

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: P532172

Luminaire Tested: **GALN-SA7C-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532172  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-730-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38930 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

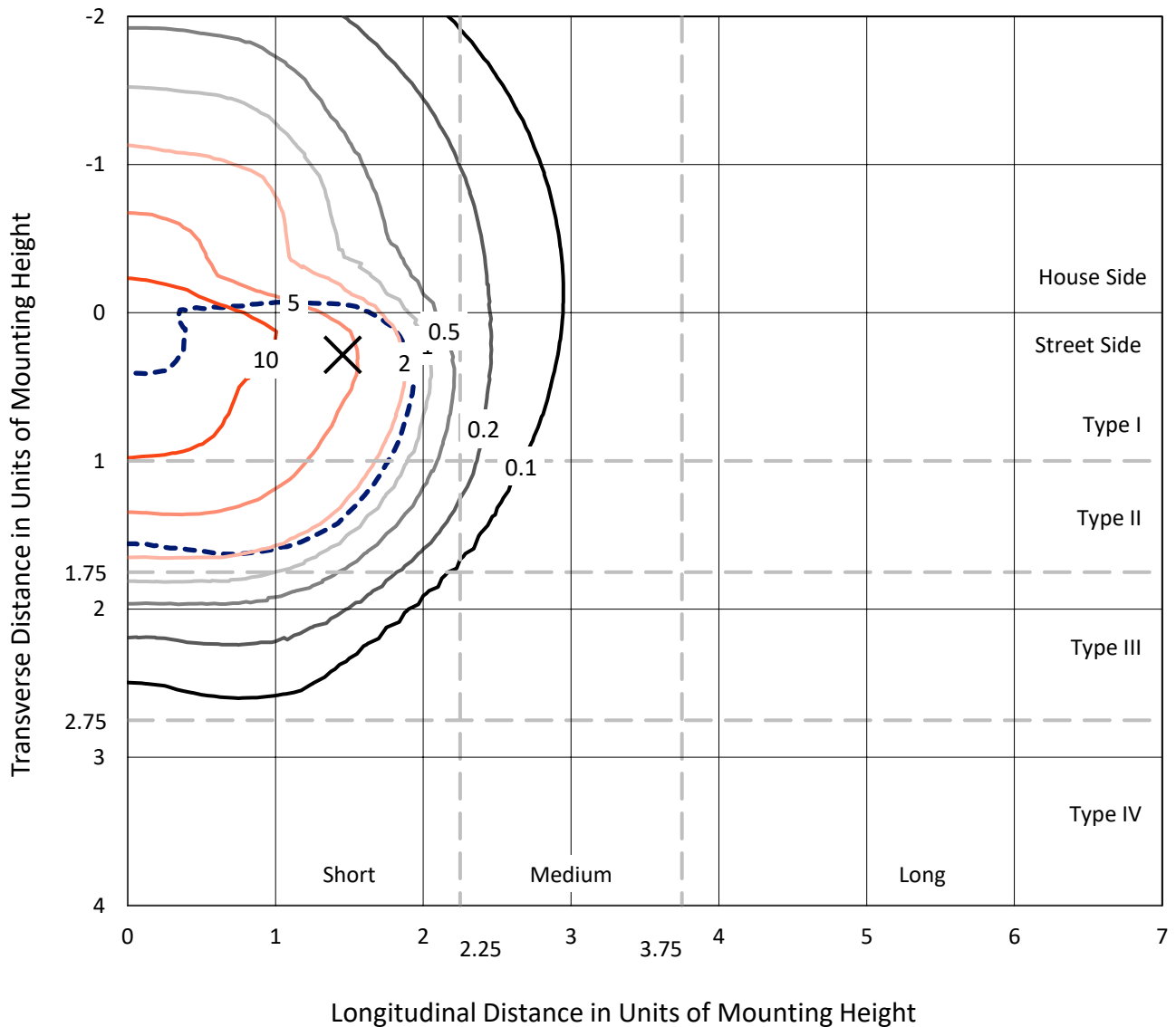
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

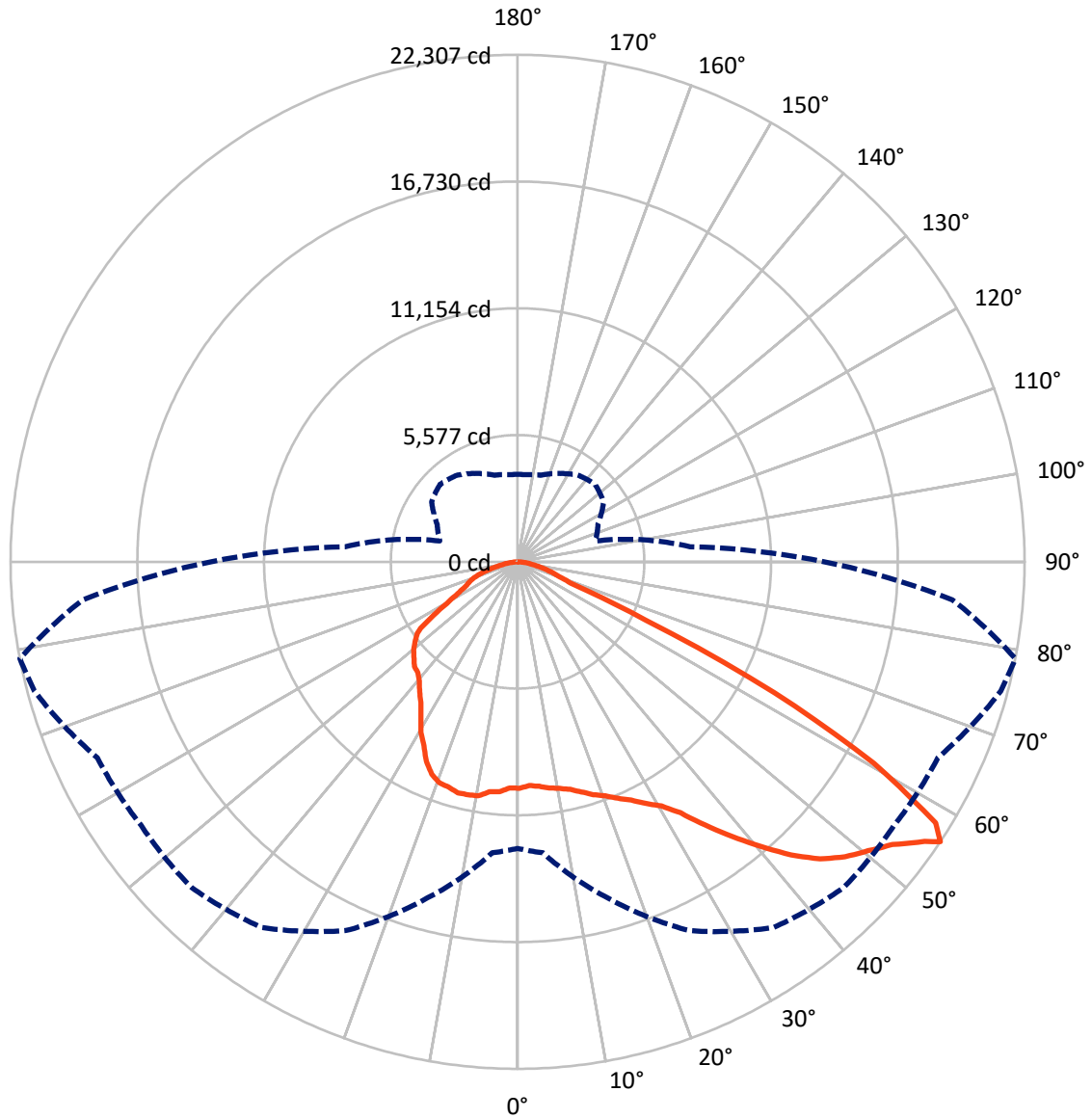
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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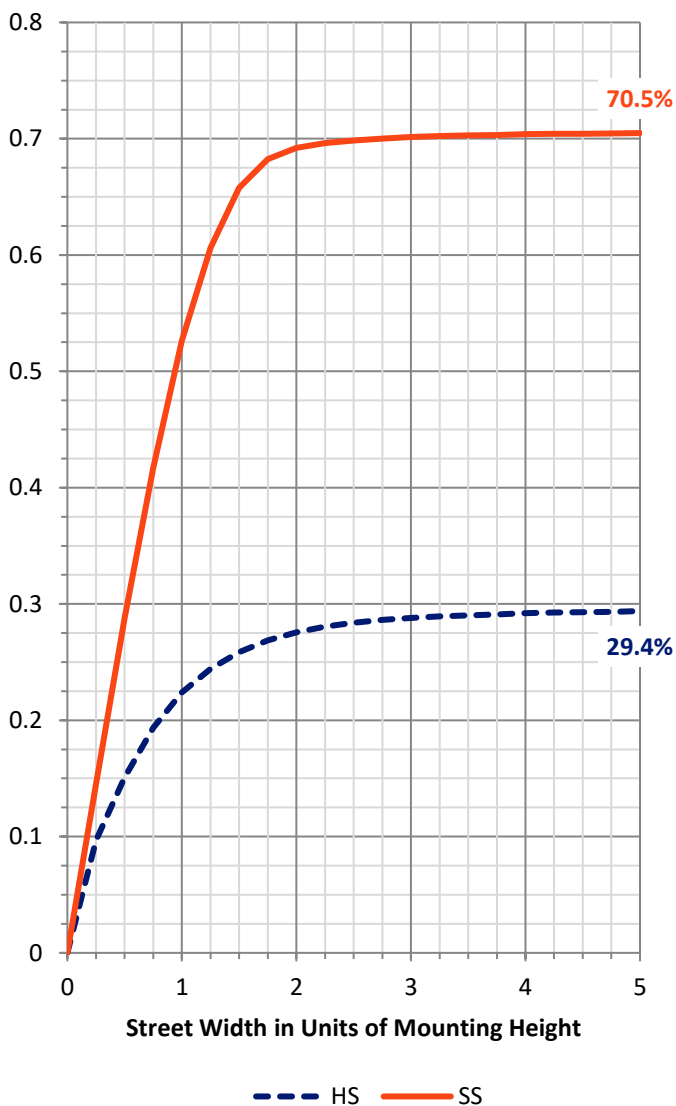
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11496.9	0.0	11496.9
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	27433.1	0.0	27433.1
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	38930.0	0.0	38930.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	905.6	2.3
10°-20°	2478.4	6.4
20°-30°	4240.1	10.9
30°-40°	6498.4	16.7
40°-50°	8782.6	22.6
50°-60°	10087.1	25.9
60°-70°	4598.0	11.8
70°-80°	1133.6	2.9
80°-90°	206.0	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°	38930.0	100.0
0°-180°	38930.0	100.0

**Coefficient of Utilization**

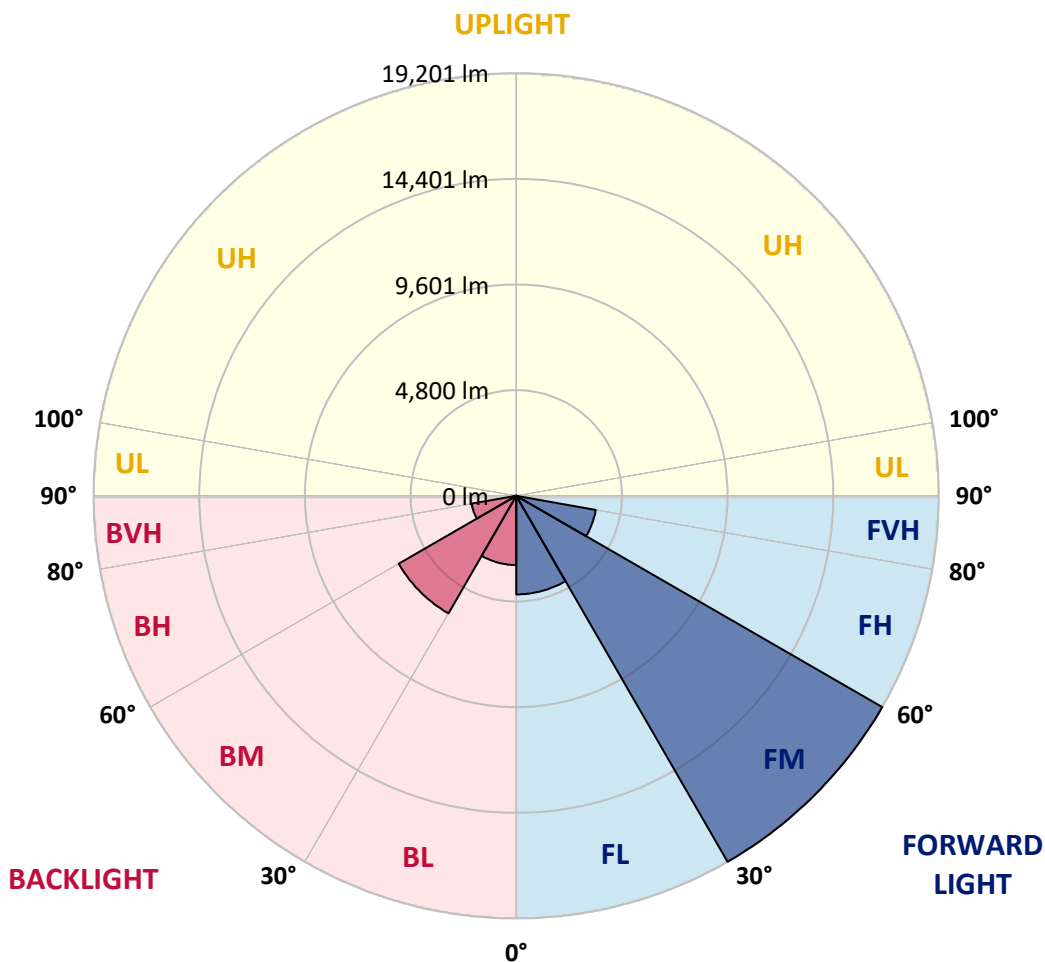


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4479.2	11.5			
FM (30°-60°)	19201.4	49.3			
