

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: P522639

Luminaire Tested: **GALN-SA1C-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5657 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 57
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



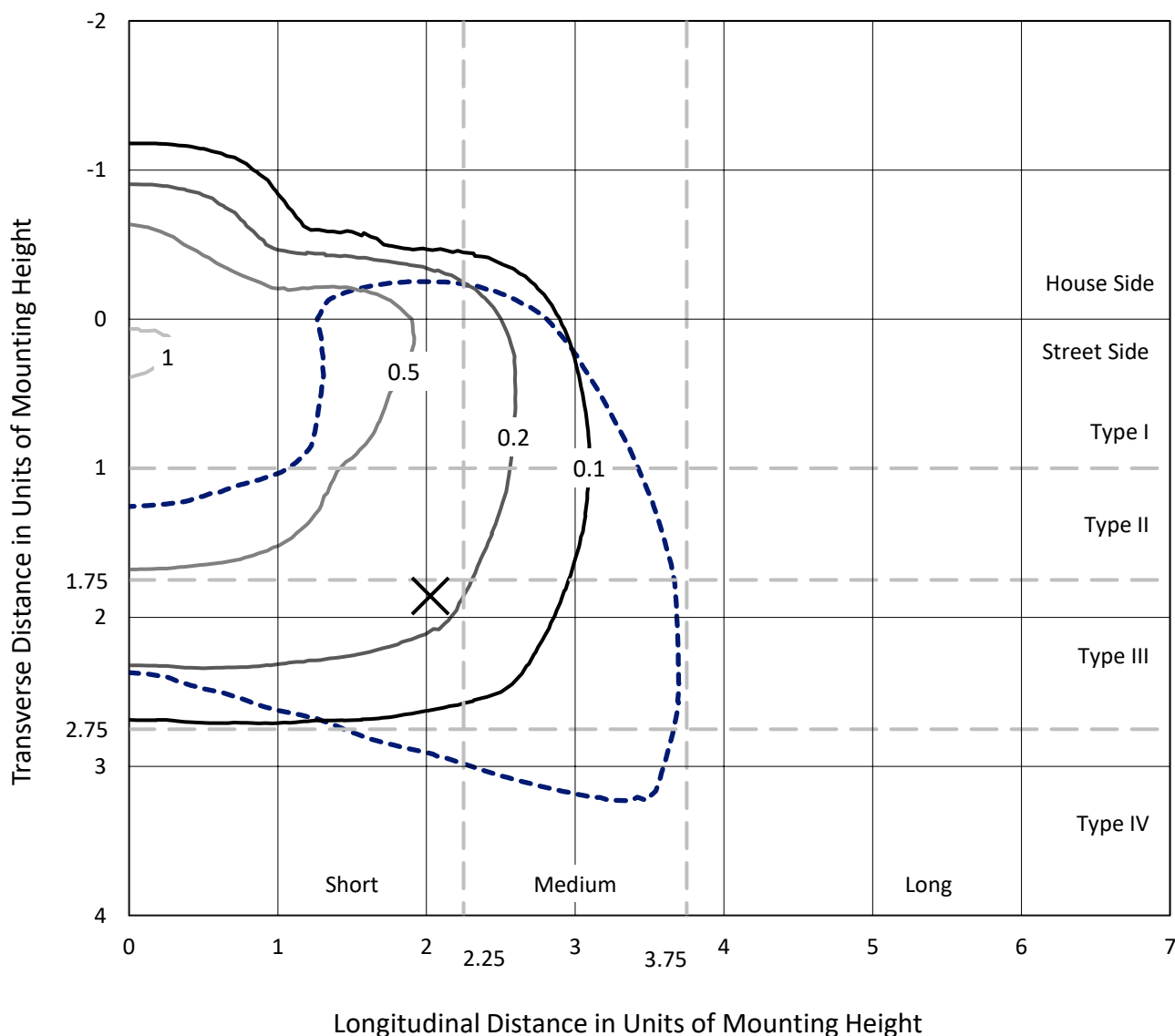
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

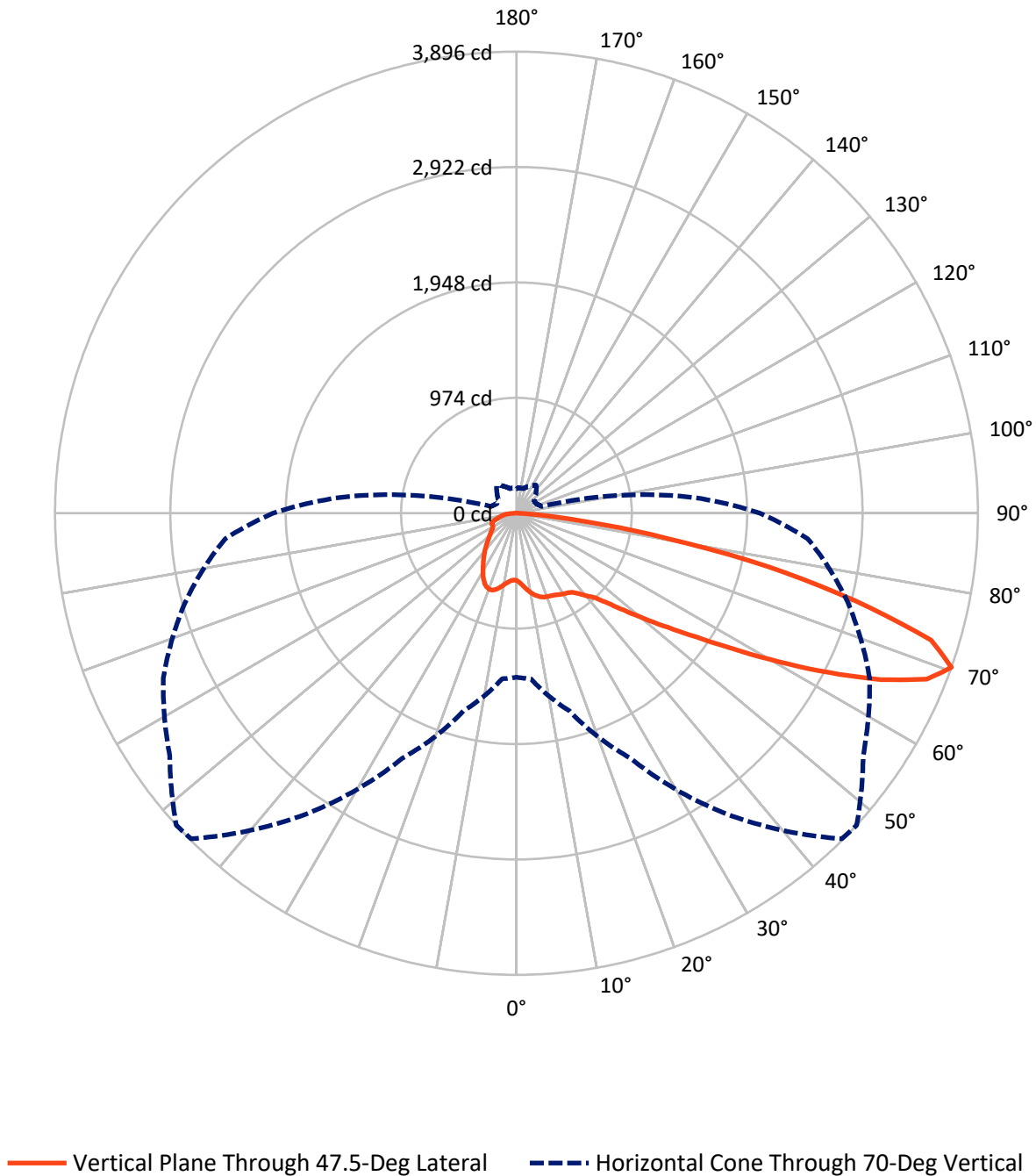


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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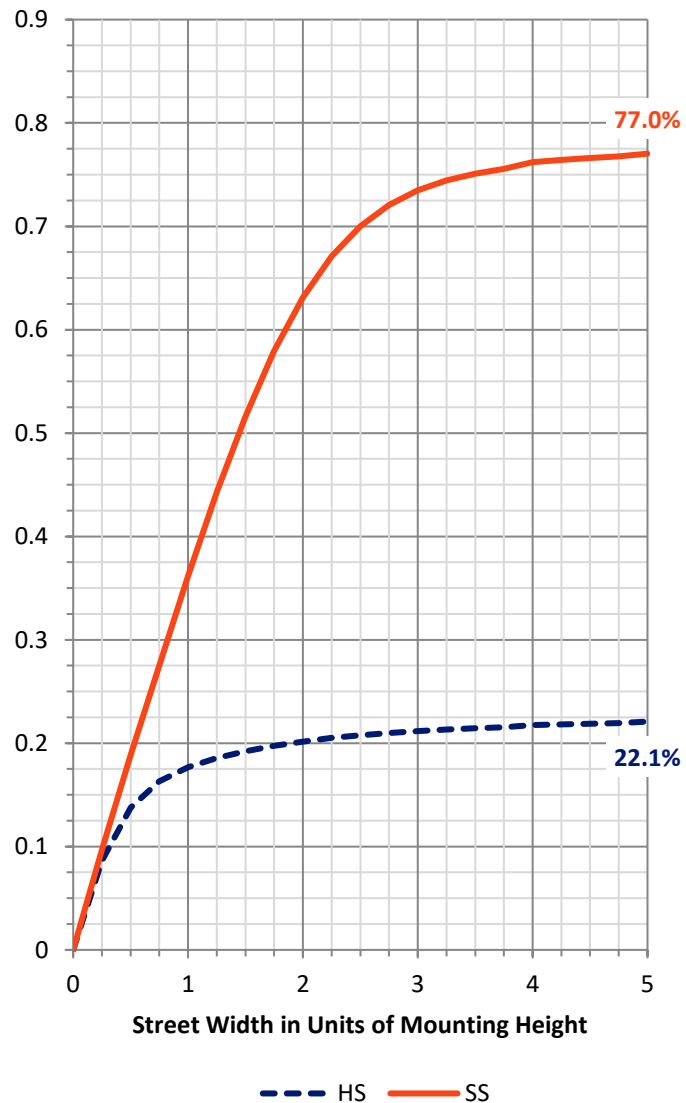
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1280.9	0.0	1280.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	4376.2	0.0	4376.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	5657.0	0.0	5657.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	1.0
10°-20°	195.7	3.5
20°-30°	325.4	5.8
30°-40°	461.3	8.2
40°-50°	680.9	12.0
50°-60°	1179.4	20.8
60°-70°	1665.9	29.4
70°-80°	957.7	16.9
80°-90°	132.1	2.3
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°	5657.0	100.0
0°-180°	5657.0	100.0

Coefficient of Utilization



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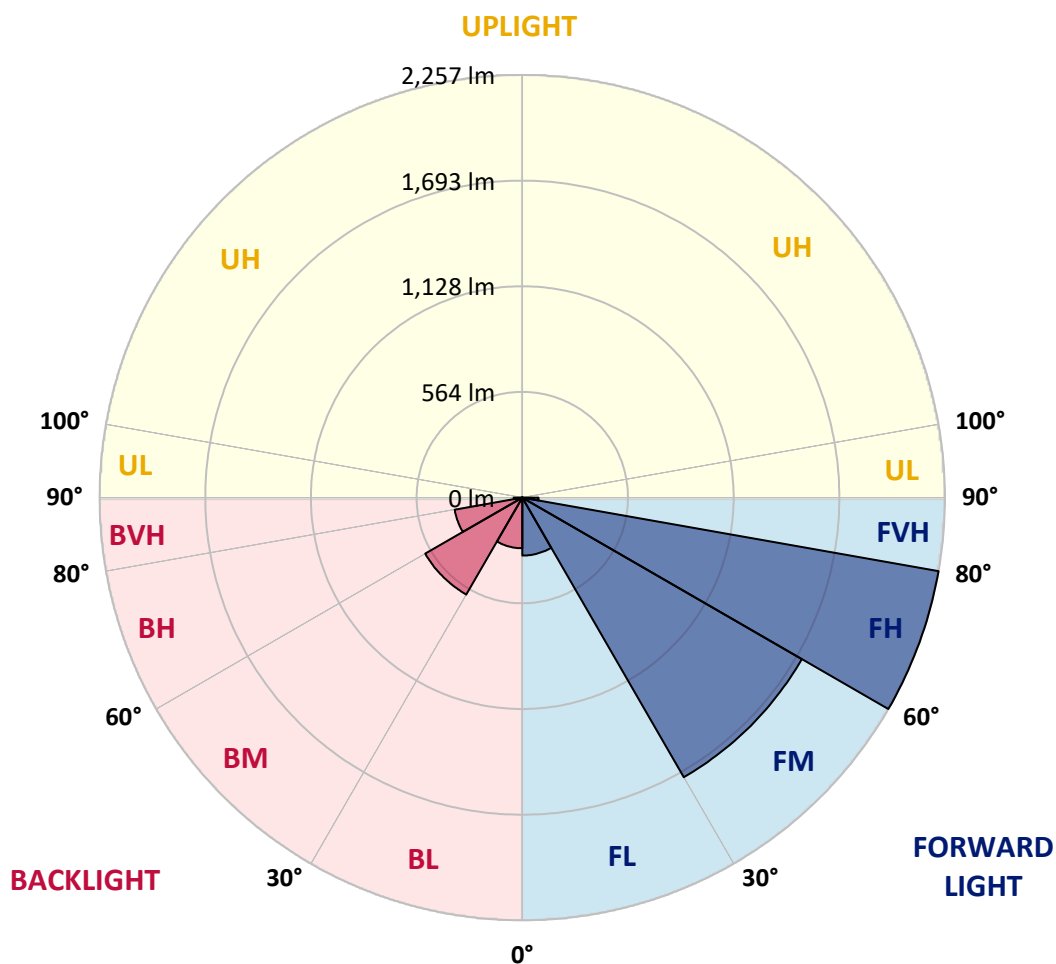
