

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: P320107

Luminaire Tested: **GLEON-SA3A-827-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320107  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3A-827-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9938 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

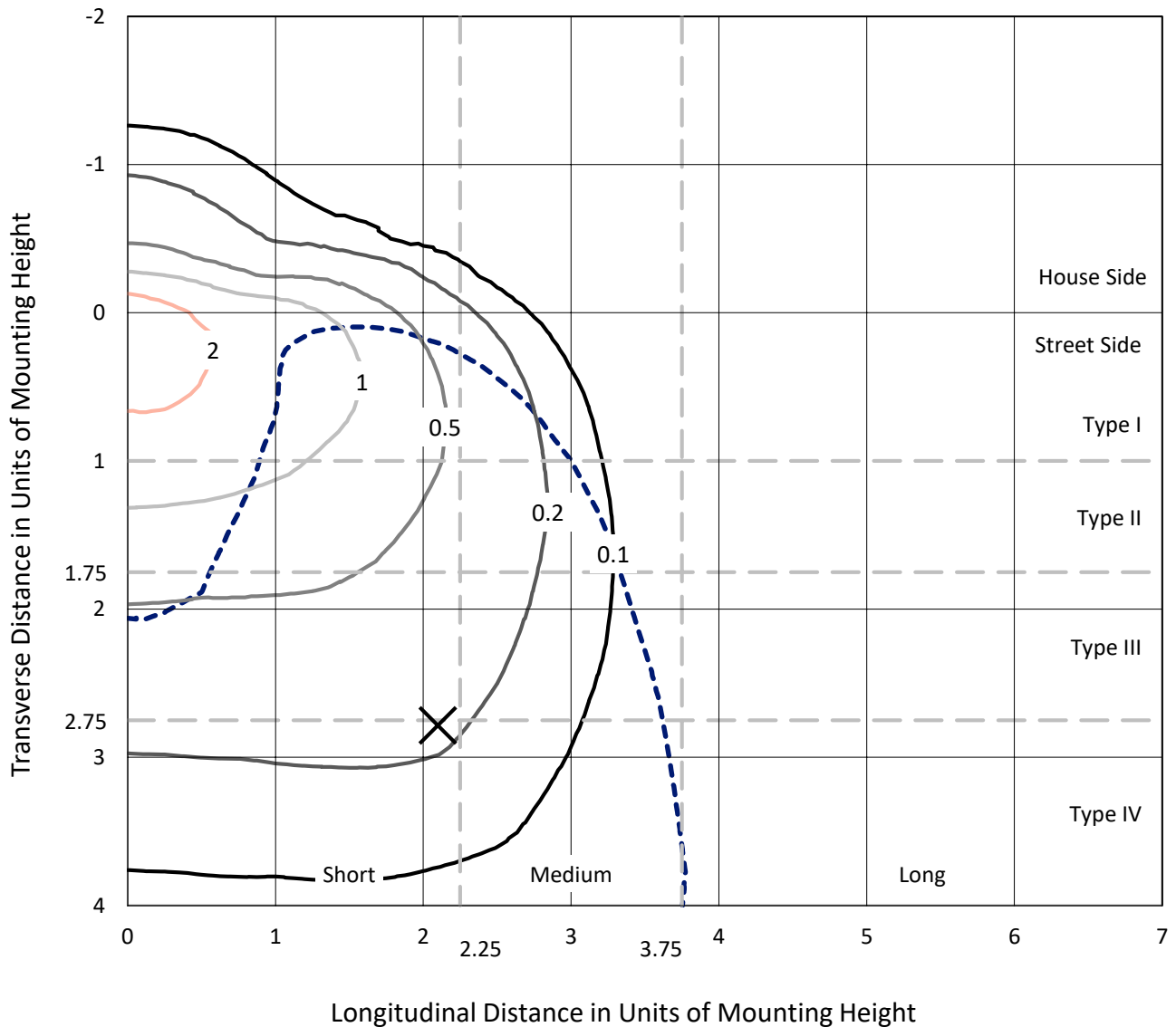
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

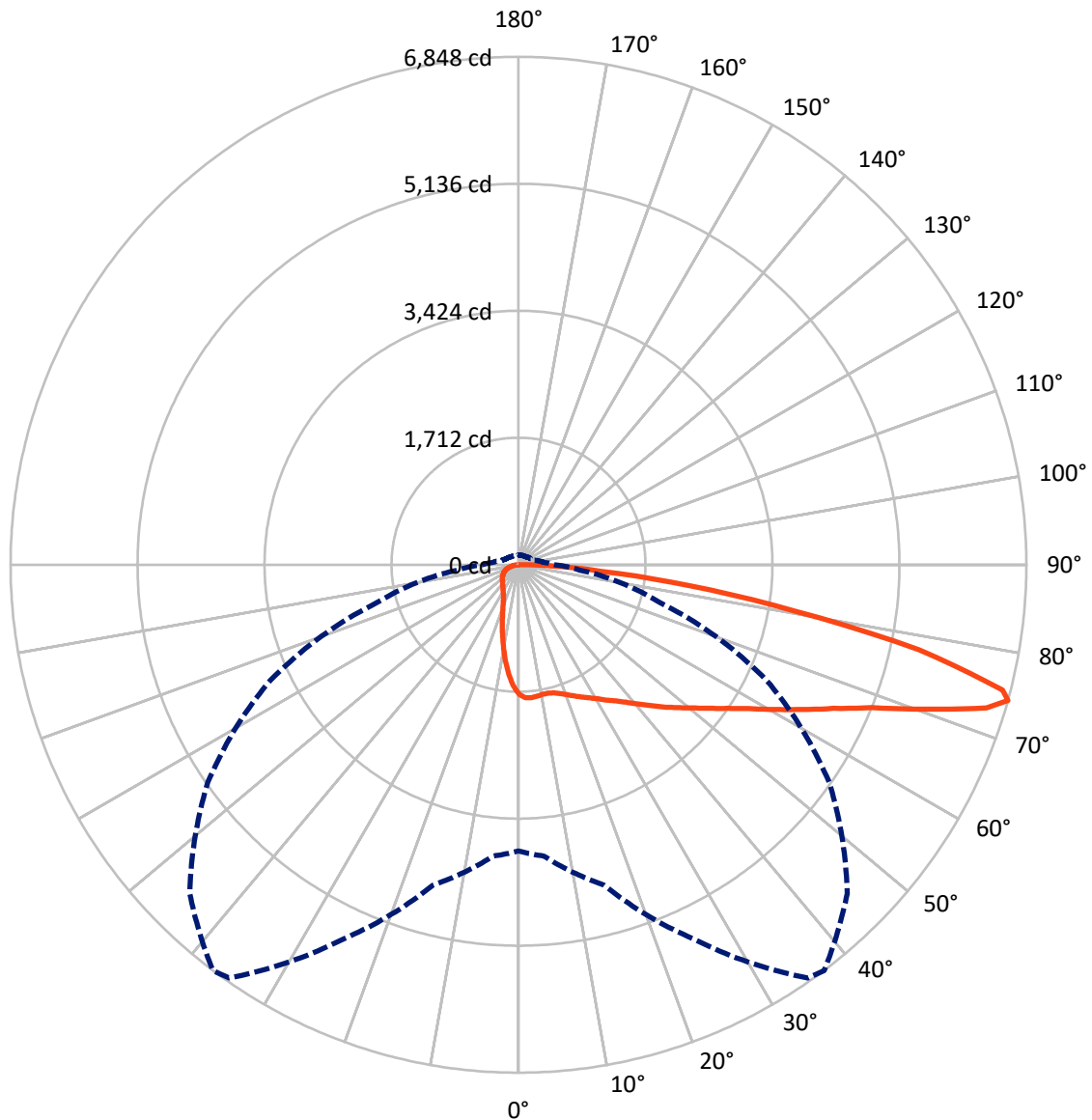
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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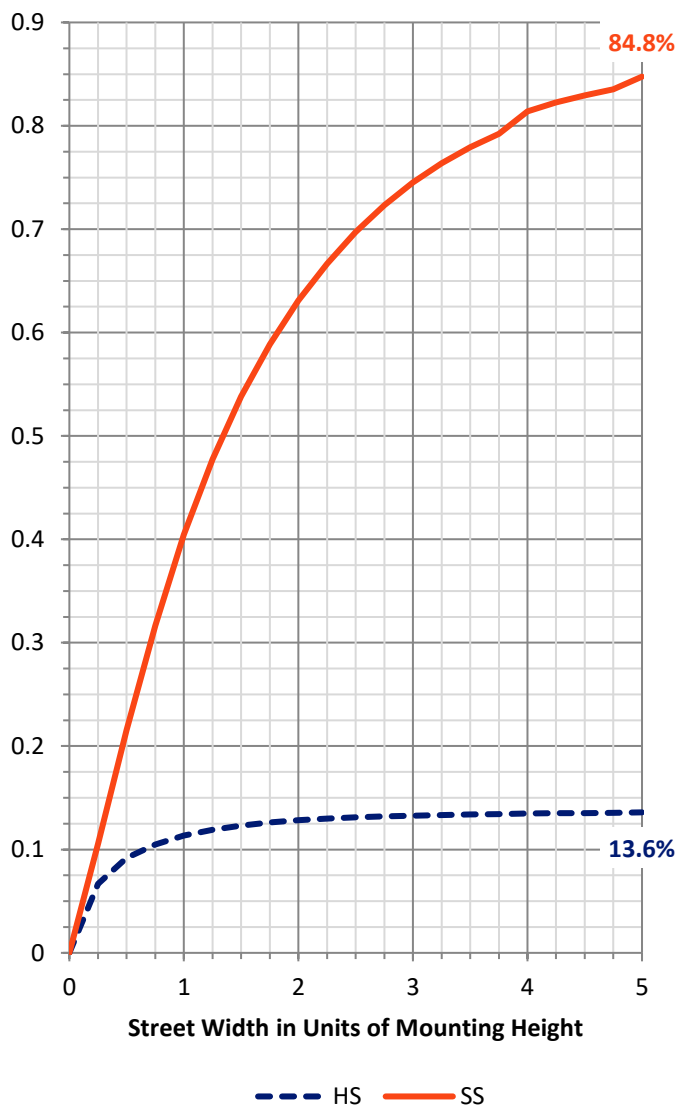
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1367.4	0.0	1367.4
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	8570.6	0.0	8570.6
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	9938.0	0.0	9938.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.2	1.6
10°-20°	395.2	4.0
20°-30°	609.0	6.1
30°-40°	885.6	8.9
40°-50°	1303.4	13.1
50°-60°	1830.4	18.4
60°-70°	2316.8	23.3
70°-80°	2040.0	20.5
80°-90°	403.4	4.1
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°	9938.0	100.0
0°-180°	9938.0	100.0

**Coefficient of Utilization**



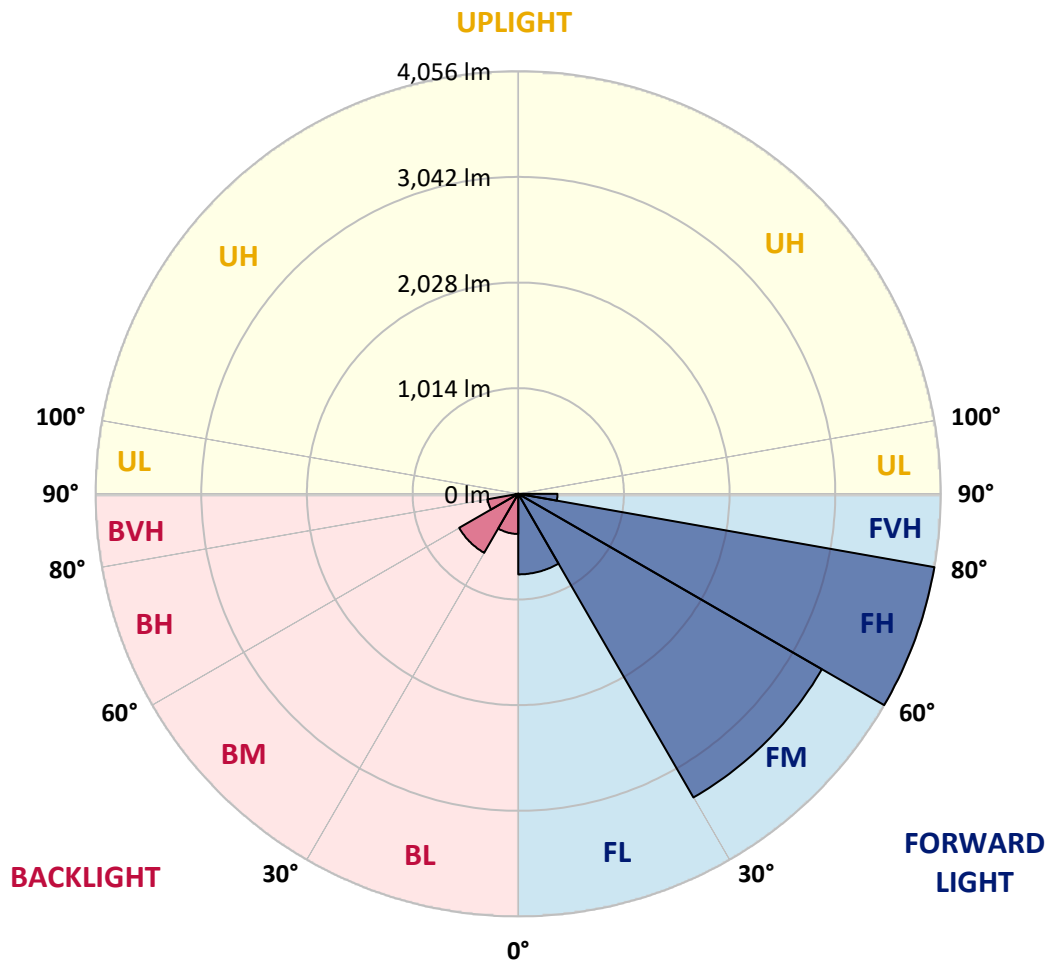
