

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: STREETWORKS

Report Number: P190886

Luminaire Tested: **GAN-AF-08-LED-U-5WQ-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190886  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-08-LED-U-5WQ-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41528.7 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G4

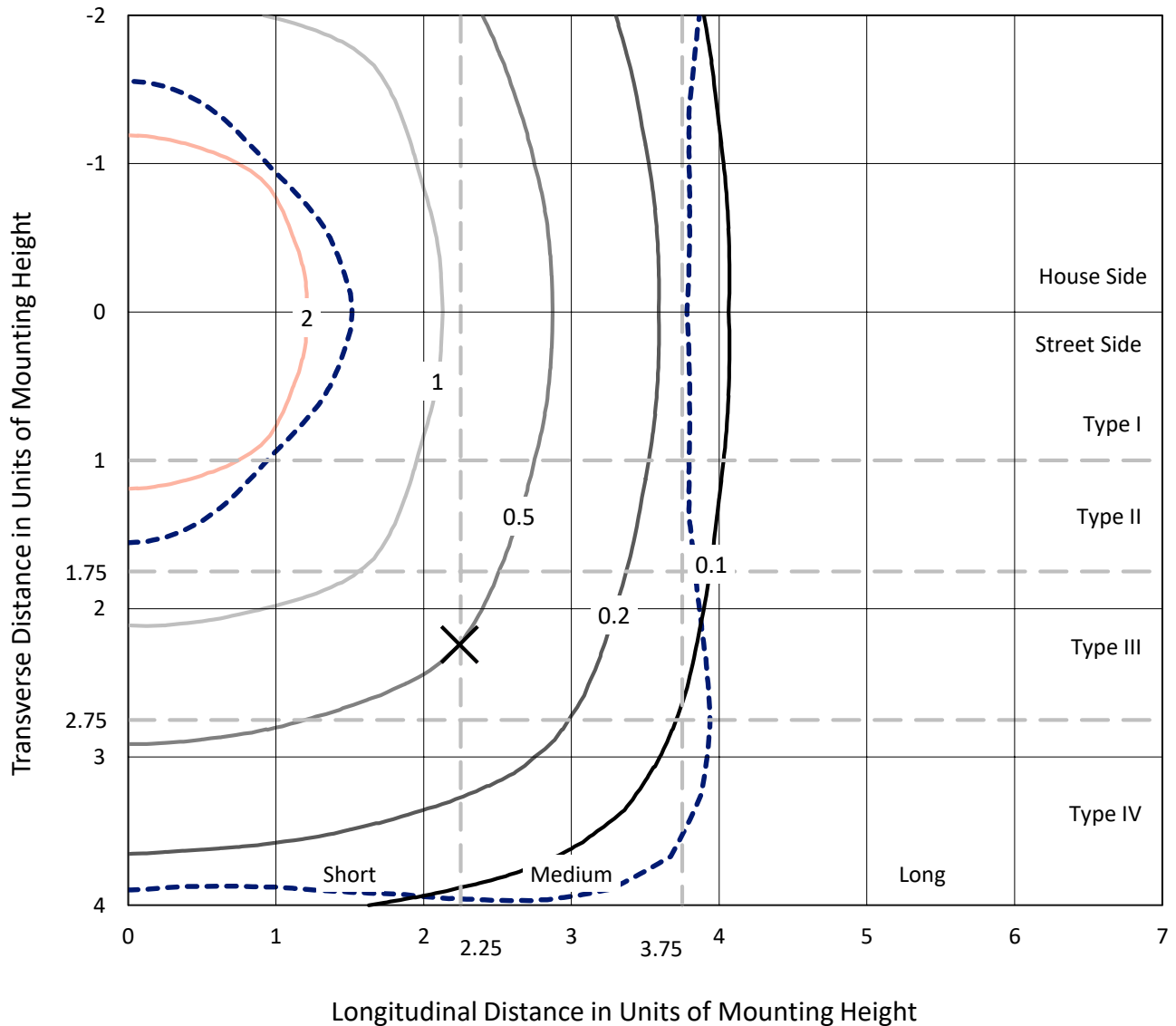
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

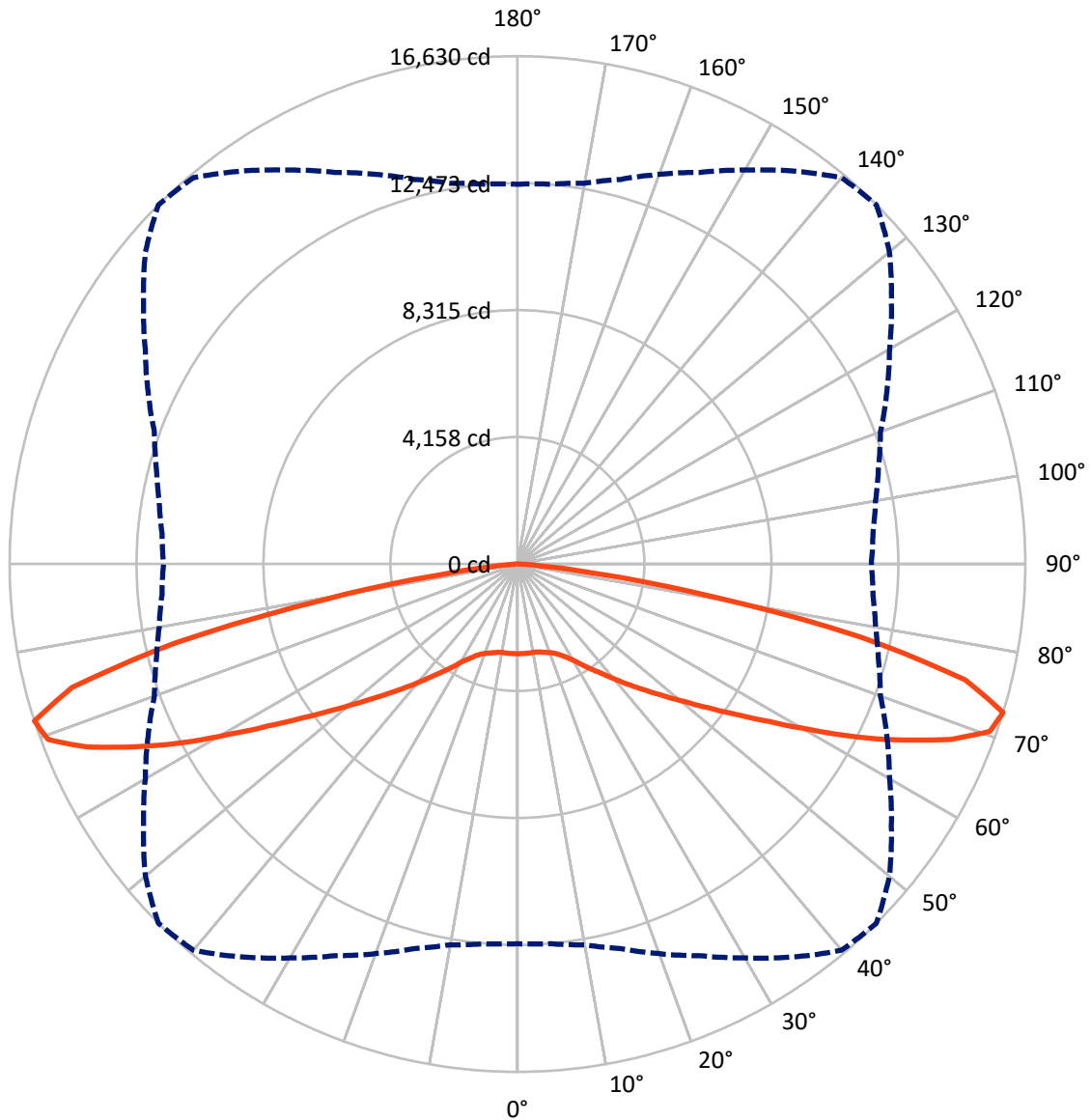
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.3 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical



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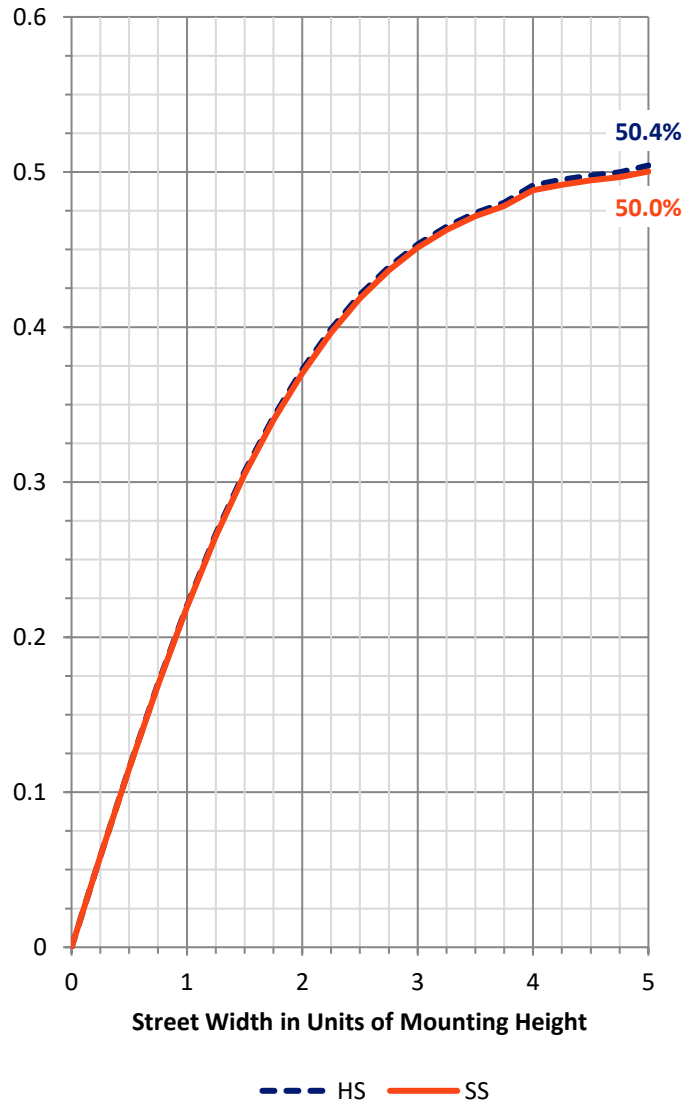
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20764.4	0.0	20764.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20764.4	0.0	20764.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	41528.7	0.0	41528.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.8	0.7
10°-20°	852.9	2.1
20°-30°	1558.6	3.8
30°-40°	2687.2	6.5
40°-50°	4593.8	11.1
50°-60°	7445.9	17.9
60°-70°	12352.6	29.7
70°-80°	10879.7	26.2
80°-90°	877.2	2.1
