

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: P382900

Luminaire Tested: **GLEON-SA2C-735-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382900  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2C-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10369.1 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

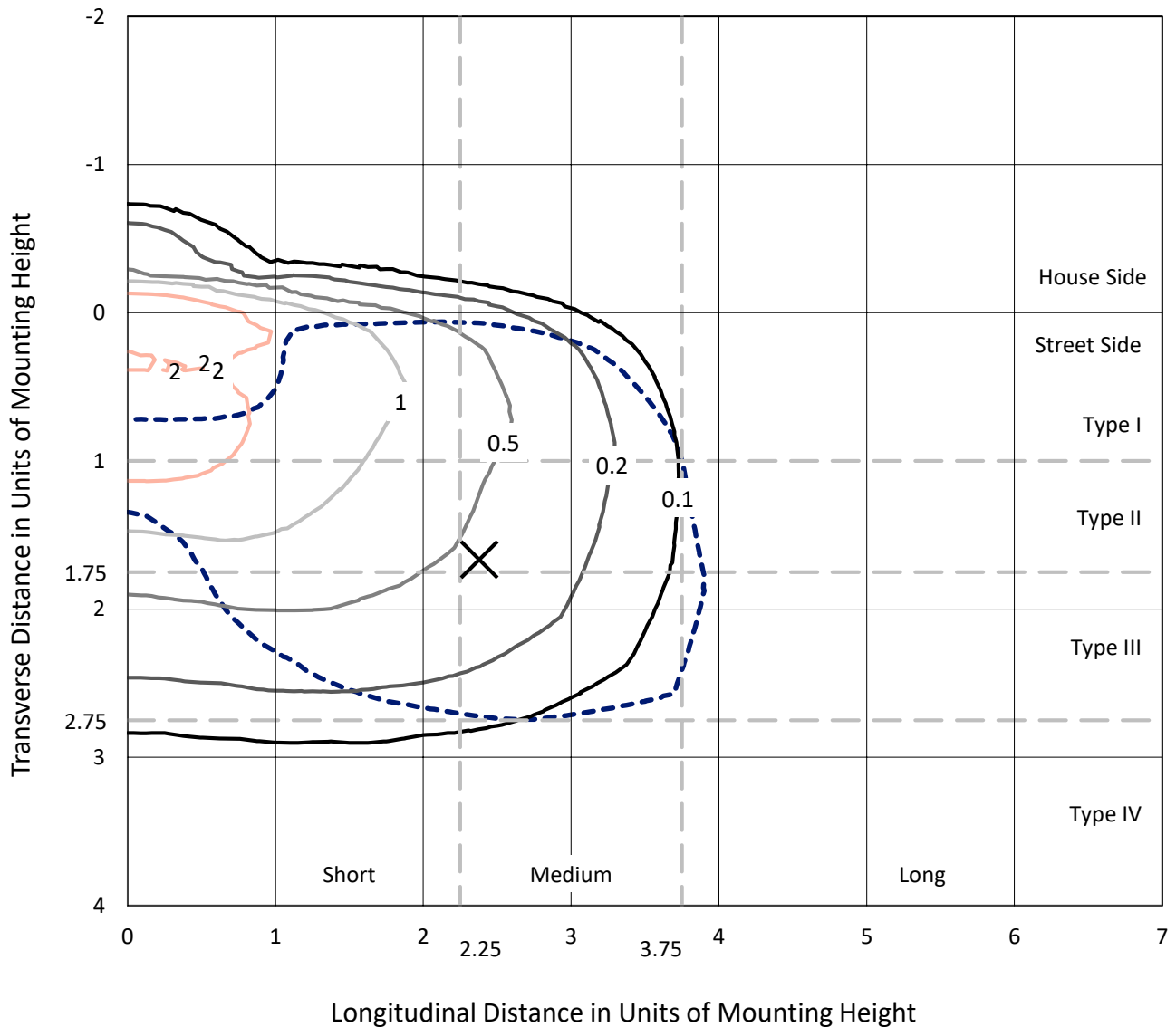
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

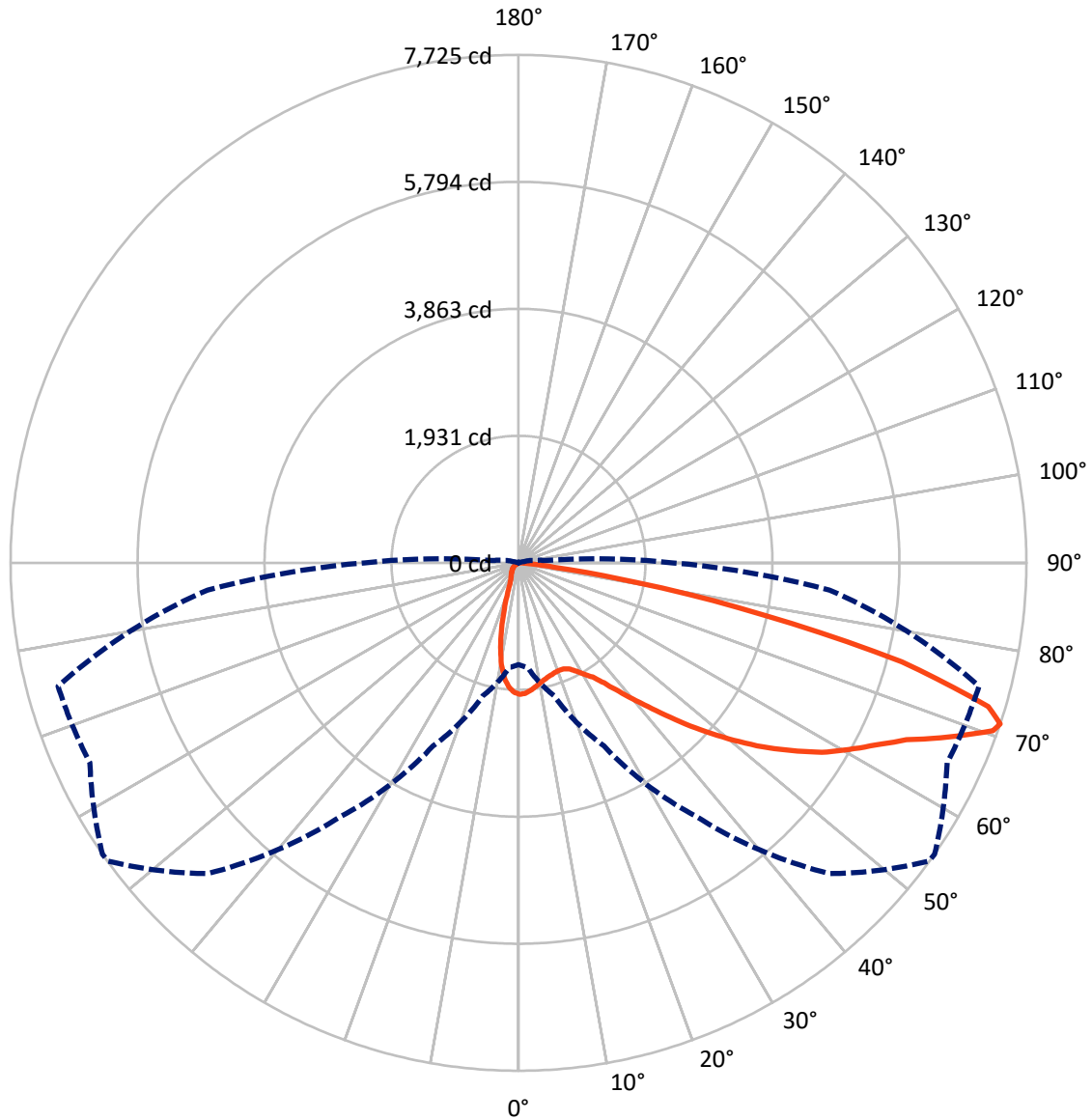
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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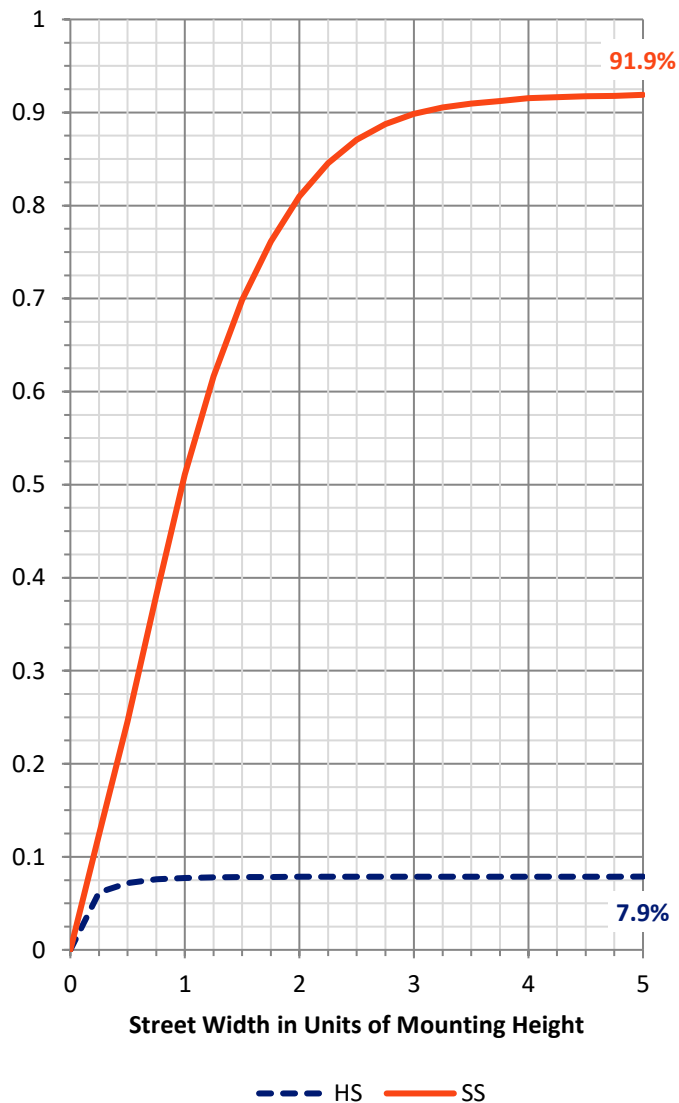
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	821.0	0.0	821.0
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	9548.1	0.0	9548.1
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	10369.1	0.0	10369.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.5	1.6
10°-20°	384.9	3.7
20°-30°	618.6	6.0
30°-40°	1051.0	10.1
40°-50°	1631.3	15.7
50°-60°	2193.2	21.2
60°-70°	2683.0	25.9
70°-80°	1568.7	15.1
80°-90°	67.8	0.7
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°	10369.1	100.0
0°-180°	10369.1	100.0

**Coefficient of Utilization**

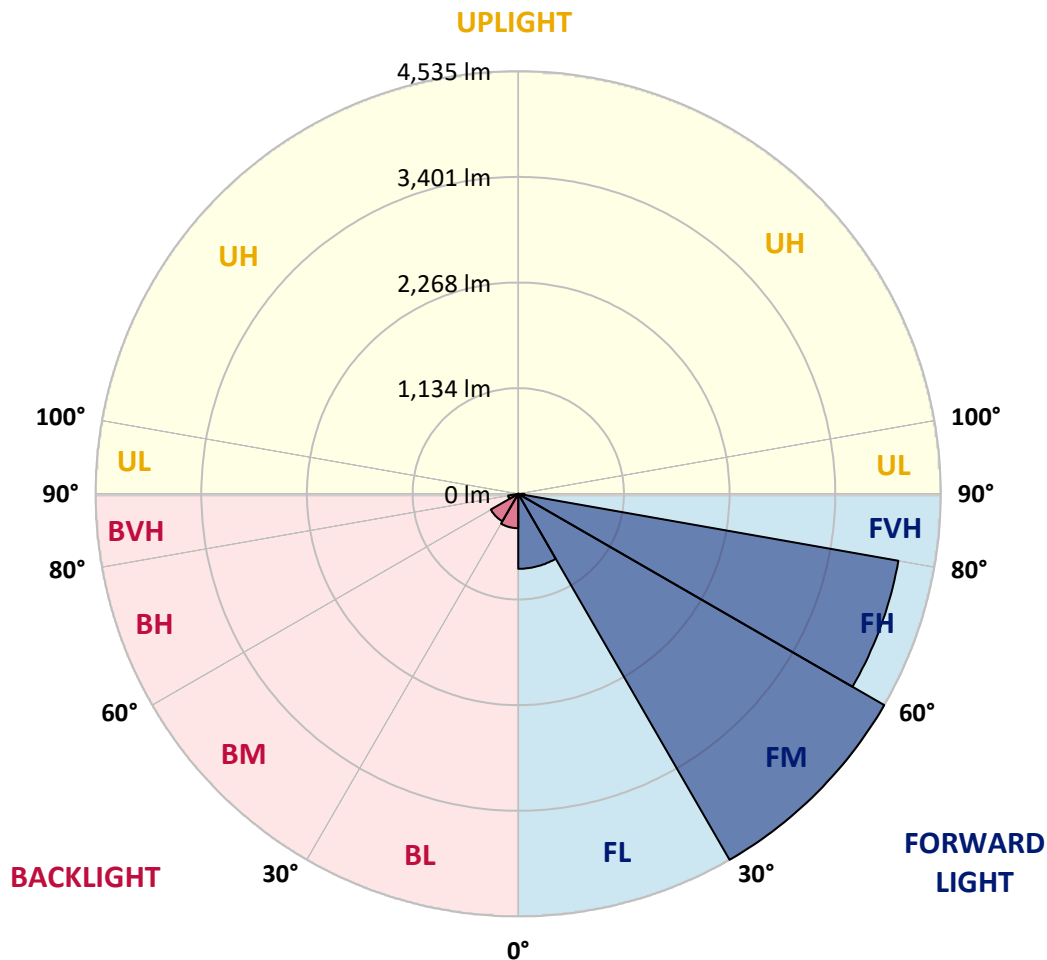


