

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: P591137

Luminaire Tested: **CTN-CA10-760-722-U-T3-SSS-HM-EX120**

Issue Date: 1/19/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P591137  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2201-495-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: CTN-CA10-760-722-U-T3-SSS-HM-EX120  
Description: CELESTEON HIGH MAST LUMINAIRE, 120D FIELD INSTALLED SHIELD ON STREET SIDE  
Light Source: (10) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51918 lumens  
Efficiency: N/A  
Efficacy: 68.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 2.08' x H: 1')  
IES Classification: Type III - Medium  
BUG Rating: B5 - U0 - G4

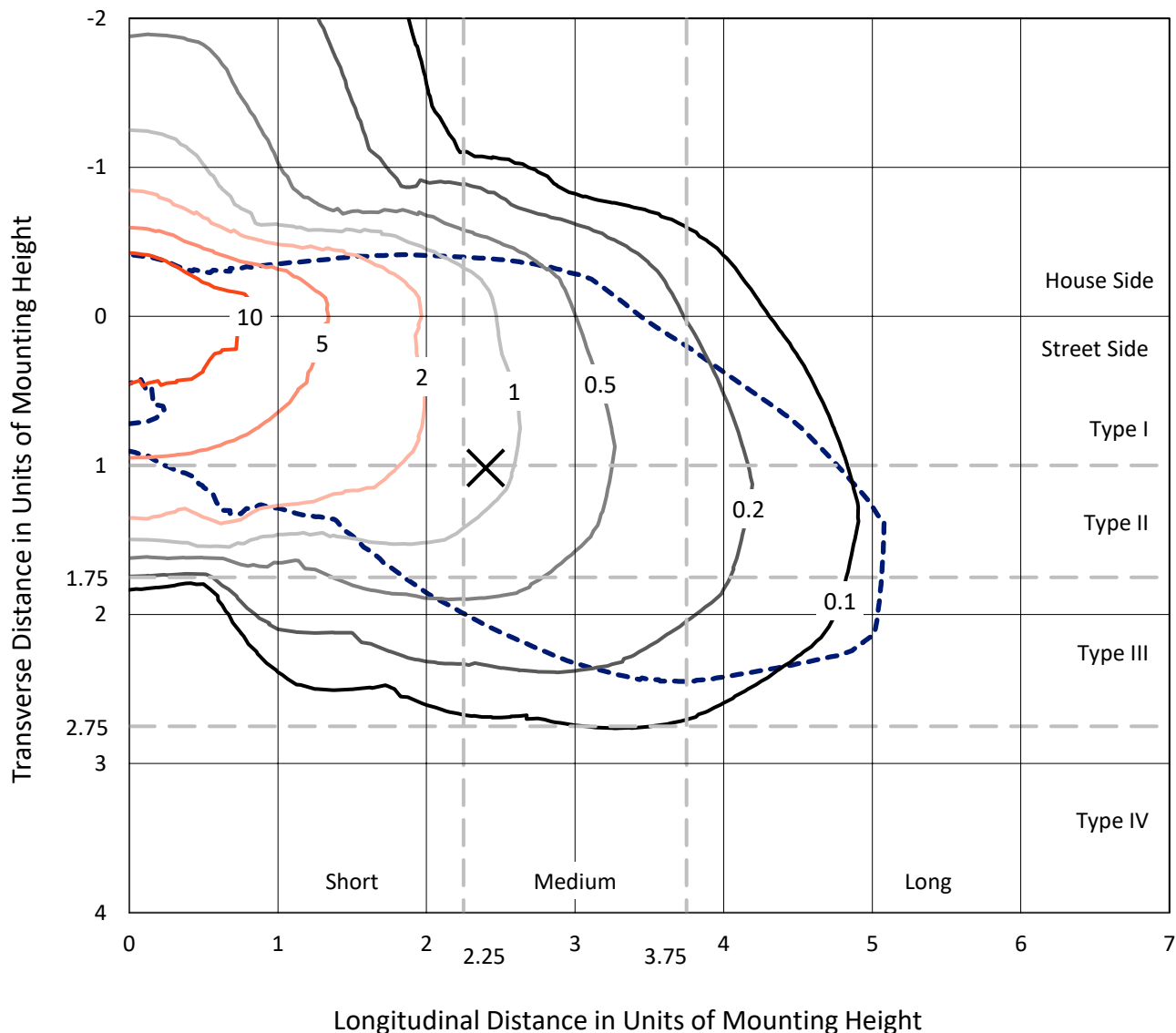
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

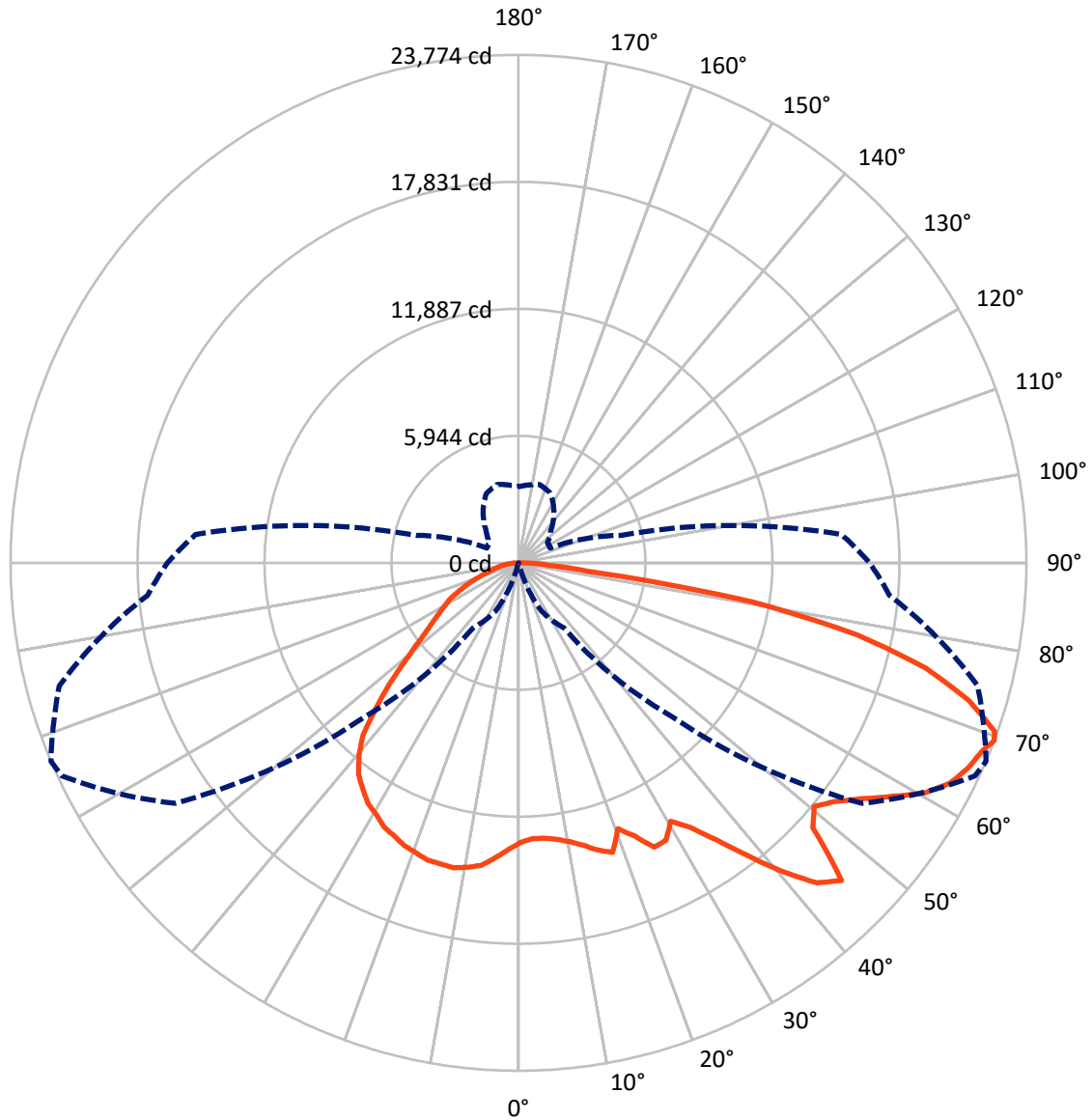
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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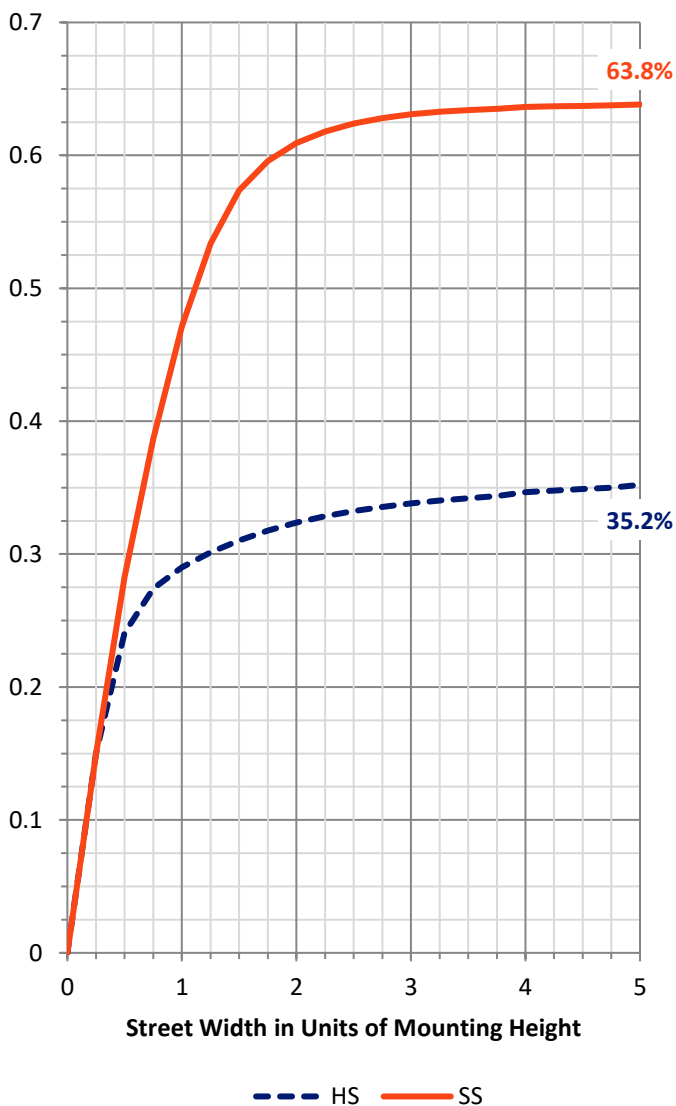
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18782.4	0.0	18782.4
	% Fixture	36.2	0.0	36.2
<b>Street Side</b>	Lumens	33135.6	0.0	33135.6
	% Fixture	63.8	0.0	63.8
<b>Total</b>	Lumens	51918.0	0.0	51918.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1307.9	2.5
10°-20°	4037.9	7.8
20°-30°	5959.7	11.5
30°-40°	7488.0	14.4
40°-50°	8783.0	16.9
50°-60°	9190.8	17.7
60°-70°	8210.9	15.8
70°-80°	5779.0	11.1
80°-90°	1160.8	2.2
