

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: P533336

Luminaire Tested: **GALN-SA8D-730-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533336  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-730-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47719 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

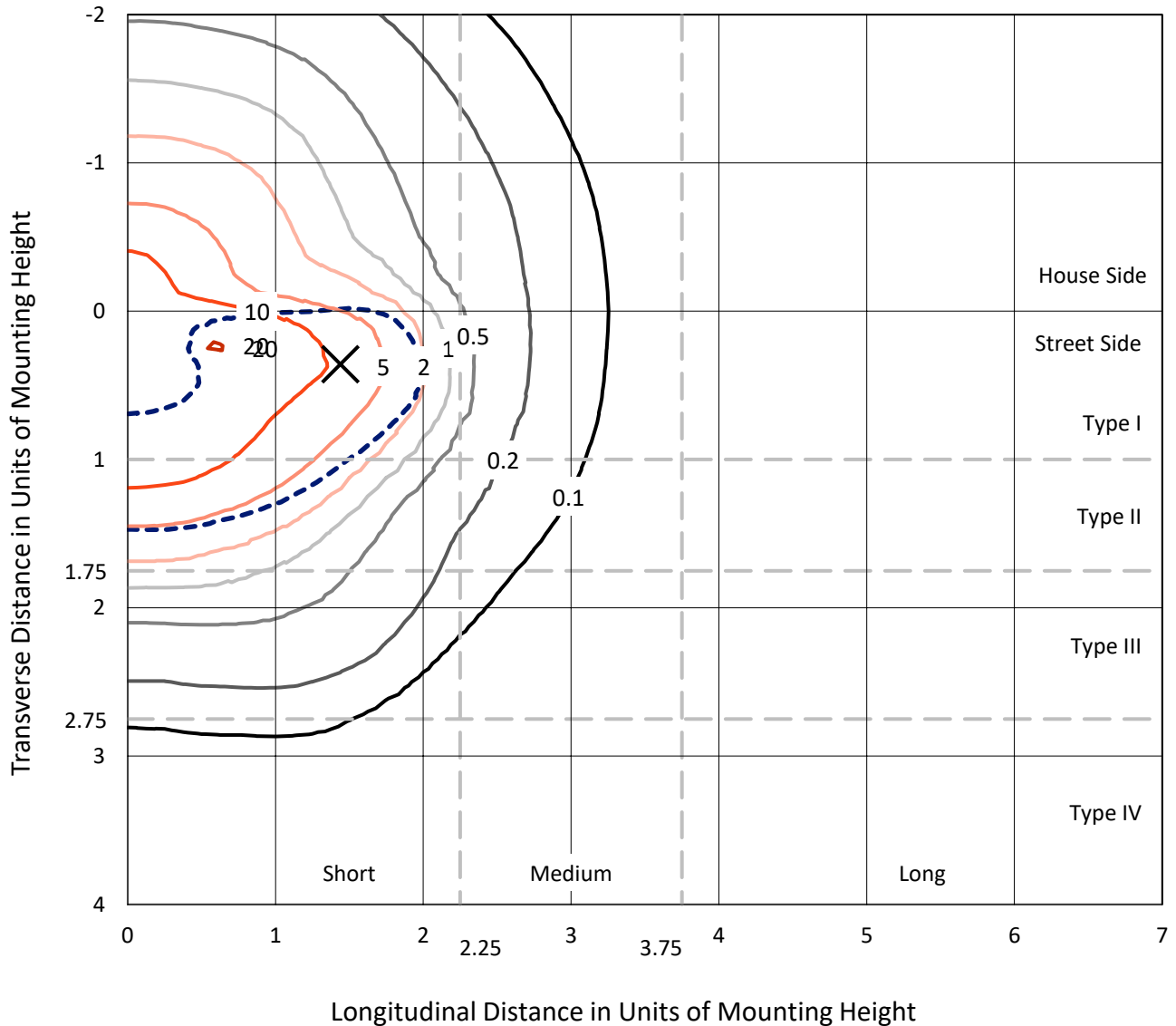
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

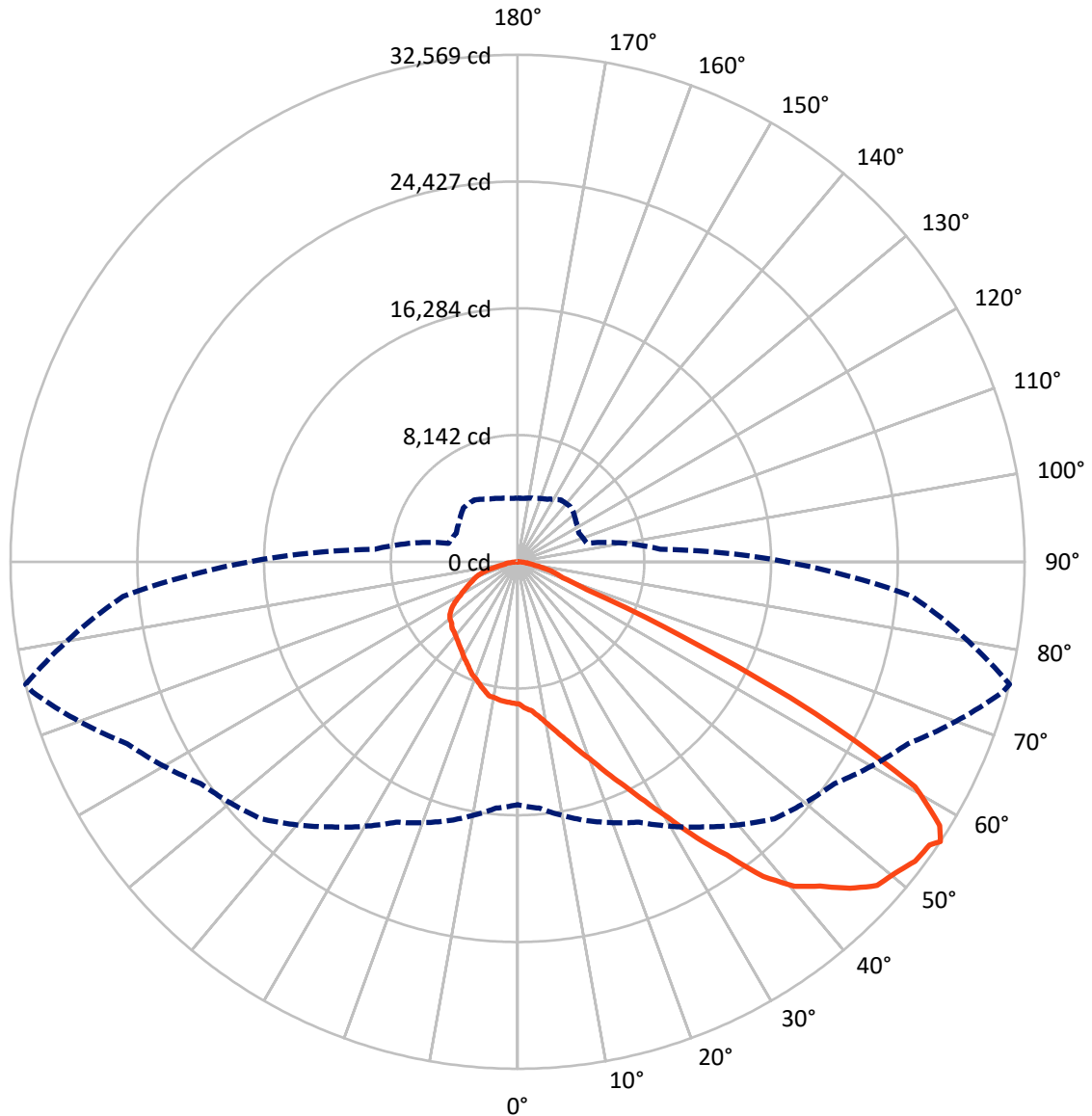
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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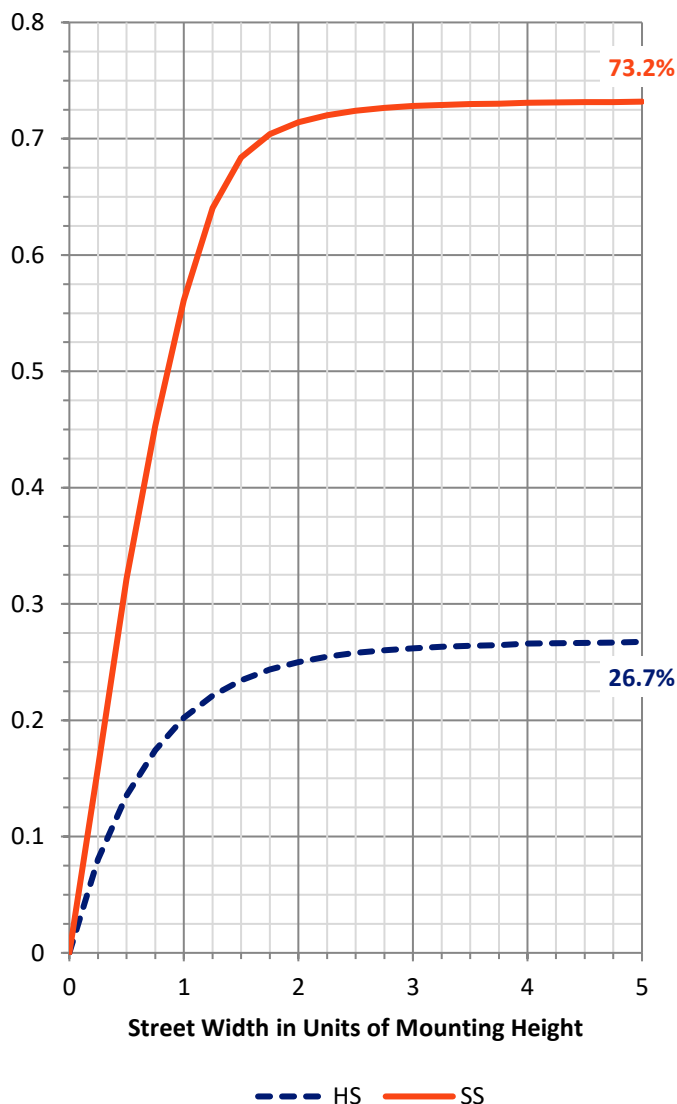
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12830.2	0.0	12830.2
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	34888.8	0.0	34888.8
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	47719.0	0.0	47719.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	905.5	1.9
10°-20°	2844.3	6.0
20°-30°	4974.4	10.4
30°-40°	7788.4	16.3
40°-50°	11330.0	23.7
50°-60°	12452.4	26.1
60°-70°	5558.2	11.6
70°-80°	1605.4	3.4
80°-90°	260.4	0.5
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°	47719.0	100.0
0°-180°	47719.0	100.0

**Coefficient of Utilization**



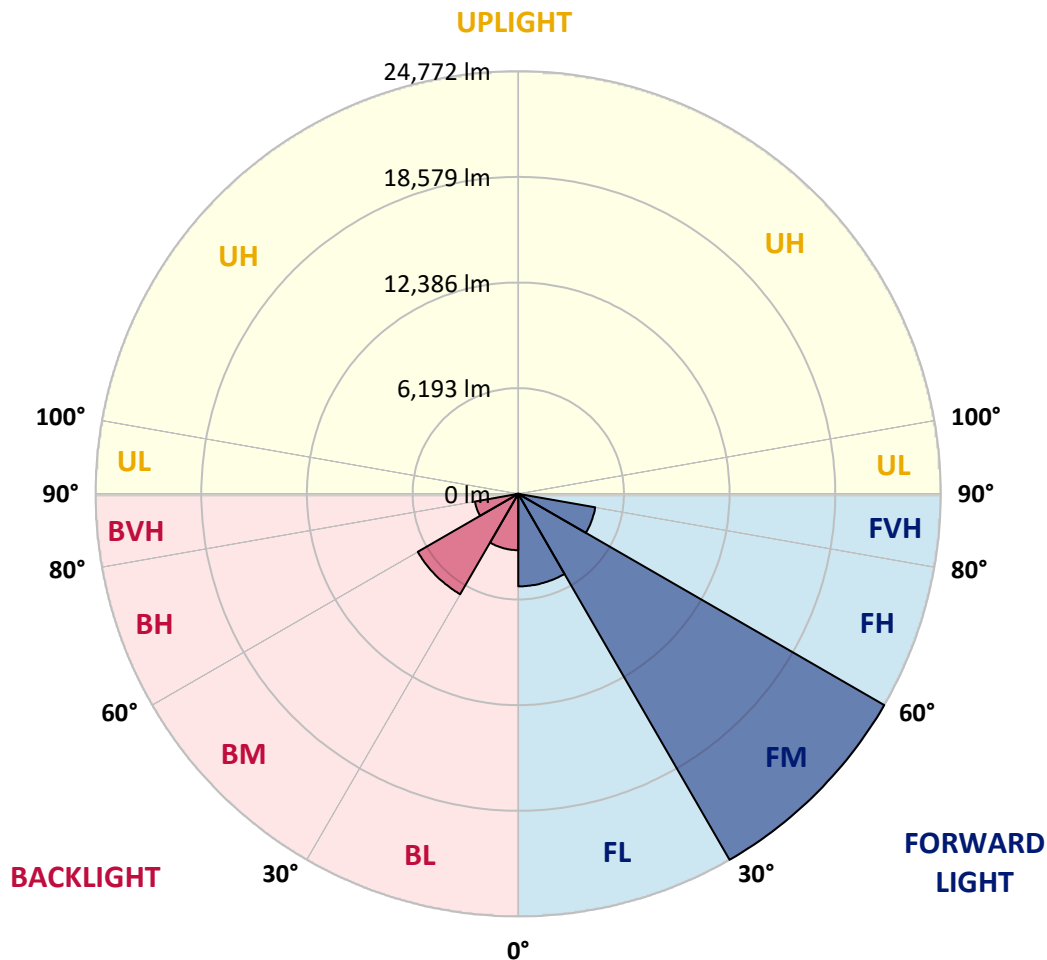
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5422.7	11.4			
FM (30°-60°)	24771.8	51.9			
