

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: P532094

Luminaire Tested: **GALN-SA7B-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27493 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 286
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

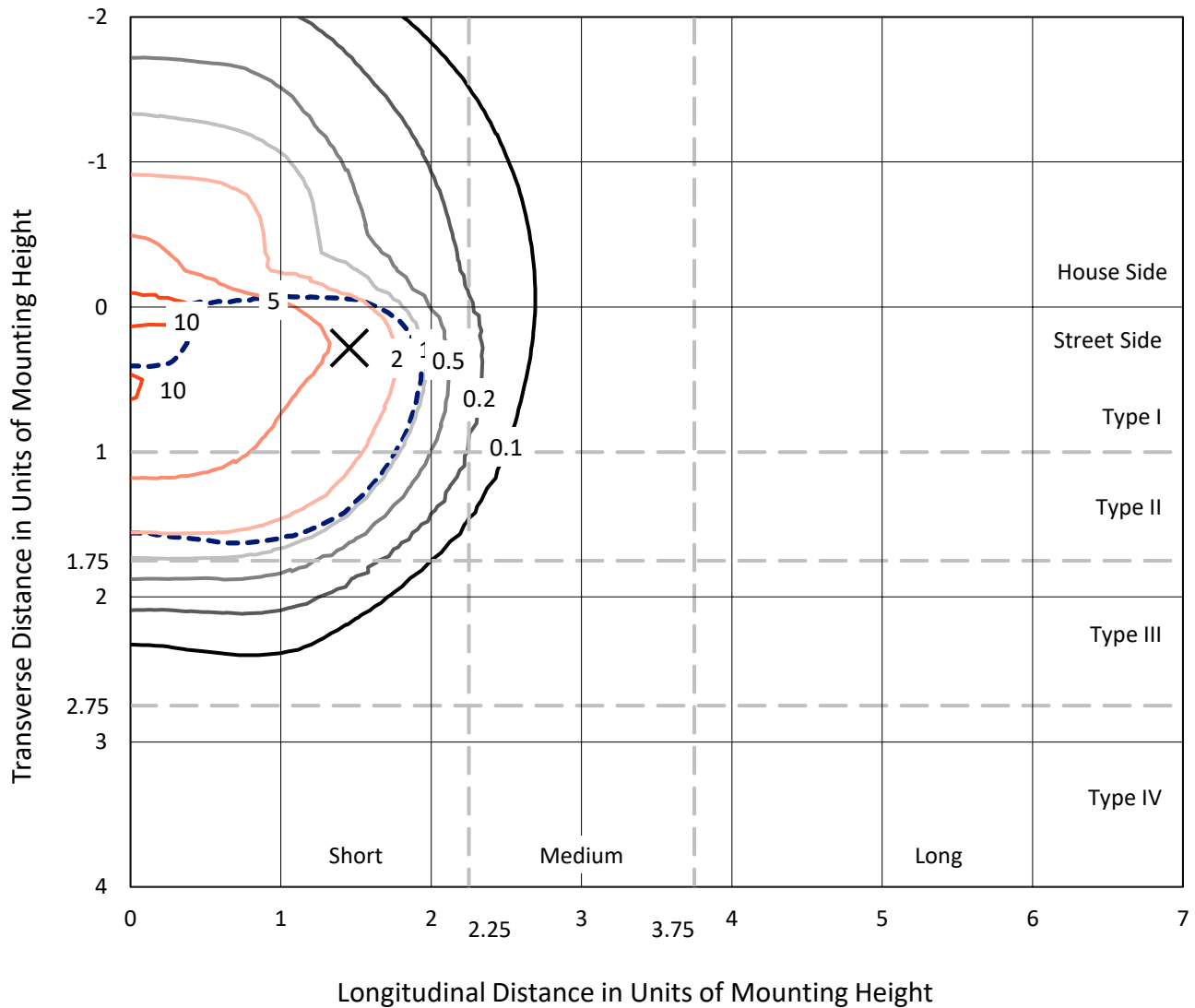


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Iso-Footcandle Lines of Horizontal Illumination

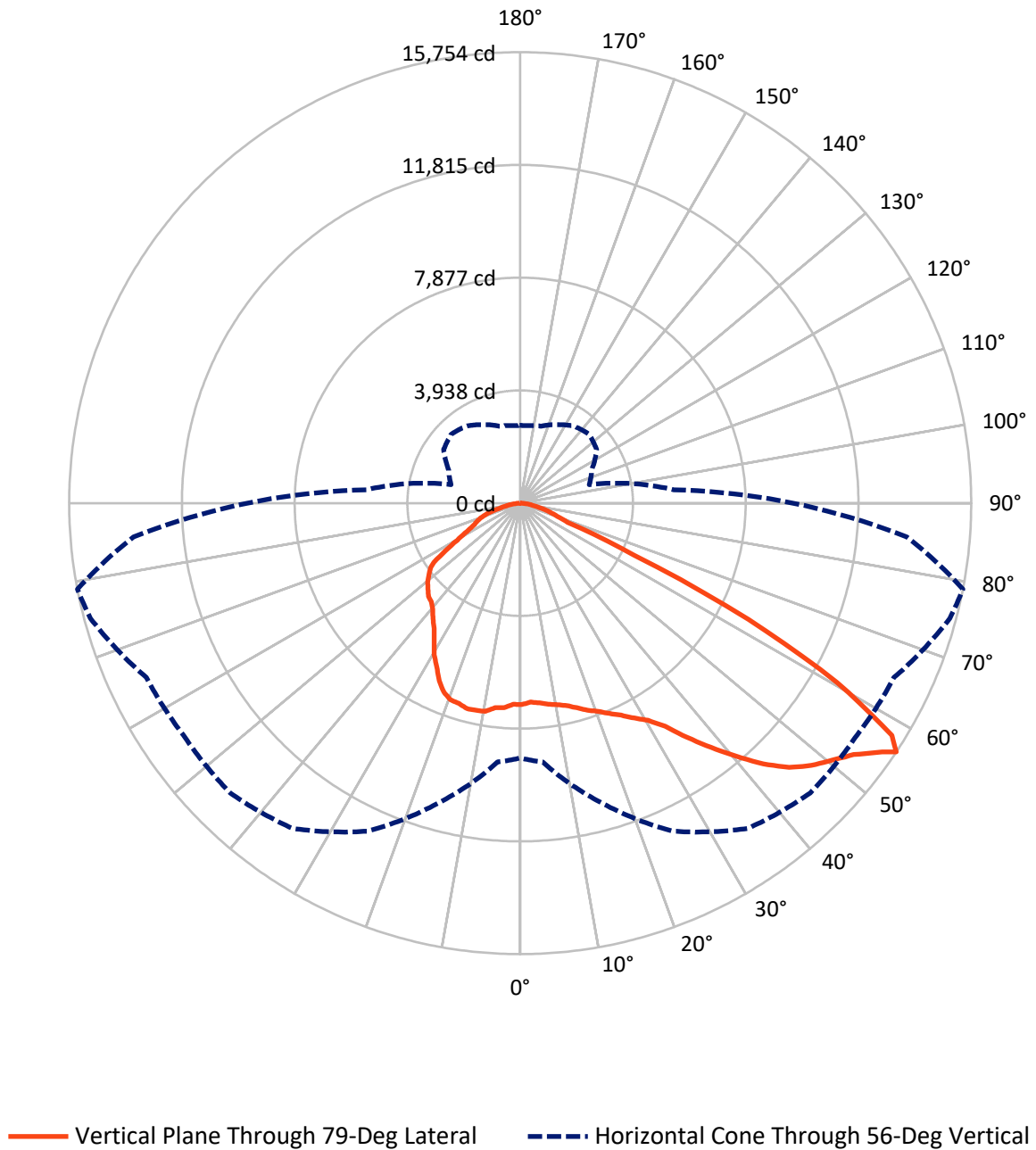
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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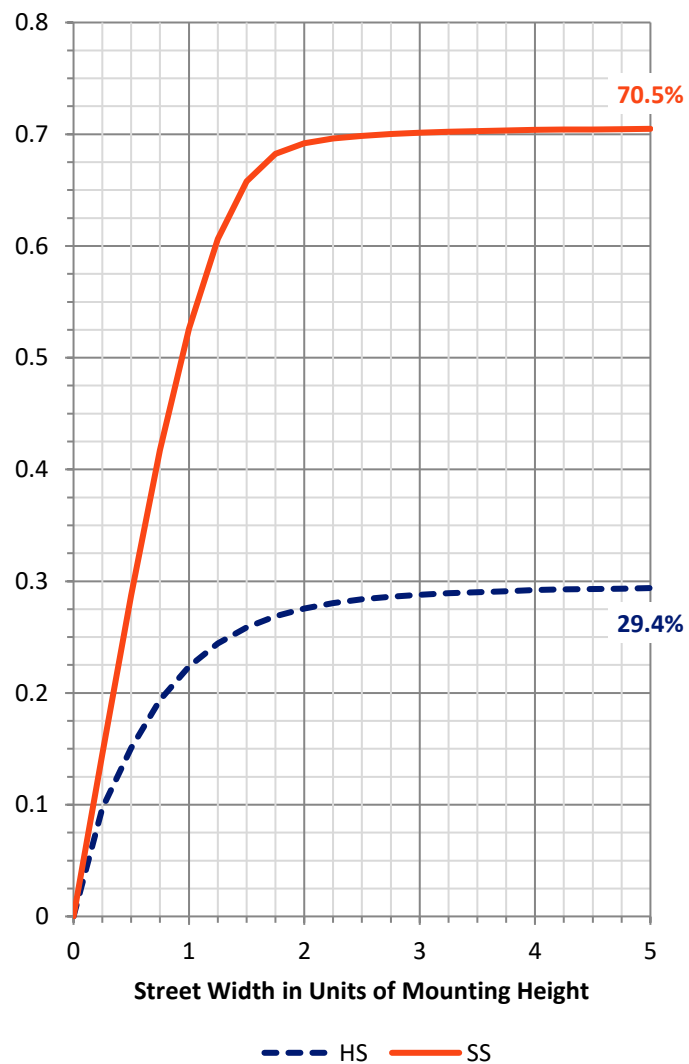
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8119.3	0.0	8119.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	19373.7	0.0	19373.7
	% Fixture	70.5	0.0	70.5
Total	Lumens	27493.0	0.0	27493.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	639.6	2.3
10°-20°	1750.3	6.4
20°-30°	2994.4	10.9
30°-40°	4589.3	16.7
40°-50°	6202.4	22.6
50°-60°	7123.7	25.9
60°-70°	3247.2	11.8
70°-80°	800.6	2.9
80°-90°	145.5	0.5
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°	27493.0	100.0
0°-180°	27493.0	100.0

Coefficient of Utilization



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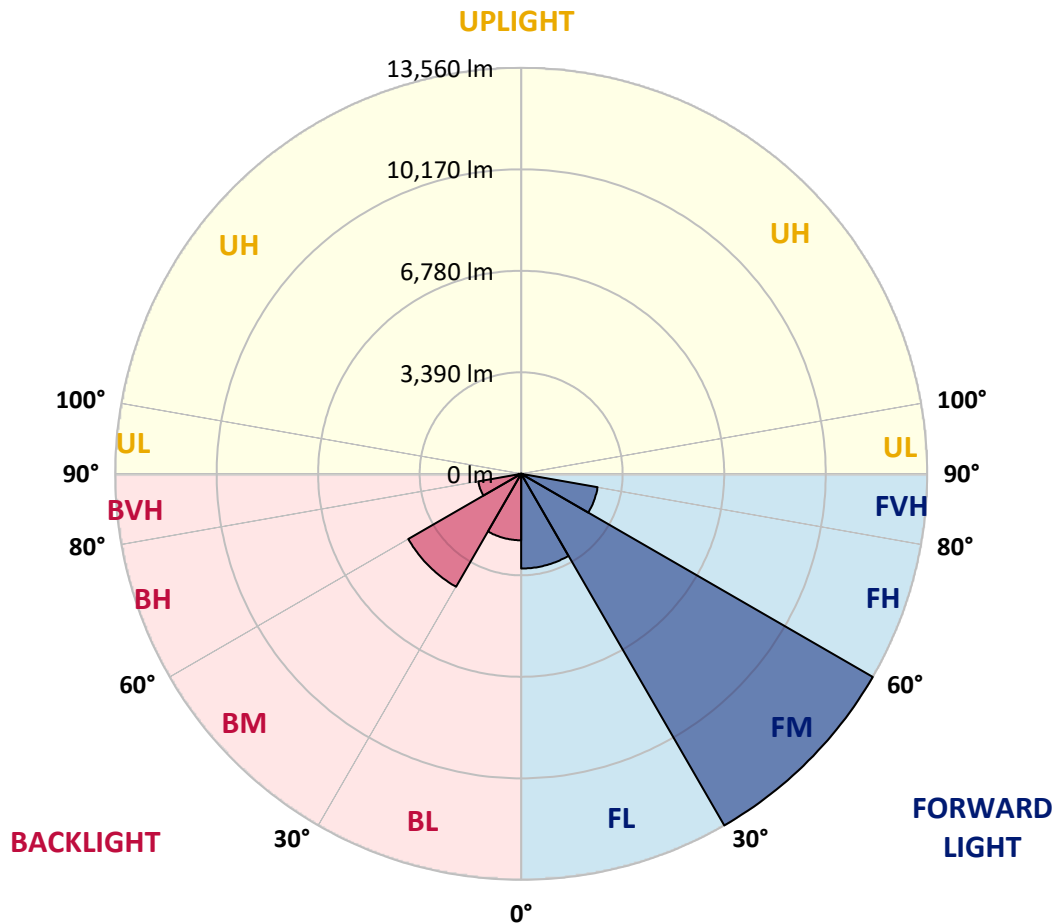
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3163.3	11.5			
