

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: P459554

Luminaire Tested: **GALN-SA9D-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65186 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

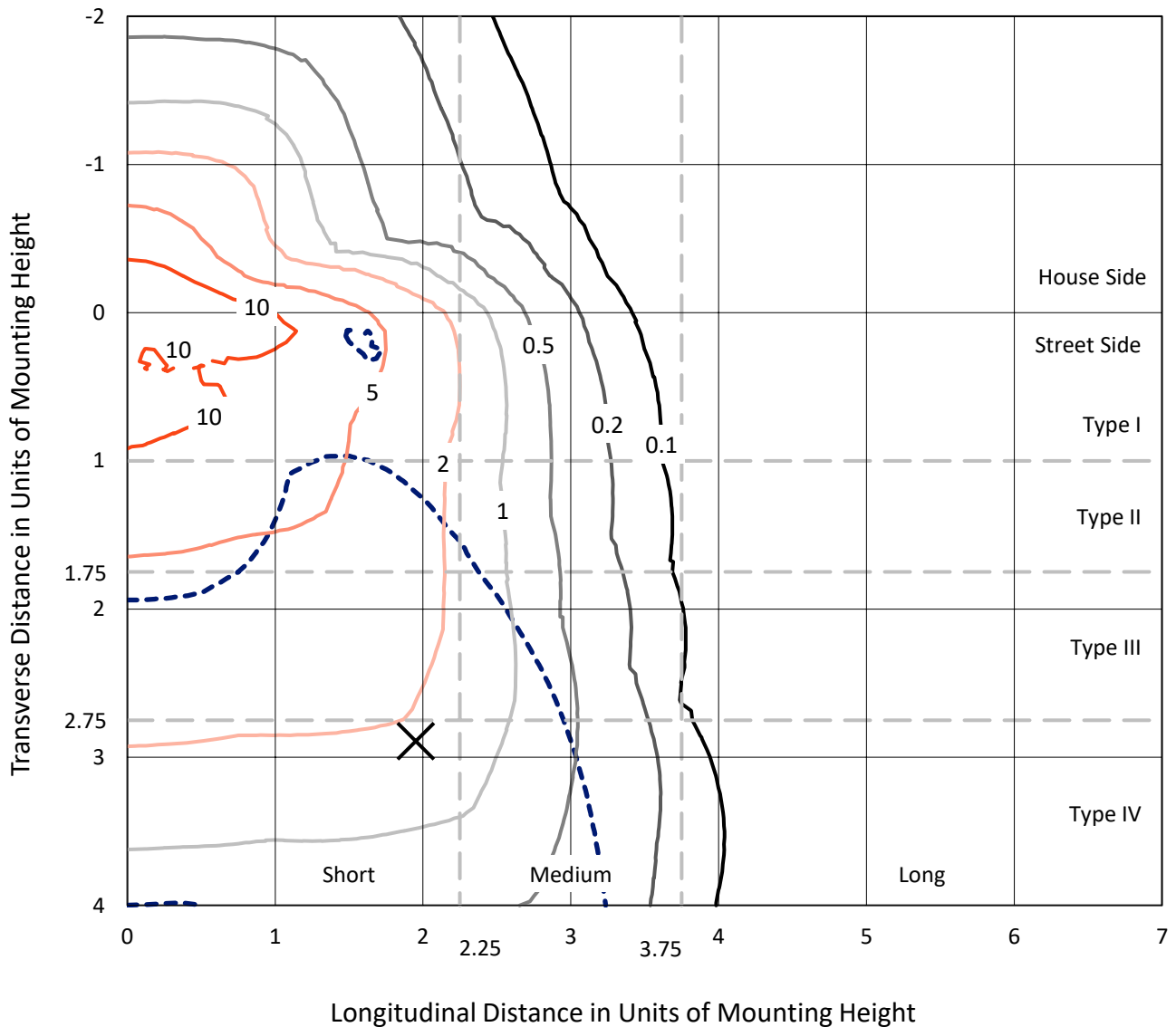
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

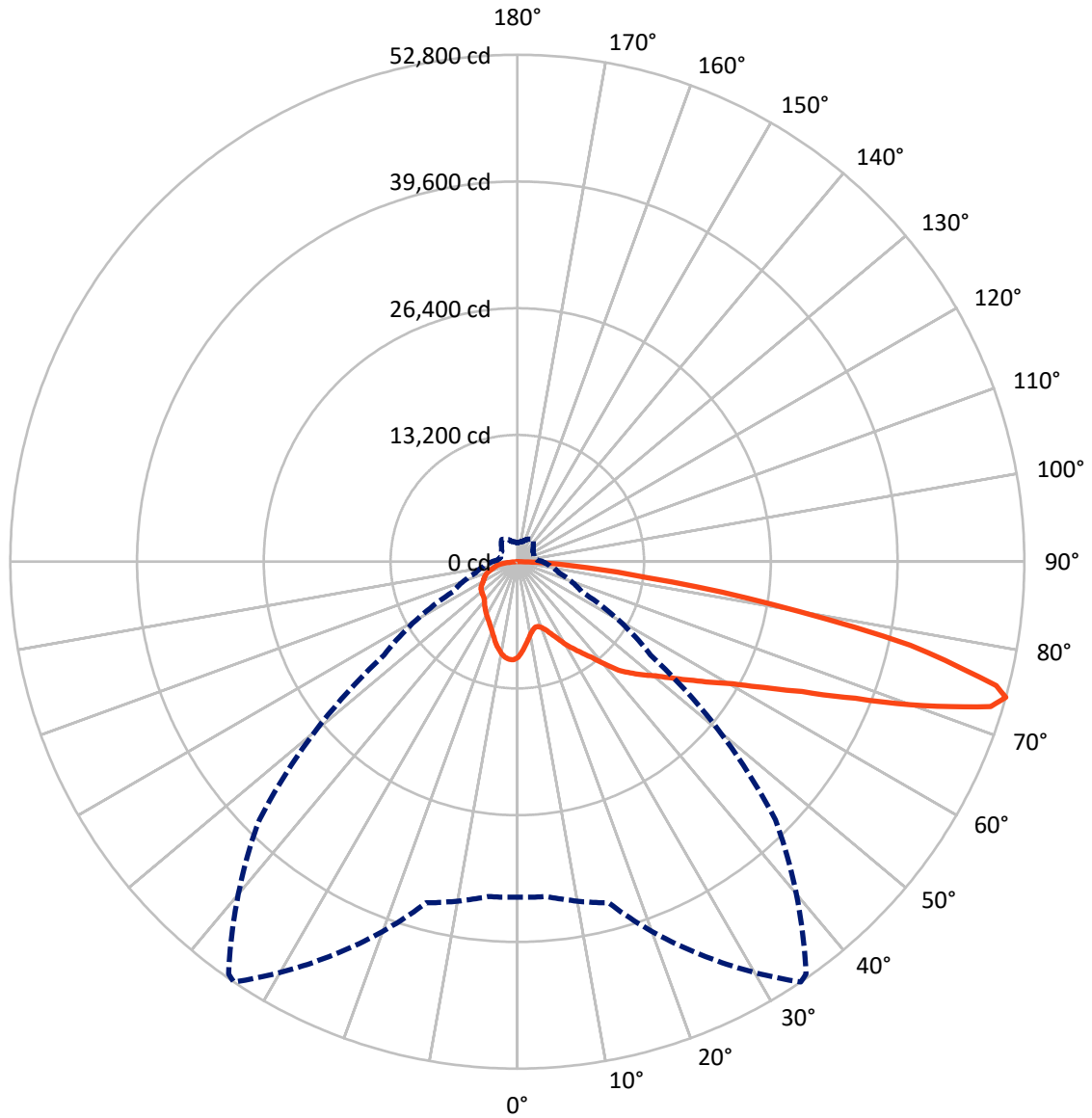
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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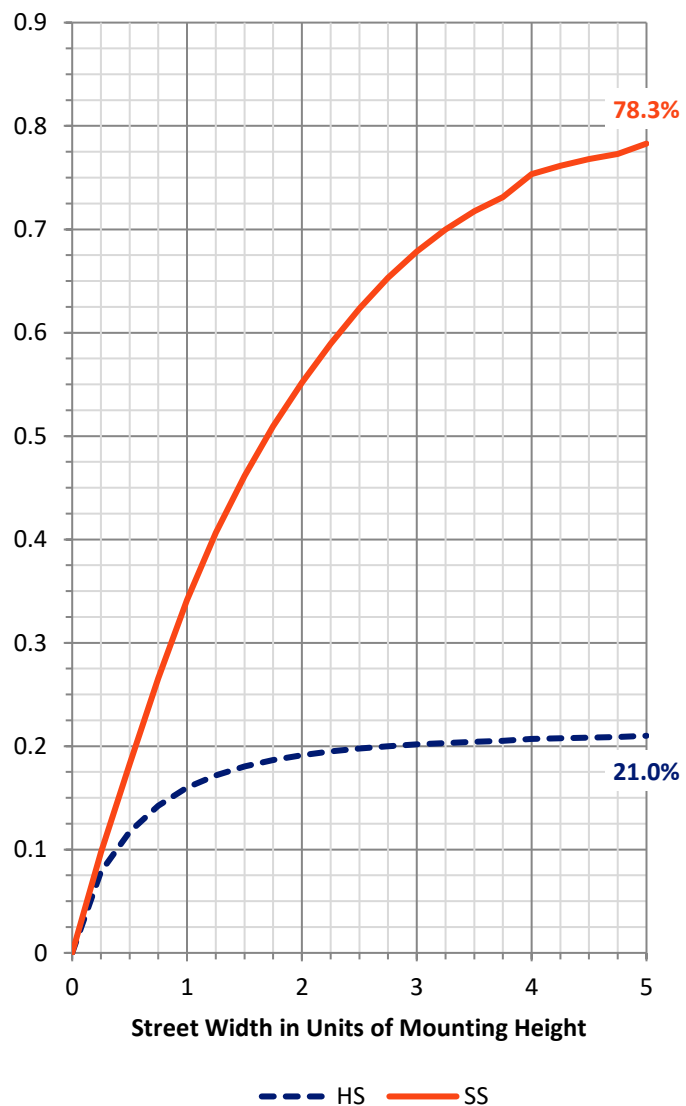
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13872.0	0.0	13872.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	51314.0	0.0	51314.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	65186.0	0.0	65186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	905.2	1.4
10°-20°	2477.8	3.8
20°-30°	4085.3	6.3
30°-40°	6119.2	9.4
40°-50°	8895.7	13.6
50°-60°	12425.2	19.1
60°-70°	15555.7	23.9
70°-80°	12863.3	19.7
80°-90°	1858.6	2.9
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°	65186.0	100.0
0°-180°	65186.0	100.0

Coefficient of Utilization



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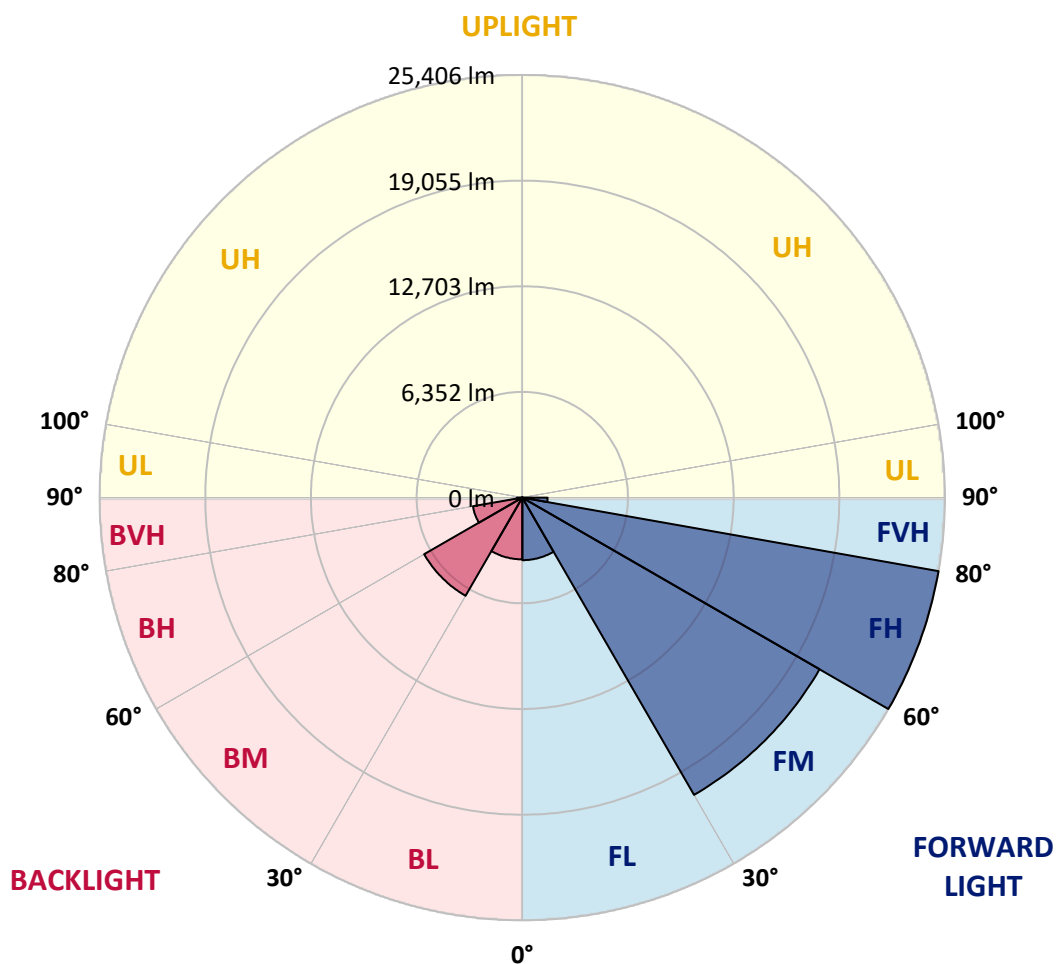
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3757.7	5.8			
FM	(30°-60°)	20627.5	31.6			
FH	(60°-80°)	25406.1	39.0			G5
FVH	(80°-90°)	1522.7	2.3			G5