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	773.3	7.8			
FM (30°-60°)	3365.1	33.9			
FH (60°-80°)	4056.2	40.8			G2/5000
FVH (80°-90°)	376.0	3.8			G3/500
BL (0°-30°)	385.2	3.9	B1/500		
BM (30°-60°)	654.4	6.6	B1/1000		
BH (60°-80°)	300.6	3.0	B1/500		G1/500
BVH (80°-90°)	27.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1751.0	1751.0	1751.0	1751.0	1751.0	1751.0	1751.0	1751.0	1751.0	1751.0	1751.0
2.5°	1810.9	1811.2	1810.9	1808.1	1801.4	1795.8	1791.3	1784.6	1769.9	1758.7	1741.9
5°	1828.1	1826.0	1824.6	1819.3	1808.8	1802.5	1793.7	1781.1	1757.0	1734.6	1707.3
7.5°	1820.0	1817.5	1814.4	1808.1	1796.2	1790.9	1778.7	1762.2	1733.2	1703.8	1664.6
10°	1795.1	1794.4	1793.0	1791.6	1781.5	1777.3	1766.1	1748.6	1719.9	1684.2	1638.3
12.5°	1767.5	1769.2	1774.8	1782.2	1777.6	1775.5	1768.5	1756.6	1727.2	1688.7	1633.4
15°	1750.0	1754.9	1769.9	1789.2	1793.0	1792.3	1790.6	1782.9	1751.7	1709.0	1644.6
17.5°	1744.0	1752.1	1780.8	1812.6	1823.9	1826.3	1827.0	1813.7	1779.0	1733.9	1656.2
20°	1754.9	1765.0	1807.0	1850.8	1868.7	1870.1	1866.9	1843.8	1804.9	1755.2	1662.5
22.5°	1787.8	1796.9	1849.4	1898.8	1919.1	1921.2	1911.7	1876.7	1832.3	1780.4	1671.2
25°	1851.2	1862.4	1914.9	1964.2	1974.7	1975.1	1961.4	1918.0	1868.0	1815.8	1690.1