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°	41528.7	100.0
0°-180°	41528.7	100.0

**Coefficient of Utilization**



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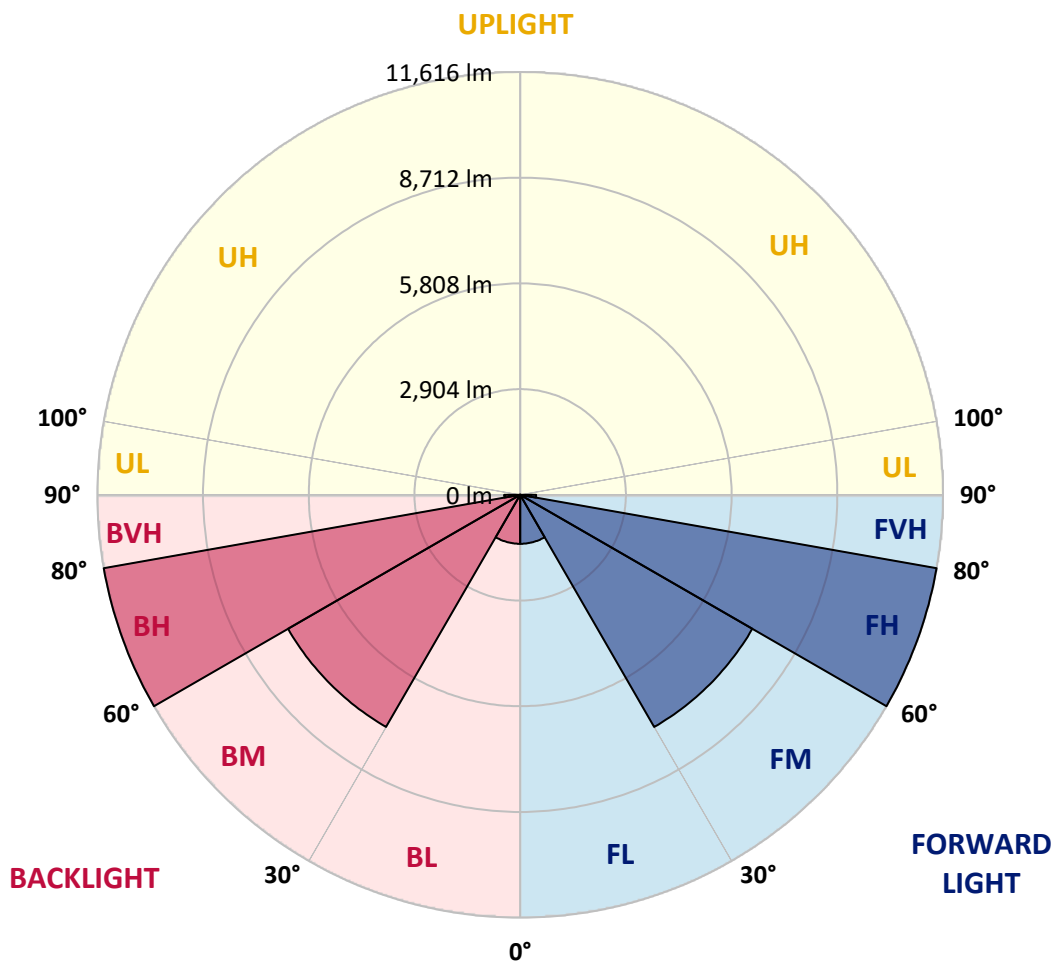
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1346.1	3.2			
FM	(30°-60°)	7363.5	17.7			
FH	(60°-80°)	11616.1	28.0			G4/12000
FVH	(80°-90°)	438.6	1.1			G3/500
BL	(0°-30°)	1346.1	3.2	B3/2500		
BM	(30°-60°)	7363.5	17.7	B4/8500		
BH	(60°-80°)	11616.1	28.0	B5		G4/12000
BVH	(80°-90°)	438.6	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9
2.5°	2940.9	2942.8	2944.7	2942.8	2942.8	2940.9	2938.9	2940.9	2938.9	2935.2	2937.1
5°	2950.4	2954.2	2954.2	2950.4	2952.3	2950.4	2946.6	2948.5	2944.7	2938.9	2938.9
7.5°	2961.9	2963.7	2963.7	2959.9	2961.9	2958.1	2954.2	2952.3	2948.5	2940.9	2935.2
10°	2978.9	2980.9	2978.9	2975.2	2975.2	2969.4	2959.9	2956.1	2948.5	2937.1	2931.4
12.5°	2998.1	2999.9	2998.1	2994.2	2992.3	2982.8	2975.2	2969.4	2963.7	2954.2	2944.7
15°	3024.7	3028.4	3024.7	3017.1	3011.4	3003.7	2999.9	3001.8	3003.7	2996.1	2986.6
17.5°	3074.2	3076.1	3070.4	3053.3	3045.6	3038.1	3038.1	3041.8	3047.6	3043.7	3034.2