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°	51918.0	100.0
0°-180°	51918.0	100.0

**Coefficient of Utilization**

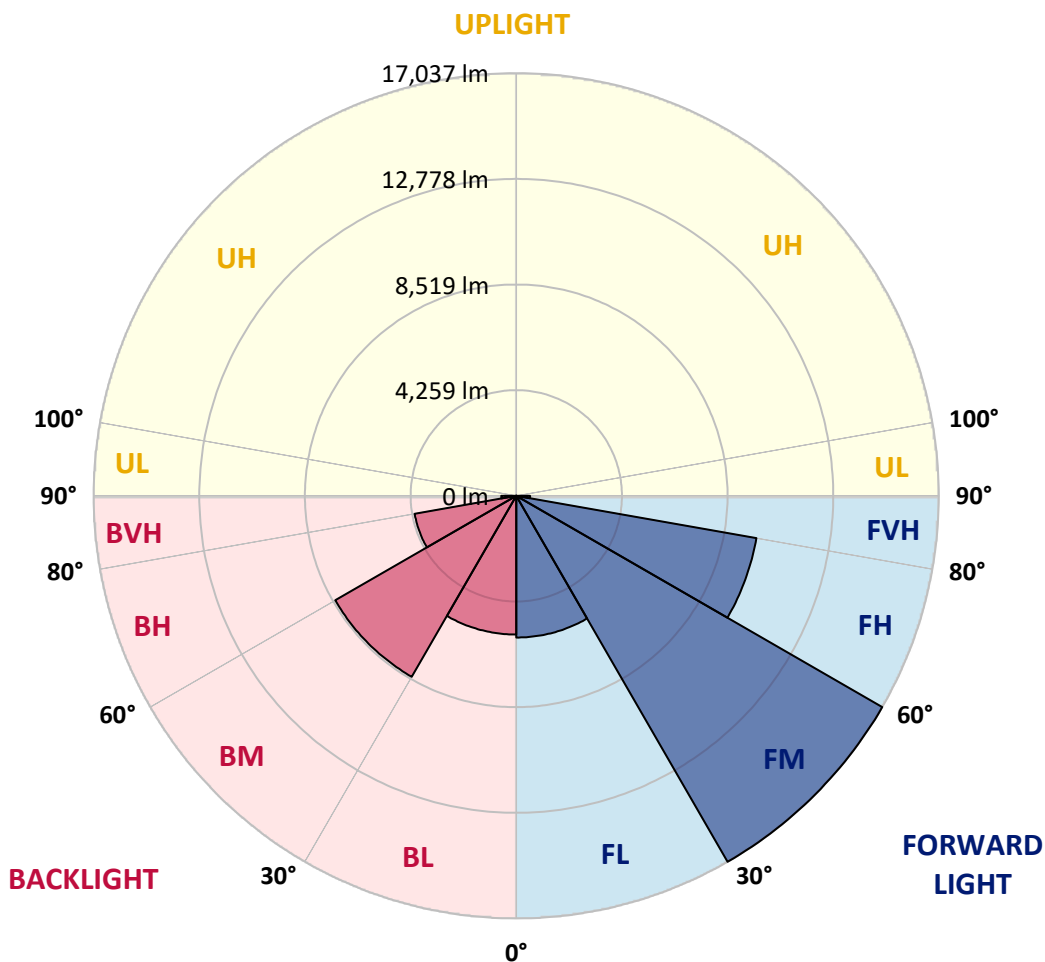


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5713.4	11.0			
FM	(30°-60°)	17037.1	32.8			
FH	(60°-80°)	9830.3	18.9			G4/12000
FVH	(80°-90°)	554.7	1.1			G4/750
BL	(0°-30°)	5592.2	10.8	B5		
BM	(30°-60°)	8424.7	16.2	B4/8500		
BH	(60°-80°)	4159.6	8.0	B4/5000		G4/5000
BVH	(80°-90°)	606.1	1.2			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	13078.6	13078.6	13078.6	13078.6	13078.6	13078.6	13078.6	13078.6	13078.6	13078.6	13078.6
2.5°	12767.3	12692.2	12727.1	12826.3	12619.7	12767.3	12713.6	12863.9	12920.3	12912.2	13126.9
5°	12869.3	12786.1	12799.5	12874.6	12649.2	12764.6	12713.6	12880.0	12944.4	12925.6	13218.1
7.5°	13231.5	13140.3	13110.8	13134.9	12890.7	12979.3	12869.3	13003.4	13073.2	13073.2	13405.9
10°	13803.1	13693.1	13628.7	13626.0	13338.9	13298.6	13164.4	13226.2	13277.1	13320.1	13690.4
12.5°	14401.5	14310.2	14227.0	14181.4	13803.1	13709.2	13513.3	13558.9	13575.0	13634.0	14001.6
15°	14946.2	14854.9	14830.8	14758.3	14382.7	14227.0	13953.3	13931.9	13953.3	13988.2	14353.2
17.5°	14736.9	14742.2	14876.4	14889.8	14401.5	14041.9	13851.4	14213.6	14248.5	14524.9	14761.0
20°	14339.7	14143.9	13440.8	13057.1	13113.5	13580.4	13234.2	13218.1	13290.6	13781.6	14978.4
22.5°	11943.5	11836.2	12222.6	12346.0	12791.5	12968.6	13792.3	13813.8	13886.3	13886.3	14235.1