FH (60°-80°)	4582.2	9.6			G2/5000
FVH (80°-90°)	112.1	0.2			G2/225
BL (0°-30°)	3301.5	6.9	B4/5000		
BM (30°-60°)	6799.0	14.2	B4/8500		
BH (60°-80°)	2581.5	5.4	B4/5000		G4/5000
BVH (80°-90°)	148.3	0.3			G2/225
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°	65°	75°	76°	85°
0°	9130.4	9130.4	9130.4	9130.4	9130.4	9130.4	9130.4	9130.4	9130.4	9130.4	9130.4
2.5°	10058.3	9897.5	9885.1	9841.8	9866.5	9755.2	9637.7	9483.0	9322.2	9421.2	9186.1
5°	10763.5	10547.0	10633.6	10485.1	10503.7	10355.2	10114.0	9934.6	9736.6	9619.1	9452.1
7.5°	11010.9	11029.5	11091.4	11066.6	10942.9	10942.9	10782.1	10466.6	10120.2	10052.1	9773.8
10°	11345.0	11351.2	11283.1	11301.7	11474.9	11394.5	11252.2	11116.1	10670.7	10590.3	10095.4
12.5°	11462.5	11351.2	11462.5	11561.5	11765.6	11877.0	11846.0	11747.1	11270.7	11215.1	10491.3
15°	11481.1	11413.0	11505.8	11728.5	11907.9	12378.0	12613.1	12545.0	11914.1	11920.3	10936.7
17.5°	11394.5	11487.3	11524.4	11716.1	12130.6	12569.8	13250.2	13343.0	12823.4	12743.0	11499.6
20°	11512.0	11444.0	11493.4	11666.6	12217.2	12903.8	13794.6	14407.0	13677.1	13621.4	12081.1
22.5°	11963.6	11870.8	11858.4	11969.8	12365.7	13077.0	14369.9	15471.0	14716.3	14747.2	12804.9
25°	12316.2	12365.7	12322.4	12316.2	12563.6	13336.8	15130.8	16739.1	16126.7	15947.3	13658.5