20°	3165.6	3159.9	3146.6	3125.6	3116.1	3102.8	3100.9	3102.8	3102.8	3100.9	3093.3
22.5°	3279.9	3276.1	3258.9	3232.3	3218.9	3211.3	3199.9	3190.4	3188.5	3182.8	3175.1
25°	3417.1	3415.1	3394.2	3371.3	3361.8	3352.3	3342.8	3329.4	3318.0	3304.6	3297.1
27.5°	3592.3	3584.6	3554.2	3542.8	3529.5	3523.8	3510.4	3495.1	3485.6	3468.5	3459.0
30°	3784.7	3784.7	3759.9	3756.1	3756.1	3742.8	3727.5	3700.8	3683.7	3666.6	3660.8
32.5°	3977.0	3979.0	3954.2	3961.8	3967.5	3977.0	3980.8	3971.3	3959.9	3958.0	3946.5
35°	4255.2	4247.5	4222.7	4228.5	4226.5	4224.7	4224.7	4245.7	4249.4	4253.2	4230.4
37.5°	4599.9	4599.9	4575.1	4575.1	4563.7	4552.2	4537.0	4550.4	4571.4	4577.0	4561.7
40°	4994.1	5007.4	4977.1	4975.1	4978.9	4942.7	4925.6	4946.6	4959.9	4982.7	4965.6
42.5°	5458.9	5449.4	5418.9	5415.1	5394.1	5382.8	5367.5	5384.6	5405.6	5420.8	5426.5
45°	5904.6	5897.0	5862.7	5862.7	5841.8	5832.3	5839.8	5868.5	5878.0	5898.9	5919.8
47.5°	6344.6	6335.0	6312.2	6321.7	6323.7	6340.8	6365.5	6392.2	6418.9	6447.5	6457.0
50°	6794.1	6796.0	6771.2	6794.1	6822.7	6870.3	6936.9	6980.8	7036.1	7072.2	7083.6
52.5°	7203.6	7211.3	7237.9	7291.3	7348.4	7441.8	7556.0	7662.6	7754.1	7815.0	7811.3