25°	10312.1	10867.5	11618.8	12960.5	12821.0	12855.9	13191.3	14616.1	14753.0	14750.3	14699.3
27.5°	10660.9	10591.1	11715.4	12558.0	13553.5	13491.8	13126.9	14095.6	14702.0	15743.1	15501.6
30°	11079.5	11028.5	11111.7	12536.5	14186.8	14270.0	13931.9	13832.6	14039.2	16226.1	16419.3
32.5°	11468.6	11406.9	11500.8	11718.1	13298.6	15072.3	14812.0	14691.3	14766.4	15206.5	17600.0
35°	11812.0	11806.7	11914.0	12171.6	13518.6	15351.4	15713.6	15705.6	15906.8	16285.2	17771.7
37.5°	12056.2	12053.5	12139.4	12439.9	12743.2	14178.7	16558.9	17039.2	17361.2	17922.0	17361.2
40°	12053.5	12096.5	12321.9	12708.3	13110.8	13542.8	16931.8	18606.2	18992.6	19392.5	18458.7
42.5°	11801.3	11825.5	12222.6	12939.0	13438.1	13811.1	15450.6	20047.2	20479.2	20449.7	19322.7
45°	11567.9	11578.6	12021.3	12901.5	13711.8	14385.4	15147.4	20041.8	21209.1	21391.5	20135.7
47.5°	11264.6	11264.6	11702.0	12684.1	13958.7	15032.0	15957.8	17312.9	18531.1	22207.3	20809.3
50°	10875.6	10923.9	10387.2	12458.7	14076.8	15646.5	16644.7	17761.0	17930.0	19859.4	21434.5
52.5°	10255.7	10228.9	8117.1	12209.2	14125.1	16092.0	17358.5	18461.3	18552.6	18359.4	20822.7
55°	6464.2	7207.4	7177.9	11916.7	14095.6	16379.1	17905.9	19231.5	19489.1	19252.9	17516.8
57.5°	3904.3	3727.2	6134.1	11079.5	11321.0	16601.8	18649.2	20401.4	20626.8	20079.4	17812.0
60°	1524.1	1438.3	1553.7	5042.0	8122.5	15445.3	19660.8	21643.8	21858.4	20865.6	18061.5
