

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: P453289

Luminaire Tested: **GALN-SA4B-740-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453289  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-740-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16209 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G4

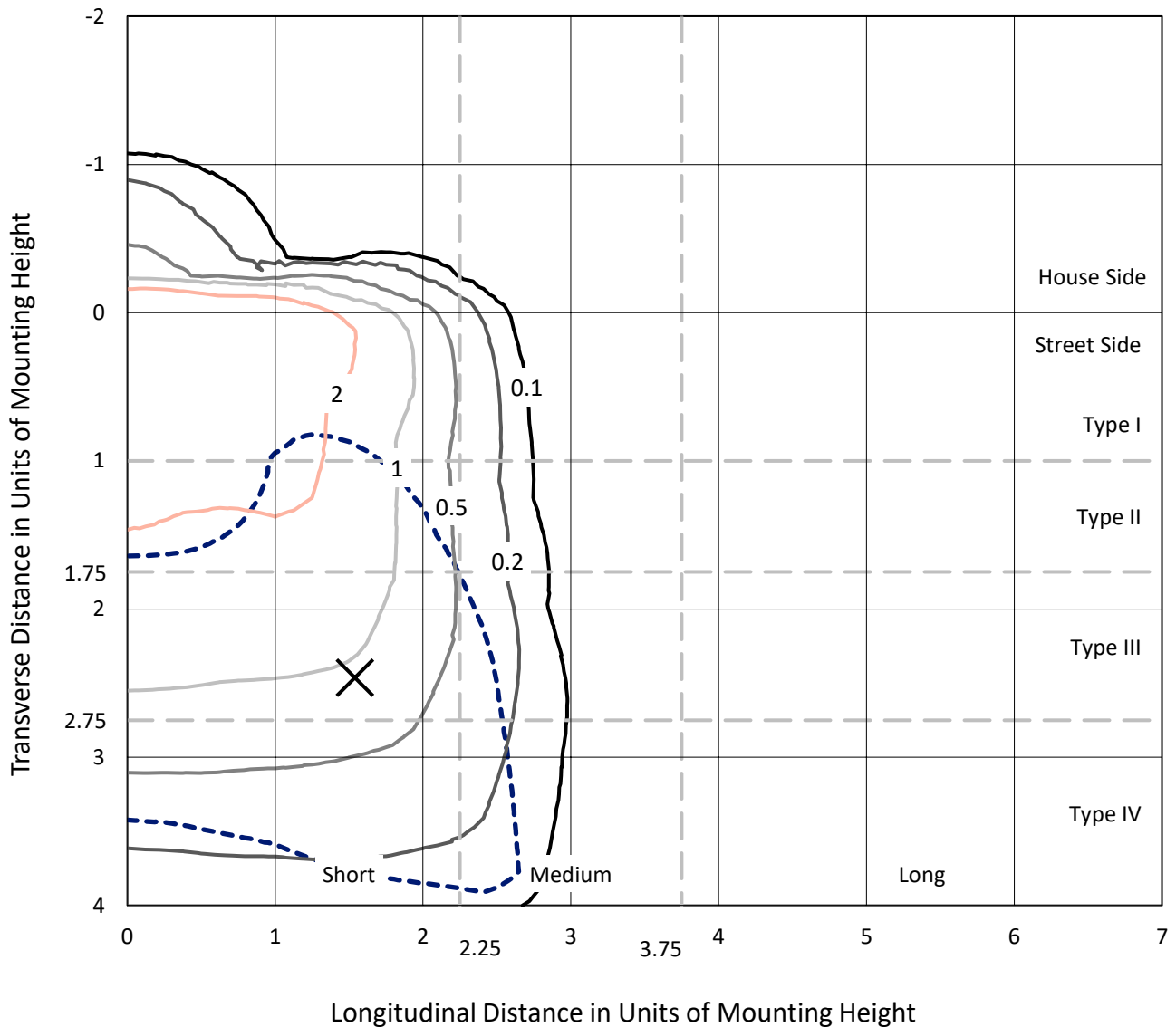
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

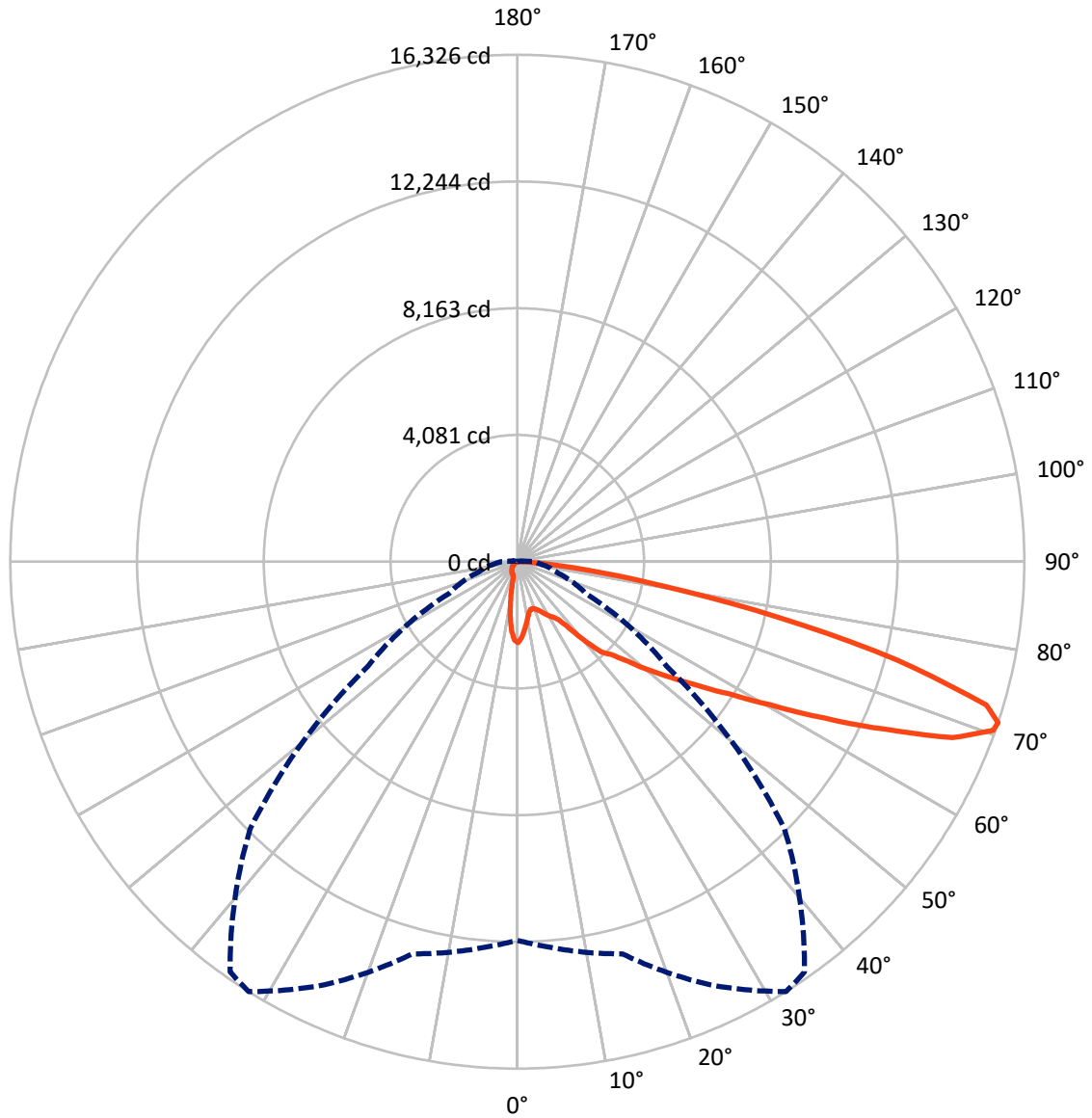
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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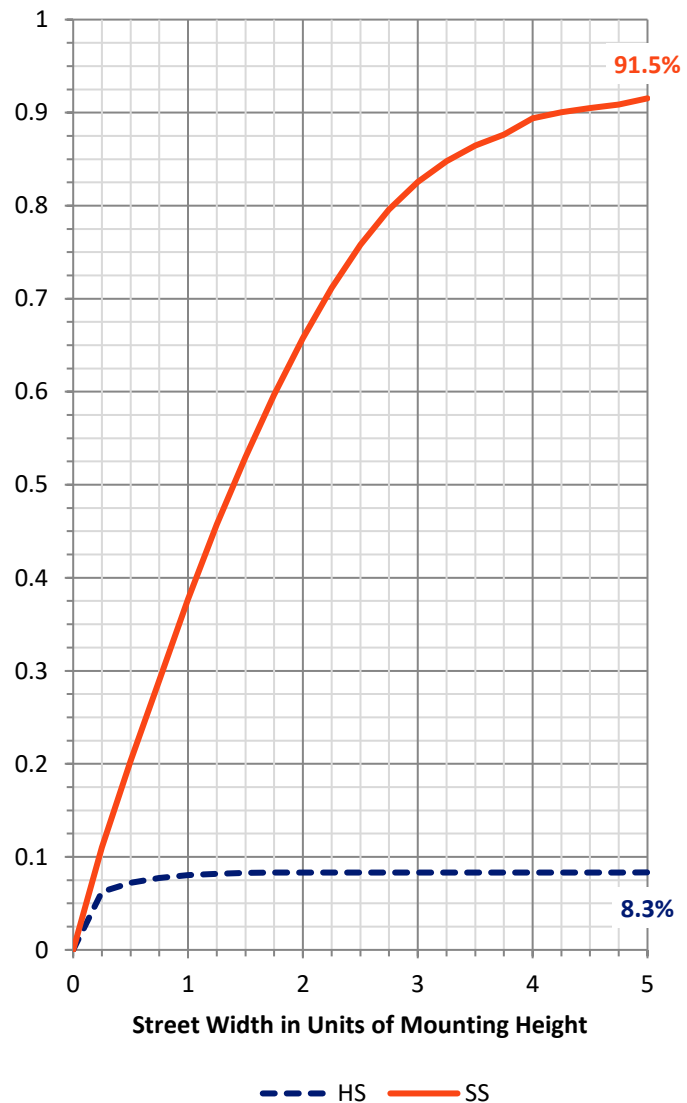
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1357.7	0.0	1357.7
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	14851.3	0.0	14851.3
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	16209.0	0.0	16209.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.0	1.3
10°-20°	460.0	2.8
20°-30°	715.6	4.4
30°-40°	1192.3	7.4
40°-50°	2217.8	13.7
50°-60°	3560.7	22.0
60°-70°	4789.4	29.5
70°-80°	2841.6	17.5
80°-90°	219.6	1.4
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°	16209.0	100.0
0°-180°	16209.0	100.0



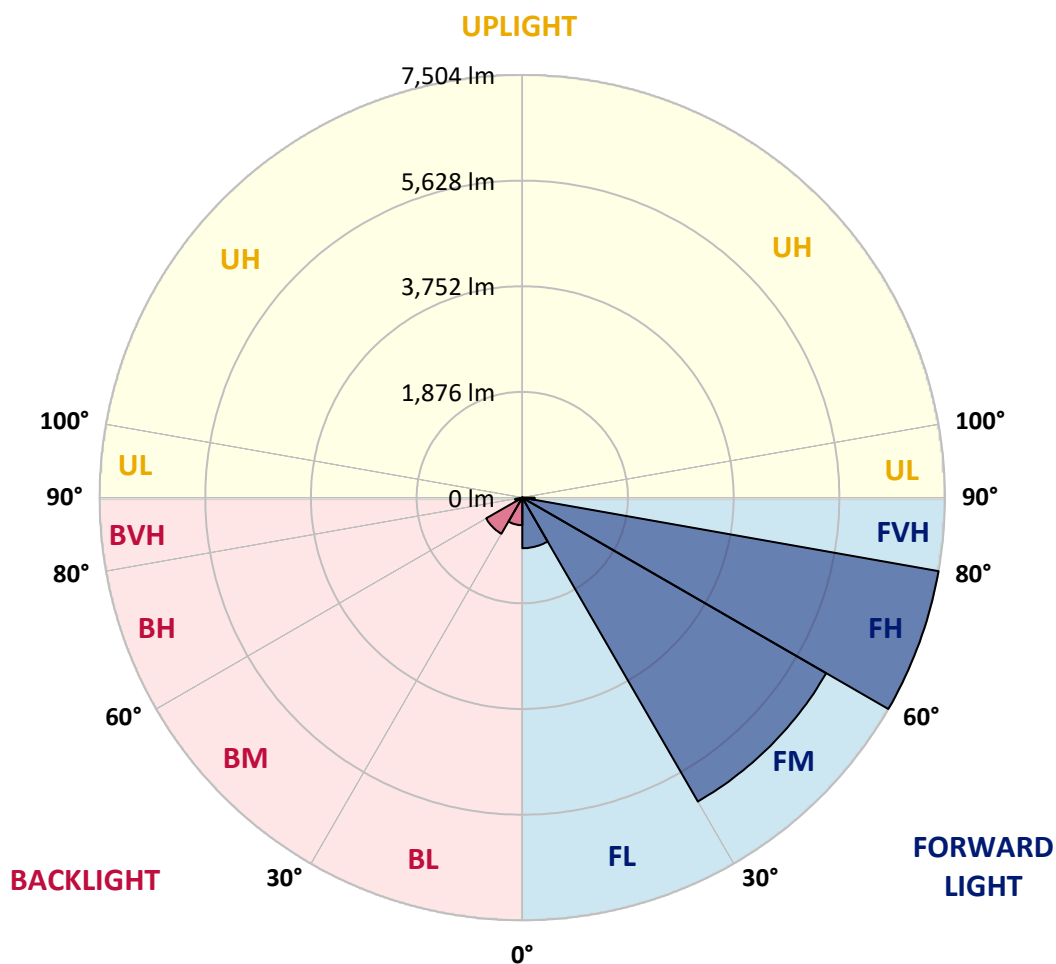