55°	7695.0	7706.5	7771.3	7862.7	7956.0	8097.0	8266.5	8455.0	8607.4	8695.0	8639.7
57.5°	8323.6	8348.4	8420.7	8544.5	8683.6	8866.4	9098.8	9382.6	9618.8	9736.9	9647.3
60°	9186.4	9201.6	9289.3	9426.4	9594.1	9820.7	10131.2	10512.1	10845.4	11001.6	10898.8
62.5°	10323.5	10352.2	10422.6	10561.7	10733.1	10990.2	11369.3	11845.5	12260.7	12477.7	12245.4
65°	11681.6	11773.0	11832.1	11973.0	12133.0	12405.4	12801.6	13312.1	13757.8	13900.6	13632.0
67.5°	13026.4	13106.4	13209.2	13371.1	13533.0	13839.7	14207.3	14702.5	15192.0	15321.6	14904.4
70°	13614.9	13660.6	13820.6	14041.5	14352.0	14713.9	15138.6	15694.8	16300.5	16407.2	15877.7
72.5°	12435.9	12481.6	12660.7	13035.9	13576.8	14152.0	14892.9	15710.1	16510.0	16630.1	15900.5
75°	9405.5	9331.2	9596.0	10093.0	10822.6	11624.5	12660.7	13832.0	14988.2	15138.6	14268.2
77.5°	4860.9	4851.3	5051.3	5668.5	6538.9	7451.3	8592.2	9916.0	11047.4	11504.5	10795.9
80°	1369.5	1384.8	1480.0	1786.6	2295.2	2954.2	3845.6	5085.6	6011.3	6483.7	6087.5
82.5°	537.2	579.0	615.2	672.4	739.0	836.2	1116.1	1660.9	2228.5	2662.7	2180.9
85°	192.4	205.7	291.4	344.7	350.5	369.5	420.9	491.4	592.4	706.7	580.9
87.5°	72.4	80.0	93.3	154.3	152.4	139.0	169.5	177.2	133.3	121.9	150.5