62.5°	190.5	163.7	139.5	3491.0	5162.7	11473.9	20197.5	22644.7	22684.9	21434.5	18109.8
65°	26.8	29.5	53.7	3112.7	4690.5	11278.1	20385.3	23052.5	23135.7	21845.0	17946.1
67.5°	10.7	13.4	42.9	2707.5	4116.2	10757.5	19921.1	23334.3	23430.9	22242.2	17787.8
69°	10.7	13.4	42.9	2433.8	3724.5	10183.3	19623.2	23583.8	23774.4	22250.2	17425.6
70°	10.7	13.4	40.3	2237.9	3418.6	9697.6	19336.1	23487.2	23640.2	22035.5	17023.1
72.5°	10.7	13.4	40.3	1722.7	2600.2	7787.0	17519.5	22118.7	22040.9	20683.1	15456.0
75°	13.4	13.4	40.3	1210.2	1803.2	5538.4	14785.2	19642.0	19676.9	18413.0	13000.8
77.5°	13.4	13.4	40.3	770.1	1137.7	3203.9	10706.5	16108.1	16207.3	15340.6	9735.1
80°	13.4	13.4	40.3	351.5	705.7	1674.4	5264.7	10497.2	11031.2	10298.6	5342.5
82.5°	13.4	13.4	37.6	220.0	386.4	754.0	2076.9	3292.5	3260.3	3209.3	1698.6
85°	10.7	10.7	29.5	155.6	257.6	437.4	1153.8	1475.8	1457.1	1290.7	877.5
87.5°	5.4	5.4	16.1	64.4	107.3	198.6	576.9	670.8	638.6	547.4	375.7
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°	13078.6	13078.6	13078.6	13078.6	13078.6	13078.6	13078.6	13078.6	13078.6	13078.6	13078.6
2.5°	13226.2	13244.9	13333.5	13448.9	13483.8	13634.0	13658.2	13905.0	13942.6	14004.3	14031.2
5°	13360.3	13432.8	13626.0	13897.0	14127.8	14363.9	14371.9	14672.5	14750.3	14734.2	14812.0
7.5°	13550.8	13671.6	13966.8	14342.4	14425.6	14731.5	14710.0	15007.9	15013.3	14970.3	15088.4
10°	13843.3	13993.6	14261.9	14492.7	14651.0	14849.6	14822.7	15104.5	15064.2	15018.6	15150.1