27.5°	12922.4	13039.9	12953.3	13070.8	13015.2	13726.6	15675.1	18143.3	17648.4	17407.2	14431.8
30°	13763.7	13825.5	13745.1	13745.1	13578.1	14270.9	16170.0	19609.4	19405.2	19077.4	15341.1
32.5°	14871.0	14963.7	14802.9	14710.1	14685.4	15081.3	17060.8	21056.9	21403.3	21124.9	16547.3
35°	16337.0	16281.3	16089.6	16003.0	15668.9	16324.6	18384.6	22720.9	23630.2	23135.3	18007.2
37.5°	17629.9	17543.3	17530.9	17048.4	17128.8	17667.0	19510.4	23982.8	25789.1	25646.8	19547.5
40°	18836.1	18916.5	19046.4	18774.3	18650.5	19244.4	20821.8	24947.8	27465.5	27409.8	20735.2
42.5°	20129.0	20054.8	20283.6	20054.8	19869.2	20710.5	22244.6	25615.9	28937.7	28480.0	21978.6
45°	22003.3	21768.3	21848.7	21867.2	21731.1	22040.4	22832.2	26098.4	29970.8	29921.3	22887.9
47.5°	23568.4	23574.5	23438.5	23333.3	22918.8	23228.1	23487.9	26401.5	31158.5	31078.1	23240.5
50°	24149.8	24069.4	24465.3	24694.2	24718.9	24088.0	24001.4	26568.5	31783.3	31430.7	23593.1
52.5°	22059.0	22133.2	22758.0	24118.9	24904.5	24972.6	24601.4	26914.9	32036.9	31962.6	23877.7
55°	17753.6	18112.4	19139.2	20710.5	22572.4	24620.0	25250.9	27273.7	32173.0	32111.1	25139.6
56°	15607.1	15885.4	17221.6	18452.6	20790.9	23339.5	24842.7	27657.2	32278.1	32568.9	25436.5
57.5°	12563.6	12885.3	13844.1	15242.1	18001.0	20902.2	23716.8	27187.1	31869.9	31981.2	25653.0
60°	7856.1	7887.0	9037.6	9959.3	11901.7	14734.9	18100.0	23655.0	29494.5	29333.6	23042.6
