

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: P320924

Luminaire Tested: **GAN-SA0B-730-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320924  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0B-730-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52847 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

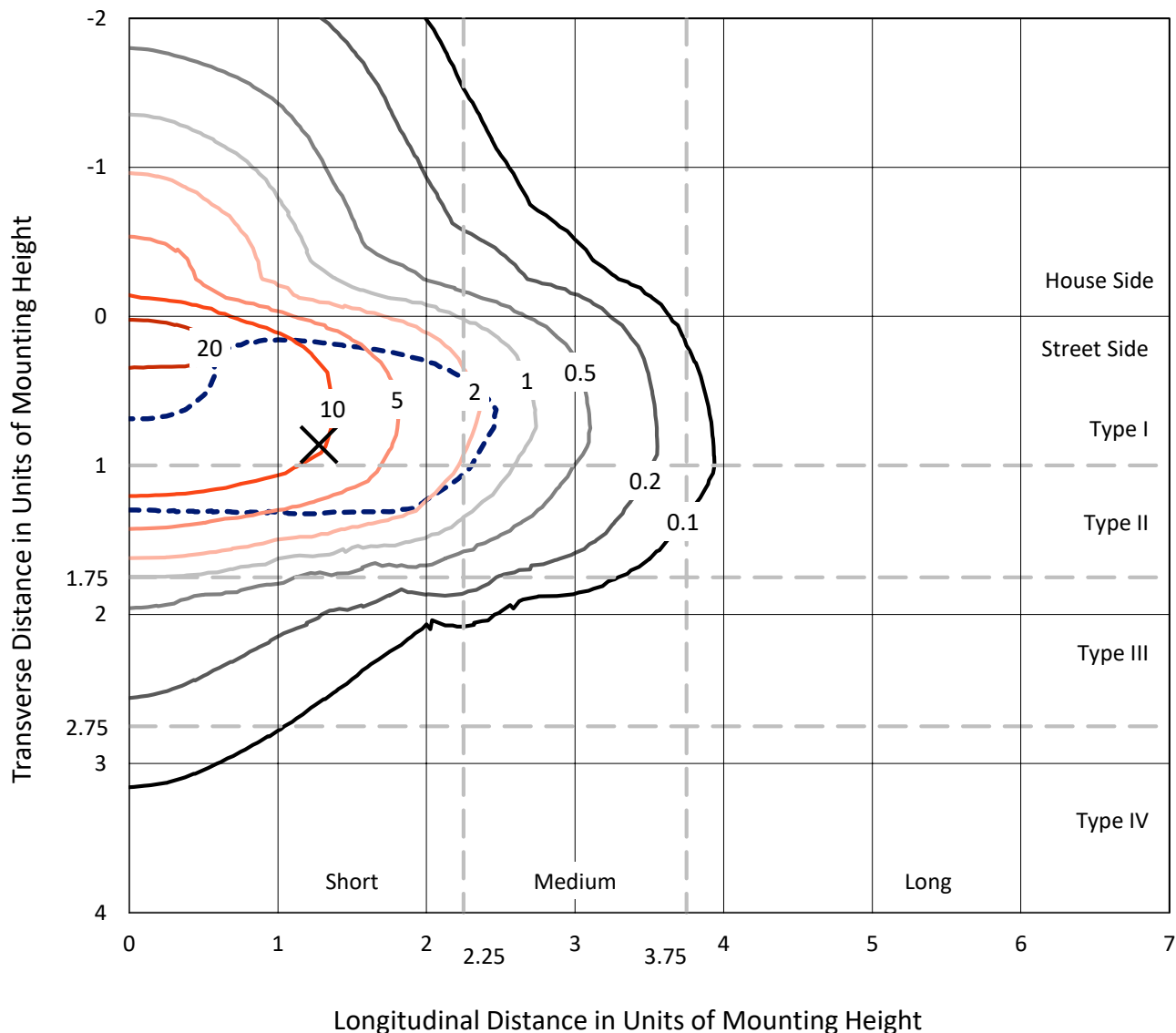
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

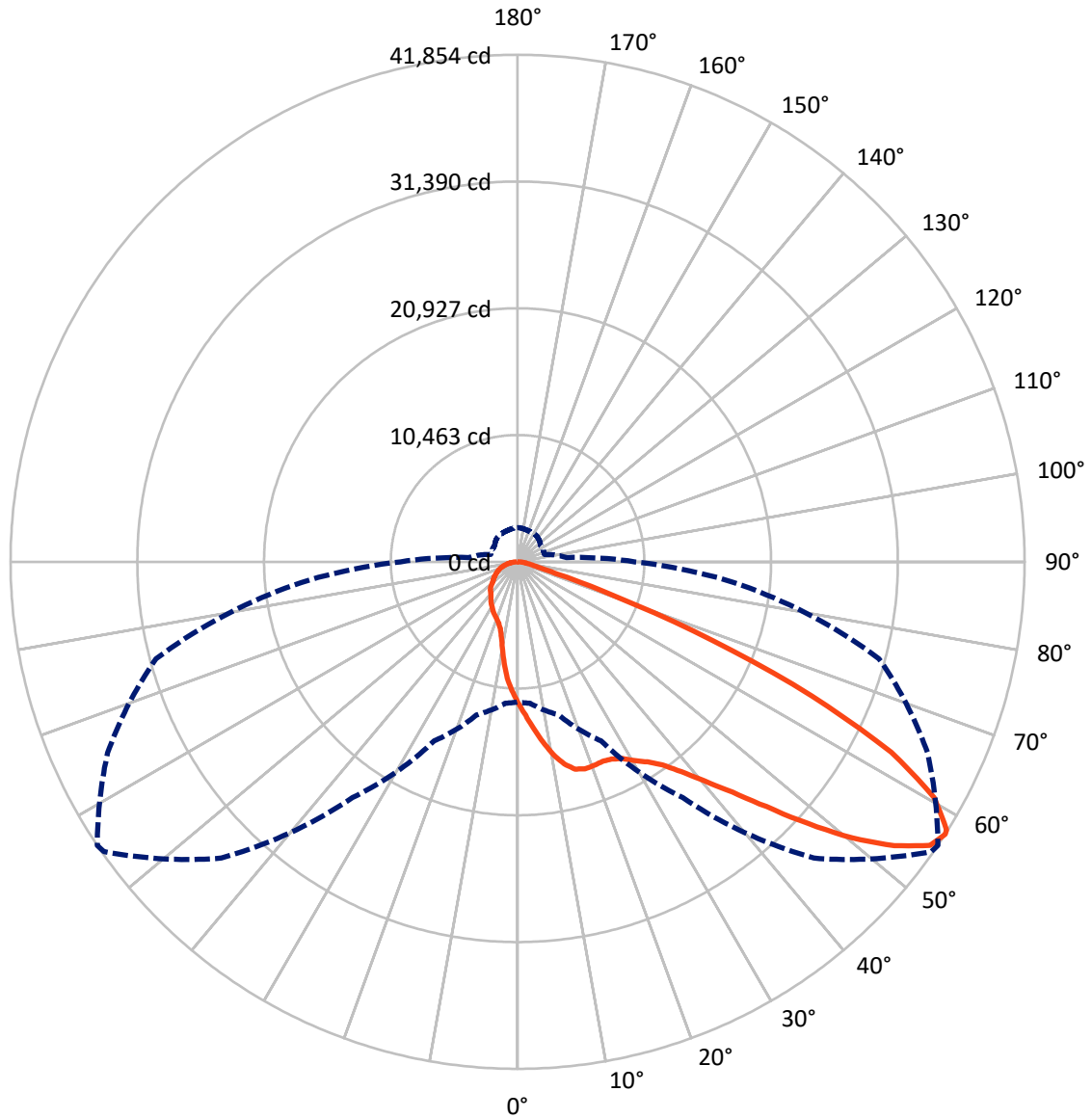
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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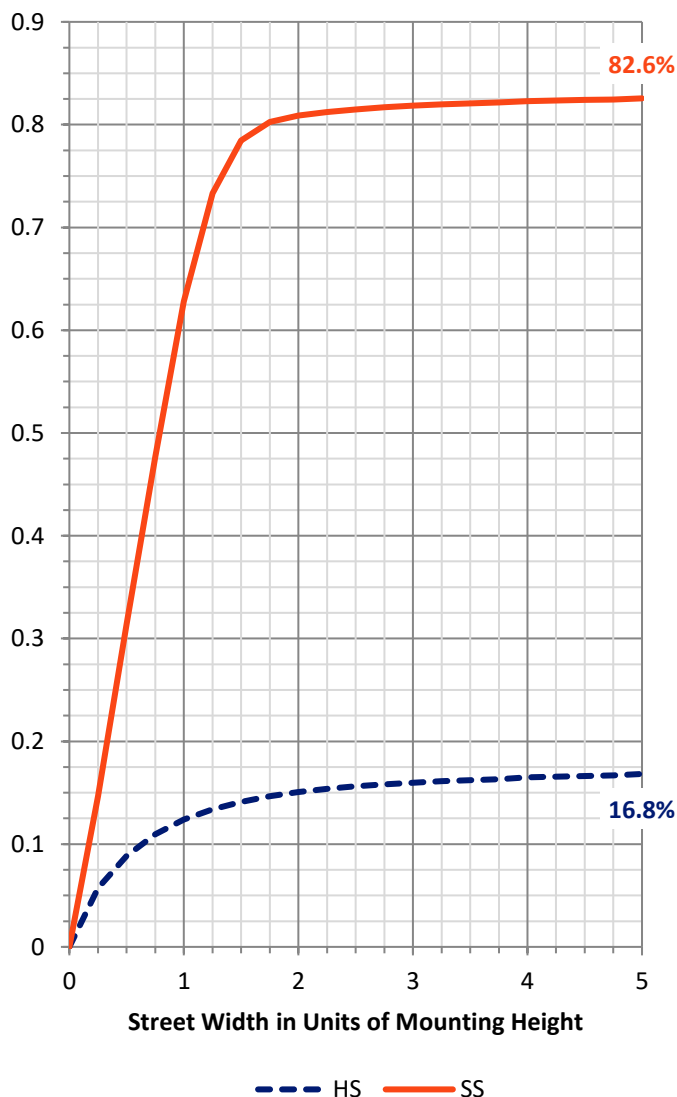
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9109.7	0.0	9109.7
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	43737.3	0.0	43737.3
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	52847.0	0.0	52847.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1119.7	2.1
10°-20°	3165.6	6.0
20°-30°	5156.2	9.8
30°-40°	7708.0	14.6
40°-50°	11691.4	22.1
50°-60°	13104.0	24.8
60°-70°	7739.7	14.6
70°-80°	2535.8	4.8
80°-90°	626.5	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°	52847.0	100.0
0°-180°	52847.0	100.0

**Coefficient of Utilization**

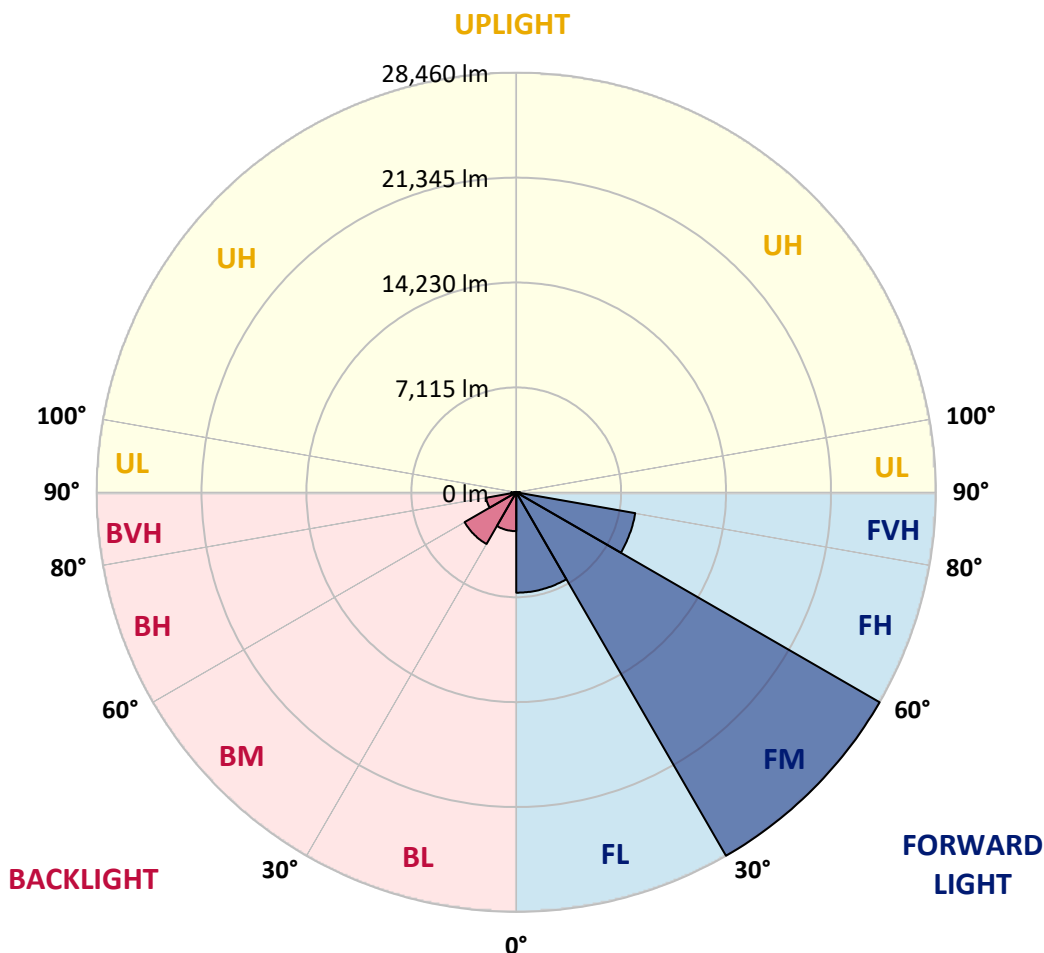


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6807.5	12.9			
FM (30°-60°)	28459.9	53.9			
FH (60°-80°)	8194.1	15.5			G4/12000