12.5°	14143.9	14221.7	14385.4	14643.0	14677.8	14747.6	14712.7	14973.0	14930.1	14873.7	15002.5
15°	14406.8	14444.4	14444.4	14583.9	14495.4	14551.7	14433.7	14643.0	14543.7	14516.8	14640.3
17.5°	14747.6	14685.9	14559.8	14549.0	14318.3	14232.4	14055.3	14111.7	13923.8	13942.6	14007.0
20°	15131.3	14994.5	14661.7	14329.0	13902.4	13698.4	13346.9	13320.1	13145.7	13113.5	13175.2
22.5°	15273.5	15394.3	14785.2	14141.2	13405.9	12949.8	12533.9	12335.3	12080.4	11916.7	11938.2
25°	15705.6	15922.9	14973.0	13805.8	12821.0	12069.6	11444.4	10990.9	10607.2	10411.3	10451.6
27.5°	16290.5	16644.7	15080.3	13572.3	12053.5	11071.4	10024.9	9429.2	9032.1	8828.2	8822.8
30°	17127.7	17573.2	15287.0	13083.9	11200.2	9759.3	8468.6	7765.6	7440.9	7306.7	7317.5
32.5°	18174.2	18710.9	15716.3	12676.1	10271.8	8355.9	6885.4	6271.0	6123.4	6099.2	6085.8
35°	19561.5	20092.8	16057.1	12048.2	9067.0	6764.7	5527.7	5093.0	5117.1	5111.8	5127.9
37.5°	19336.1	21351.3	16446.2	11433.7	7626.0	5302.3	4467.8	4223.6	4231.6	4325.5	4344.3
40°	18488.2	20251.1	17025.8	10416.7	5940.9	4073.3	3523.2	3466.9	3697.6	3904.3	3941.8
42.5°	19153.6	19588.3	17103.6	9319.2	4347.0	3123.4	2946.3	3179.8	3552.7	3791.6	3834.5
45°	19819.1	20170.6	16652.8	7677.0	3118.0	2672.6	2804.1	3139.5	3552.7	3807.7	3837.2
47.5°	20495.3	20492.6	16126.8	6155.6	2549.2	2554.5	2769.2	3142.2	3574.2	3831.8	3847.9
