

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: P450602

Luminaire Tested: **GALN-SA1B-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3745 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

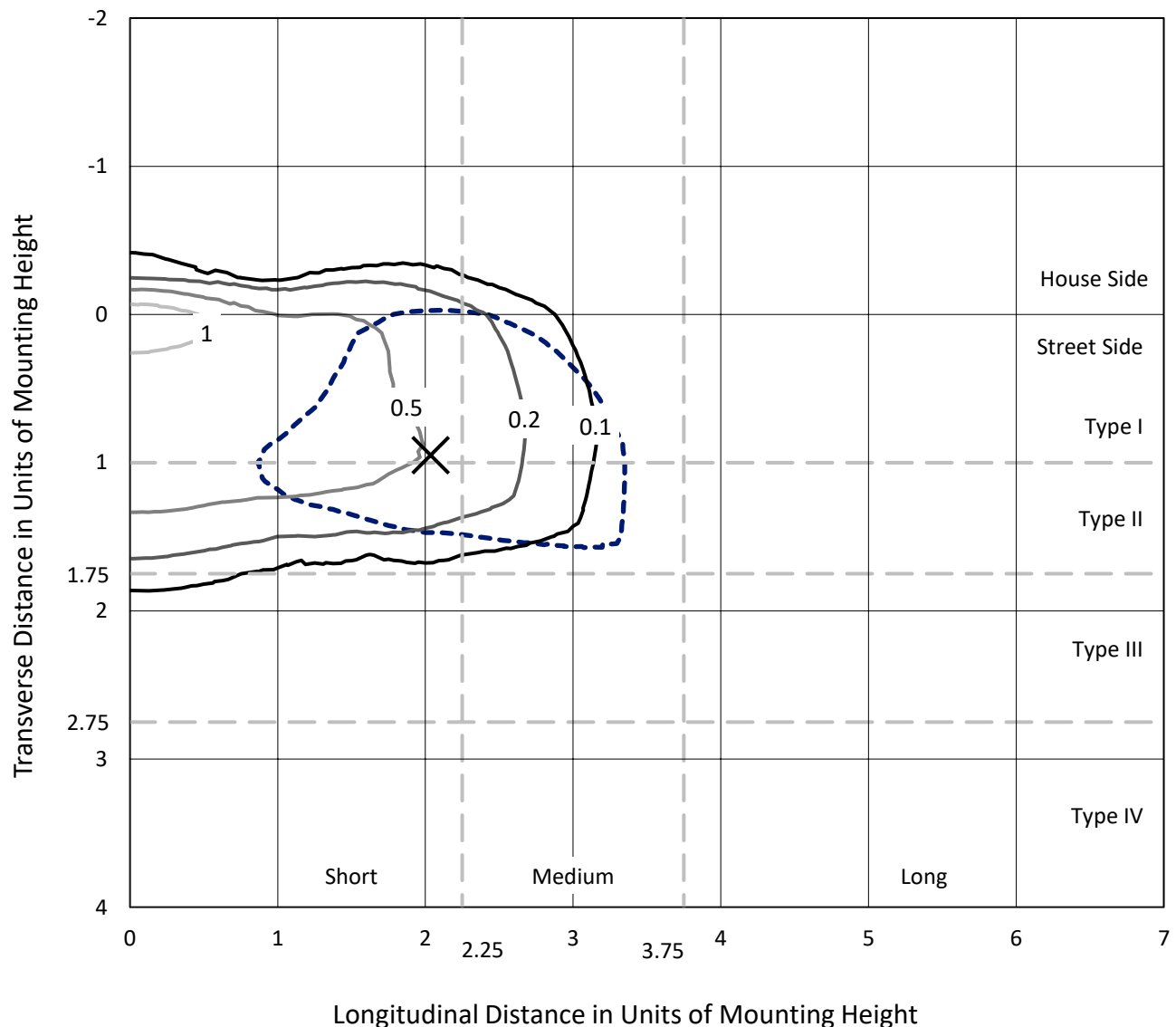


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Iso-Footcandle Lines of Horizontal Illumination

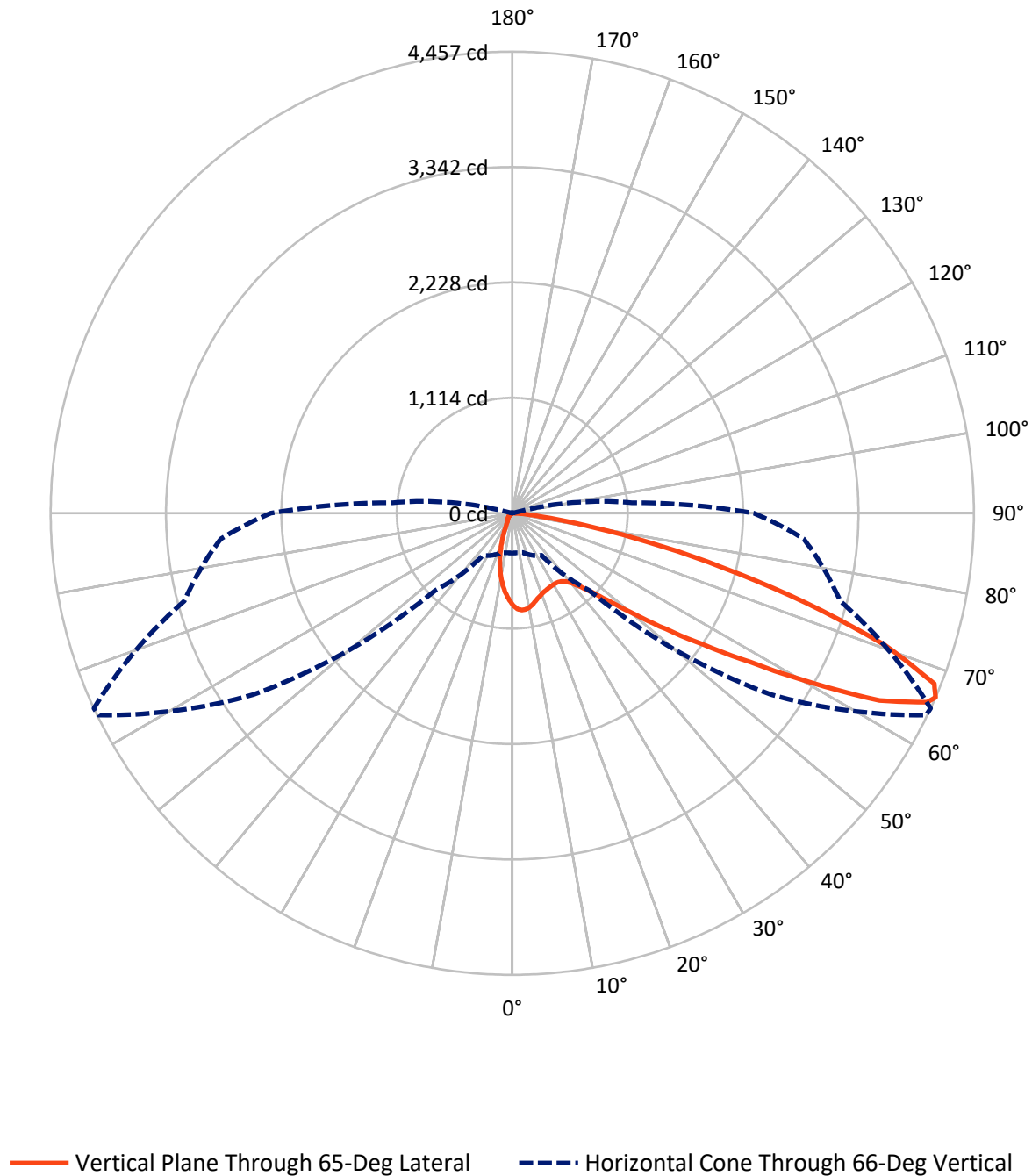
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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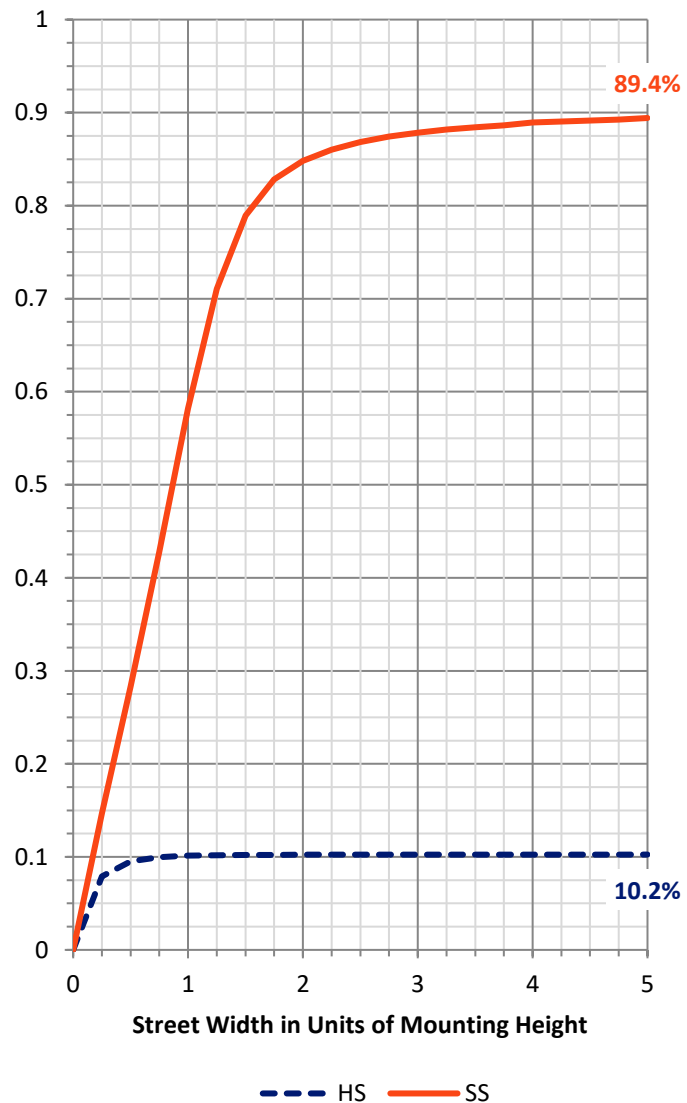
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	387.3	0.0	387.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	3357.7	0.0	3357.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	3745.0	0.0	3745.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	1.9
10°-20°	158.3	4.2
20°-30°	226.7	6.1
30°-40°	331.1	8.8
40°-50°	555.2	14.8
50°-60°	926.6	24.7
60°-70°	983.5	26.3
70°-80°	445.4	11.9
80°-90°	45.6	1.2
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°	3745.0	100.0
0°-180°	3745.0	100.0

Coefficient of Utilization



