

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: P651925

Luminaire Tested: **GALN-SA5A-840-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651925  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-840-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19217.7 lumens  
Efficiency: N/A  
Efficacy: 124.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

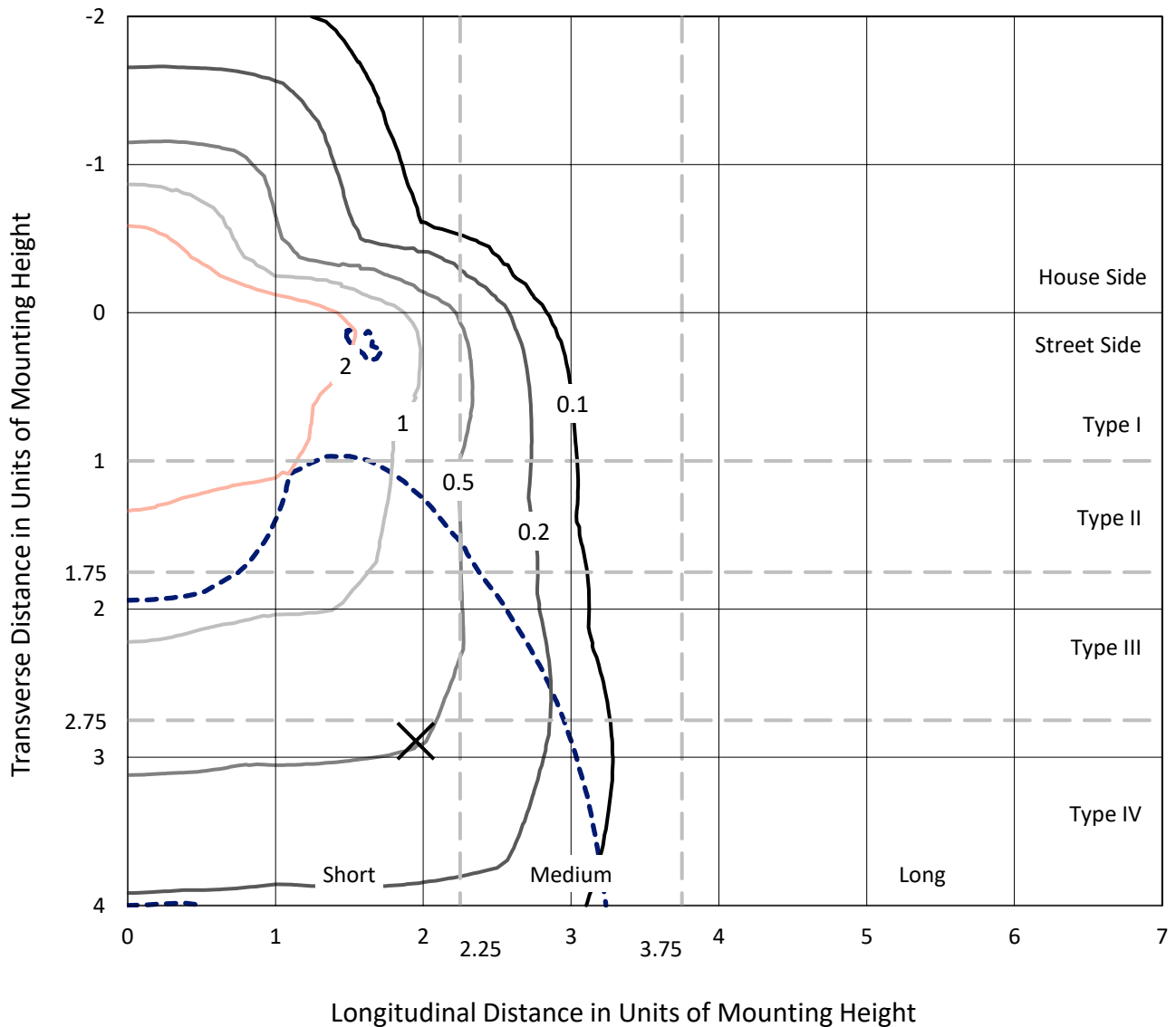
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

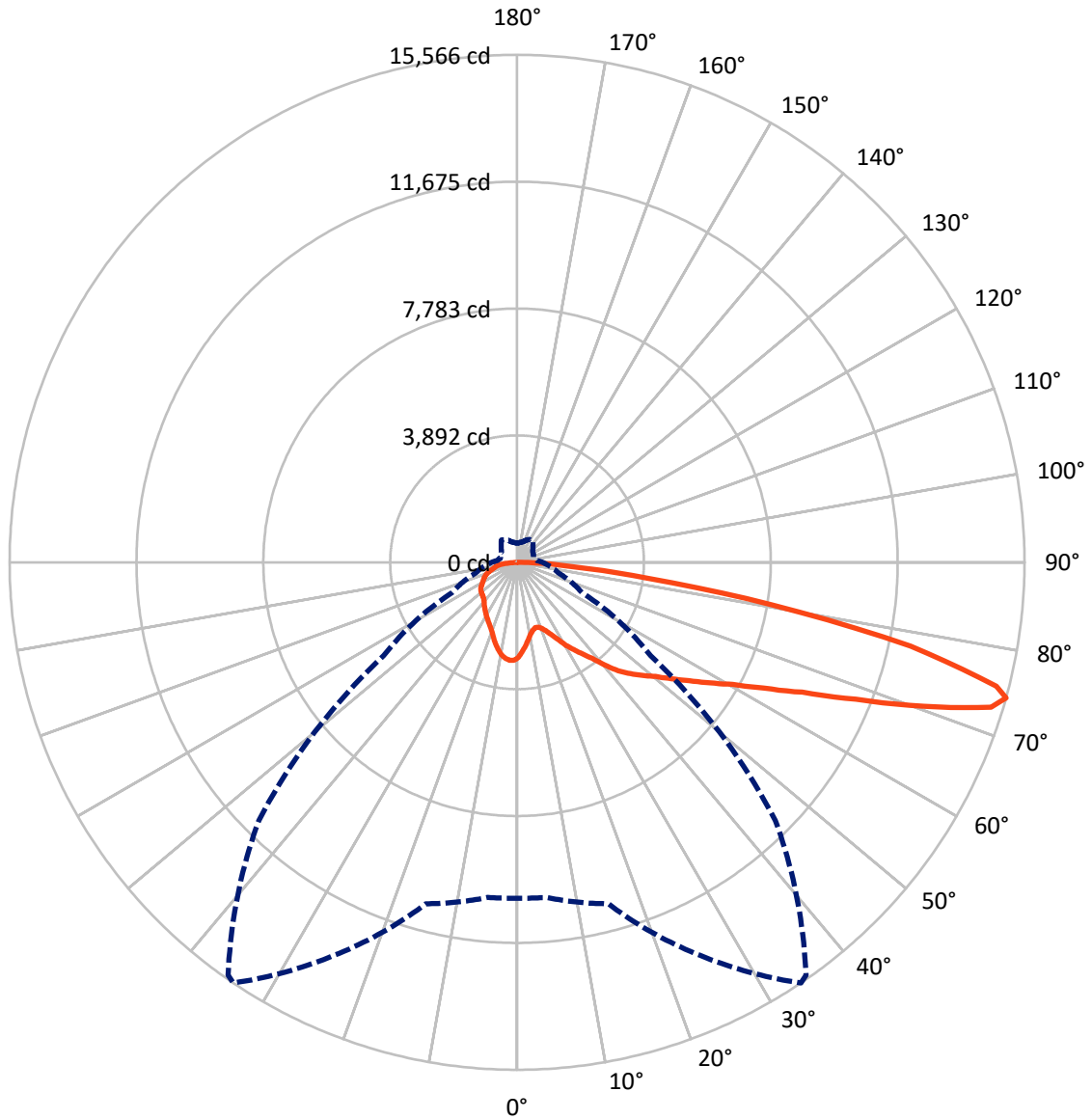
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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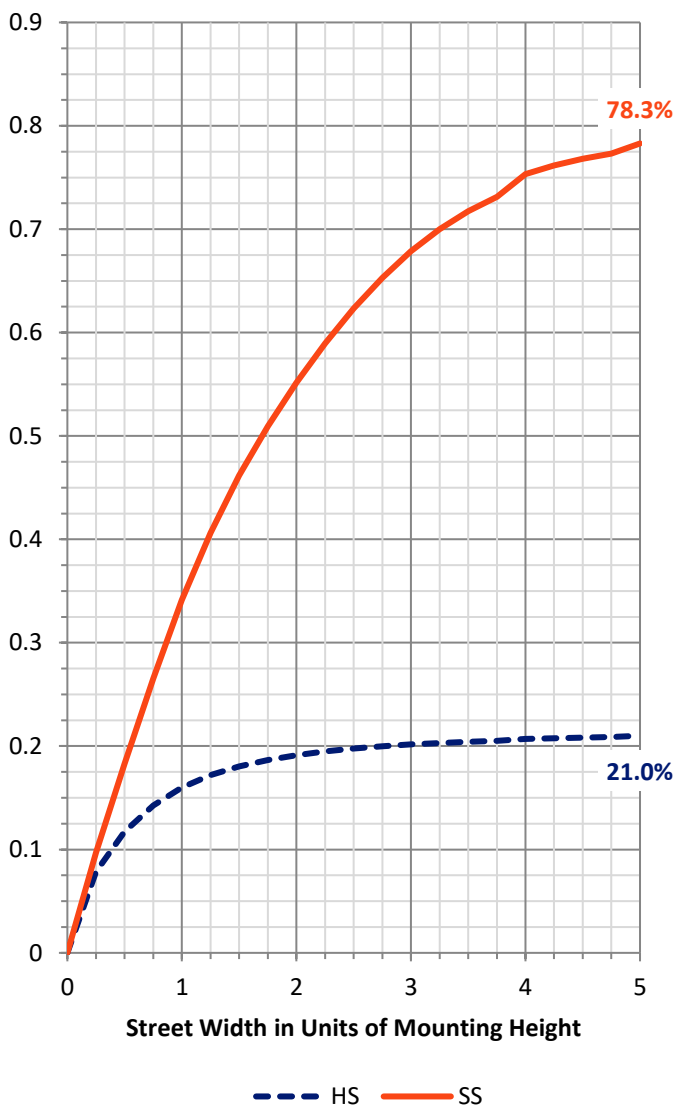
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4089.7	0.0	4089.7
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	15128.0	0.0	15128.0
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	19217.7	0.0	19217.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.9	1.4
10°-20°	730.5	3.8
20°-30°	1204.4	6.3
30°-40°	1804.0	9.4
40°-50°	2622.6	13.6
50°-60°	3663.1	19.1
60°-70°	4586.0	23.9
70°-80°	3792.3	19.7
80°-90°	548.0	2.9
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°	19217.7	100.0
0°-180°	19217.7	100.0

**Coefficient of Utilization**



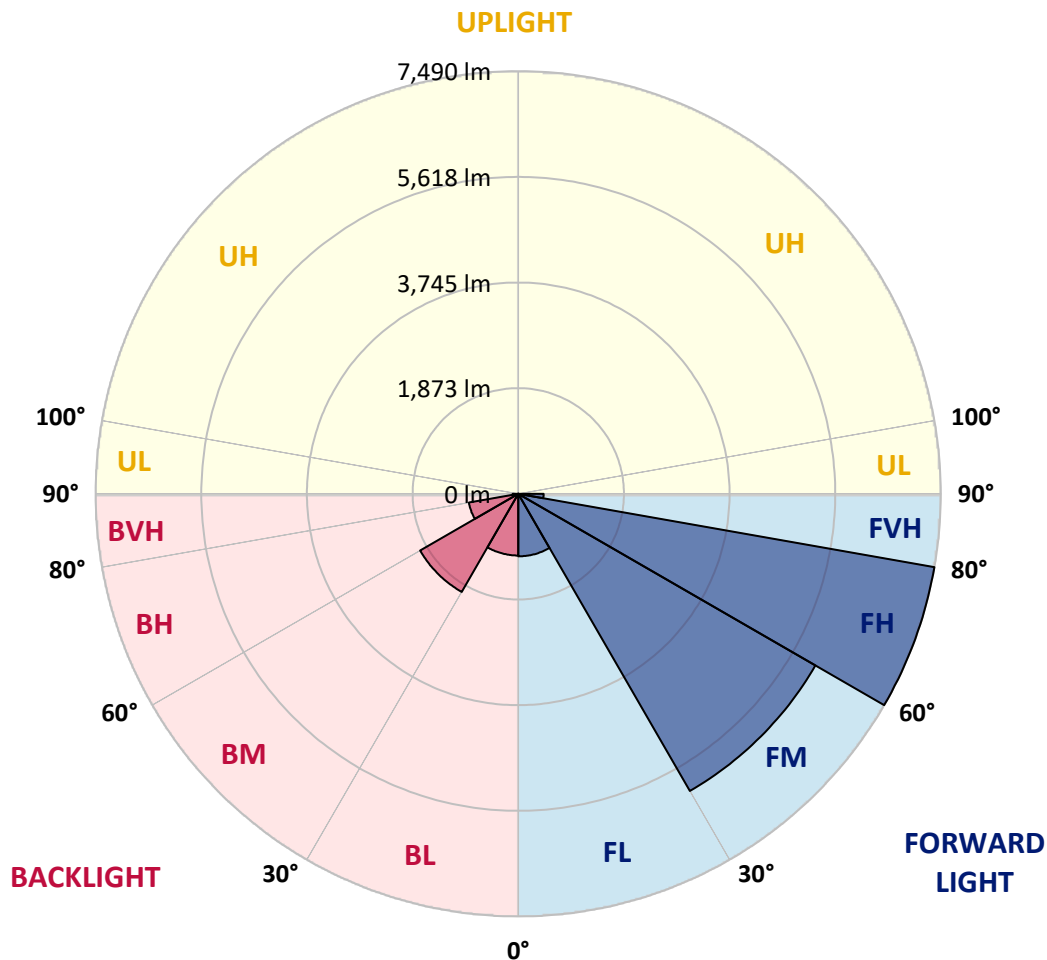