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	309.3	5.5			
FM	(30°-60°)	1723.6	30.5			
FH	(60°-80°)	2256.9	39.9			G2/5000
FVH	(80°-90°)	86.3	1.5			G1/100
BL	(0°-30°)	270.3	4.8	B1/500		
BM	(30°-60°)	598.0	10.6	B1/1000		
BH	(60°-80°)	366.7	6.5	B1/500		G1/500
BVH	(80°-90°)	45.8	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	567.9	567.9	567.9	567.9	567.9	567.9	567.9	567.9	567.9	567.9	567.9
2.5°	604.5	602.4	602.1	597.6	595.1	590.6	588.8	584.5	579.4	574.3	569.4
5°	652.0	652.0	649.9	643.6	633.6	623.3	618.8	610.6	596.0	584.2	574.3
7.5°	700.8	701.4	697.2	687.8	673.5	656.9	652.7	640.5	620.0	602.7	587.9
10°	742.9	742.9	737.1	724.4	706.5	688.4	684.1	670.5	647.5	626.0	606.6
12.5°	775.0	775.0	767.4	750.7	731.4	715.0	710.2	697.2	675.7	651.7	627.2
15°	795.8	794.3	785.9	767.1	748.3	734.1	730.8	719.9	700.2	676.0	648.4
17.5°	796.7	796.1	788.0	772.2	755.9	746.2	744.1	736.8	721.4	698.4	669.3
20°	779.2	780.4	775.0	763.8	755.9	751.6	750.7	748.3	737.4	715.9	686.9
22.5°	760.4	762.5	757.4	751.3	750.7	755.0	755.6	756.2	749.2	728.3	701.7
25°	755.9	757.4	752.2	746.8	750.1	761.3	763.8	766.2	760.7	743.2	719.3