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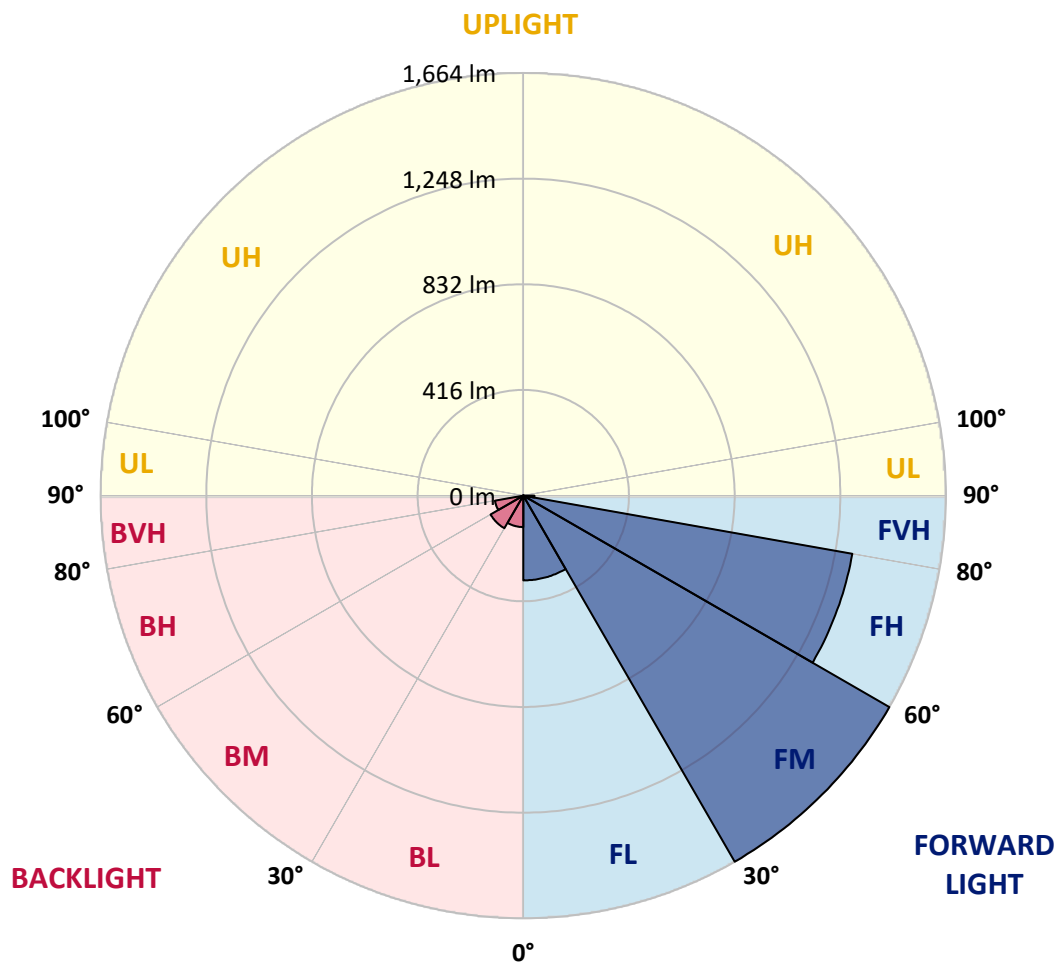
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	333.7	8.9			
FM	(30°-60°)	1664.4	44.4			
FH	(60°-80°)	1315.5	35.1			G1/1800
FVH	(80°-90°)	44.1	1.2			G1/100
BL	(0°-30°)	123.9	3.3	B1/500		
BM	(30°-60°)	148.5	4.0	B0/220		
BH	(60°-80°)	113.4	3.0	B1/500		G1/500
BVH	(80°-90°)	1.5	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	888.1	888.1	888.1	888.1	888.1	888.1	888.1	888.1	888.1	888.1	888.1
2.5°	935.9	936.9	938.2	939.9	941.2	937.4	932.1	926.0	924.8	911.9	896.2
5°	885.8	887.3	898.4	904.5	918.2	930.6	938.4	939.4	938.9	926.8	901.7
7.5°	814.5	818.8	829.6	840.3	865.8	889.3	917.2	936.6	937.9	934.6	903.5
10°	756.5	759.3	764.9	785.9	807.1	843.1	882.0	918.7	921.7	934.9	902.0
12.5°	711.3	715.3	722.1	738.3	763.9	797.8	842.0	891.4	897.7	930.1	897.7
15°	679.7	681.7	688.5	704.4	729.2	760.6	805.4	862.8	868.3	923.7	896.9
17.5°	664.7	667.0	671.8	684.5	704.9	734.0	777.8	839.8	846.8	919.7	899.7
20°	668.8	670.8	671.1	677.6	691.5	716.1	757.6	818.3	827.4	917.2	904.3
22.5°	691.8	692.0	689.0	686.0	690.8	708.5	745.2	804.6	814.0	916.7	909.6
