

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: STREETWORKS

Report Number: P318195

Luminaire Tested: **GAN-SA1B-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4316 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

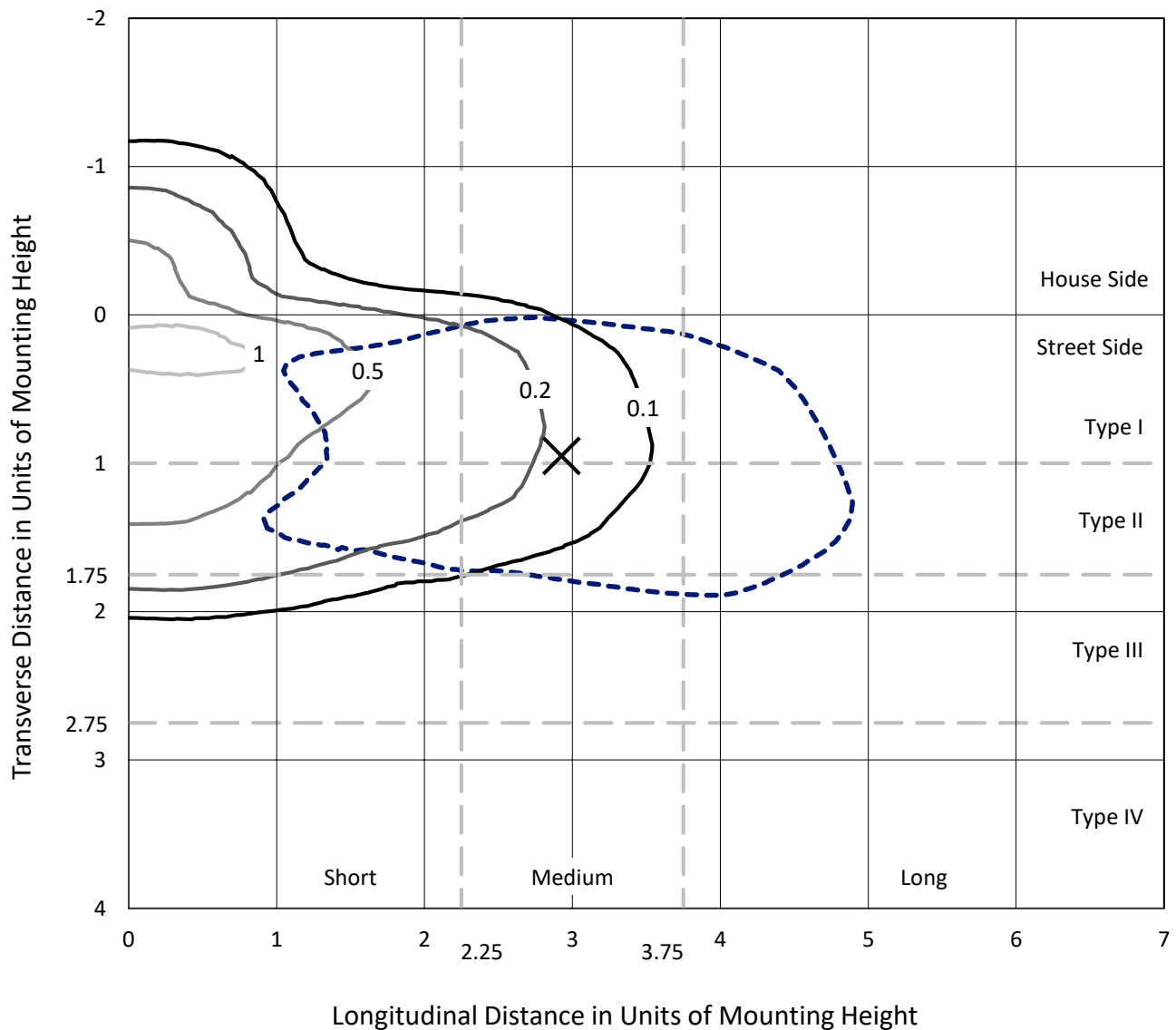
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

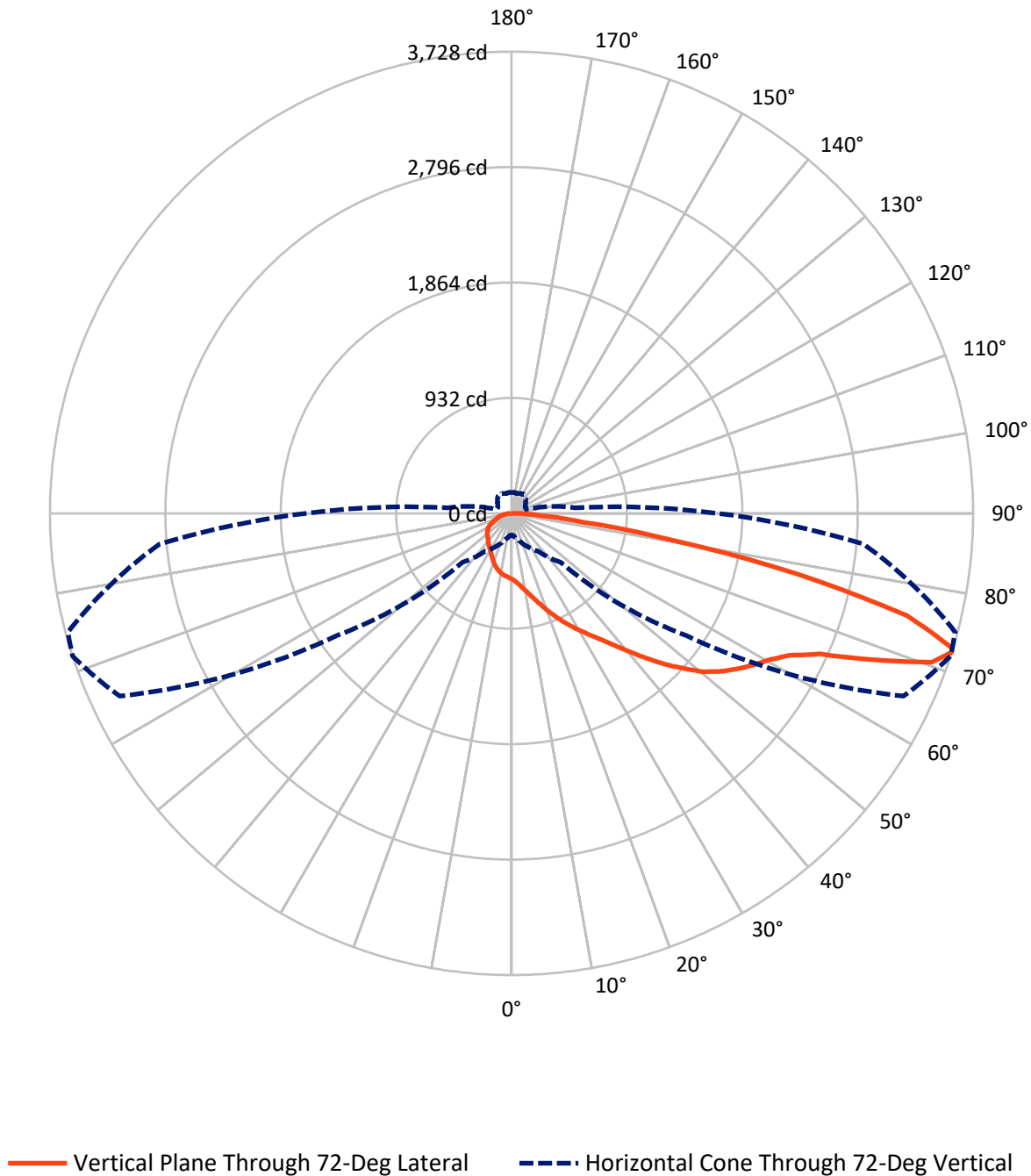
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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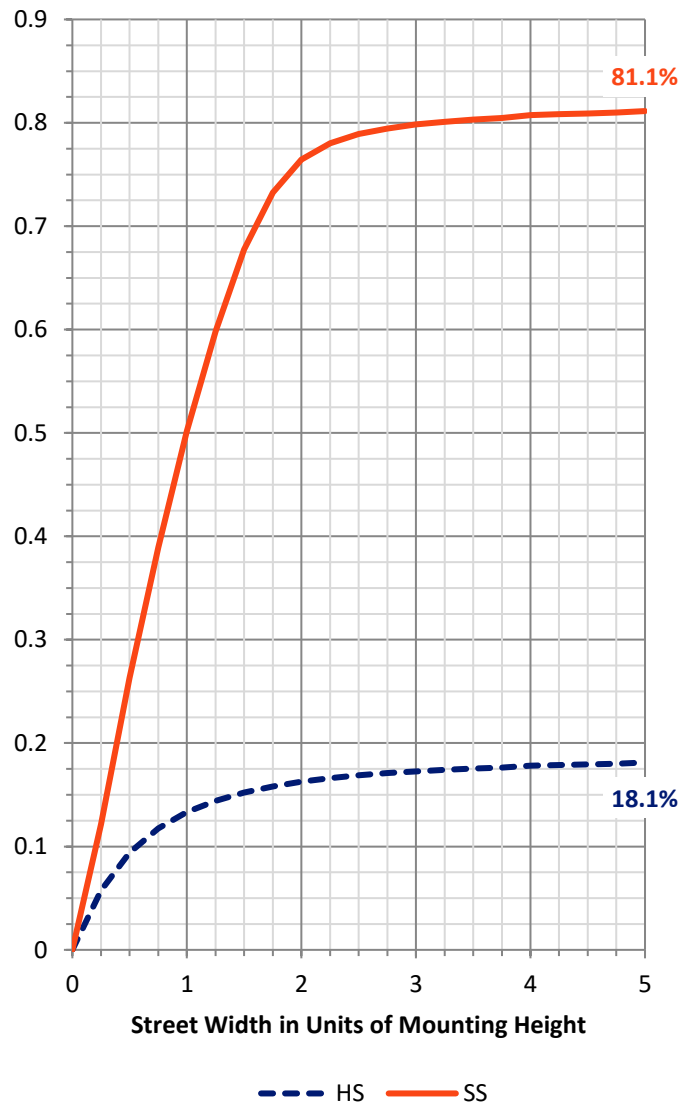
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	800.7	0.0	800.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	3515.4	0.0	3515.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	4316.0	0.0	4316.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	1.2
10°-20°	171.9	4.0
20°-30°	301.3	7.0
30°-40°	446.7	10.4
40°-50°	653.3	15.1
50°-60°	899.0	20.8
60°-70°	1000.9	23.2
70°-80°	678.2	15.7
80°-90°	111.5	2.6
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°	4316.0	100.0
0°-180°	4316.0	100.0

Coefficient of Utilization



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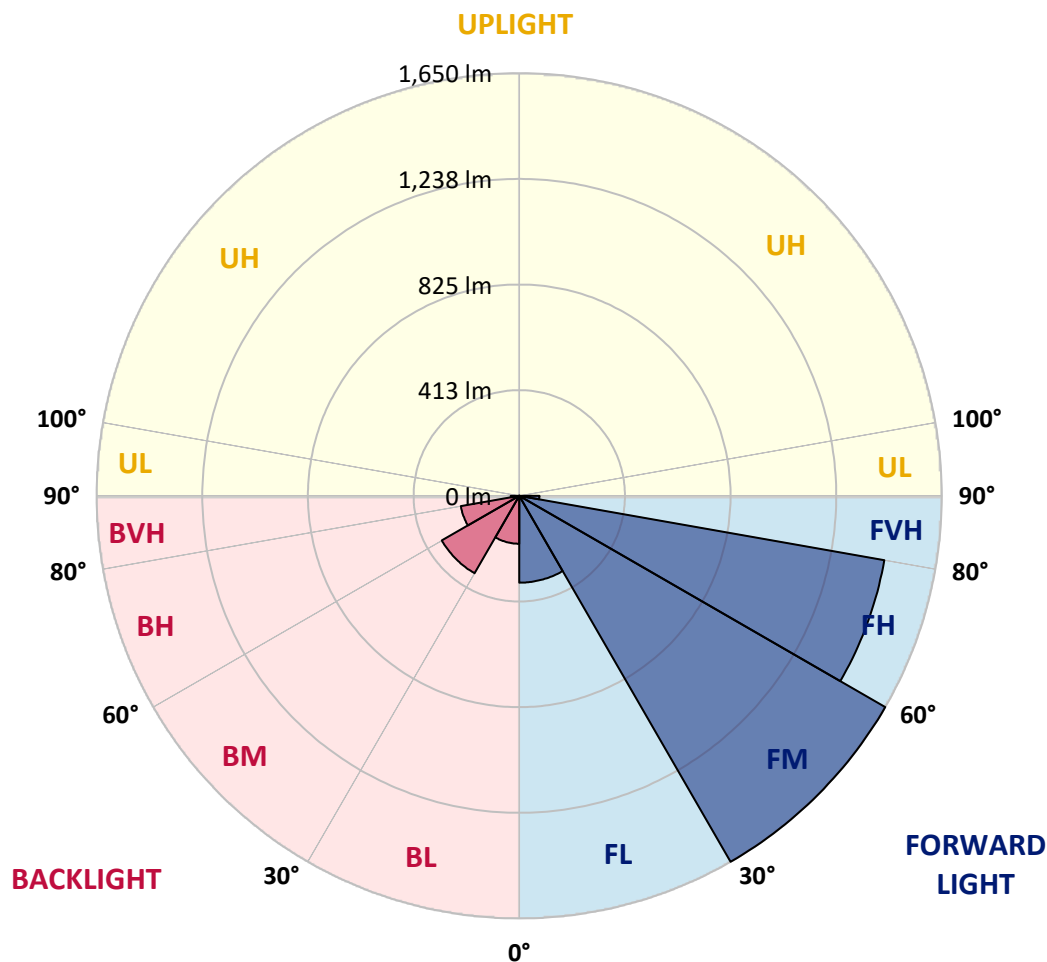