27.5°	778.9	777.7	767.7	755.9	758.0	773.1	776.5	779.2	776.5	761.3	741.0
30°	844.0	840.0	820.1	785.5	774.6	785.2	788.6	796.1	796.1	784.9	764.7
32.5°	952.9	945.4	908.8	840.9	803.1	796.7	800.1	812.5	818.8	810.1	788.0
35°	1085.2	1077.4	1025.0	933.9	855.2	819.8	818.8	832.8	849.7	830.0	801.3
37.5°	1218.1	1210.0	1147.0	1044.7	931.2	868.2	862.7	867.6	874.8	838.8	819.8
40°	1351.0	1341.3	1286.2	1168.5	1024.1	932.4	918.1	896.3	893.3	867.6	855.5
42.5°	1482.7	1473.9	1446.1	1307.4	1135.5	995.0	973.2	935.7	947.2	931.8	921.2
45°	1615.6	1616.2	1586.5	1463.3	1269.9	1110.7	1081.3	1022.6	1049.8	1044.1	1050.1
47.5°	1733.4	1731.8	1721.2	1614.7	1436.7	1259.6	1221.8	1153.6	1200.3	1221.5	1267.8
50°	1847.5	1846.6	1847.2	1786.3	1630.4	1436.7	1394.9	1323.5	1428.5	1502.1	1585.0
52.5°	2010.9	2016.1	1979.5	1963.4	1865.9	1645.9	1599.9	1526.0	1698.2	1814.2	1976.1
55°	2175.0	2170.8	2142.0	2158.7	2112.4	1893.5	1845.4	1786.6	1998.5	2125.4	2368.8
57.5°	2271.6	2273.1	2302.5	2383.9	2416.6	2202.3	2158.7	2113.3	2336.1	2426.0	2718.1
60°	2358.5	2365.4	2449.9	2603.7	2692.4	2581.6	2542.8	2498.6	2645.7	2681.5	3021.4
62.5°	2385.7	2407.2	2554.6	2784.7	2961.2	3009.6	2961.5	2864.0	2940.6	2926.7	3226.9