FH (60°-80°)	3670.2	9.4			G2/5000
FVH (80°-90°)	82.3	0.2			G1/100
BL (0°-30°)	3144.9	8.1	B4/5000		
BM (30°-60°)	6166.8	15.8	B4/8500		
BH (60°-80°)	2061.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	123.8	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-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	9960.6	9960.6	9960.6	9960.6	9960.6	9960.6	9960.6	9960.6	9960.6	9960.6	9960.6
2.5°	9475.7	9451.5	9509.7	9553.3	9606.6	9674.5	9708.5	9727.9	9897.6	9854.0	9984.9
5°	9272.0	9209.0	9252.6	9286.6	9378.7	9461.2	9553.3	9698.8	9854.0	9921.9	10081.9
7.5°	9092.6	9058.7	9049.0	9073.2	9199.3	9306.0	9466.0	9679.4	9931.5	10043.1	10135.2
10°	8796.8	8748.3	8821.0	8981.1	9015.0	9238.1	9422.4	9727.9	9946.1	10140.1	10411.6
12.5°	8665.9	8617.4	8631.9	8724.1	8961.7	9175.0	9393.3	9737.6	10198.3	10275.9	10639.6
15°	8874.4	8825.9	8840.4	8816.2	9044.1	9155.6	9500.0	9931.5	10372.8	10503.8	10891.7
17.5°	9349.6	9354.5	9291.4	9238.1	9184.7	9422.4	9660.0	10047.9	10440.7	10770.5	11061.5
20°	10256.5	10096.4	9970.3	9669.7	9587.2	9689.1	9989.7	10363.1	10717.2	10988.7	11318.5
22.5°	10954.8	10969.3	10789.9	10295.3	10115.8	10159.5	10416.5	10722.0	11110.0	11303.9	11682.2
25°	11968.3	11866.5	11672.5	11279.7	10877.2	10911.1	11100.3	11376.7	11483.4	11619.1	12031.3
27.5°	12894.5	12923.6	12540.5	12172.0	11672.5	11575.5	11914.9	11963.4	11784.0	12041.0	12181.7