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	898.4	5.5			
FM (30°-60°)	6230.1	38.4			
FH (60°-80°)	7504.0	46.3			G4/12000
FVH (80°-90°)	218.8	1.3			G2/225
BL (0°-30°)	489.2	3.0	B1/500		
BM (30°-60°)	740.6	4.6	B1/1000		
BH (60°-80°)	127.0	0.8	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2606.7	2606.7	2606.7	2606.7	2606.7	2606.7	2606.7	2606.7	2606.7	2606.7	2606.7
2.5°	2417.5	2442.4	2438.7	2447.4	2468.6	2477.3	2500.9	2527.0	2563.1	2588.0	2604.2
5°	2165.0	2183.6	2186.1	2229.7	2250.8	2274.5	2344.1	2420.0	2504.6	2571.8	2616.6
7.5°	1895.0	1904.9	1924.8	1982.1	2035.6	2059.2	2165.0	2296.8	2430.0	2555.6	2636.5
10°	1672.2	1683.4	1719.5	1780.5	1830.3	1861.4	2008.2	2173.7	2360.3	2546.9	2665.1
12.5°	1545.3	1551.6	1565.2	1620.0	1683.4	1717.0	1875.1	2064.2	2304.3	2550.7	2713.7
15°	1536.6	1534.1	1518.0	1540.4	1597.6	1632.4	1786.7	1989.5	2254.5	2563.1	2770.9
17.5°	1582.7	1576.4	1537.9	1537.9	1585.1	1613.8	1749.4	1949.7	2229.7	2591.7	2851.8
20°	1653.6	1643.6	1580.2	1575.2	1621.2	1651.1	1771.8	1952.2	2234.6	2645.2	2960.0
22.5°	1743.2	1732.0	1636.2	1638.6	1688.4	1718.3	1836.5	1997.0	2265.7	2711.2	3075.7
25°	1860.1	1847.7	1734.5	1729.5	1781.7	1807.9	1932.3	2076.6	2309.3	2793.3	3227.5