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1107.8	5.8			
FM (30°-60°)	6081.3	31.6			
FH (60°-80°)	7490.0	39.0			G3/7500
FVH (80°-90°)	448.9	2.3			G3/500
BL (0°-30°)	1093.9	5.7	B3/2500		
BM (30°-60°)	2008.4	10.5	B2/2500		
BH (60°-80°)	888.2	4.6	B2/1000		G2/1000
BVH (80°-90°)	99.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2934.2	2934.2	2934.2	2934.2	2934.2	2934.2	2934.2	2934.2	2934.2	2934.2	2934.2
2.5°	2711.6	2725.5	2732.9	2759.6	2766.0	2774.5	2796.8	2826.6	2865.0	2899.0	2928.9
5°	2485.9	2507.3	2520.1	2543.4	2589.2	2593.5	2653.1	2721.2	2798.9	2871.3	2931.0
7.5°	2272.0	2295.3	2306.0	2348.6	2409.3	2418.9	2506.2	2613.7	2743.6	2853.3	2944.8
10°	2111.2	2122.9	2146.3	2178.3	2250.7	2257.1	2370.9	2514.7	2682.9	2844.8	2968.2
12.5°	2023.9	2030.3	2035.6	2069.7	2141.0	2150.6	2269.9	2432.7	2635.0	2851.2	3006.6
15°	2036.6	2038.8	2015.4	2021.8	2079.3	2093.1	2211.2	2378.4	2605.2	2867.1	3064.0
17.5°	2144.2	2136.7	2079.3	2049.4	2089.9	2096.3	2199.6	2357.2	2591.4	2896.9	3123.6
20°	2313.5	2302.8	2203.8	2137.8	2161.2	2166.6	2237.9	2373.1	2605.2	2945.9	3216.3
22.5°	2524.3	2520.1	2369.9	2290.0	2288.9	2288.9	2326.3	2430.6	2646.7	3013.0	3313.2
25°	2819.2	2796.8	2601.0	2497.7	2468.9	2466.8	2462.5	2525.4	2699.9	3084.3	3428.2