FM	(30°-60°)	13560.4	49.3			
FH	(60°-80°)	2592.0	9.4			G2/5000
FVH	(80°-90°)	58.1	0.2			G1/100
BL	(0°-30°)	2221.0	8.1	B3/2500		
BM	(30°-60°)	4355.1	15.8	B3/5000		
BH	(60°-80°)	1455.8	5.3	B3/2500		G3/2500
BVH	(80°-90°)	87.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7034.4	7034.4	7034.4	7034.4	7034.4	7034.4	7034.4	7034.4	7034.4	7034.4	7034.4
2.5°	6691.9	6674.8	6715.9	6746.7	6784.4	6832.3	6856.3	6870.0	6989.8	6959.0	7051.5
5°	6548.1	6503.5	6534.4	6558.3	6623.4	6681.6	6746.7	6849.4	6959.0	7007.0	7120.0
7.5°	6421.3	6397.4	6390.5	6407.6	6496.7	6572.0	6685.0	6835.7	7013.8	7092.6	7157.7
10°	6212.4	6178.2	6229.6	6342.6	6366.6	6524.1	6654.2	6870.0	7024.1	7161.1	7352.9
12.5°	6120.0	6085.7	6096.0	6161.1	6328.9	6479.6	6633.7	6876.8	7202.2	7257.0	7513.8
15°	6267.2	6233.0	6243.3	6226.1	6387.1	6465.9	6709.0	7013.8	7325.5	7417.9	7691.9
17.5°	6602.9	6606.3	6561.8	6524.1	6486.4	6654.2	6822.0	7096.0	7373.4	7606.3	7811.8
20°	7243.3	7130.3	7041.2	6828.9	6770.7	6842.6	7054.9	7318.6	7568.6	7760.4	7993.3
22.5°	7736.4	7746.7	7620.0	7270.7	7144.0	7174.8	7356.3	7572.1	7846.0	7983.0	8250.1
25°	8452.2	8380.3	8243.3	7965.9	7681.6	7705.6	7839.2	8034.4	8109.7	8205.6	8496.7
27.5°	9106.3	9126.9	8856.3	8596.0	8243.3	8174.8	8414.5	8448.8	8322.1	8503.6	8602.9