30°	13835.3	13811.1	13558.9	13127.3	12637.5	12656.9	12807.2	12569.6	12322.3	12462.9	12559.9
32.5°	14810.0	14533.6	14523.9	14136.0	13762.6	13583.1	13398.9	13515.2	13132.1	13161.2	13069.1
35°	15590.8	15629.6	15406.5	15130.1	14945.8	14630.6	14126.3	14334.8	14262.1	14228.1	13830.5
37.5°	16158.2	16007.8	16119.4	16027.2	15852.7	15459.9	14936.1	15134.9	15168.9	15333.8	14873.1
40°	16623.7	16560.7	16856.5	16905.0	16783.7	15935.1	14994.3	15585.9	16095.1	16454.0	15906.0
42.5°	16846.8	16982.6	17292.9	17666.3	17394.8	16487.9	15295.0	15930.2	17065.0	17632.4	16885.6
45°	17147.4	16972.9	17433.6	18117.3	18122.2	16953.5	15585.9	16395.8	17821.5	18645.9	17554.8
47.5°	16841.9	16929.2	17404.5	18272.5	18495.6	17443.3	16371.5	17055.3	18655.6	19387.9	18175.5
50°	16158.2	16332.7	17200.8	18102.8	18776.8	17962.1	17273.5	17768.2	19426.7	19984.3	18277.3
52.5°	15445.3	15542.3	16900.1	18233.7	18902.9	18631.4	18481.0	18752.6	20367.4	20658.4	18403.4
55°	13505.5	13966.2	15906.0	18175.5	19518.8	19838.9	19722.5	20120.1	21434.3	21725.3	19092.0
56°	12608.4	12850.9	15309.5	17903.9	19640.0	20280.1	20222.0	20401.4	22001.7	22307.2	19198.7
57.5°	10949.9	10969.3	13054.6	16701.3	19184.2	20411.1	20352.9	20493.5	21890.1	21681.6	18262.8
60°	6852.2	7152.8	8884.1	12846.0	16313.3	18936.9	19266.6	18136.7	18456.8	18015.5	14208.7