25°	726.2	727.0	721.9	711.3	701.7	710.8	742.4	795.8	804.1	915.4	912.9
27.5°	773.7	773.5	772.0	754.3	727.0	720.9	744.7	790.9	798.0	911.9	914.1
30°	840.3	838.2	835.0	815.0	773.2	745.4	754.3	787.9	794.5	906.8	910.8
32.5°	905.8	913.4	912.9	893.9	841.8	789.2	774.3	792.0	796.8	903.5	906.0
35°	982.2	981.9	1001.4	994.3	933.4	845.1	808.4	805.4	809.2	905.8	903.8
37.5°	1053.0	1059.6	1089.9	1097.3	1041.6	924.0	856.7	834.2	835.5	921.2	909.3
40°	1141.3	1153.9	1199.2	1223.7	1174.7	1041.1	928.0	887.1	887.3	959.2	930.3
42.5°	1255.1	1275.1	1317.3	1358.3	1332.0	1179.7	1035.0	970.8	970.3	1025.9	978.4
45°	1393.5	1407.4	1455.4	1520.4	1503.7	1373.2	1190.8	1100.5	1094.0	1135.5	1063.6
47.5°	1512.8	1531.8	1580.6	1654.7	1730.6	1609.5	1377.0	1278.9	1274.6	1309.7	1209.8
50°	1564.9	1581.6	1633.0	1736.9	1920.8	1919.6	1654.2	1539.1	1531.8	1550.8	1435.9
52.5°	1507.8	1523.5	1575.3	1704.8	2010.4	2297.5	2055.9	1865.7	1856.8	1832.6	1706.1
55°	1312.0	1324.9	1401.5	1550.3	1976.0	2549.4	2609.3	2269.1	2234.7	2140.4	2011.9
57.5°	1044.6	1038.1	1085.6	1258.4	1774.1	2633.9	3177.5	2771.7	2710.3	2406.5	2270.7