62.5°	5152.9	5159.1	6204.5	6959.2	7843.7	8493.3	10652.2	15687.5	21762.1	21477.5	16405.1
65°	3618.8	3699.2	4509.5	5517.8	5876.6	5536.4	5468.4	8270.6	12155.3	11747.1	8814.9
67.5°	2647.6	2653.8	3371.3	4453.9	4973.5	4212.6	3420.8	4039.4	4812.6	4800.3	4082.7
70°	1750.6	1824.8	2375.4	3328.0	3921.9	3383.7	2796.0	2888.8	3062.0	3062.0	3037.3
72.5°	1020.7	1088.7	1453.7	2109.4	2202.2	2115.6	2214.6	2474.4	2585.7	2579.5	2548.6
75°	581.5	612.4	692.8	878.4	1094.9	1292.9	1626.9	1874.3	1985.7	2053.7	1973.3
77.5°	340.2	358.8	408.3	501.1	569.1	699.0	884.6	1057.8	1206.3	1187.7	1200.1
80°	179.4	179.4	228.9	296.9	395.9	494.9	587.7	686.6	767.1	785.6	804.2
82.5°	105.2	111.3	148.5	216.5	284.6	352.6	451.6	519.6	593.8	600.0	612.4
85°	55.7	61.9	92.8	142.3	191.8	216.5	222.7	210.3	228.9	216.5	247.4
87.5°	18.6	18.6	30.9	24.7	24.7	30.9	37.1	37.1	49.5	49.5	49.5
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9130.4	9130.4	9130.4	9130.4	9130.4	9130.4	9130.4	9130.4	9130.4	9130.4	9130.4
2.5°	9179.9	9179.9	9074.7	8876.8	8845.9	8765.4	8691.2	8685.0	8629.4	8579.9	8555.1
5°	9353.1	9161.3	9006.7	8827.3	8617.0	8518.0	8406.7	8282.9	8233.5	8282.9	8276.8
7.5°	9551.1	9390.2	8926.3	8592.2	8351.0	8252.0	8128.3	7998.4	8010.8	8010.8	7924.2
10°	9742.8	9526.3	8784.0	8357.2	8004.6	7930.3	7862.3	7911.8	7973.7	7986.0	7930.3