62.5°	3549.8	3506.1	4655.4	7511.7	10828.7	13558.9	13864.4	13811.1	13316.4	12671.5	9281.7
65°	1770.0	1779.7	2434.4	3719.5	5547.7	7099.5	7953.0	8045.1	6731.0	6192.7	4403.2
67.5°	1285.1	1333.6	1750.6	2274.4	2613.8	2924.2	3583.7	3515.8	2662.3	2531.4	2347.1
70°	999.0	1042.6	1420.9	1736.1	1576.1	1576.1	1716.7	1774.9	1896.1	1949.5	2012.5
72.5°	727.4	761.4	1086.3	1197.8	1032.9	1110.5	1285.1	1420.9	1547.0	1566.4	1639.1
75°	499.5	528.6	712.9	659.5	620.7	766.2	940.8	1066.9	1159.0	1207.5	1251.1
77.5°	324.9	334.6	407.3	344.3	397.6	494.6	611.0	717.7	809.8	848.6	858.3
80°	145.5	160.0	174.6	218.2	276.4	354.0	436.4	523.7	581.9	596.5	625.6
82.5°	82.4	82.4	106.7	155.2	203.7	257.0	315.2	378.3	446.1	460.7	455.8
85°	43.6	43.6	63.0	92.1	126.1	150.3	145.5	150.3	160.0	184.3	179.4
87.5°	14.5	14.5	19.4	19.4	24.2	29.1	24.2	33.9	43.6	43.6	43.6
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°	9960.6	9960.6	9960.6	9960.6	9960.6	9960.6	9960.6	9960.6	9960.6	9960.6	9960.6
2.5°	9946.1	9989.7	9931.5	10057.6	10057.6	10033.4	9912.2	9950.9	9980.0	9980.0	10004.3
5°	10135.2	10120.7	10159.5	10009.1	9917.0	9883.1	9684.2	9587.2	9504.8	9500.0	9427.2
7.5°	10241.9	10203.1	10188.6	10077.0	9669.7	9422.4	8995.6	8748.3	8695.0	8505.8	8578.6
10°	10411.6	10484.4	10411.6	9805.5	9238.1	8670.7	8253.7	7870.6	7720.2	7599.0	7526.3