60°	723.9	744.2	763.4	877.2	1334.0	2487.4	3530.8	3403.6	3322.6	2668.3	2518.5
62.5°	532.2	545.6	558.2	610.9	838.8	1986.1	3593.3	4052.6	3980.8	2946.3	2755.0
65°	420.9	421.9	427.0	478.8	552.7	1291.5	3293.0	4418.6	4400.2	3213.9	2850.9
66°	383.5	383.7	391.6	447.2	496.0	1051.7	3052.5	4446.5	4456.6	3278.1	2822.8
67.5°	335.1	334.1	345.5	401.9	451.8	758.3	2622.0	4333.6	4393.6	3327.4	2721.9
70°	259.8	258.5	272.4	337.2	416.1	505.9	1742.8	3721.0	3817.6	3226.5	2408.3
72.5°	173.0	174.0	197.8	266.1	397.1	445.4	1048.4	2830.7	2967.3	2664.5	1894.5
75°	100.9	102.7	129.8	197.8	344.8	424.7	593.4	2018.5	2105.7	1839.9	1180.2
77.5°	52.9	53.6	72.6	130.5	264.3	394.3	395.3	1289.5	1330.5	894.1	467.2
80°	28.1	27.3	39.0	78.7	181.9	346.3	320.7	682.7	709.8	265.6	118.1
82.5°	10.6	11.6	20.7	51.6	107.5	248.6	276.2	301.8	292.4	58.4	49.6
85°	2.0	2.5	8.9	30.6	54.1	104.0	203.6	148.0	137.1	22.0	28.6
87.5°	0.3	0.5	2.5	7.3	7.8	35.2	60.2	41.0	35.4	8.1	11.9
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°	888.1	888.1	888.1	888.1	888.1	888.1	888.1	888.1	888.1	888.1	888.1
2.5°	888.6	881.8	859.0	836.5	813.5	792.7	778.6	755.5	749.7	741.4	736.6