12.5°	10064.5	9575.8	8716.0	8122.1	7899.4	7738.6	7781.9	7918.0	8047.9	8010.8	8054.1
15°	10305.7	9619.1	8406.7	7880.9	7602.5	7676.7	7831.4	7924.2	8140.7	8115.9	8159.2
17.5°	10540.8	9643.8	8103.6	7559.2	7441.7	7645.8	7763.3	8029.3	8097.4	8245.8	8301.5
20°	11023.3	9693.3	7794.3	7361.2	7324.1	7559.2	7763.3	7887.0	8035.5	8165.4	8165.4
22.5°	11270.7	9668.6	7590.1	7101.4	7219.0	7367.4	7553.0	7763.3	7763.3	7887.0	7893.2
25°	11580.0	9569.6	7268.5	6977.7	7064.3	7206.6	7416.9	7342.7	7423.1	7423.1	7522.1
27.5°	11932.6	9359.3	6990.1	6755.0	6928.2	7082.9	7113.8	7064.3	6971.5	6959.2	6922.0
30°	12217.2	9099.5	6786.0	6680.8	6823.1	6909.7	6810.7	6705.5	6544.7	6532.3	6445.7
32.5°	12606.9	8777.8	6532.3	6495.2	6656.0	6662.2	6631.3	6470.5	6235.4	6136.4	6037.5
35°	13262.6	8592.2	6340.6	6396.2	6445.7	6427.2	6371.5	6198.3	5963.2	5919.9	5882.8
37.5°	13745.1	8456.2	6142.6	6210.7	6254.0	6278.7	6111.7	5919.9	5926.1	5839.5	5814.8
40°	14289.5	8369.5	5981.8	6012.7	6018.9	6099.3	5895.2	5802.4	5845.7	5790.0	5827.1
42.5°	14988.5	8394.3	5814.8	5790.0	5907.6	5876.6	5777.6	5653.9	5678.7	5511.7	5536.4
45°	15359.6	8561.3	5715.8	5604.4	5734.3	5728.2	5598.3	5480.7	5332.3	5010.6	5023.0
47.5°	15607.1	8604.6	5480.7	5406.5	5542.6	5623.0	5474.5	5202.4	4992.0	4763.2	4707.5
50°	15860.7	8685.0	5369.4	5214.7	5270.4	5462.2	5276.6	5016.8	4812.6	4608.5	4639.4