12.5°	10760.8	10726.8	10305.0	9485.4	8690.1	8016.0	7395.3	6992.8	6842.5	6735.8	6726.1
15°	11056.6	10886.9	10241.9	8981.1	7836.6	7118.9	6609.7	6323.6	6255.7	6265.4	6309.1
17.5°	11158.4	11042.1	9912.2	8457.3	7201.3	6357.5	6119.9	6076.3	6139.3	6212.1	6231.5
20°	11318.5	11134.2	9776.4	7744.5	6415.7	5882.3	5867.8	6022.9	6139.3	6246.0	6260.6
22.5°	11653.1	11187.5	9335.1	7070.4	5877.5	5741.7	5882.3	6013.2	6192.7	6280.0	6202.4
25°	11750.1	11071.2	8714.4	6260.6	5538.0	5654.4	5804.7	5984.1	6110.2	6158.7	6192.7
27.5°	11832.5	10891.7	7875.4	5722.3	5431.3	5649.5	5804.7	5955.0	6022.9	6066.6	6105.4
30°	12065.3	10838.4	7148.0	5363.4	5363.4	5552.6	5751.4	5790.2	5882.3	5935.7	6003.5
32.5°	12181.7	10469.8	6401.2	5135.5	5295.5	5601.0	5615.6	5688.3	5693.2	5736.8	5664.1
35°	12487.2	10208.0	5707.7	4970.6	5324.6	5552.6	5625.3	5581.6	5344.0	5227.6	5251.9
37.5°	12710.2	10077.0	5208.2	4951.2	5329.5	5605.9	5644.7	5314.9	5067.6	4873.6	4922.1
40°	13311.6	9752.1	4830.0	4917.3	5373.1	5664.1	5557.4	5198.5	4752.4	4553.6	4519.6
42.5°	13772.3	9519.4	4592.4	4878.5	5407.1	5746.5	5513.8	4965.8	4509.9	4325.7	4374.1
45°	14305.7	9466.0	4466.3	4888.2	5465.3	5790.2	5460.4	4786.3	4301.4	4228.7	4214.1
47.5°	14494.8	9082.9	4330.5	4805.7	5450.7	5775.6	5281.0	4650.6	4223.8	4233.5	4272.3
50°	14179.6	8690.1	4228.7	4636.0	5353.7	5644.7	4999.7	4471.1	4180.2	4301.4	4369.3