BL	(0°-30°)	3710.5	5.7	B4/5000		
BM	(30°-60°)	6812.6	10.5	B4/8500		
BH	(60°-80°)	3012.9	4.6	B4/5000		G4/5000
BVH	(80°-90°)	336.0	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6
2.5°	9197.9	9244.8	9270.1	9360.4	9382.0	9410.9	9486.8	9587.9	9717.9	9833.4	9934.6
5°	8432.3	8504.5	8547.8	8627.3	8782.6	8797.0	8999.2	9230.4	9494.0	9739.5	9941.8
7.5°	7706.4	7785.9	7822.0	7966.4	8172.3	8204.8	8500.9	8865.6	9306.2	9678.2	9988.7
10°	7161.1	7200.8	7280.3	7388.6	7634.2	7655.9	8042.3	8529.8	9100.4	9649.3	10068.2
12.5°	6865.0	6886.7	6904.7	7020.3	7262.2	7294.7	7699.2	8251.7	8937.9	9670.9	10198.2
15°	6908.3	6915.5	6836.1	6857.8	7052.8	7099.7	7500.6	8067.5	8836.7	9725.1	10393.2
17.5°	7273.1	7247.8	7052.8	6951.7	7088.9	7110.6	7460.8	7995.3	8789.8	9826.2	10595.4
20°	7847.3	7811.1	7475.3	7251.4	7330.8	7348.9	7590.9	8049.5	8836.7	9992.3	10909.6
22.5°	8562.3	8547.8	8038.6	7767.8	7764.2	7764.2	7890.6	8244.5	8977.6	10219.8	11238.2
25°	9562.6	9486.8	8822.3	8472.0	8374.5	8367.3	8352.8	8565.9	9158.1	10461.8	11628.2
27.5°	10588.2	10458.2	9865.9	9327.9	9118.4	9093.1	8999.2	9020.9	9389.3	10736.3	12072.4
30°	11509.1	11426.0	10869.9	10274.0	10024.8	9967.1	9707.0	9587.9	9775.7	11231.0	12780.2
32.5°	12213.3	12162.7	11729.3	11187.7	10819.3	10808.5	10429.3	10331.8	10378.7	11830.5	13589.1