27.5°	2015.7	1989.5	1853.9	1846.4	1902.4	1936.0	2048.0	2183.6	2386.4	2906.5	3431.6
30°	2143.8	2115.2	1985.8	1965.9	2025.6	2051.7	2167.4	2328.0	2538.2	3104.4	3714.0
32.5°	2311.8	2269.5	2117.7	2065.4	2128.9	2162.5	2340.4	2596.7	2763.4	3313.4	4050.0
35°	2690.0	2663.9	2478.5	2295.6	2291.9	2334.2	2595.5	2867.9	2994.9	3639.4	4507.8
37.5°	3231.3	3212.6	3016.0	2770.9	2700.0	2680.1	2905.3	3166.6	3364.4	4087.3	5040.4
40°	3859.6	3816.1	3635.6	3427.9	3335.8	3277.3	3271.1	3610.8	3847.2	4695.7	5595.3
42.5°	4310.0	4230.4	4011.4	3996.5	3976.6	3915.6	3738.9	4260.2	4470.5	5350.2	6188.8
45°	4782.8	4662.1	4336.1	4280.1	4272.7	4269.0	4445.6	5029.2	5149.9	6059.4	6798.5
47.5°	5149.9	5054.1	4786.6	4761.7	4792.8	4877.4	5380.0	5845.4	5820.5	6691.5	7309.8
50°	5638.8	5566.7	5269.3	5316.6	5477.1	5615.2	6433.9	6735.0	6371.7	7189.2	7681.9
52.5°	6216.2	6083.0	5806.8	5935.0	6181.3	6411.5	7552.5	7513.9	6758.7	7563.7	7959.3
55°	6716.3	6621.8	6527.2	6660.4	7028.7	7316.1	8562.8	8097.4	7039.8	7864.8	8081.3
57.5°	7562.4	7540.0	7443.0	7578.6	8025.3	8323.9	9467.3	8550.3	7220.3	8021.5	7938.2
60°	8814.1	8778.0	8597.6	8770.6	9352.9	9821.9	10301.0	8957.2	7261.3	7960.6	7526.3