30°	9770.7	9753.6	9575.5	9270.7	8924.8	8938.5	9044.7	8876.9	8702.2	8801.5	8870.0
32.5°	10459.1	10263.9	10257.0	9983.1	9719.3	9592.6	9462.5	9544.7	9274.1	9294.7	9229.6
35°	11010.5	11037.9	10880.3	10685.1	10555.0	10332.4	9976.2	10123.5	10072.1	10048.1	9767.3
37.5°	11411.2	11305.0	11383.8	11318.7	11195.4	10918.0	10548.1	10688.5	10712.5	10829.0	10503.6
40°	11739.9	11695.4	11904.3	11938.6	11852.9	11253.6	10589.2	11007.0	11366.6	11620.1	11233.1
42.5°	11897.5	11993.4	12212.5	12476.2	12284.5	11644.0	10801.6	11250.2	12051.6	12452.3	11924.9
45°	12109.8	11986.5	12311.9	12794.7	12798.2	11972.8	11007.0	11579.0	12585.8	13168.0	12397.5
47.5°	11894.0	11955.7	12291.3	12904.3	13061.9	12318.7	11561.8	12044.7	13174.9	13692.0	12835.8
50°	11411.2	11534.4	12147.5	12784.5	13260.5	12685.2	12198.8	12548.2	13719.4	14113.3	12907.8
52.5°	10907.7	10976.2	11935.1	12876.9	13349.5	13157.8	13051.6	13243.4	14383.8	14589.3	12996.8
55°	9537.8	9863.2	11233.1	12835.8	13784.5	14010.5	13928.3	14209.2	15137.3	15342.7	13483.1
56°	8904.3	9075.5	10811.8	12644.1	13870.1	14322.2	14281.1	14407.8	15537.9	15753.7	13558.5
57.5°	7733.0	7746.7	9219.3	11794.7	13548.2	14414.6	14373.5	14472.9	15459.2	15311.9	12897.5
60°	4839.1	5051.5	6274.1	9072.1	11520.8	13373.5	13606.4	12808.4	13034.5	12722.8	10034.4