27.5°	3121.5	3083.2	2908.6	2750.0	2688.3	2680.8	2653.1	2659.5	2768.1	3165.2	3559.1
30°	3393.0	3368.5	3204.5	3028.9	2955.4	2938.5	2861.8	2826.6	2882.0	3311.0	3767.8
32.5°	3600.7	3585.7	3457.9	3298.2	3189.7	3186.5	3074.7	3045.9	3059.8	3487.8	4006.3
35°	3768.9	3774.2	3709.2	3570.8	3446.2	3428.2	3353.7	3317.4	3277.0	3743.3	4306.5
37.5°	3998.8	4010.5	4006.3	3887.0	3734.8	3739.0	3722.0	3662.4	3554.8	4028.6	4639.7
40°	4252.2	4260.7	4259.7	4213.8	4134.0	4138.3	4131.9	4063.7	3903.0	4391.7	5010.3
42.5°	4602.5	4562.0	4456.6	4502.4	4549.2	4569.5	4613.1	4548.1	4327.8	4779.2	5358.3
45°	4994.3	4917.6	4679.2	4700.4	4873.9	4912.3	5152.9	5063.5	4788.7	5224.2	5768.3
47.5°	5241.3	5165.7	4964.4	4960.2	5190.1	5227.4	5653.3	5620.2	5208.2	5704.3	6268.6
50°	5461.6	5450.9	5224.2	5278.5	5503.2	5558.5	6198.3	6167.5	5626.6	6270.7	6813.7
52.5°	5788.4	5702.2	5521.2	5633.0	5930.1	6002.5	6739.2	6648.7	6011.0	6771.1	7342.9
55°	5935.4	5915.2	5904.5	6001.4	6409.2	6461.3	7265.1	7057.5	6338.9	7194.8	7745.3
57.5°	6328.3	6291.0	6396.4	6462.4	6973.4	7053.3	7814.5	7484.5	6626.3	7531.3	7941.2
60°	6837.2	6816.9	6913.8	7033.0	7603.7	7725.1	8440.5	7848.5	6857.3	7700.6	7833.7
62.5°	7597.3	7595.2	7577.1	7832.6	8497.0	8608.7	9159.2	8203.1	6893.6	7573.9	7277.9
65°	8687.5	8649.2	8491.6	8770.5	9608.4	9739.4	9907.6	8401.1	6675.4	6923.4	6128.1