62.5°	10319.6	10196.5	10042.2	10297.2	11096.0	11302.6	11086.1	9198.6	7108.3	7475.3	6533.4
65°	11725.6	11598.7	11602.4	12139.9	13009.7	13150.3	12001.8	9162.5	6660.4	6259.7	4818.9
67.5°	12801.9	12780.7	12932.5	13981.4	15118.6	15021.6	12820.5	8622.5	5332.8	4057.4	2560.6
70°	12856.6	12897.7	13333.2	15103.7	16258.3	16104.1	12750.9	7008.7	3324.6	1866.3	1009.1
71°	12194.7	12470.9	13073.1	15068.9	16325.5	16125.2	12163.6	5870.3	2438.7	1301.5	727.9
72.5°	10391.8	10537.4	11838.8	14181.7	15794.2	15366.2	10674.2	4114.7	1561.5	796.3	418.1
75°	5723.5	6081.8	7928.2	11125.9	12632.7	12256.9	6956.5	1954.7	778.9	435.5	172.9
77.5°	2724.9	2655.2	3868.3	6616.8	8565.3	8545.4	3505.0	868.5	454.1	294.9	87.1
80°	778.9	875.9	1480.6	3145.4	4755.4	4807.7	1346.3	419.3	314.8	230.2	44.8
82.5°	235.2	240.1	543.7	1391.0	2365.3	2229.7	505.2	214.0	226.4	182.9	26.1
85°	41.1	51.0	160.5	490.2	902.1	684.3	126.9	102.0	149.3	120.7	14.9
87.5°	2.5	3.7	53.5	56.0	79.6	46.0	22.4	14.9	32.3	32.3	8.7
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°	2606.7	2606.7	2606.7	2606.7	2606.7	2606.7	2606.7	2606.7	2606.7	2606.7	2606.7
2.5°	2615.4	2622.8	2617.9	2606.7	2588.0	2565.6	2535.7	2510.9	2489.7	2478.5	2492.2
5°	2631.5	2641.5	2616.6	2560.6	2476.0	2383.9	2279.4	2198.6	2135.1	2115.2	2107.7