35°	12783.8	12801.9	12581.6	12112.1	11689.6	11628.2	11375.4	11252.7	11115.4	12697.2	14607.5
37.5°	13563.9	13603.6	13589.1	13184.7	12668.3	12682.7	12624.9	12422.7	12058.0	13665.0	15737.8
40°	14423.3	14452.2	14448.6	14293.3	14022.5	14036.9	14015.3	13784.2	13238.9	14896.4	16994.6
42.5°	15611.4	15474.2	15116.7	15272.0	15430.9	15499.5	15647.6	15427.3	14679.7	16210.9	18175.4
45°	16940.4	16680.4	15871.5	15943.7	16532.3	16662.3	17478.5	17175.1	16243.4	17720.4	19565.8
47.5°	17778.2	17521.8	16839.3	16824.8	17604.9	17731.3	19175.8	19063.8	17666.2	19349.1	21263.1
50°	18525.7	18489.6	17720.4	17904.6	18666.6	18854.4	21024.7	20920.0	19085.5	21270.3	23112.0
52.5°	19634.4	19341.9	18728.0	19107.1	20114.7	20360.2	22859.2	22552.3	20389.1	22967.6	24906.8
55°	20132.7	20064.1	20028.0	20356.6	21739.7	21916.7	24643.2	23939.0	21501.4	24404.8	26271.9
57.5°	21465.3	21338.9	21696.4	21920.3	23653.7	23924.6	26506.6	25387.1	22476.4	25546.0	26936.3
60°	23191.5	23122.9	23451.5	23855.9	25791.6	26203.3	28630.0	26622.2	23260.1	26120.2	26571.6
62.5°	25769.9	25762.7	25701.3	26568.0	28821.4	29200.6	31067.6	27824.7	23382.9	25690.5	24686.5
65°	29467.8	29337.8	28803.4	29749.5	32591.6	33035.7	33606.3	28496.4	22642.6	23484.0	20786.4
67.5°	33335.5	33328.3	32894.9	34122.7	38004.8	38463.5	36780.6	28348.3	20587.8	19024.1	14762.8