5°	886.8	870.9	827.1	779.3	734.8	686.7	650.1	614.6	595.7	586.1	582.5
7.5°	881.8	856.5	788.2	713.3	642.0	570.1	507.7	460.1	429.5	408.5	394.3
10°	871.6	836.7	742.9	639.9	532.2	437.3	358.2	298.0	251.4	236.8	237.3
12.5°	861.3	814.7	692.3	558.5	424.9	305.3	221.3	173.8	151.5	144.2	142.7
15°	851.7	793.7	642.7	479.6	316.4	197.8	142.7	126.0	119.9	118.6	118.4
17.5°	846.6	774.3	589.9	389.3	220.8	134.3	114.3	109.8	108.0	106.7	106.2
20°	842.3	757.3	539.3	304.8	151.0	110.0	102.4	98.1	95.1	93.8	93.1
22.5°	839.3	739.9	486.9	236.0	115.6	97.6	90.8	85.2	80.9	79.4	78.4
25°	834.7	720.6	434.0	172.5	97.4	86.8	78.9	72.3	66.8	64.0	63.5
27.5°	828.1	698.9	376.1	127.7	87.0	77.1	67.5	59.4	53.9	50.8	51.1
30°	817.5	676.1	318.2	101.4	78.7	67.3	56.9	49.1	43.8	41.5	41.2
32.5°	804.9	648.5	265.1	87.0	71.1	58.4	47.6	40.7	36.7	34.9	34.7
35°	793.0	620.7	211.0	78.2	63.2	50.3	40.0	34.1	31.1	29.6	29.8
37.5°	786.4	595.9	164.4	71.1	56.9	43.3	34.4	29.3	26.6	25.3	25.0
40°	790.7	575.7	130.8	64.8	49.8	37.2	29.6	25.3	22.5	20.7	20.7
42.5°	810.9	566.8	105.5	58.7	43.3	32.1	25.8	21.8	18.7	16.9	17.2