7.5°	2656.4	2662.7	2595.5	2471.0	2291.9	2074.1	1883.8	1723.3	1598.8	1561.5	1506.8
10°	2688.8	2685.0	2558.1	2326.7	2011.9	1684.7	1389.8	1170.8	1005.3	945.6	940.6
12.5°	2738.5	2718.6	2510.9	2130.1	1678.5	1250.5	885.9	693.0	588.5	553.7	546.2
15°	2800.8	2753.5	2436.2	1899.9	1285.3	807.5	546.2	487.7	474.1	471.6	469.1
17.5°	2874.2	2799.5	2337.9	1617.5	903.3	523.8	456.6	455.4	456.6	454.1	452.9
20°	2973.7	2848.0	2220.9	1282.8	597.2	441.7	435.5	435.5	436.7	435.5	435.5
22.5°	3079.5	2905.3	2076.6	979.2	450.4	419.3	418.1	420.5	423.0	421.8	421.8
25°	3210.1	2979.9	1886.3	670.6	403.1	400.6	401.9	406.9	411.8	413.1	411.8
27.5°	3399.2	3072.0	1682.2	461.6	369.5	372.0	384.5	396.9	404.4	405.6	405.6
30°	3612.0	3174.0	1415.9	374.5	342.2	342.2	357.1	380.7	396.9	399.4	400.6
32.5°	3885.7	3292.2	1121.1	337.2	316.0	313.5	327.2	355.8	385.7	394.4	394.4
35°	4224.2	3431.6	833.6	313.5	297.4	291.1	298.6	322.3	360.8	385.7	388.2
37.5°	4621.1	3563.5	609.7	292.4	280.0	271.2	276.2	294.9	326.0	363.3	373.3
40°	4988.1	3680.4	455.4	275.0	262.5	256.3	260.0	268.8	294.9	329.7	335.9
42.5°	5388.8	3771.3	362.1	256.3	245.1	242.6	242.6	246.4	263.8	283.7	284.9
45°	5788.2	3803.6	303.6	233.9	226.4	228.9	227.7	225.2	232.7	230.2	230.2