27.5°	1933.8	1945.0	1992.2	2040.5	2034.9	2031.8	2013.2	1969.8	1914.5	1864.5	1723.7
30°	2025.8	2038.1	2082.9	2117.2	2103.9	2097.6	2082.6	2026.5	1979.3	1931.0	1775.2
32.5°	2121.1	2132.3	2171.5	2194.9	2178.1	2175.3	2152.6	2101.5	2063.6	2032.5	1858.5
35°	2218.7	2226.8	2265.3	2278.6	2256.2	2255.5	2249.2	2202.3	2178.5	2193.2	1979.6
37.5°	2318.5	2320.6	2353.5	2354.2	2347.6	2350.4	2357.0	2327.6	2334.2	2380.1	2137.2
40°	2407.4	2413.0	2436.8	2444.2	2455.7	2465.5	2498.8	2479.5	2531.0	2612.2	2333.2
42.5°	2473.2	2484.1	2522.2	2541.1	2578.6	2594.0	2640.9	2658.8	2762.4	2884.2	2566.3
45°	2528.9	2545.7	2607.0	2645.8	2709.2	2736.1	2803.3	2863.2	3023.9	3179.3	2811.7
47.5°	2589.1	2610.5	2687.1	2761.3	2847.4	2877.9	3000.1	3089.7	3302.9	3476.2	3043.1
50°	2677.7	2694.1	2769.0	2885.6	2993.1	3032.3	3201.4	3329.8	3586.4	3759.0	3243.7
52.5°	2801.2	2794.9	2858.3	3021.8	3166.0	3214.3	3416.3	3585.4	3873.8	4014.9	3413.2
55°	2925.5	2915.0	2959.5	3164.3	3367.6	3418.4	3653.0	3842.0	4147.2	4245.3	3543.0
57.5°	3063.8	3043.8	3081.3	3324.9	3597.3	3657.9	3918.0	4114.7	4416.1	4431.5	3625.6
60°	3206.3	3179.3	3221.3	3524.1	3888.9	3960.3	4228.1	4380.7	4669.5	4580.6	3652.3
62.5°	3330.9	3312.0	3376.8	3746.4	4217.6	4296.0	4532.7	4663.6	4919.5	4642.6	3556.3
