

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: P942469

Luminaire Tested: **GALN-SB6C-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6C-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41634 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 300.9
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



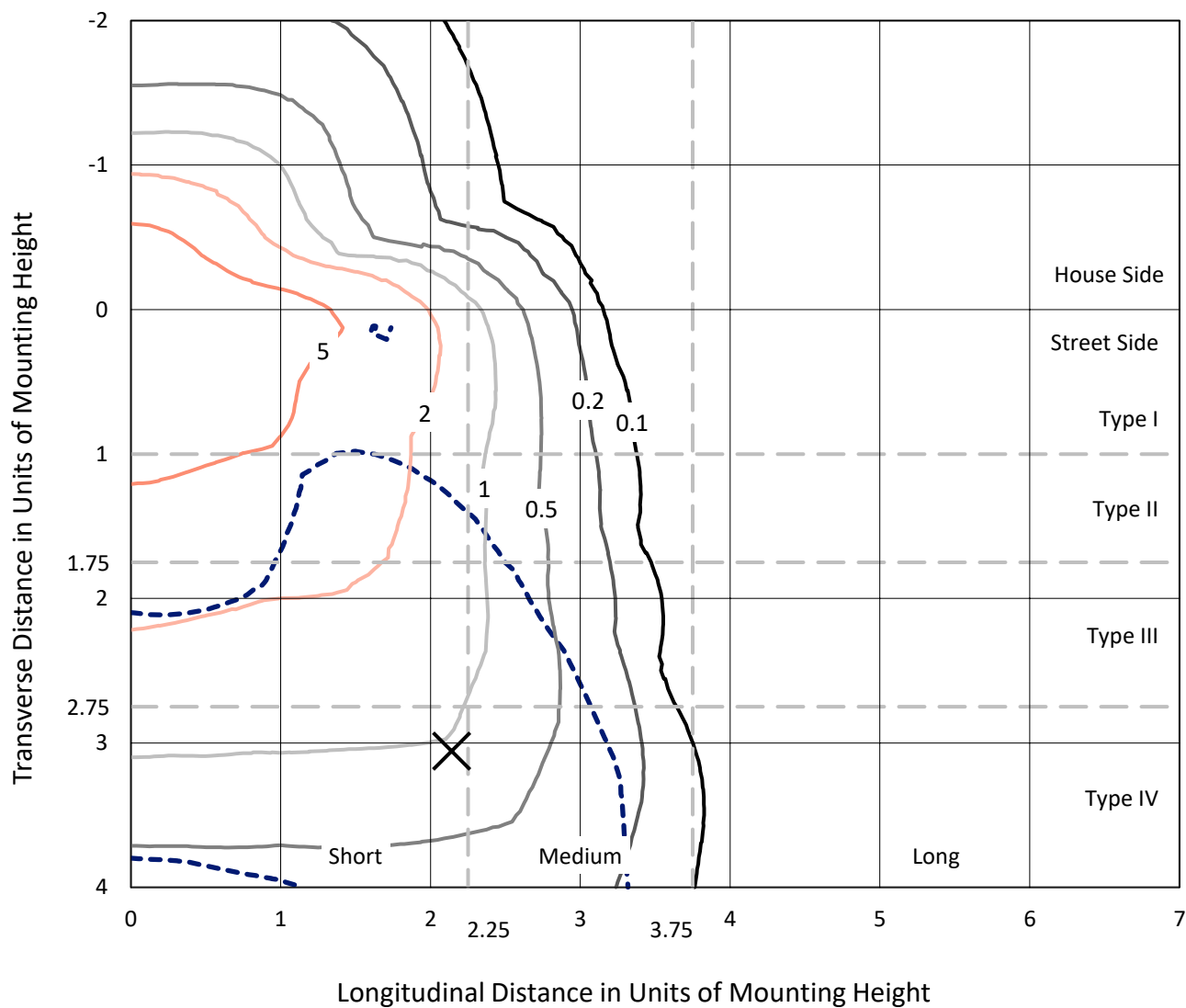
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



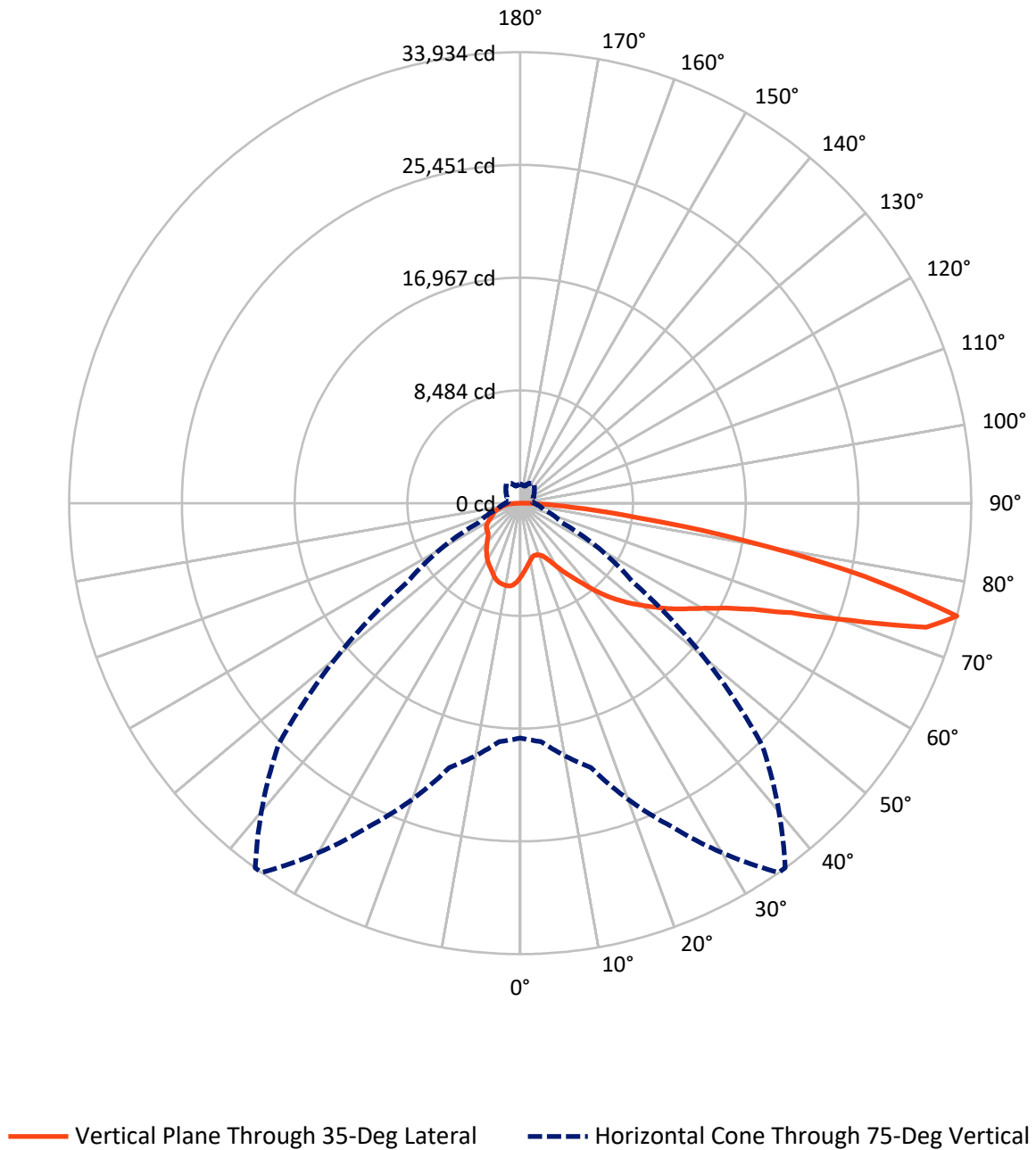
Based on 25 foot mounting height. Maximum calculated value = 9.8 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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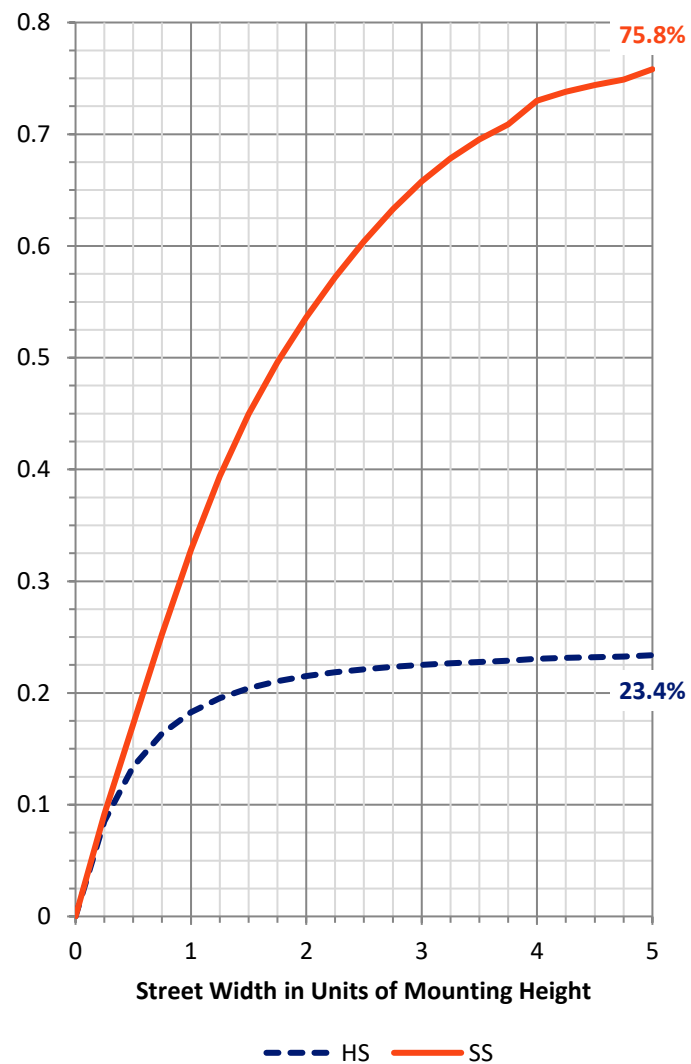
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9907.9	0.0	9907.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	31726.2	0.0	31726.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	41634.0	0.0	41634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.3	1.3
10°-20°	1515.2	3.6
20°-30°	2544.3	6.1
30°-40°	3954.3	9.5
40°-50°	5869.2	14.1
50°-60°	8102.7	19.5
60°-70°	9830.5	23.6
70°-80°	8124.1	19.5
80°-90°	1168.5	2.8
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°	41634.0	100.0
0°-180°	41634.0	100.0

Coefficient of Utilization



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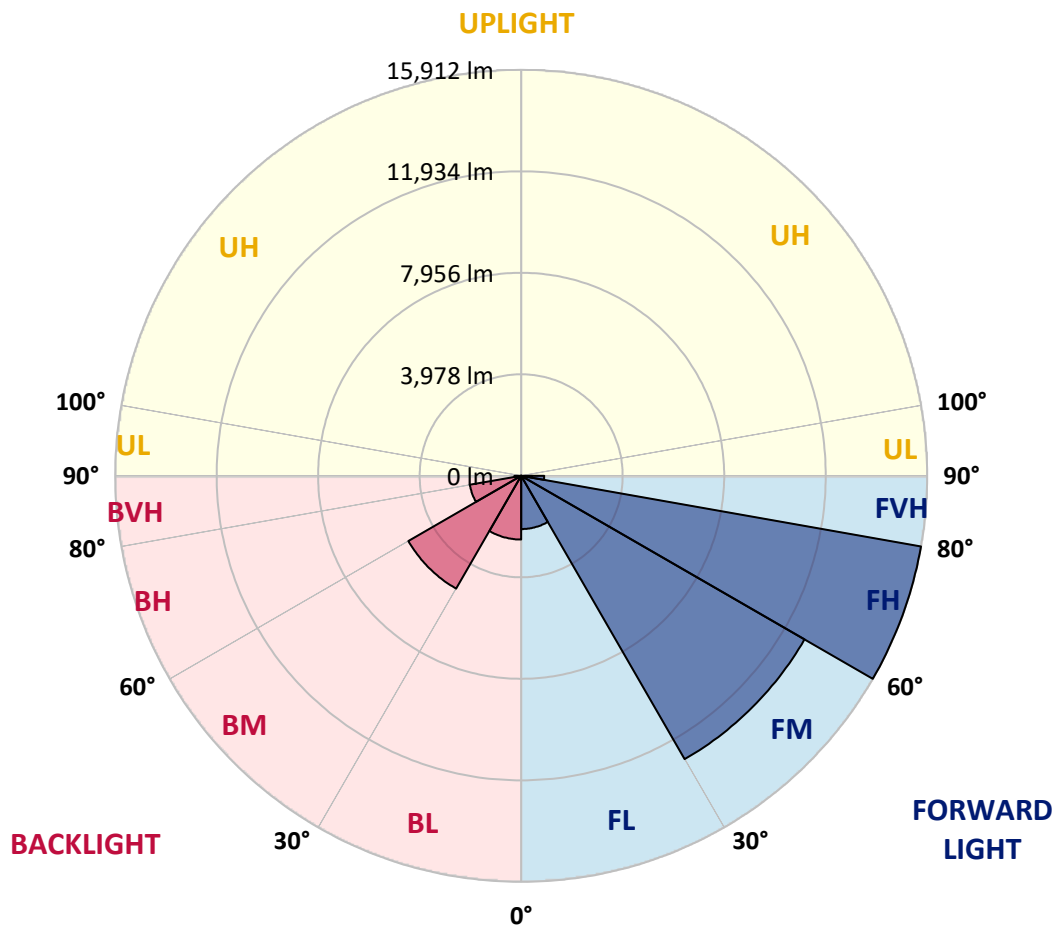