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	339.3	7.9			
FM	(30°-60°)	1650.1	38.2			
FH	(60°-80°)	1447.4	33.5			G1/1800
FVH	(80°-90°)	78.6	1.8			G1/100
BL	(0°-30°)	187.2	4.3	B1/500		
BM	(30°-60°)	349.0	8.1	B1/1000		
BH	(60°-80°)	231.6	5.4	B1/500		G1/500
BVH	(80°-90°)	32.8	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-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0
2.5°	586.6	585.7	582.5	582.5	576.6	571.6	562.0	555.6	548.1	545.4	536.5
5°	643.3	643.6	639.8	637.1	628.3	617.6	601.4	586.7	572.0	566.1	547.8
7.5°	691.0	690.4	689.4	687.2	679.0	668.0	646.2	624.3	602.6	593.7	562.2
10°	721.6	723.0	723.9	724.9	721.5	713.6	693.0	666.4	638.0	625.8	579.4
12.5°	737.1	739.5	743.6	750.8	756.4	755.5	740.5	712.3	678.5	663.2	601.0
15°	746.2	749.3	755.8	768.6	784.5	793.6	789.6	764.0	726.4	707.5	627.3
17.5°	751.8	754.3	764.4	781.5	805.2	829.2	839.8	818.4	780.5	758.9	657.4
20°	755.7	757.6	770.2	790.3	820.9	859.3	888.7	883.3	840.1	812.1	689.0
22.5°	764.3	765.9	778.0	798.2	832.1	881.5	935.8	943.8	902.9	871.3	722.7
25°	788.4	788.4	798.5	812.6	844.4	900.9	975.6	1011.1	967.1	930.3	753.9
27.5°	834.3	833.8	837.6	842.5	866.5	920.5	1011.1	1070.6	1033.7	993.5	784.2