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	804.5	7.8			
FM (30°-60°)	4535.1	43.7			
FH (60°-80°)	4141.8	39.9			G2/5000
FVH (80°-90°)	66.7	0.6			G1/100
BL (0°-30°)	369.5	3.6	B1/500		
BM (30°-60°)	340.4	3.3	B1/1000		
BH (60°-80°)	110.0	1.1	B0/110		G0/110
BVH (80°-90°)	1.1	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-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1999.8	1999.8	1999.8	1999.8	1999.8	1999.8	1999.8	1999.8	1999.8	1999.8	1999.8
2.5°	1941.1	1943.4	1951.8	1955.5	1964.4	1979.3	1986.7	1987.2	1999.3	2003.9	2007.6
5°	1803.7	1817.6	1831.6	1846.5	1873.5	1909.4	1944.8	1948.1	1987.2	2016.0	2031.3
7.5°	1685.4	1698.0	1714.8	1738.5	1776.6	1833.0	1892.2	1899.1	1973.2	2038.8	2073.3
10°	1563.9	1574.1	1598.3	1633.3	1685.9	1761.4	1840.9	1852.6	1960.6	2069.5	2130.1
12.5°	1434.0	1440.1	1469.4	1519.7	1597.0	1692.9	1797.6	1813.0	1952.7	2104.9	2197.1
15°	1335.3	1338.1	1366.0	1418.2	1506.7	1631.4	1764.2	1782.7	1954.6	2147.3	2270.2
17.5°	1310.1	1311.5	1326.4	1362.3	1440.5	1576.5	1737.6	1760.4	1960.2	2188.8	2343.8
20°	1412.1	1402.4	1387.0	1381.4	1414.9	1543.4	1721.8	1747.4	1967.6	2225.6	2409.9
22.5°	1692.0	1663.1	1599.3	1514.1	1462.4	1545.7	1726.0	1751.6	1991.4	2270.6	2486.2
