

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: P192628

Luminaire Tested: **GAN-AF-10-LED-U-5WQ-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192628  
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-10-LED-U-5WQ-7030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 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: 48492.5 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G5

Input Watts (W): 419  
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

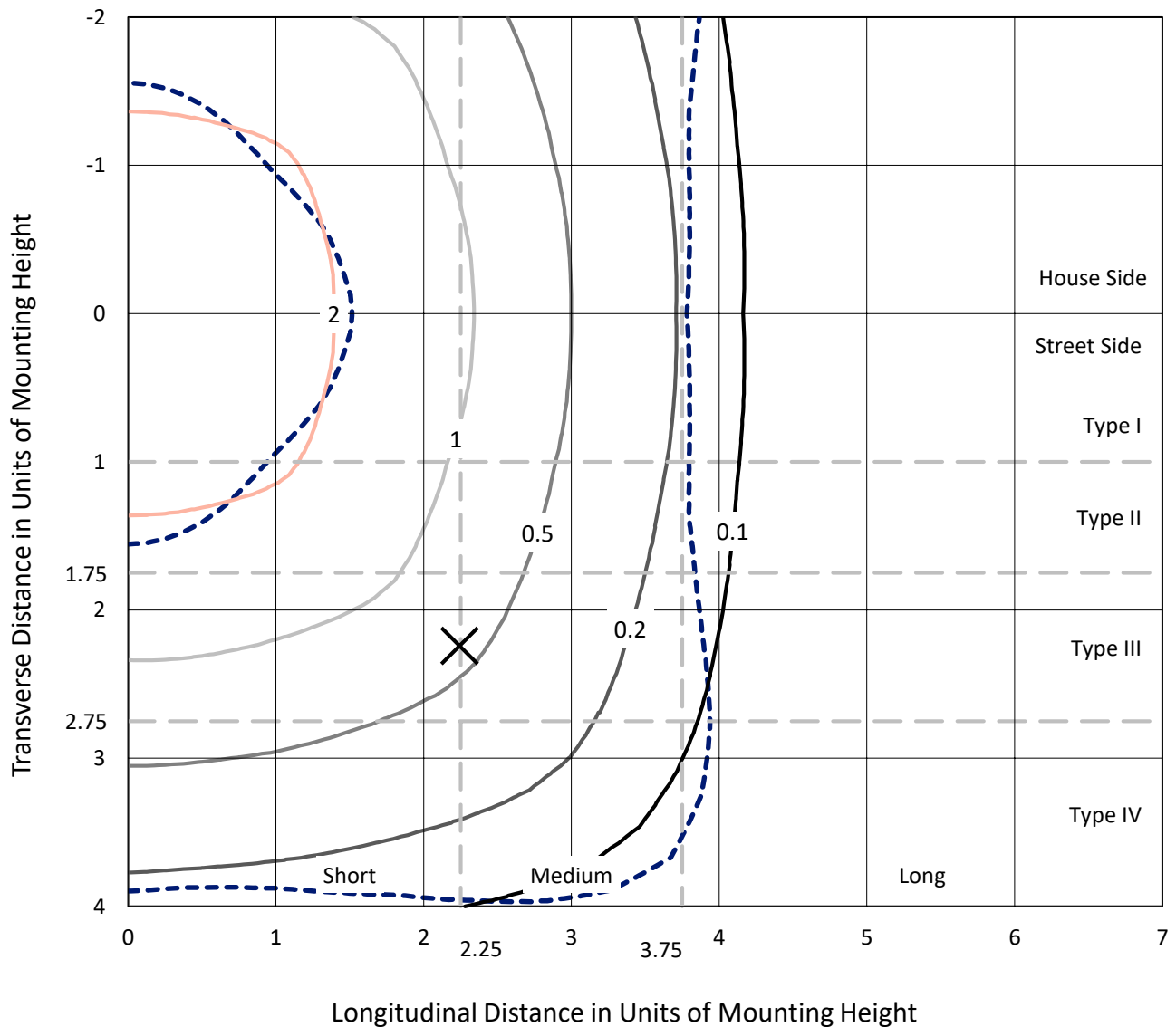


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

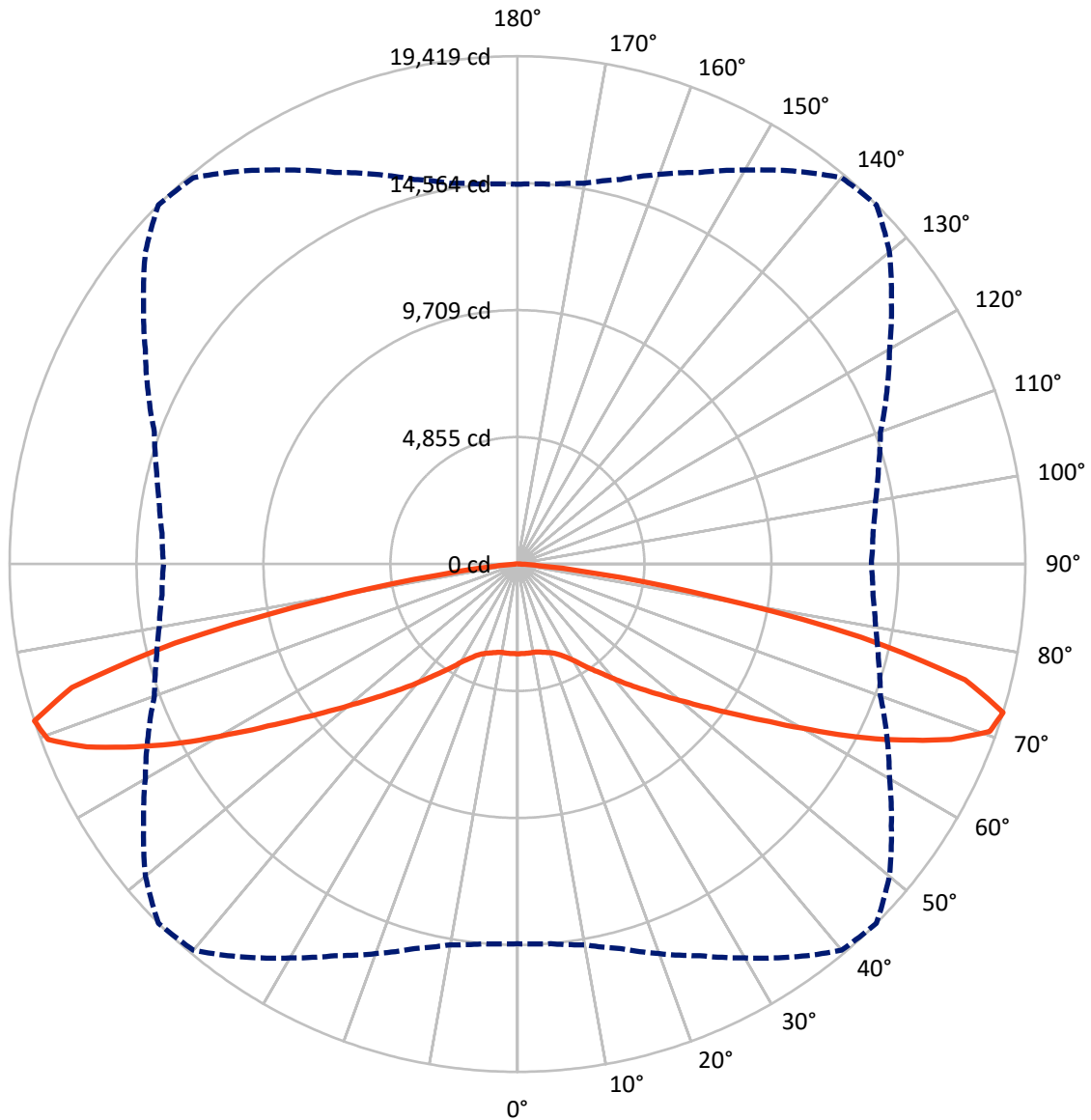


Based on 30 foot mounting height. Maximum calculated value = 3.8 fc  
 Type V - Short - Semi-Cutoff

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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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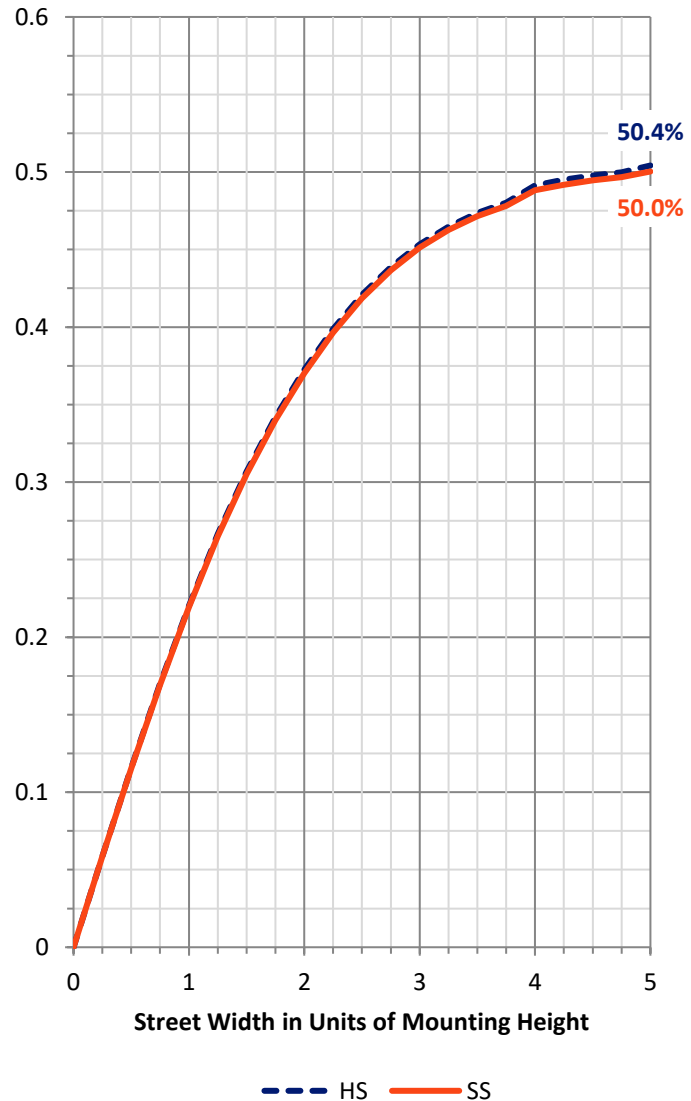
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24246.3	0.0	24246.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24246.3	0.0	24246.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	48492.5	0.0	48492.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.9	0.7