30°	888.7	891.7	892.1	889.7	901.0	945.0	1044.0	1133.3	1100.7	1057.4	815.3
32.5°	958.7	960.6	958.4	950.5	948.9	979.8	1076.2	1199.0	1173.3	1124.1	843.7
35°	1047.5	1043.8	1036.8	1020.8	1005.5	1026.3	1113.1	1264.7	1254.7	1204.8	882.7
37.5°	1142.8	1143.0	1134.3	1097.9	1076.8	1085.7	1163.9	1339.1	1353.2	1300.8	932.8
40°	1219.2	1223.2	1228.6	1180.7	1153.4	1165.7	1228.6	1425.5	1469.7	1414.6	998.1
42.5°	1272.5	1277.1	1292.3	1262.3	1233.9	1256.8	1304.6	1517.6	1600.5	1546.0	1074.4
45°	1329.0	1331.5	1342.2	1329.3	1311.2	1362.7	1390.4	1613.0	1738.9	1686.0	1159.9
47.5°	1388.5	1391.1	1402.1	1393.5	1384.0	1461.7	1479.9	1702.9	1871.4	1839.8	1251.1
50°	1461.9	1463.7	1474.1	1458.5	1461.4	1536.3	1559.8	1785.4	2010.4	1978.0	1342.7
52.5°	1562.0	1562.5	1576.9	1562.8	1548.8	1591.0	1628.6	1863.1	2119.3	2104.0	1434.2
55°	1640.5	1645.3	1692.5	1689.5	1681.5	1640.6	1686.1	1937.1	2216.5	2223.8	1531.4
57.5°	1590.4	1609.0	1704.7	1772.2	1837.8	1764.1	1763.8	2020.5	2306.9	2341.3	1638.3
60°	1392.9	1418.2	1559.2	1708.9	1914.4	1979.0	1925.2	2122.3	2398.1	2457.8	1772.2
62.5°	994.8	1036.4	1227.5	1466.5	1809.5	2121.4	2253.7	2283.8	2522.2	2592.8	1946.2