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2087.9	5.0			
FM	(30°-60°)	12821.0	30.8			
FH	(60°-80°)	15911.9	38.2			G5
FVH	(80°-90°)	905.4	2.2			G5
BL	(0°-30°)	2496.9	6.0	B3/2500		
BM	(30°-60°)	5105.1	12.3	B4/8500		
BH	(60°-80°)	2042.7	4.9	B3/2500		G3/2500
BVH	(80°-90°)	263.1	0.6			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	5548.0	5548.0	5548.0	5548.0	5548.0	5548.0	5548.0	5548.0	5548.0	5548.0	5548.0
2.5°	5115.9	5147.4	5160.9	5154.1	5187.9	5183.4	5230.7	5289.2	5370.2	5449.0	5563.8
5°	4722.0	4755.8	4785.0	4812.0	4877.3	4897.6	4971.8	5084.4	5232.9	5383.7	5572.8
7.5°	4355.1	4384.4	4429.4	4478.9	4589.2	4609.5	4733.3	4908.8	5115.9	5336.4	5597.5
10°	4055.8	4085.0	4132.3	4188.6	4325.9	4350.6	4508.2	4742.3	5012.3	5291.4	5624.5
12.5°	3927.5	3936.5	3963.5	4019.8	4139.1	4154.8	4328.1	4596.0	4911.1	5257.7	5665.0
15°	3920.7	3938.8	3941.0	3970.3	4069.3	4076.0	4235.8	4501.4	4848.0	5250.9	5725.8
17.5°	3988.3	4001.8	3981.5	3999.5	4082.8	4094.1	4220.1	4456.4	4827.8	5280.2	5829.4
20°	4168.3	4179.6	4118.8	4094.1	4154.8	4163.8	4287.6	4485.7	4848.0	5340.9	5971.1
22.5°	4550.9	4557.7	4409.2	4307.9	4312.4	4316.9	4424.9	4605.0	4926.8	5451.2	6151.2
25°	5147.4	5142.9	4906.6	4710.7	4598.2	4573.5	4645.5	4798.5	5059.6	5597.5	6383.0