10°-20°	995.9	2.1
20°-30°	1819.9	3.8
30°-40°	3137.9	6.5
40°-50°	5364.1	11.1
50°-60°	8694.5	17.9
60°-70°	14423.9	29.7
70°-80°	12704.1	26.2
80°-90°	1024.3	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°	48492.5	100.0
0°-180°	48492.5	100.0



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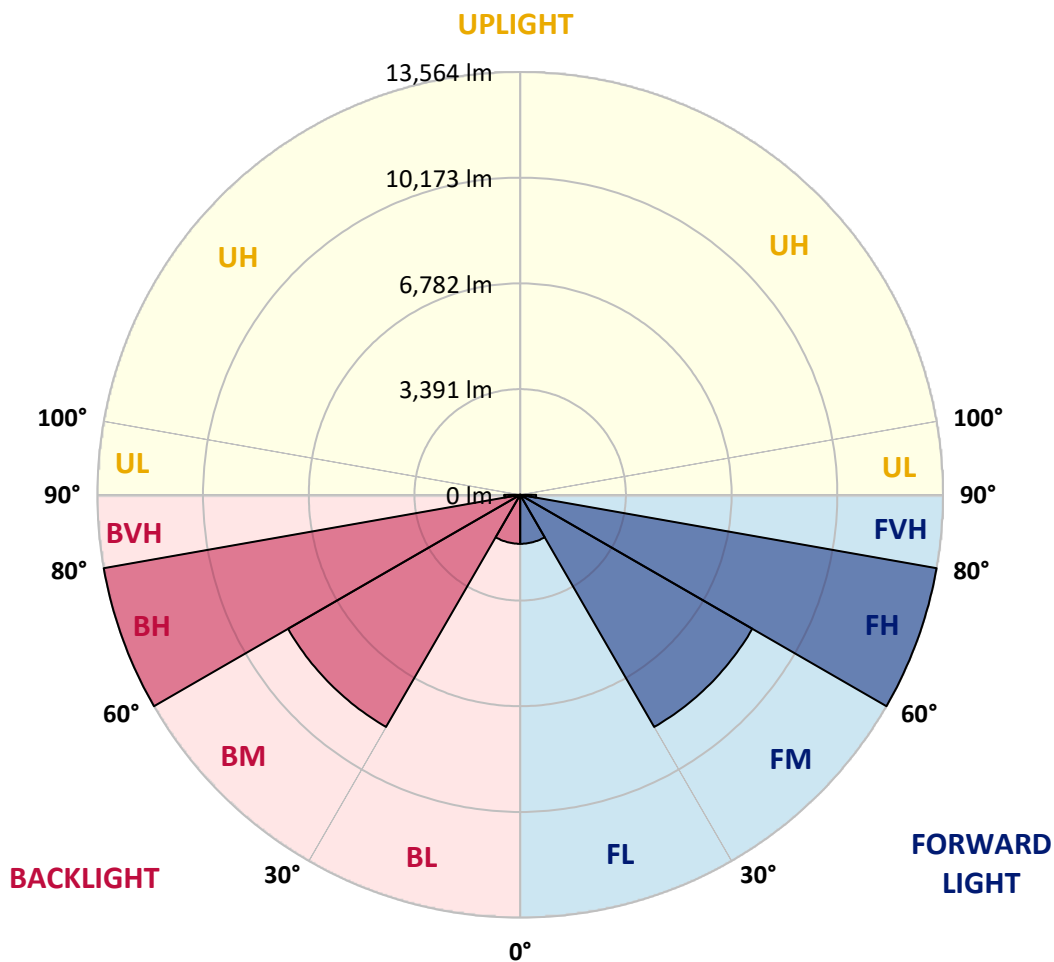
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1571.9	3.2			
FM	(30°-60°)	8598.2	17.7			
FH	(60°-80°)	13564.0	28.0			G5
FVH	(80°-90°)	512.2	1.1			G4/750
BL	(0°-30°)	1571.9	3.2	B3/2500		
BM	(30°-60°)	8598.2	17.7	B5		
BH	(60°-80°)	13564.0	28.0	B5		G5
BVH	(80°-90°)	512.2	1.1			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3434.0	3434.0	3434.0	3434.0	3434.0	3434.0	3434.0	3434.0	3434.0	3434.0	3434.0
2.5°	3434.0	3436.2	3438.5	3436.2	3436.2	3434.0	3431.9	3434.0	3431.9	3427.4	3429.5
5°	3445.2	3449.7	3449.7	3445.2	3447.3	3445.2	3440.7	3442.9	3438.5	3431.9	3431.9
7.5°	3458.5	3460.7	3460.7	3456.3	3458.5	3454.0	3449.7	3447.3	3442.9	3434.0	3427.4
10°	3478.5	3480.8	3478.5	3474.0	3474.0	3467.4	3456.3	3451.8	3442.9	3429.5	3422.9
12.5°	3500.7	3503.0	3500.7	3496.3	3494.1	3482.9	3474.0	3467.4	3460.7	3449.7	3438.5
15°	3532.0	3536.2	3532.0	3522.9	3516.3	3507.4	3503.0	3505.1	3507.4	3498.5	3487.4