FVH (80°-90°)	275.9	0.5			G3/500
BL (0°-30°)	2634.1	5.0	B4/5000		
BM (30°-60°)	4043.5	7.7	B3/5000		
BH (60°-80°)	2081.5	3.9	B3/2500		G3/2500
BVH (80°-90°)	350.6	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	11721.5	11721.5	11721.5	11721.5	11721.5	11721.5	11721.5	11721.5	11721.5	11721.5	11721.5
2.5°	13459.6	13583.1	13528.6	13339.7	13194.4	12989.2	12760.4	12691.3	12449.8	12179.2	11854.1
5°	15589.9	15528.2	15439.2	15145.0	14834.4	14473.0	13899.1	13808.3	13270.7	12658.7	12012.1
7.5°	16803.1	16797.7	16745.0	16572.5	16289.2	15817.0	15125.0	15017.8	14206.0	13221.7	12219.1
10°	16627.0	16614.3	16701.4	16881.2	16966.6	16868.5	16285.5	16178.4	15181.3	13844.6	12458.9
12.5°	15626.3	15633.5	15773.4	16151.1	16665.1	17282.6	17188.2	17135.5	16192.9	14549.3	12749.5
15°	14847.1	14863.5	14974.3	15303.0	15909.6	17030.2	17736.6	17754.8	17171.8	15326.6	13089.1
17.5°	14505.7	14540.2	14591.0	14821.7	15377.4	16527.1	17867.4	17965.5	18029.0	16133.0	13416.0
20°	14614.7	14647.4	14661.9	14809.0	15264.8	16222.0	17776.6	17952.8	18686.5	16892.1	13742.9
22.5°	15103.2	15123.2	15132.3	15170.4	15524.6	16309.1	17716.7	17901.9	19162.3	17573.2	13989.9
25°	15913.2	15898.7	15840.6	15791.5	16029.5	16654.2	17854.7	18030.9	19549.2	18190.7	14151.5
27.5°	16883.0	16864.9	16752.3	16617.9	16754.1	17191.8	18252.4	18392.3	19896.1	18768.2	14233.3