25°	2107.3	2067.2	1958.8	1791.1	1630.0	1612.8	1760.9	1786.9	2037.4	2324.7	2559.3
27.5°	2579.8	2540.2	2407.6	2168.3	1893.6	1745.5	1840.9	1865.1	2105.9	2372.7	2615.2
30°	3032.4	3021.2	2864.8	2592.9	2225.1	1960.6	1944.3	1964.8	2156.6	2401.5	2659.5
32.5°	3416.1	3398.4	3272.6	3008.2	2604.5	2219.0	2065.8	2071.9	2194.8	2438.8	2717.1
35°	3771.7	3749.9	3639.6	3389.5	2993.7	2534.6	2252.9	2244.1	2278.1	2513.7	2801.0
37.5°	4082.3	4102.3	3979.9	3741.9	3343.0	2862.9	2505.3	2478.8	2408.5	2635.7	2922.5
40°	4342.1	4342.1	4278.3	4080.0	3720.0	3202.3	2790.7	2755.8	2604.5	2823.8	3076.6
42.5°	4435.7	4455.7	4479.4	4367.3	4057.6	3555.3	3108.8	3072.4	2880.6	3090.6	3271.2
45°	4441.2	4472.9	4594.5	4594.0	4362.6	3905.8	3467.2	3450.0	3234.4	3433.2	3512.4
47.5°	4362.6	4402.1	4602.4	4716.0	4604.3	4232.2	3859.3	3837.9	3650.3	3853.3	3764.8
50°	4241.1	4284.8	4517.6	4763.9	4768.6	4516.2	4272.3	4240.1	4107.9	4333.3	4025.5
52.5°	4023.6	4108.4	4441.7	4775.1	4876.6	4761.6	4665.2	4651.2	4620.0	4795.6	4233.1
55°	3558.5	3652.6	4251.3	4778.8	4976.7	4979.0	5033.5	5037.3	5100.0	5227.7	4387.7
57.5°	3338.8	3391.9	3918.8	4796.5	5125.2	5225.8	5408.8	5437.6	5535.0	5637.8	4564.2