17.5°	3589.7	3591.9	3585.3	3565.2	3556.4	3547.4	3547.4	3551.9	3558.6	3554.1	3543.1
20°	3696.5	3689.8	3674.3	3649.8	3638.7	3623.0	3620.9	3623.0	3623.0	3620.9	3612.0
22.5°	3829.9	3825.5	3805.5	3774.4	3758.7	3749.9	3736.5	3725.4	3723.1	3716.5	3707.6
25°	3990.0	3987.9	3963.4	3936.7	3925.5	3914.4	3903.3	3887.8	3874.5	3858.8	3850.0
27.5°	4194.7	4185.7	4150.2	4136.9	4121.3	4114.6	4099.1	4081.3	4070.1	4050.1	4039.0
30°	4419.3	4419.3	4390.4	4386.0	4386.0	4370.4	4352.6	4321.4	4301.4	4281.5	4274.8
32.5°	4643.9	4646.1	4617.3	4626.1	4632.8	4643.9	4648.4	4637.3	4624.0	4621.6	4608.3
35°	4968.7	4959.8	4930.9	4937.5	4935.3	4933.0	4933.0	4957.5	4962.0	4966.5	4939.7
37.5°	5371.1	5371.1	5342.3	5342.3	5329.0	5315.6	5297.9	5313.4	5337.9	5344.5	5326.7
40°	5831.6	5847.2	5811.6	5809.5	5813.8	5771.5	5751.5	5776.0	5791.7	5818.3	5798.3
42.5°	6374.3	6363.2	6327.6	6323.2	6298.7	6285.3	6267.5	6287.6	6312.0	6329.8	6336.5
45°	6894.7	6885.8	6845.8	6845.8	6821.4	6810.2	6819.1	6852.5	6863.5	6888.0	6912.5
47.5°	7408.6	7397.4	7370.7	7381.8	7384.1	7404.1	7433.0	7464.1	7495.3	7528.6	7539.8
50°	7933.5	7935.6	7906.6	7933.5	7966.7	8022.4	8100.2	8151.4	8215.9	8258.2	8271.5