30°	18047.2	18000.0	17787.5	17627.7	17680.3	17998.2	18908.1	19035.2	20431.8	19423.9	14313.2
32.5°	19393.0	19342.1	19035.2	18770.0	18770.0	19035.2	19583.7	19689.0	20885.9	20164.9	14442.1
35°	21078.4	21014.8	20615.3	20170.3	20045.0	20179.4	20504.5	20578.9	21703.1	21098.4	14676.4
37.5°	23065.3	22979.9	22462.3	21866.6	21592.4	21585.1	21819.4	21971.9	23009.0	22324.3	15074.1
40°	25057.6	24997.7	24545.4	24076.9	23539.3	23366.7	23728.2	23775.4	24716.2	23846.2	15582.7
42.5°	26597.7	26586.8	26503.3	26565.0	26014.7	25666.0	25949.3	25987.5	26801.1	25493.5	16123.9
45°	27411.3	27429.5	27834.5	28731.7	28935.1	28680.8	28820.7	28831.6	29183.9	27155.3	16619.7
47.5°	26759.3	26853.8	27878.1	29885.0	31550.4	32394.9	32162.4	32296.8	31494.1	28582.8	17008.4
50°	24218.5	24334.8	26078.3	29371.0	32770.8	35989.1	35867.4	35836.5	33357.5	29628.9	17219.0
52.5°	21071.1	21161.9	22600.3	26699.4	31875.5	37976.0	39092.9	38933.1	35013.8	30411.6	17259.0
55°	16278.3	16419.9	17798.4	21367.2	28254.0	37216.8	41464.8	41321.3	36523.0	30822.1	17211.8
57°	11572.6	11721.5	13090.9	16307.3	23768.1	34588.8	41700.9	41853.5	37338.5	30891.1	17264.4
57.5°	10326.7	10479.3	11835.9	14959.7	22369.7	33639.0	41497.5	41751.8	37485.6	30880.2	17293.5
60°	5199.7	5257.8	6122.3	8350.7	14140.6	27195.2	38844.1	39499.7	37618.2	30346.3	17418.8