65°	2249.8	2279.1	2543.4	2852.5	3201.2	3415.8	3385.3	3204.2	3191.8	3108.0	3260.6
67.5°	1892.0	1921.3	2260.7	2710.2	3300.5	3767.6	3737.0	3452.5	3344.4	3124.9	3006.3
70°	1384.3	1402.8	1727.3	2281.9	3101.0	3885.7	3896.3	3573.6	3289.9	2894.6	2468.3
72.5°	797.7	838.5	1065.9	1605.3	2533.4	3587.2	3660.7	3321.7	2945.4	2414.8	1725.8
75°	343.0	343.9	492.8	885.4	1715.8	2883.4	2954.5	2753.5	2313.1	1669.8	921.5
77.5°	163.2	166.2	216.7	395.3	944.5	1992.2	2184.1	1945.3	1479.4	802.2	348.1
80°	106.0	108.1	132.6	196.2	463.2	1155.2	1289.0	1122.2	652.7	286.7	150.1
82.5°	64.2	64.8	88.7	119.9	254.9	523.1	616.6	487.1	278.5	171.6	88.4
85°	39.1	39.4	53.9	74.2	154.7	180.7	185.6	184.1	163.5	112.3	47.2
87.5°	18.8	19.4	27.8	35.1	60.8	56.0	53.0	61.5	77.2	60.5	20.3
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°	567.9	567.9	567.9	567.9	567.9	567.9	567.9	567.9	567.9	567.9	567.9
2.5°	567.3	566.4	564.3	563.4	562.7	563.1	562.7	562.7	563.1	563.1	563.1
5°	570.0	568.5	565.2	565.2	567.0	571.2	575.2	578.2	581.5	581.2	581.2
7.5°	581.8	579.1	575.2	576.4	580.9	587.6	594.5	601.2	607.9	608.5	608.2
10°	599.1	596.4	592.1	593.6	600.9	610.9	619.7	629.3	636.6	638.7	638.1