52.5°	8411.6	8420.5	8451.6	8513.9	8580.5	8689.6	8823.0	8947.6	9054.4	9125.6	9121.1
55°	8985.4	8998.7	9074.4	9181.2	9290.1	9454.6	9652.6	9872.7	10050.8	10153.0	10088.6
57.5°	9719.3	9748.2	9832.8	9977.3	10139.7	10353.2	10624.6	10956.0	11231.8	11369.6	11265.0
60°	10726.8	10744.7	10846.9	11007.1	11202.8	11467.6	11830.0	12274.8	12664.1	12846.4	12726.3
62.5°	12054.7	12088.0	12170.3	12332.6	12532.9	12833.1	13275.6	13831.7	14316.6	14570.2	14298.8
65°	13640.5	13747.2	13816.2	13980.7	14167.5	14485.6	14948.2	15544.4	16064.7	16231.5	15918.0
67.5°	15210.6	15304.1	15424.2	15613.2	15802.2	16160.4	16589.6	17167.9	17739.5	17890.7	17403.7
70°	15898.0	15951.3	16138.1	16396.1	16758.6	17181.2	17677.3	18326.7	19033.9	19158.5	18540.2
72.5°	14521.2	14574.6	14783.7	15221.8	15853.4	16525.1	17390.4	18344.4	19278.6	19418.6	18566.9
75°	10982.6	10895.9	11205.1	11785.6	12637.4	13573.8	14783.7	16151.5	17501.4	17677.3	16660.8
77.5°	5675.9	5664.8	5898.4	6618.9	7635.4	8700.8	10032.9	11578.8	12899.8	13433.7	12606.3
80°	1599.1	1616.9	1728.2	2086.2	2680.0	3449.7	4490.4	5938.3	7019.3	7570.9	7108.3
82.5°	627.1	676.1	718.4	785.1	862.9	976.3	1303.4	1939.5	2602.2	3109.3	2546.7
85°	224.6	240.2	340.4	402.5	409.2	431.5	491.5	573.8	691.7	825.1	678.4