62.5°	3232.8	3191.0	3163.8	3846.6	6879.6	18034.5	33368.4	34630.6	35081.0	29053.2	17115.5
65°	2842.3	2764.2	2464.5	2410.0	3038.4	8759.4	25128.4	26699.4	29659.7	27015.4	16392.7
67.5°	2669.8	2593.5	2255.7	2052.3	2054.1	3472.5	15600.8	17369.8	23105.2	23570.2	14687.3
70°	2491.8	2422.8	2106.7	1867.0	1749.0	1923.3	7177.5	8519.6	15061.4	18526.7	12275.4
72.5°	2262.9	2215.7	1916.1	1669.1	1543.7	1440.2	2747.9	3245.5	8719.4	12442.5	8525.1
75°	2023.2	1979.6	1723.5	1487.4	1334.9	1133.3	1547.4	1667.2	4429.6	6365.6	4197.2
77.5°	1759.9	1734.4	1532.8	1314.9	1193.2	939.0	1095.1	1153.3	1899.7	2729.7	2104.9
80°	1400.3	1449.3	1340.3	1171.4	1058.8	751.9	775.5	813.6	1106.0	1333.1	1195.0
82.5°	911.7	997.1	1049.7	951.7	871.8	592.1	557.6	573.9	721.0	813.6	519.4
85°	379.6	426.8	690.1	622.9	579.4	432.2	374.1	381.4	446.8	463.1	212.5
87.5°	168.9	179.8	303.3	285.1	245.2	148.9	159.8	174.4	237.9	225.2	81.7
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11721.5	11721.5	11721.5	11721.5	11721.5	11721.5	11721.5	11721.5	11721.5	11721.5	11721.5
2.5°	11732.4	11579.9	11318.3	11029.6	10793.5	10604.6	10413.9	10283.1	10130.6	10048.8	10007.1
5°	11741.5	11441.8	10891.5	10326.7	9821.8	9360.5	8921.0	8583.2	8267.2	8096.5	8049.2
7.5°	11779.6	11329.2	10439.3	9509.4	8612.2	7793.2	7161.1	6765.2	6480.1	6352.9	6316.6
10°	11810.5	11196.6	9879.9	8503.3	7282.8	6452.8	5962.5	5740.9	5642.8	5626.5	5610.1