50°	20924.6	20752.9	14753.0	4822.0	2372.1	2484.8	2750.4	3158.3	3568.8	3756.7	3764.7
52.5°	21139.3	20884.4	13540.1	3853.3	2288.9	2428.4	2753.1	3195.9	3539.3	3644.0	3638.6
55°	20777.1	20811.9	12536.5	3203.9	2211.1	2382.8	2766.5	3222.7	3552.7	3660.1	3660.1
57.5°	20326.3	20334.3	11736.9	2712.9	2133.3	2345.2	2782.6	3262.9	3799.6	4000.9	3971.3
60°	20009.6	19647.4	10604.5	2404.3	2044.7	2310.4	2804.1	3437.4	4379.2	4583.1	4513.4
62.5°	19489.1	18998.0	9440.0	2189.6	1945.4	2283.5	2817.5	3681.5	4457.0	4467.8	4296.0
65°	18576.7	17873.7	7620.7	1977.6	1843.5	2246.0	2809.5	3772.8	4105.5	3944.5	3896.2
67.5°	17256.5	16338.8	5973.1	1765.6	1730.8	2189.6	2863.1	3606.4	3877.4	3745.9	3681.5
69°	16432.7	15174.3	4958.8	1639.5	1658.3	2146.7	2890.0	3574.2	3796.9	3635.9	3560.8
70°	15807.5	14165.3	4199.4	1556.3	1596.6	2109.1	2836.3	3555.4	3759.4	3560.8	3472.2
72.5°	13422.0	11388.1	2688.7	1363.1	1435.6	2015.2	2691.4	3437.4	3676.2	3542.0	3432.0
75°	10376.5	8364.0	1714.7	1186.0	1271.9	1875.7	2541.1	3354.2	3713.7	3472.2	3230.7
77.5°	6984.7	4671.7	1309.5	995.5	1078.7	1693.2	2302.3	3120.7	3584.9	3373.0	3075.1
80°	3182.4	1781.7	1011.6	807.7	872.1	1363.1	1985.7	2761.2	3389.1	3386.4	3171.7
82.5°	1274.6	1191.4	751.3	617.2	686.9	1017.0	1572.4	2364.0	2989.2	3118.0	3330.0
85°	743.3	751.3	499.1	429.3	512.5	748.7	1121.6	1827.4	2431.1	2688.7	2868.5
87.5°	303.2	338.1	233.5	225.4	281.8	399.8	515.2	885.5	1309.5	1607.3	1717.3
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)