27.5°	5845.1	5811.3	5575.0	5282.4	5037.1	5001.1	4985.3	5050.6	5248.7	5791.1	6666.6
30°	6632.9	6601.3	6347.0	5964.4	5624.5	5566.0	5417.5	5383.7	5530.0	6054.4	7060.5
32.5°	7497.1	7476.9	7173.0	6709.4	6254.7	6187.2	5937.4	5847.4	5962.1	6452.8	7609.7
35°	8221.9	8203.9	7951.8	7474.6	6918.7	6835.4	6581.1	6479.8	6538.3	6963.7	8327.6
37.5°	8876.8	8867.8	8651.7	8275.9	7701.9	7600.7	7314.8	7281.1	7269.8	7636.7	9198.7
40°	9484.5	9462.0	9236.9	9038.9	8613.5	8521.2	8269.1	8239.9	8154.3	8464.9	10184.5
42.5°	10157.5	10099.0	9772.6	9680.3	9565.5	9489.0	9338.2	9342.7	9153.7	9399.0	11228.8
45°	10706.7	10672.9	10337.5	10283.5	10407.3	10375.8	10506.3	10540.1	10173.2	10378.0	12313.7
47.5°	11296.3	11264.8	10981.2	10943.0	11278.3	11287.3	11748.7	11760.0	11168.0	11395.4	13400.8
50°	12023.3	11978.3	11697.0	11744.2	12120.1	12153.9	12997.9	12921.4	12084.1	12428.4	14478.8
52.5°	12502.7	12529.7	12469.0	12545.5	13058.6	13090.2	14226.8	14031.0	12991.1	13448.0	15536.7
55°	12856.1	12910.1	13099.2	13274.7	14049.0	14080.5	15385.9	15086.5	13742.9	14393.3	16531.5
57.5°	13310.7	13234.2	13587.6	13929.7	14989.8	15073.0	16513.5	16103.9	14409.1	15208.1	17213.5
60°	13963.4	13909.4	14184.0	14690.4	16043.1	16175.9	17706.4	17019.9	14897.5	15854.0	17346.3
62.5°	15286.9	15151.8	15194.6	15642.5	17371.0	17546.6	19052.3	17818.9	15140.6	16106.1	16635.0