65°	502.9	534.4	694.6	982.5	1445.7	2028.4	2610.6	2637.5	2737.8	2800.5	2214.1
67.5°	305.5	317.4	395.6	546.4	886.3	1580.0	2727.1	3227.0	3155.1	3188.4	2596.2
70°	225.1	233.9	282.7	362.9	509.7	927.2	2369.6	3647.8	3600.5	3596.8	2878.6
72°	175.4	181.7	224.8	293.2	372.7	556.2	1717.5	3492.5	3728.0	3709.3	2852.7
72.5°	166.3	171.9	211.2	276.0	352.2	504.2	1544.2	3387.7	3718.8	3710.3	2819.3
75°	130.9	134.9	156.3	213.4	275.7	286.1	846.2	2625.3	3299.0	3436.1	2535.7
77.5°	108.3	108.9	120.2	155.3	214.9	202.3	415.7	1821.5	2362.3	2513.1	1796.2
80°	88.3	89.0	94.4	108.9	162.6	149.6	197.4	1047.4	1322.6	1324.3	854.2
82.5°	70.3	70.4	76.4	79.7	116.8	107.0	113.1	491.7	577.9	555.9	307.0
85°	49.5	48.4	74.6	65.4	76.4	68.7	62.4	194.7	239.0	228.6	96.2
87.5°	16.5	17.1	33.1	42.4	44.6	38.9	27.8	74.6	90.2	89.5	30.5
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°	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0
2.5°	533.7	528.9	521.9	514.2	508.1	501.9	497.2	494.9	492.2	490.0	492.6
5°	539.3	530.4	515.5	501.0	490.3	480.8	473.9	470.3	467.1	464.8	465.1
7.5°	548.5	534.1	509.1	487.9	473.0	462.8	455.8	453.4	451.3	450.7	451.5
10°	558.3	537.1	500.7	472.4	455.5	447.0	443.9	445.5	447.0	448.4	449.8