87.5°	84.5	93.4	108.9	180.2	178.0	162.4	198.0	206.8	155.7	142.4	175.7
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°	3434.0	3434.0	3434.0	3434.0	3434.0	3434.0	3434.0	3434.0
2.5°	3425.2	3427.4	3427.4	3429.5	3431.9	3431.9	3436.2	3436.2
5°	3427.4	3427.4	3422.9	3425.2	3422.9	3422.9	3425.2	3425.2
7.5°	3422.9	3420.7	3416.2	3414.1	3409.6	3409.6	3409.6	3409.6
10°	3416.2	3414.1	3409.6	3407.4	3405.1	3405.1	3405.1	3405.1
12.5°	3434.0	3427.4	3422.9	3420.7	3420.7	3420.7	3420.7	3420.7
15°	3480.8	3465.1	3454.0	3454.0	3456.3	3460.7	3460.7	3465.1
17.5°	3538.6	3520.8	3509.6	3500.7	3505.1	3511.9	3516.3	3520.8
20°	3607.5	3598.6	3583.0	3574.2	3574.2	3583.0	3587.5	3589.7
22.5°	3703.2	3696.5	3689.8	3678.6	3678.6	3683.1	3692.0	3692.0
25°	3845.5	3841.0	3836.6	3827.7	3825.5	3825.5	3829.9	3834.4
27.5°	4023.4	4025.6	4021.2	4019.0	4012.3	4010.1	4016.7	4014.5
30°	4261.4	4272.5	4283.6	4274.8	4263.7	4257.0	4250.3	4241.3
32.5°	4583.9	4570.6	4561.7	4546.1	4526.1	4508.2	4494.9	4479.3
35°	4888.6	4866.3	4857.4	4870.8	4868.6	4857.4	4842.0	4828.5
37.5°	5262.3	5257.8	5262.3	5286.7	5282.2	5293.4	5262.3	5260.1
40°	5733.7	5738.2	5769.3	5798.3	5813.8	5829.4	5811.6	5793.8
42.5°	6280.9	6278.7	6289.7	6329.8	6356.4	6374.3	6336.5	6332.0
