	19191.4	14934.4	3272.6	1418.1	1420.7	1454.5	1574.0	1553.2	1457.1	1467.5	1464.9
72.5°	15389.0	11386.5	2197.3	1254.5	1257.1	1311.6	1470.1	1514.2	1428.5	1566.2	1586.9
75°	10248.9	7101.0	1412.9	1080.5	1083.1	1153.2	1379.2	1438.9	1350.6	1561.0	1574.0
77.5°	4924.5	3192.1	1023.3	909.1	909.1	974.0	1192.2	1288.3	1150.6	1212.9	1111.6
80°	1701.2	1199.9	805.2	732.4	716.9	761.0	1005.2	1116.8	992.2	914.2	857.1
82.5°	670.1	623.4	646.7	568.8	516.9	545.4	781.8	922.0	729.8	659.7	657.1
85°	384.4	405.2	457.1	376.6	298.7	335.1	574.0	662.3	550.6	485.7	496.1
87.5°	103.9	142.9	210.4	194.8	135.1	142.9	272.7	366.2	316.9	244.1	251.9
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)