12.5°	569.5	539.7	488.3	454.3	439.9	436.6	439.7	446.9	452.1	455.2	457.1
15°	584.0	542.1	474.1	436.2	426.5	430.2	440.8	453.1	462.2	468.0	468.9
17.5°	597.4	542.0	455.8	417.9	415.7	426.5	442.4	459.8	472.0	480.2	481.8
20°	611.2	538.0	434.5	400.1	404.7	422.5	443.2	464.1	478.8	488.3	490.6
22.5°	624.2	531.0	411.2	383.9	395.4	417.1	440.3	461.6	476.3	484.0	486.4
25°	632.9	518.8	387.6	370.2	387.3	410.6	431.1	448.2	459.2	463.1	463.7
27.5°	637.4	502.9	365.3	358.3	378.8	399.9	414.0	422.5	425.6	425.3	424.7
30°	638.0	481.9	346.1	348.6	369.0	384.2	390.8	389.2	385.2	378.4	379.0
32.5°	636.0	458.3	330.1	339.4	356.5	365.0	365.3	357.4	346.7	335.9	332.9
35°	636.6	435.1	315.9	329.0	341.4	345.1	341.7	330.1	315.5	301.5	298.6
37.5°	643.2	414.9	303.8	317.0	324.6	325.5	320.6	308.4	297.7	284.0	282.8
40°	658.8	400.5	292.2	303.5	307.8	308.2	301.2	292.6	293.5	286.2	286.1
42.5°	686.9	394.3	281.9	289.3	292.0	292.9	287.6	282.1	289.8	285.0	283.4
45°	723.1	395.7	273.3	275.5	280.4	284.6	281.3	274.6	277.6	256.9	250.1
47.5°	765.0	405.3	266.5	263.6	272.1	280.0	274.9	264.8	254.3	233.8	229.9
50°	814.1	420.0	260.2	251.9	263.0	273.7	268.7	254.3	238.4	228.4	227.1