65°	3439.8	3442.9	3554.9	3996.4	4584.1	4667.8	4882.0	5012.3	5116.2	4605.8	3331.9
67.5°	3569.6	3587.5	3778.6	4325.4	5045.5	5137.2	5390.3	5392.4	5226.2	4390.2	2890.2
70°	3759.0	3795.8	4086.3	4781.9	5701.5	5827.6	6022.9	5615.8	5071.8	3805.6	2274.0
72.5°	3927.1	3995.7	4413.6	5304.2	6501.1	6596.7	6392.9	5487.0	4426.6	2852.0	1416.7
74°	3858.8	3943.9	4473.2	5561.5	6802.2	6848.0	6268.0	5111.0	3690.8	1975.1	823.4
75°	3711.8	3804.2	4386.3	5559.1	6764.0	6738.4	5966.2	4681.5	3039.6	1347.1	547.9
77.5°	2995.5	3093.2	3696.0	4764.4	5546.1	5522.0	4583.1	3140.5	1331.3	441.8	278.3
80°	1741.6	1816.1	2294.3	3025.6	3739.8	3783.5	3014.1	1553.9	523.7	248.2	188.7
82.5°	773.6	825.1	1108.3	1544.5	2256.9	2313.2	1578.5	814.3	323.5	150.9	113.4
85°	507.6	545.8	672.8	735.5	1074.7	1113.2	772.6	634.0	213.5	83.0	83.3
87.5°	365.1	401.9	499.9	436.5	493.2	467.0	420.4	586.7	85.8	47.3	28.0
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°	1751.0	1751.0	1751.0	1751.0	1751.0	1751.0	1751.0	1751.0	1751.0	1751.0	1751.0
2.5°	1734.6	1729.0	1716.4	1692.6	1679.3	1668.1	1649.5	1638.7	1633.8	1633.4	1635.5
5°	1691.5	1678.6	1646.0	1606.1	1574.3	1545.2	1509.1	1487.4	1472.0	1462.9	1465.4
7.5°	1641.5	1621.2	1570.1	1506.3	1455.2	1398.9	1343.2	1310.0	1284.0	1264.8	1268.3