45°	6859.2	6843.6	6852.5	6885.8	6912.5	6932.5	6890.3	6890.3
47.5°	7495.3	7468.5	7439.7	7477.4	7493.0	7506.3	7473.0	7461.9
50°	8204.8	8149.1	8086.9	8102.4	8102.4	8098.0	8055.6	8053.5
52.5°	9018.8	8916.4	8803.0	8760.7	8736.3	8709.6	8636.2	8600.7
55°	9955.1	9801.6	9623.8	9514.8	9456.9	9383.5	9261.2	9227.8
57.5°	11049.4	10809.1	10502.2	10368.8	10239.8	10119.7	9984.0	9946.2
60°	12346.1	11992.4	11585.5	11338.5	11198.4	11082.7	10942.7	10936.0
62.5°	13791.7	13233.5	12773.1	12550.6	12448.4	12346.1	12212.6	12230.4
65°	15261.9	14679.1	14247.6	14067.4	13971.8	13887.3	13753.9	13773.9
67.5°	16712.0	16176.0	15702.2	15517.6	15410.8	15304.1	15184.0	15204.0
70°	17752.9	17087.8	16554.1	16144.8	15889.0	15599.9	15413.1	15366.3
72.5°	17454.8	16429.6	15582.1	14770.3	14294.4	13907.4	13645.0	13531.4
75°	15106.1	13704.9	12615.2	11618.7	11058.2	10602.3	10270.9	10064.1
77.5°	11218.4	9643.8	8355.9	7208.4	6300.9	5691.6	5262.3	4984.2
80°	6140.8	4670.7	3414.1	2399.8	1763.8	1465.7	1294.4	1212.1
82.5°	1912.7	1234.4	909.7	785.1	729.6	698.3	647.3	564.9
85°	609.4	533.8	495.9	473.7	451.5	393.7	271.3	246.9
87.5°	235.8	242.4	240.2	226.8	231.3	166.8	133.4	117.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)