62.5°	2506.9	2476.1	3287.7	5304.9	7647.4	9575.5	9791.3	9753.6	9404.3	8948.8	6554.9
65°	1250.0	1256.9	1719.2	2626.8	3917.9	5013.8	5616.5	5681.6	4753.5	4373.4	3109.6
67.5°	907.6	941.8	1236.3	1606.2	1845.9	2065.1	2530.9	2482.9	1880.2	1787.7	1657.6
70°	705.5	736.3	1003.4	1226.0	1113.0	1113.0	1212.4	1253.4	1339.1	1376.7	1421.3
72.5°	513.7	537.7	767.1	845.9	729.5	784.3	907.6	1003.4	1092.5	1106.2	1157.6
75°	352.7	373.3	503.4	465.8	438.4	541.1	664.4	753.4	818.5	852.8	883.6
77.5°	229.5	236.3	287.7	243.2	280.8	349.3	431.5	506.9	571.9	599.3	606.2
80°	102.7	113.0	123.3	154.1	195.2	250.0	308.2	369.9	411.0	421.2	441.8
82.5°	58.2	58.2	75.3	109.6	143.8	181.5	222.6	267.1	315.1	325.3	321.9
85°	30.8	30.8	44.5	65.1	89.0	106.2	102.7	106.2	113.0	130.1	126.7
87.5°	10.3	10.3	13.7	13.7	17.1	20.5	17.1	24.0	30.8	30.8	30.8
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°	7034.4	7034.4	7034.4	7034.4	7034.4	7034.4	7034.4	7034.4	7034.4	7034.4	7034.4
2.5°	7024.1	7054.9	7013.8	7102.9	7102.9	7085.7	7000.1	7027.5	7048.1	7048.1	7065.2
5°	7157.7	7147.4	7174.8	7068.6	7003.5	6979.6	6839.2	6770.7	6712.4	6709.0	6657.7
7.5°	7233.0	7205.6	7195.3	7116.6	6828.9	6654.2	6352.9	6178.2	6140.5	6007.0	6058.3
10°	7352.9	7404.2	7352.9	6924.8	6524.1	6123.4	5828.9	5558.3	5452.2	5366.5	5315.2