12.5°	11883.2	11060.4	9291.5	7453.5	6249.4	5675.5	5504.8	5490.3	5517.5	5557.5	5557.5
15°	11997.6	10926.0	8619.5	6552.7	5592.0	5390.4	5424.9	5504.8	5579.3	5641.0	5650.1
17.5°	12081.1	10760.8	7896.7	5831.7	5241.4	5295.9	5419.4	5532.0	5608.3	5668.2	5673.7
20°	12141.0	10504.7	7124.8	5281.4	5039.9	5208.8	5363.1	5463.0	5515.7	5575.6	5584.7
22.5°	12110.2	10161.4	6440.1	4887.3	4876.4	5081.6	5228.7	5348.6	5308.6	5250.5	5288.7
25°	11961.2	9689.2	5735.4	4593.1	4703.9	4910.9	5092.5	5012.6	4878.2	4852.8	4867.3
27.5°	11696.1	9086.3	5083.4	4320.7	4504.1	4752.9	4742.0	4662.1	4614.9	4582.2	4602.2
30°	11410.9	8432.4	4513.2	4082.7	4282.5	4487.7	4446.0	4444.1	4396.9	4344.3	4369.7
32.5°	11129.4	7775.0	4060.9	3886.6	4115.4	4142.7	4233.5	4260.7	4168.1	4057.3	4050.0
35°	10884.3	7153.9	3717.7	3708.6	3913.8	3917.5	4050.0	4011.9	3781.3	3666.8	3666.8
37.5°	10700.8	6534.6	3456.2	3548.8	3648.7	3743.1	3810.3	3652.3	3614.2	3550.6	3548.8
40°	10620.9	5989.7	3292.7	3427.1	3461.6	3581.5	3408.9	3470.7	3488.8	3456.2	3456.2
42.5°	10537.4	5515.7	3151.0	3334.5	3329.0	3312.7	3225.5	3305.4	3378.1	3379.9	3374.4
45°	10453.8	5107.0	3025.7	3136.5	3212.8	3036.6	3053.0	3138.3	3240.0	3276.4	3276.4
47.5°	10361.2	4783.8	2911.3	2927.7	3045.7	2927.7	2914.9	2980.3	3100.2	3158.3	3171.0
50°	10157.8	4493.2	2780.5	2744.2	2776.9	2816.9	2827.8	2858.6	2991.2	3083.8	3105.6