12.5°	618.8	613.3	609.7	613.9	625.4	638.7	647.2	654.5	659.6	662.6	661.4
15°	638.7	633.6	629.3	638.1	652.0	664.5	668.7	669.9	670.8	673.8	673.2
17.5°	658.1	651.1	649.6	661.1	674.5	679.9	677.5	672.3	668.4	670.8	670.5
20°	675.4	669.9	669.3	680.8	686.0	680.8	670.5	661.4	654.5	655.1	654.8
22.5°	691.7	687.5	688.1	692.9	684.7	667.2	650.2	637.8	630.3	631.8	632.7
25°	709.9	705.6	707.1	699.3	672.3	641.8	617.2	606.6	603.6	606.6	608.8
27.5°	733.5	730.8	729.8	699.6	650.2	604.2	576.4	572.4	575.2	581.8	585.1
30°	758.9	758.9	754.1	694.4	620.0	559.1	534.9	535.5	544.9	554.3	557.6
32.5°	783.4	788.6	773.4	680.5	580.9	515.2	496.8	497.4	505.5	517.0	520.1
35°	803.7	818.5	790.1	655.1	534.9	478.3	464.4	456.2	456.5	465.3	467.7
37.5°	831.6	859.1	799.8	617.2	485.9	446.8	431.1	416.8	407.5	403.8	403.8
40°	880.0	920.6	802.2	561.2	439.5	416.8	394.4	377.5	359.3	343.0	339.9
42.5°	962.0	1013.2	797.4	496.8	397.8	383.8	362.0	341.2	316.0	293.0	291.2
45°	1107.3	1133.7	784.3	429.9	360.5	352.1	330.9	308.2	281.5	260.9	259.4
47.5°	1340.1	1302.9	767.1	370.5	326.6	324.2	307.9	281.5	254.9	240.7	239.1
50°	1680.1	1569.3	764.7	327.5	299.4	300.6	287.3	263.1	239.8	227.9	226.1