12.5°	7599.4	7575.5	7277.5	6698.7	6137.1	5661.1	5222.7	4938.4	4832.3	4756.9	4750.1
15°	7808.4	7688.5	7233.0	6342.6	5534.3	5027.5	4667.9	4465.8	4417.9	4424.7	4455.6
17.5°	7880.3	7798.1	7000.1	5972.7	5085.7	4489.8	4322.0	4291.2	4335.7	4387.1	4400.8
20°	7993.3	7863.2	6904.2	5469.3	4530.9	4154.2	4143.9	4253.5	4335.7	4411.0	4421.3
22.5°	8229.6	7900.8	6592.6	4993.2	4150.8	4054.9	4154.2	4246.6	4373.4	4435.0	4380.2
25°	8298.1	7818.6	6154.2	4421.3	3911.0	3993.2	4099.4	4226.1	4315.1	4349.4	4373.4
27.5°	8356.3	7691.9	5561.7	4041.2	3835.7	3989.8	4099.4	4205.6	4253.5	4284.3	4311.7
30°	8520.7	7654.2	5048.0	3787.7	3787.7	3921.3	4061.7	4089.1	4154.2	4191.9	4239.8
32.5°	8602.9	7394.0	4520.6	3626.8	3739.8	3955.5	3965.8	4017.2	4020.6	4051.4	4000.1
35°	8818.6	7209.0	4030.9	3510.3	3760.3	3921.3	3972.7	3941.8	3774.0	3691.8	3709.0
37.5°	8976.2	7116.6	3678.1	3496.6	3763.8	3959.0	3986.4	3753.5	3578.8	3441.8	3476.1
40°	9400.8	6887.1	3411.0	3472.7	3794.6	4000.1	3924.7	3671.3	3356.2	3215.8	3191.8
42.5°	9726.2	6722.7	3243.2	3445.3	3818.6	4058.3	3893.9	3506.9	3185.0	3054.8	3089.1
45°	10102.9	6685.0	3154.2	3452.1	3859.7	4089.1	3856.2	3380.2	3037.7	2986.4	2976.1
47.5°	10236.5	6414.5	3058.3	3393.9	3849.4	4078.8	3729.5	3284.3	2982.9	2989.8	3017.2
50°	10013.9	6137.1	2986.4	3274.0	3780.9	3986.4	3530.9	3157.6	2952.1	3037.7	3085.7