65°	17265.2	17033.4	16817.3	17127.9	19241.4	19414.7	20571.5	18446.9	15050.5	15617.7	14746.7
67.5°	19756.8	19527.2	19261.6	19554.2	21996.2	22133.5	22446.4	18800.2	14341.6	13736.1	11408.9
70°	21811.7	21726.2	22043.5	23247.6	26396.4	26400.9	24850.1	18507.6	12399.2	9738.8	6601.3
72.5°	21539.3	21487.6	23159.9	26882.5	31942.1	31822.9	27125.6	16292.9	8352.4	4393.4	2473.5
75°	17670.4	18005.7	20596.3	26817.3	33934.0	33918.3	25732.4	10357.8	3454.8	1820.8	1278.4
77.5°	9475.5	10006.7	13371.5	19799.5	26490.9	26889.3	18091.2	3623.7	1483.2	1165.9	884.5
80°	3090.2	3553.9	5329.7	10081.0	17213.5	17139.2	7753.7	1422.5	1015.1	826.0	612.2
82.5°	1312.2	1366.2	2381.3	4760.3	8834.1	8696.8	2469.0	817.0	713.5	564.9	378.1
85°	513.2	573.9	1051.1	2201.2	3826.2	3742.9	891.3	405.1	456.9	369.1	225.1
87.5°	168.8	204.8	375.9	754.0	1190.6	1147.9	218.3	139.5	198.1	168.8	81.0
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°	5548.0	5548.0	5548.0	5548.0	5548.0	5548.0	5548.0	5548.0	5548.0	5548.0	5548.0
2.5°	5595.3	5631.3	5674.1	5737.1	5791.1	5836.1	5883.4	5912.6	5923.9	5957.6	5955.4
5°	5635.8	5714.6	5820.3	5923.9	6025.2	6085.9	6140.0	6167.0	6191.7	6209.7	6214.2
7.5°	5703.3	5804.6	5971.1	6106.2	6191.7	6241.2	6277.2	6268.2	6277.2	6281.7	6288.5
10°	5761.8	5903.6	6101.7	6230.0	6295.2	6297.5	6288.5	6257.0	6241.2	6243.5	6248.0