70°	36542.3	36387.0	36939.5	40211.3	44920.4	45451.2	39557.7	26604.1	16398.7	12563.5	8771.7
72.5°	37311.5	37318.7	38467.1	44905.9	51561.5	51644.5	40558.0	21562.8	10974.6	6930.0	4387.7
74°	34942.5	35003.9	36784.2	45140.7	52800.1	52424.6	38001.2	16947.6	7421.1	4524.9	3163.5
75°	31894.6	31508.2	34083.0	43577.0	51514.5	51110.1	35007.5	13600.0	5662.4	3614.9	2769.8
77.5°	17052.3	17446.0	21418.3	32519.3	41850.8	41385.0	23736.8	6521.9	3058.7	2517.0	1993.4
80°	6070.5	6695.3	9410.9	17016.2	26831.6	26976.1	11328.5	2990.1	2152.3	1856.2	1408.4
82.5°	2477.3	2545.9	4041.0	7551.1	13625.3	13755.3	4626.0	1776.7	1538.4	1278.4	841.4
85°	967.8	996.7	1787.6	3394.6	5814.1	6193.3	1599.8	938.9	946.1	733.1	429.7
87.5°	325.0	368.3	733.1	1130.3	1975.4	1935.6	465.9	278.1	339.5	317.8	133.6
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°	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6	9952.6
2.5°	9985.1	10053.7	10100.7	10151.2	10198.2	10212.6	10201.8	10234.3	10237.9	10241.5	10245.1
5°	10042.9	10136.8	10227.1	10277.6	10299.3	10281.2	10219.8	10187.3	10158.5	10136.8	10144.0
7.5°	10122.3	10256.0	10339.0	10360.7	10302.9	10219.8	10068.2	9949.0	9873.2	9822.6	9819.0
10°	10245.1	10375.1	10443.7	10382.4	10223.5	10021.2	9782.9	9559.0	9389.3	9338.7	9335.1
12.5°	10400.4	10548.5	10544.9	10364.3	10086.2	9725.1	9338.7	9078.7	8847.6	8732.0	8779.0