60°	3200.4	3263.3	3755.0	4772.3	5358.4	5549.4	5756.6	5766.4	5870.6	6061.0	4803.1
62.5°	3090.1	3152.1	3651.7	4679.2	5620.6	5938.6	6096.4	6097.4	6175.6	6565.3	5074.5
65°	2817.7	2869.9	3442.5	4574.5	5793.8	6323.6	6491.3	6485.2	6549.0	7097.0	5389.7
67.5°	2423.9	2463.9	3015.6	4177.2	5728.6	6673.8	7087.2	7067.2	6989.9	7556.5	5513.6
70°	1874.0	1888.4	2376.8	3481.2	5117.7	6808.3	7663.2	7652.9	7260.4	7474.1	5059.6
71°	1549.0	1596.5	2094.7	3072.4	4708.5	6684.0	7719.0	7725.0	7192.5	7249.7	4747.2
72.5°	899.5	940.0	1518.3	2359.6	3997.6	6165.4	7429.5	7473.2	6874.9	6594.1	4054.8
75°	192.7	206.2	562.9	1142.1	2199.0	4321.2	5864.1	6020.1	5603.4	4486.0	2443.9
77.5°	134.0	144.8	241.2	518.2	726.8	2135.2	3642.8	3818.8	3347.6	1685.9	782.2
80°	106.2	118.2	188.1	256.1	196.5	688.6	1706.4	1813.9	1116.5	376.2	131.7
82.5°	59.2	70.3	146.6	138.2	75.5	130.8	477.7	540.1	223.5	75.9	31.2
85°	17.2	21.0	94.6	100.6	32.1	25.2	81.5	101.1	42.4	20.0	14.0
87.5°	0.0	0.0	45.6	38.7	9.3	3.7	7.5	8.4	8.4	8.4	9.3
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°	1999.8	1999.8	1999.8	1999.8	1999.8	1999.8	1999.8	1999.8	1999.8	1999.8	1999.8
2.5°	2007.6	2010.8	1999.3	1983.9	1967.6	1947.6	1926.6	1910.3	1909.9	1901.9	1894.0