67.5°	9827.8	9825.6	9697.8	10059.8	11204.3	11339.5	10843.4	8357.4	6069.6	5608.5	4352.3
70°	10773.1	10727.4	10890.3	11854.8	13243.1	13399.7	11662.1	7843.3	4834.6	3703.9	2586.0
72.5°	10999.9	11002.0	11340.6	13238.9	15201.0	15225.5	11957.0	6357.0	3235.5	2043.0	1293.5
74°	10301.5	10319.6	10844.4	13308.1	15566.2	15455.5	11203.3	4996.4	2187.9	1334.0	932.7
75°	9403.0	9289.0	10048.1	12847.0	15187.2	15067.9	10320.7	4009.5	1669.4	1065.7	816.6
77.5°	5027.2	5143.3	6314.4	9587.1	12338.1	12200.8	6997.9	1922.8	901.7	742.1	587.7
80°	1789.6	1973.8	2774.5	5016.6	7910.3	7952.9	3339.8	881.5	634.5	547.2	415.2
82.5°	730.3	750.6	1191.4	2226.2	4016.9	4055.2	1363.8	523.8	453.6	376.9	248.1
85°	285.4	293.8	527.0	1000.8	1714.0	1825.9	471.6	276.8	279.0	216.1	126.7
87.5°	95.8	108.6	216.1	333.2	582.4	570.6	137.3	82.0	100.1	93.7	39.4
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°	2934.2	2934.2	2934.2	2934.2	2934.2	2934.2	2934.2	2934.2	2934.2	2934.2	2934.2
2.5°	2943.8	2963.9	2977.8	2992.7	3006.6	3010.8	3007.6	3017.2	3018.3	3019.4	3020.4
5°	2960.7	2988.5	3015.1	3030.0	3036.3	3031.0	3013.0	3003.4	2994.9	2988.5	2990.6
7.5°	2984.2	3023.6	3048.0	3054.4	3037.4	3013.0	2968.2	2933.1	2910.7	2895.8	2894.8
10°	3020.4	3058.7	3079.0	3060.8	3014.0	2954.3	2884.1	2818.1	2768.1	2753.2	2752.1