15°	10602.6	10714.6	10609.9	10284.8	9844.3	9349.5	8872.8	8518.9	8258.9	8136.2	8143.4
17.5°	10837.4	10934.9	10656.8	10144.0	9504.8	8869.2	8316.7	7980.9	7775.0	7684.7	7677.5
20°	11129.9	11158.8	10656.8	9898.4	9067.9	8309.5	7782.2	7547.5	7432.0	7385.0	7399.5
22.5°	11444.1	11386.3	10599.0	9551.8	8493.7	7724.5	7370.6	7265.8	7208.1	7200.8	7208.1
25°	11798.0	11635.5	10479.9	9082.3	7894.2	7218.9	7013.1	7031.1	7041.9	7041.9	7067.2
27.5°	12231.3	11906.3	10281.2	8490.1	7193.6	6749.4	6691.7	6818.0	6875.8	6886.7	6904.7
30°	12801.9	12202.4	9952.6	7749.7	6597.8	6326.9	6428.0	6597.8	6662.8	6702.5	6695.3
32.5°	13480.8	12527.4	9508.4	7009.4	6117.5	6030.8	6153.6	6326.9	6399.1	6420.8	6391.9
35°	14278.9	12895.8	8923.4	6316.1	5698.6	5749.1	5893.6	5947.7	6012.7	6012.7	6027.2
37.5°	15138.4	13191.9	8208.4	5680.5	5373.5	5557.7	5662.4	5611.9	5583.0	5546.9	5564.9
40°	16012.3	13412.2	7280.3	5052.1	5048.5	5359.1	5388.0	5243.5	5128.0	5091.9	5073.8
42.5°	16774.3	13549.4	6442.5	4564.6	4741.6	5164.1	5185.8	4954.6	4770.5	4662.1	4626.0
45°	17673.5	13708.3	5622.7	4160.2	4456.3	5008.8	5063.0	4752.4	4481.6	4254.1	4196.3
47.5°	18904.9	14069.4	4976.3	3846.0	4250.4	4911.3	4987.1	4586.3	4228.8	3932.7	3885.7
50°	20295.2	14564.2	4474.3	3632.9	4091.5	4824.6	4918.5	4416.6	3994.0	3665.4	3629.3