52.5°	9729.6	5852.8	2839.1	3113.1	3640.5	3842.5	3438.4	3150.7	2921.3	2893.9	2904.2
55°	9815.2	5620.0	2633.6	2893.9	3414.4	3575.4	3335.7	3085.7	2845.9	2743.2	2777.4
56°	9537.8	5380.2	2500.0	2756.9	3260.3	3404.2	3284.3	3027.5	2784.3	2715.8	2715.8
57.5°	8753.6	4575.4	2325.4	2537.7	2935.0	3106.2	3185.0	2993.2	2715.8	2595.9	2599.4
60°	6455.6	3253.5	2085.7	2236.3	2431.5	2568.5	2935.0	2897.3	2544.6	2462.4	2431.5
62.5°	3979.5	2376.8	1914.4	1972.6	2072.0	2185.0	2561.7	2623.3	2363.1	2274.0	2253.5
65°	2229.5	1818.5	1784.3	1808.3	1856.2	1914.4	2126.7	2263.7	2085.7	1948.7	1941.8
67.5°	1630.2	1626.7	1654.1	1674.7	1695.2	1695.2	1746.6	1801.4	1777.4	1667.8	1657.6
70°	1448.7	1458.9	1479.5	1482.9	1489.8	1465.8	1424.7	1407.6	1435.0	1366.5	1352.8
72.5°	1195.2	1229.5	1253.4	1256.9	1219.2	1188.4	1133.6	1075.4	1054.8	1041.1	1037.7
75°	917.8	941.8	952.1	948.6	934.9	890.4	825.4	767.1	729.5	688.4	708.9
77.5°	619.9	654.1	671.2	671.2	650.7	582.2	551.4	506.9	469.2	424.7	431.5
80°	434.9	458.9	486.3	482.9	448.6	414.4	369.9	328.8	298.0	263.7	260.3
82.5°	325.3	339.0	352.7	345.9	321.9	287.7	256.9	219.2	184.9	161.0	161.0
85°	116.4	126.7	154.1	161.0	174.7	174.7	147.3	123.3	99.3	82.2	82.2
87.5°	34.2	34.2	37.7	37.7	34.2	37.7	30.8	34.2	37.7	24.0	24.0
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)