52.5°	13777.1	8287.6	4020.1	4408.1	5154.9	5441.0	4868.8	4461.4	4136.5	4097.7	4112.3
55°	13898.3	7957.8	3729.2	4097.7	4834.8	5062.8	4723.3	4369.3	4029.8	3884.4	3932.9
56°	13505.5	7618.4	3540.1	3903.8	4616.6	4820.3	4650.6	4286.9	3942.6	3845.6	3845.6
57.5°	12395.0	6478.8	3292.7	3593.4	4155.9	4398.4	4509.9	4238.4	3845.6	3675.8	3680.7
60°	9141.1	4606.9	2953.3	3166.7	3443.1	3637.0	4155.9	4102.6	3603.1	3486.7	3443.1
62.5°	5635.0	3365.5	2710.8	2793.2	2933.9	3093.9	3627.3	3714.6	3346.1	3220.0	3190.9
65°	3157.0	2575.0	2526.5	2560.5	2628.4	2710.8	3011.5	3205.4	2953.3	2759.3	2749.6
67.5°	2308.3	2303.5	2342.3	2371.4	2400.4	2400.4	2473.2	2550.8	2516.8	2361.7	2347.1
70°	2051.3	2065.8	2094.9	2099.8	2109.5	2075.5	2017.3	1993.1	2031.9	1934.9	1915.5
72.5°	1692.4	1740.9	1774.9	1779.7	1726.4	1682.7	1605.1	1522.7	1493.6	1474.2	1469.4
75°	1299.6	1333.6	1348.1	1343.3	1323.9	1260.8	1168.7	1086.3	1032.9	974.7	1003.8
77.5°	877.7	926.2	950.5	950.5	921.4	824.4	780.8	717.7	664.4	601.3	611.0
80°	615.9	649.8	688.6	683.8	635.3	586.8	523.7	465.5	421.9	373.4	368.6
82.5°	460.7	480.1	499.5	489.8	455.8	407.3	363.7	310.4	261.9	227.9	227.9
85°	164.9	179.4	218.2	227.9	247.3	247.3	208.5	174.6	140.6	116.4	116.4
87.5°	48.5	48.5	53.3	53.3	48.5	53.3	43.6	48.5	53.3	33.9	33.9
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)