52.5°	9876.3	4233.5	2613.5	2575.3	2575.3	2726.1	2776.9	2786.0	2898.6	3009.4	3031.2
55°	9642.0	4068.2	2440.9	2433.7	2426.4	2629.8	2717.0	2731.5	2809.6	2896.8	2907.7
57°	9658.4	4055.5	2308.3	2315.6	2313.8	2531.7	2660.7	2691.6	2731.5	2806.0	2818.7
57.5°	9667.4	4064.6	2279.3	2282.9	2281.1	2504.5	2644.3	2678.8	2709.7	2787.8	2800.5
60°	9803.6	4088.2	2161.2	2121.3	2130.4	2359.2	2551.7	2595.3	2615.3	2718.8	2735.1
62.5°	9602.1	3982.8	2066.8	1970.5	1970.5	2206.6	2422.8	2491.8	2522.6	2662.5	2689.7
65°	9017.2	3686.8	1956.0	1799.8	1818.0	2054.1	2268.4	2381.0	2428.2	2602.6	2631.6
67.5°	8114.6	3343.6	1838.0	1647.3	1665.4	1894.3	2108.6	2230.2	2304.7	2537.2	2560.8
70°	6939.6	2924.0	1678.1	1485.6	1507.4	1719.9	1919.7	2057.7	2168.5	2475.4	2482.7
72.5°	5116.1	2397.3	1454.7	1307.6	1331.2	1516.5	1729.0	1888.8	2037.7	2321.1	2317.4
75°	3042.1	1874.3	1207.7	1127.8	1144.2	1316.7	1556.5	1750.8	1974.2	2261.1	2295.6
77.5°	1845.2	1411.2	984.4	944.4	964.4	1140.6	1433.0	1640.0	1946.9	2132.2	2121.3
80°	1115.1	1008.0	786.4	761.0	780.9	975.3	1325.8	1556.5	1701.7	1821.6	1821.6
82.5°	583.0	615.7	577.5	557.6	584.8	791.8	1205.9	1358.5	1503.8	1291.3	1205.9
85°	237.9	321.5	350.5	348.7	365.0	548.5	1040.7	1162.3	969.8	920.8	942.6
87.5°	79.9	136.2	170.7	147.1	154.4	345.1	721.0	561.2	666.5	464.9	441.3
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)