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9	2940.9
2.5°	2933.3	2935.2	2935.2	2937.1	2938.9	2938.9	2942.8	2942.8
5°	2935.2	2935.2	2931.4	2933.3	2931.4	2931.4	2933.3	2933.3
7.5°	2931.4	2929.4	2925.6	2923.7	2919.9	2919.9	2919.9	2919.9
10°	2925.6	2923.7	2919.9	2918.1	2916.1	2916.1	2916.1	2916.1
12.5°	2940.9	2935.2	2931.4	2929.4	2929.4	2929.4	2929.4	2929.4
15°	2980.9	2967.6	2958.1	2958.1	2959.9	2963.7	2963.7	2967.6
17.5°	3030.4	3015.1	3005.6	2998.1	3001.8	3007.6	3011.4	3015.1
20°	3089.4	3081.8	3068.5	3060.9	3060.9	3068.5	3072.3	3074.2
22.5°	3171.4	3165.6	3159.9	3150.4	3150.4	3154.2	3161.8	3161.8
25°	3293.3	3289.4	3285.6	3278.0	3276.1	3276.1	3279.9	3283.8
27.5°	3445.6	3447.5	3443.8	3441.8	3436.1	3434.3	3439.9	3438.0
30°	3649.5	3659.0	3668.5	3660.8	3651.3	3645.6	3639.9	3632.3
32.5°	3925.6	3914.2	3906.5	3893.2	3876.1	3860.8	3849.5	3836.1
35°	4186.5	4167.5	4159.9	4171.3	4169.4	4159.9	4146.5	4135.2
37.5°	4506.5	4502.7	4506.5	4527.5	4523.7	4533.2	4506.5	4504.7
40°	4910.4	4914.2	4940.9	4965.6	4978.9	4992.3	4977.1	4961.8
42.5°	5378.9	5377.0	5386.6	5420.8	5443.6	5458.9	5426.5	5422.8