45°	872.6	576.2	88.3	53.1	37.2	27.8	22.3	18.0	15.2	13.9	13.7
47.5°	975.1	611.4	76.4	47.3	31.9	23.8	18.7	14.9	12.1	11.1	10.9
50°	1154.2	684.0	67.5	41.5	27.1	20.2	15.4	11.9	9.6	8.6	8.6
52.5°	1400.5	842.3	61.2	34.9	22.8	17.2	12.6	9.6	7.6	6.8	6.6
55°	1658.0	1009.2	57.9	29.3	19.0	14.2	10.1	7.6	5.8	5.1	4.8
57.5°	1905.7	1140.3	54.1	23.8	15.2	10.9	7.8	5.8	4.0	3.5	3.3
60°	2143.2	1246.2	46.0	19.0	11.9	7.8	5.8	4.0	2.8	2.3	2.3
62.5°	2355.6	1308.0	36.2	15.2	9.1	5.6	3.8	3.0	2.0	1.5	1.5
65°	2380.4	1227.8	27.3	11.6	6.6	3.5	2.3	2.3	1.5	1.0	1.0
66°	2330.6	1159.7	24.0	10.6	5.8	3.0	2.0	1.8	1.3	0.8	0.8
67.5°	2219.3	1043.6	20.7	9.1	4.8	2.3	1.5	1.5	1.0	0.5	0.5
70°	1917.5	852.4	16.4	6.8	3.5	1.8	1.0	1.0	0.8	0.5	0.5
72.5°	1461.5	636.4	13.4	5.1	2.5	1.3	0.8	0.8	0.8	0.5	0.5
75°	881.5	342.7	10.4	3.8	2.3	1.0	0.5	0.8	1.0	0.8	0.5
77.5°	324.8	116.6	8.1	3.0	1.8	1.0	0.5	0.5	1.0	0.8	0.8
80°	79.7	30.4	5.8	2.5	1.8	1.0	0.5	0.5	1.0	1.0	1.0
82.5°	36.9	12.9	4.0	2.3	1.8	1.0	0.5	0.5	0.8	1.0	1.0
85°	21.2	6.1	3.3	2.5	1.8	1.0	0.5	0.5	0.8	1.0	1.0
87.5°	8.6	3.0	3.0	2.5	2.0	1.3	0.5	0.5	0.5	0.8	0.8
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)