5°	2032.3	2030.4	1998.4	1949.4	1891.7	1831.6	1774.3	1709.7	1688.2	1661.7	1652.8
7.5°	2077.9	2064.9	1997.0	1889.8	1763.2	1637.5	1507.6	1376.7	1320.8	1270.6	1261.8
10°	2135.2	2110.5	1988.1	1800.4	1568.1	1336.2	1140.2	962.4	884.1	824.1	821.3
12.5°	2194.8	2157.1	1963.4	1665.4	1312.5	986.6	760.8	585.8	520.5	478.6	482.4
15°	2257.1	2200.9	1910.3	1483.4	1021.5	669.5	467.5	364.5	338.5	327.8	330.6
17.5°	2321.0	2231.1	1836.3	1264.1	734.2	432.1	323.6	294.7	294.7	297.1	298.0
20°	2376.4	2247.4	1727.4	1018.3	497.7	314.8	283.1	278.9	281.2	285.0	285.4
22.5°	2431.3	2248.3	1585.3	769.2	348.3	275.6	269.6	267.7	269.1	273.3	273.8
25°	2476.1	2237.2	1407.5	547.1	278.0	259.8	257.0	256.1	257.0	262.1	262.1
27.5°	2494.1	2196.7	1190.5	384.5	249.1	242.1	241.2	242.1	243.5	247.2	247.7
30°	2496.0	2125.9	954.0	278.4	225.8	218.4	220.2	223.5	222.1	221.1	222.1
32.5°	2500.6	2043.9	723.5	229.1	206.2	194.6	192.3	192.3	186.7	183.4	181.6
35°	2516.0	1947.6	524.7	205.8	186.2	172.7	163.9	153.6	142.9	137.3	135.9
37.5°	2540.2	1846.5	375.7	190.4	168.5	153.1	136.4	118.2	102.9	98.7	98.7
40°	2584.5	1742.3	278.0	178.3	154.5	135.4	110.4	86.6	72.7	70.3	70.3
42.5°	2654.4	1632.4	221.6	167.6	142.4	117.4	84.3	62.9	52.6	51.2	50.8