12.5°	3066.2	3109.8	3108.8	3055.5	2973.5	2867.1	2753.2	2676.5	2608.4	2574.3	2588.2
15°	3125.8	3158.8	3127.9	3032.1	2902.2	2756.4	2615.8	2511.5	2434.9	2398.6	2400.8
17.5°	3195.0	3223.7	3141.8	2990.6	2802.1	2614.8	2451.9	2352.9	2292.1	2265.6	2263.5
20°	3281.2	3289.7	3141.8	2918.2	2673.3	2449.7	2294.3	2225.1	2191.1	2177.2	2181.5
22.5°	3373.8	3356.9	3124.7	2816.0	2504.1	2277.3	2173.0	2142.0	2125.0	2122.9	2125.0
25°	3478.2	3430.3	3089.6	2677.6	2327.3	2128.2	2067.5	2072.9	2076.1	2076.1	2083.5
27.5°	3606.0	3510.2	3031.0	2503.0	2120.7	1989.8	1972.8	2010.1	2027.1	2030.3	2035.6
30°	3774.2	3597.5	2934.2	2284.7	1945.1	1865.3	1895.1	1945.1	1964.2	1976.0	1973.8
32.5°	3974.3	3693.3	2803.2	2066.5	1803.5	1778.0	1814.1	1865.3	1886.5	1892.9	1884.4
35°	4209.6	3801.8	2630.7	1862.1	1680.0	1695.0	1737.5	1753.5	1772.7	1772.7	1776.9
37.5°	4463.0	3889.1	2420.0	1674.7	1584.2	1638.5	1669.4	1654.5	1645.9	1635.3	1640.6
40°	4720.6	3954.1	2146.3	1489.4	1488.4	1579.9	1588.5	1545.8	1511.8	1501.2	1495.8
42.5°	4945.2	3994.6	1899.3	1345.7	1397.9	1522.5	1528.9	1460.7	1406.4	1374.4	1363.8
45°	5210.3	4041.4	1657.6	1226.4	1313.8	1476.6	1492.6	1401.1	1321.2	1254.2	1237.1
47.5°	5573.4	4147.9	1467.0	1133.8	1253.1	1447.9	1470.2	1352.1	1246.7	1159.4	1145.5