52.5°	21570.0	14831.4	4041.0	3441.5	3936.3	4665.7	4828.2	4293.8	3762.9	3398.2	3365.7
55°	22267.0	14398.1	3614.9	3253.7	3723.2	4459.9	4701.9	4124.1	3539.0	3257.4	3210.4
57.5°	22360.9	13502.5	3228.5	3051.5	3499.3	4207.1	4467.1	3918.2	3394.6	3159.8	3120.1
60°	21635.0	12166.3	2928.7	2885.4	3271.8	3921.8	4203.5	3737.6	3246.5	3051.5	3011.8
62.5°	19829.4	10714.6	2719.3	2733.7	3040.7	3622.1	4008.5	3564.3	3105.7	2932.3	2896.2
65°	16723.7	8844.0	2517.0	2578.4	2834.8	3387.4	3831.5	3419.9	2964.8	2842.1	2809.6
67.5°	11617.4	6384.7	2350.9	2415.9	2639.8	3149.0	3625.7	3264.6	2805.9	2740.9	2690.4
70°	6431.6	3929.0	2155.9	2231.8	2437.6	2881.8	3394.6	3029.8	2574.8	2545.9	2473.7
72.5°	3380.1	2502.6	1935.6	2018.7	2163.1	2538.7	3040.7	2773.4	2347.3	2224.5	2130.6
74°	2639.8	2051.2	1787.6	1874.2	1971.7	2336.5	2831.2	2589.3	2184.8	2040.4	1968.1
75°	2300.4	1827.3	1661.2	1773.1	1859.8	2199.3	2668.7	2459.3	2094.5	1957.3	1892.3
77.5°	1625.1	1368.7	1357.8	1491.4	1538.4	1928.4	2405.1	2239.0	1867.0	1722.6	1661.2
80°	1141.2	1025.6	1076.2	1159.2	1224.2	1704.5	2231.8	1935.6	1531.2	1361.4	1339.8
82.5°	743.9	671.7	769.2	845.0	866.7	1256.7	1802.0	1469.8	1115.9	906.4	841.4
85°	343.1	335.8	440.6	429.7	426.1	613.9	1068.9	859.5	642.8	480.3	451.4
87.5°	86.7	83.1	108.3	90.3	108.3	93.9	97.5	25.3	3.6	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)