45°	2726.9	1511.3	193.7	157.3	129.4	96.4	62.4	46.6	40.5	39.1	39.1
47.5°	2799.6	1382.3	180.2	147.6	116.9	75.0	46.6	36.8	34.0	34.0	34.5
50°	2861.1	1247.8	170.4	136.8	100.6	56.8	36.8	31.2	30.3	32.1	32.6
52.5°	2876.4	1115.5	158.3	123.3	80.6	43.3	30.3	27.5	27.5	27.5	27.5
55°	2867.1	1013.2	142.4	106.7	59.6	34.5	26.1	24.2	23.8	23.8	23.8
57.5°	2898.8	952.6	114.1	82.9	42.9	27.9	22.8	21.4	20.5	20.0	20.0
60°	2962.5	913.0	81.5	59.6	32.1	23.3	19.6	18.2	16.8	15.8	15.8
62.5°	3047.3	878.5	60.6	44.2	24.7	18.6	16.3	14.9	13.0	12.1	12.1
65°	3112.5	817.2	46.1	33.1	18.6	14.9	12.6	12.1	9.3	8.4	7.9
67.5°	3012.8	682.1	37.3	24.2	14.0	11.6	9.8	9.3	5.6	4.7	4.7
70°	2584.0	474.9	29.8	17.7	10.2	9.3	7.9	6.1	4.2	3.7	3.7
71°	2343.3	396.7	27.0	14.9	8.8	8.8	7.5	5.1	3.7	3.3	3.3
72.5°	1946.7	281.7	22.8	11.6	7.9	9.3	7.9	4.7	3.7	3.3	2.8
75°	1130.0	117.8	15.8	7.9	6.1	11.2	10.2	4.2	2.8	2.3	2.3
77.5°	339.9	43.3	8.8	5.1	4.7	9.8	11.6	3.7	1.4	0.5	0.5
80°	61.9	18.6	5.6	3.3	3.3	6.1	8.8	1.9	0.0	0.0	0.0
82.5°	21.9	9.3	3.3	1.9	1.4	2.8	4.2	0.0	0.0	0.0	0.0
85°	12.6	6.5	1.9	0.9	0.0	0.5	0.9	0.0	0.0	0.0	0.0
87.5°	8.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	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)