50°	5983.3	4293.7	1319.1	1071.0	1206.2	1422.4	1450.1	1302.0	1177.5	1080.6	1070.0
52.5°	6359.1	4372.5	1191.4	1014.6	1160.5	1375.5	1423.4	1265.9	1109.4	1001.8	992.2
55°	6564.6	4244.8	1065.7	959.2	1097.7	1314.8	1386.1	1215.8	1043.3	960.3	946.5
57.5°	6592.3	3980.7	951.8	899.6	1031.7	1240.3	1317.0	1155.1	1000.8	931.6	919.9
60°	6378.3	3586.8	863.5	850.7	964.5	1156.2	1239.2	1101.9	957.1	899.6	887.9
62.5°	5846.0	3158.8	801.6	805.9	896.4	1067.8	1181.8	1050.8	915.6	864.5	853.9
65°	4930.4	2607.4	742.1	760.2	835.8	998.6	1129.5	1008.2	874.1	837.9	828.3
67.5°	3425.0	1882.3	693.1	712.2	778.3	928.4	1068.9	962.4	827.2	808.0	793.1
70°	1896.1	1158.3	635.6	657.9	718.6	849.6	1000.8	893.2	759.1	750.6	729.3
72.5°	996.5	737.8	570.6	595.2	637.7	748.4	896.4	817.6	692.1	655.8	628.1
74°	778.3	604.7	527.0	552.5	581.3	688.9	834.7	763.4	644.1	601.5	580.2
75°	678.2	538.7	489.7	522.8	548.3	648.3	786.8	725.0	617.5	577.0	557.8
77.5°	479.1	403.5	400.3	439.7	453.6	568.5	709.0	660.1	550.4	507.8	489.7
80°	336.4	302.3	317.2	341.8	360.9	502.5	657.9	570.6	451.4	401.4	395.0
82.5°	219.3	198.1	226.7	249.1	255.5	370.5	531.3	433.3	329.0	267.2	248.1
85°	101.2	99.0	129.9	126.7	125.6	181.0	315.1	253.4	189.5	141.6	133.0
87.5°	25.6	24.5	32.0	26.6	32.0	27.7	28.8	7.5	1.1	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)