12.5°	5831.6	5989.2	6203.0	6311.0	6329.0	6279.5	6241.2	6187.2	6167.0	6158.0	6153.5
15°	5926.1	6106.2	6313.3	6353.8	6308.8	6245.7	6180.5	6092.7	6047.7	6011.7	6022.9
17.5°	6040.9	6239.0	6398.8	6369.5	6272.7	6169.2	6063.4	5930.6	5838.4	5800.1	5802.3
20°	6200.7	6378.5	6464.1	6335.8	6189.5	6031.9	5851.9	5689.8	5604.3	5566.0	5561.5
22.5°	6394.3	6565.3	6527.1	6277.2	6070.2	5818.1	5593.0	5473.7	5431.0	5404.0	5408.5
25°	6626.1	6772.4	6572.1	6191.7	5874.4	5534.5	5361.2	5322.9	5302.7	5282.4	5282.4
27.5°	6927.7	7006.5	6605.8	6065.7	5568.3	5232.9	5169.9	5176.6	5169.9	5136.1	5142.9
30°	7326.1	7310.3	6637.4	5860.9	5217.2	4960.6	4965.1	4994.3	4998.8	4976.3	4987.6
32.5°	7850.5	7690.7	6653.1	5595.3	4881.8	4722.0	4726.5	4758.0	4780.5	4742.3	4760.3
35°	8485.2	8134.1	6628.4	5262.2	4623.0	4494.7	4460.9	4469.9	4476.7	4440.7	4465.4
37.5°	9225.7	8631.5	6518.1	4893.1	4409.2	4271.9	4199.8	4139.1	4103.1	4069.3	4091.8
40°	10038.2	9173.9	6315.5	4532.9	4170.6	4035.5	3927.5	3812.7	3691.2	3646.2	3666.4
42.5°	10889.0	9732.1	6070.2	4188.6	3896.0	3785.7	3670.9	3504.4	3322.1	3229.8	3241.0
45°	11771.2	10303.8	5829.4	3848.7	3614.6	3567.4	3434.6	3234.3	3036.2	2919.2	2910.2
47.5°	12635.5	10843.9	5476.0	3506.6	3351.3	3403.1	3299.5	3115.0	2894.4	2709.9	2689.6