10°	1607.2	1579.2	1504.6	1412.9	1327.8	1245.9	1169.2	1123.4	1087.0	1059.0	1061.1
12.5°	1595.6	1557.8	1454.5	1332.0	1212.6	1100.6	1000.5	930.1	892.7	860.8	863.3
15°	1597.4	1546.6	1412.5	1259.2	1109.0	967.9	846.5	764.2	713.4	691.4	691.7
17.5°	1598.8	1533.6	1368.4	1181.1	1006.4	844.0	712.0	628.7	580.8	560.5	560.8
20°	1594.2	1512.6	1313.8	1091.5	899.3	730.2	602.5	531.8	495.3	479.6	479.6
22.5°	1588.3	1487.8	1252.2	1001.5	793.6	631.5	524.1	470.1	449.1	438.6	438.3
25°	1591.1	1469.2	1189.2	909.1	696.3	552.8	471.9	436.2	422.2	415.5	415.2
27.5°	1606.1	1460.5	1131.1	817.1	611.2	493.6	436.9	411.7	402.6	398.4	398.4
30°	1633.4	1460.5	1070.5	738.6	540.5	449.8	409.9	392.8	386.5	383.7	383.7
32.5°	1681.0	1468.5	1012.0	660.9	484.1	415.5	387.5	376.0	371.1	369.7	369.7
35°	1762.9	1495.8	955.0	587.4	438.6	387.5	366.2	359.5	356.0	355.7	356.7
37.5°	1878.1	1551.5	901.4	533.2	406.4	364.8	348.3	343.1	341.0	342.7	344.1
40°	2023.0	1627.1	852.8	484.1	381.9	346.6	331.9	328.4	327.3	329.8	331.9
42.5°	2198.1	1729.3	812.9	448.8	363.0	331.2	317.9	313.7	312.6	315.4	318.2
45°	2387.5	1839.3	784.9	422.5	348.3	319.6	305.6	301.1	299.0	300.4	303.5
47.5°	2559.7	1943.2	773.6	404.0	334.3	309.8	294.8	289.2	285.7	285.0	287.4