47.5°	6073.1	3765.0	251.3	212.8	212.8	216.5	210.3	201.6	197.8	182.9	184.1
50°	6268.4	3624.4	206.5	187.9	197.8	202.8	190.4	176.7	163.0	146.8	143.1
52.5°	6349.3	3374.3	169.2	155.5	175.4	181.7	166.7	150.6	129.4	115.7	112.0
55°	6297.0	3065.8	140.6	126.9	148.1	155.5	140.6	121.9	98.3	83.4	80.9
57.5°	6066.9	2697.5	119.4	100.8	118.2	123.2	113.2	93.3	69.7	54.7	54.7
60°	5668.7	2316.8	97.0	79.6	88.3	95.8	85.9	67.2	47.3	33.6	31.1
62.5°	4861.2	1881.3	78.4	62.2	62.2	68.4	59.7	48.5	29.9	17.4	16.2
65°	3510.0	1290.3	62.2	46.0	44.8	44.8	37.3	32.3	17.4	7.5	5.0
67.5°	1907.4	727.9	49.8	34.8	31.1	29.9	23.6	18.7	7.5	1.2	0.0
70°	750.3	280.0	38.6	23.6	19.9	18.7	12.4	8.7	5.0	0.0	0.0
71°	508.9	192.9	33.6	19.9	16.2	13.7	10.0	7.5	3.7	0.0	0.0
72.5°	291.1	119.4	26.1	14.9	12.4	10.0	7.5	5.0	3.7	0.0	0.0
75°	126.9	61.0	16.2	11.2	8.7	6.2	5.0	3.7	1.2	0.0	0.0
77.5°	64.7	33.6	11.2	8.7	5.0	3.7	2.5	1.2	0.0	0.0	0.0
80°	36.1	17.4	7.5	5.0	3.7	2.5	1.2	1.2	0.0	0.0	0.0
82.5°	19.9	10.0	3.7	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.4	6.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	2.5	0.0	0.0	0.0	0.0	1.2	1.2	0.0	0.0	0.0
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)