52.5°	2089.3	1891.1	780.7	297.3	275.5	280.0	273.4	251.0	230.4	220.4	218.6
55°	2486.5	2180.5	790.4	273.7	253.1	261.5	262.5	243.7	224.9	214.9	213.7
57.5°	2808.9	2398.4	747.4	252.2	233.7	246.7	253.4	239.4	222.2	214.6	213.4
60°	3033.2	2501.3	625.1	233.1	219.5	234.9	250.0	239.8	228.9	229.8	230.4
62.5°	3104.7	2455.6	468.9	218.9	209.8	231.0	255.5	252.2	241.0	247.9	249.1
65°	2986.3	2266.7	339.9	207.7	201.3	233.7	271.8	261.2	236.7	241.9	241.9
67.5°	2590.0	1952.8	264.6	197.4	191.6	238.8	288.2	260.3	226.7	232.8	227.3
70°	2054.5	1510.6	220.4	185.9	181.3	231.3	289.7	251.0	214.9	216.1	205.8
72.5°	1363.4	993.2	189.5	175.0	165.6	208.0	277.3	238.8	203.4	196.5	186.2
75°	668.1	495.2	165.3	161.3	145.0	181.0	260.3	227.3	191.0	180.1	174.4
77.5°	258.8	210.7	141.1	144.1	126.2	159.5	237.9	211.0	174.7	159.8	155.3
80°	125.6	119.6	115.6	120.2	103.8	135.9	217.3	196.8	159.5	143.2	136.5
82.5°	78.1	73.9	88.7	93.5	79.9	124.1	206.1	184.7	140.5	118.7	113.2
85°	39.7	42.4	59.3	63.9	57.2	98.7	169.8	138.6	101.4	84.2	84.8
87.5°	15.1	20.3	31.2	33.6	30.6	52.1	93.5	80.8	65.1	44.2	40.9
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)