52.5°	865.2	438.0	254.0	239.0	251.6	269.0	266.5	251.9	232.3	222.5	220.7
55°	923.2	456.1	246.1	224.0	239.3	266.8	265.4	243.3	227.7	222.2	220.8
57.5°	995.2	476.7	235.7	208.4	227.7	258.7	254.6	238.1	222.9	218.8	218.3
60°	1089.2	507.2	220.7	191.7	213.6	246.4	245.5	230.5	215.3	212.4	211.8
62.5°	1230.0	557.6	200.0	175.1	197.8	225.4	233.6	220.2	207.3	207.2	207.5
65°	1448.5	633.4	177.6	160.5	181.9	207.8	219.8	209.7	199.1	202.1	202.6
67.5°	1701.7	696.2	155.6	146.2	165.7	191.0	207.3	199.1	188.3	196.0	196.2
70°	1786.0	640.1	136.3	132.1	148.9	174.8	193.8	187.5	176.5	184.3	183.5
72°	1662.0	516.7	123.8	121.4	136.3	161.4	181.7	176.7	165.8	171.0	169.1
72.5°	1623.0	492.6	120.7	118.7	132.9	158.0	178.6	174.0	163.2	167.6	165.8
75°	1447.8	427.8	103.7	104.2	115.9	141.3	161.1	159.6	148.5	148.9	148.3
77.5°	1050.1	313.7	87.4	90.4	98.7	124.2	143.4	142.5	130.3	128.1	127.7
80°	487.3	160.1	71.2	72.5	81.1	103.9	122.3	121.1	111.3	108.5	106.9
82.5°	166.9	76.1	53.5	54.4	62.9	83.7	106.1	105.4	97.2	91.7	88.3
85°	59.6	37.9	37.4	36.6	44.9	65.8	92.4	88.4	76.4	65.1	64.8
87.5°	19.3	16.2	19.3	19.2	26.2	44.6	67.2	57.2	55.4	46.1	45.2
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)