50°	13461.5	11350.4	4897.6	3160.0	3137.5	3353.6	3254.5	2988.9	2736.9	2500.5	2480.3
52.5°	14280.8	11760.0	4157.1	2844.9	3022.7	3340.1	3196.0	2903.4	2595.1	2347.5	2320.5
55°	14976.3	11971.6	3443.6	2574.8	2856.2	3225.3	3126.2	2802.1	2394.8	2131.4	2108.9
57.5°	15372.4	11800.5	2849.4	2309.2	2626.6	3036.2	3007.0	2586.1	2156.2	1953.6	1926.6
60°	15201.3	11107.3	2363.3	2077.4	2408.3	2831.4	2799.9	2372.3	1973.9	1782.6	1755.6
62.5°	14258.3	9786.1	1978.4	1874.8	2210.2	2622.1	2592.8	2208.0	1834.3	1649.8	1620.5
65°	12358.7	7960.8	1679.0	1706.0	2009.9	2370.0	2412.8	2070.7	1724.0	1544.0	1514.7
67.5°	9426.0	5766.3	1445.0	1559.7	1814.1	2122.4	2246.2	1971.6	1631.8	1460.7	1433.7
70°	5372.5	3274.8	1246.9	1418.0	1640.8	1892.9	2117.9	1892.9	1532.7	1390.9	1372.9
72.5°	2036.9	1503.5	1078.1	1276.2	1474.2	1699.3	1976.1	1769.1	1418.0	1312.2	1294.2
75°	1087.1	916.0	907.0	1109.6	1282.9	1510.2	1798.3	1647.5	1332.4	1386.4	1431.5
77.5°	740.5	648.2	758.5	949.8	1073.6	1300.9	1609.3	1463.0	1154.6	1150.1	1060.1
80°	513.2	459.1	616.7	765.2	830.5	1093.8	1404.4	1255.9	940.8	877.8	839.5
82.5°	308.3	299.3	461.4	571.7	587.4	844.0	1163.6	1053.3	769.7	670.7	675.2
85°	168.8	177.8	294.8	335.4	342.1	589.7	911.5	814.8	591.9	497.4	501.9
87.5°	47.3	60.8	108.0	132.8	164.3	306.1	542.4	483.9	297.1	207.1	207.1
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)