52.5°	16083.4	8839.7	5152.9	4924.0	5023.0	5233.3	5134.3	4818.8	4596.1	4429.1	4379.6
55°	17073.1	9186.1	4787.9	4491.0	4726.0	4992.0	4936.4	4552.8	4311.6	4225.0	4212.6
56°	17227.8	9198.5	4596.1	4342.5	4559.0	4911.6	4843.6	4435.3	4218.8	4082.7	4088.9
57.5°	17252.5	9050.0	4324.0	4206.4	4392.0	4794.1	4707.5	4342.5	4045.6	3921.9	3884.8
60°	15180.2	7064.3	3983.7	3909.5	4126.0	4435.3	4404.4	4088.9	3754.9	3612.6	3680.6
62.5°	10349.0	5177.6	3717.7	3705.4	3816.7	4119.8	4039.4	3754.9	3476.5	3383.7	3340.4
65°	6025.1	3928.1	3457.9	3408.4	3501.2	3662.1	3717.7	3420.8	3130.1	3068.2	3049.7
67.5°	3556.9	3247.6	3123.9	3043.5	3012.5	3111.5	3154.8	2981.6	2690.9	2604.3	2678.5
70°	2975.4	2888.8	2895.0	2758.9	2684.7	2616.6	2579.5	2424.9	2183.6	2072.3	2041.4
72.5°	2567.2	2530.0	2505.3	2381.6	2313.5	2158.9	1998.1	1843.4	1664.0	1571.2	1577.4
75°	1960.9	1948.6	1960.9	1899.1	1781.5	1657.8	1509.4	1311.4	1175.3	1057.8	1082.5
77.5°	1169.1	1206.3	1224.8	1200.1	1150.6	1039.2	946.4	816.5	686.6	593.8	581.5
80°	804.2	835.1	866.0	835.1	785.6	705.2	606.2	507.2	414.5	365.0	352.6
82.5°	612.4	643.3	661.9	631.0	569.1	482.5	414.5	346.4	272.2	222.7	210.3
85°	222.7	253.6	247.4	296.9	321.7	309.3	266.0	204.1	154.6	111.3	105.2
87.5°	61.9	55.7	61.9	61.9	61.9	55.7	49.5	49.5	49.5	30.9	24.7
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)