45°	5874.1	5860.8	5868.5	5897.0	5919.8	5937.0	5900.8	5900.8
47.5°	6418.9	6396.0	6371.2	6403.7	6417.0	6428.4	6399.9	6390.3
50°	7026.4	6978.9	6925.6	6938.9	6938.9	6935.1	6898.9	6896.9
52.5°	7723.6	7636.0	7538.8	7502.6	7481.8	7458.8	7396.0	7365.6
55°	8525.5	8394.0	8241.7	8148.4	8098.8	8036.0	7931.2	7902.7
57.5°	9462.6	9256.9	8994.1	8879.8	8769.3	8666.4	8550.2	8517.9
60°	10573.1	10270.2	9921.7	9710.3	9590.3	9491.1	9371.2	9365.5
62.5°	11811.1	11333.1	10938.8	10748.3	10660.7	10573.1	10458.8	10474.0
65°	13070.1	12571.1	12201.6	12047.3	11965.5	11893.0	11778.8	11795.9
67.5°	14312.0	13853.0	13447.3	13289.2	13197.8	13106.4	13003.4	13020.6
70°	15203.4	14633.9	14176.8	13826.3	13607.3	13359.6	13199.6	13159.6
72.5°	14948.2	14070.2	13344.4	12649.2	12241.7	11910.2	11685.5	11588.3
75°	12936.8	11736.8	10803.6	9950.2	9470.3	9079.8	8795.9	8618.9
77.5°	9607.3	8258.8	7156.1	6173.2	5396.1	4874.2	4506.5	4268.5
80°	5258.9	3999.9	2923.7	2055.2	1510.5	1255.2	1108.6	1038.1
82.5°	1638.1	1057.1	779.1	672.4	624.7	598.1	554.2	483.8
85°	521.9	457.2	424.7	405.7	386.7	337.2	232.4	211.4
87.5°	201.9	207.7	205.7	194.3	198.0	142.8	114.3	101.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)