50°	2705.0	2020.6	778.9	392.8	323.1	299.0	284.3	278.0	272.7	269.6	271.3
52.5°	2810.7	2069.2	783.8	387.9	314.4	287.1	272.7	266.8	259.8	254.5	254.5
55°	2887.4	2080.5	772.9	384.0	307.7	274.1	259.8	254.1	247.1	241.2	240.5
57.5°	2917.5	2048.9	732.7	378.4	303.2	261.9	246.1	241.9	235.9	228.9	228.6
60°	2876.9	1951.6	655.0	366.5	297.2	251.7	232.4	229.6	226.8	220.2	219.8
62.5°	2713.7	1738.1	554.5	342.4	285.3	240.8	219.8	221.2	221.6	217.0	216.3
65°	2417.9	1444.7	456.5	310.9	267.5	227.9	206.9	213.5	217.4	216.7	215.6
67.5°	1988.0	1124.4	386.8	277.6	244.0	210.0	192.9	200.6	203.7	206.2	205.5
70°	1475.5	792.9	320.0	242.6	215.6	189.0	174.7	178.5	176.4	179.2	180.3
72.5°	822.7	475.7	260.8	207.6	186.2	164.5	154.4	153.7	149.1	149.1	149.1
74°	493.6	349.0	229.3	185.9	168.4	148.4	139.7	136.5	132.3	132.7	132.3
75°	397.0	300.0	210.4	171.5	155.8	139.0	130.2	126.0	122.9	122.9	122.5
77.5°	250.6	227.9	169.4	136.5	124.6	114.5	108.5	102.9	102.9	102.6	102.2
80°	189.4	181.3	132.0	103.3	95.6	87.9	84.0	81.6	81.6	82.6	82.3
82.5°	129.9	136.5	92.8	72.1	68.3	62.7	62.0	62.3	61.3	59.9	59.5
85°	94.9	102.6	62.7	45.5	41.7	38.2	41.0	42.4	40.6	37.5	36.1
87.5°	36.4	67.2	33.6	18.9	17.5	15.1	17.5	18.2	19.6	15.4	15.8
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)