

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: P651562

Luminaire Tested: **GALN-SA8D-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52439.7 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

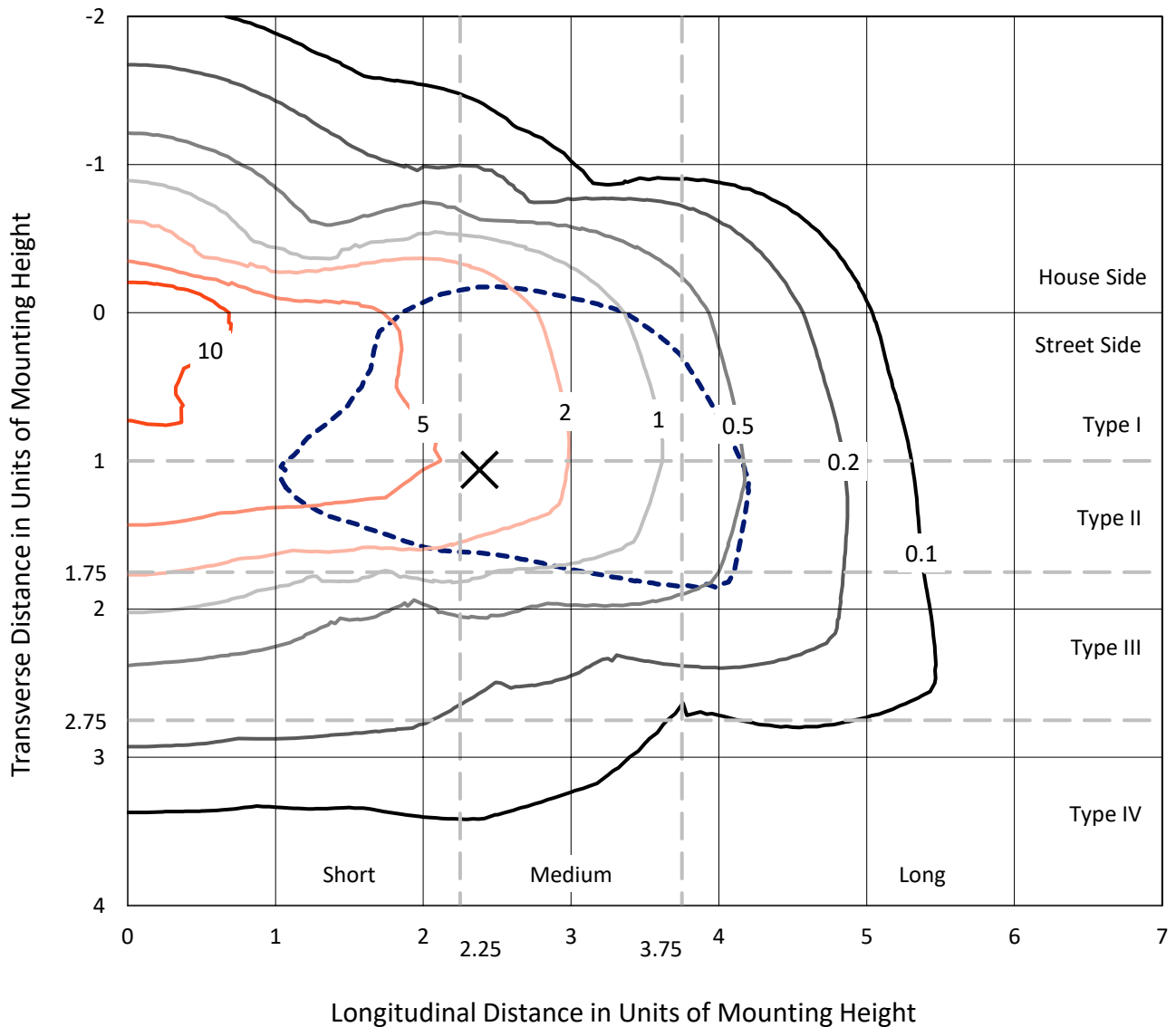
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651562
 CATALOG NUMBER: GALN-SA8D-840-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

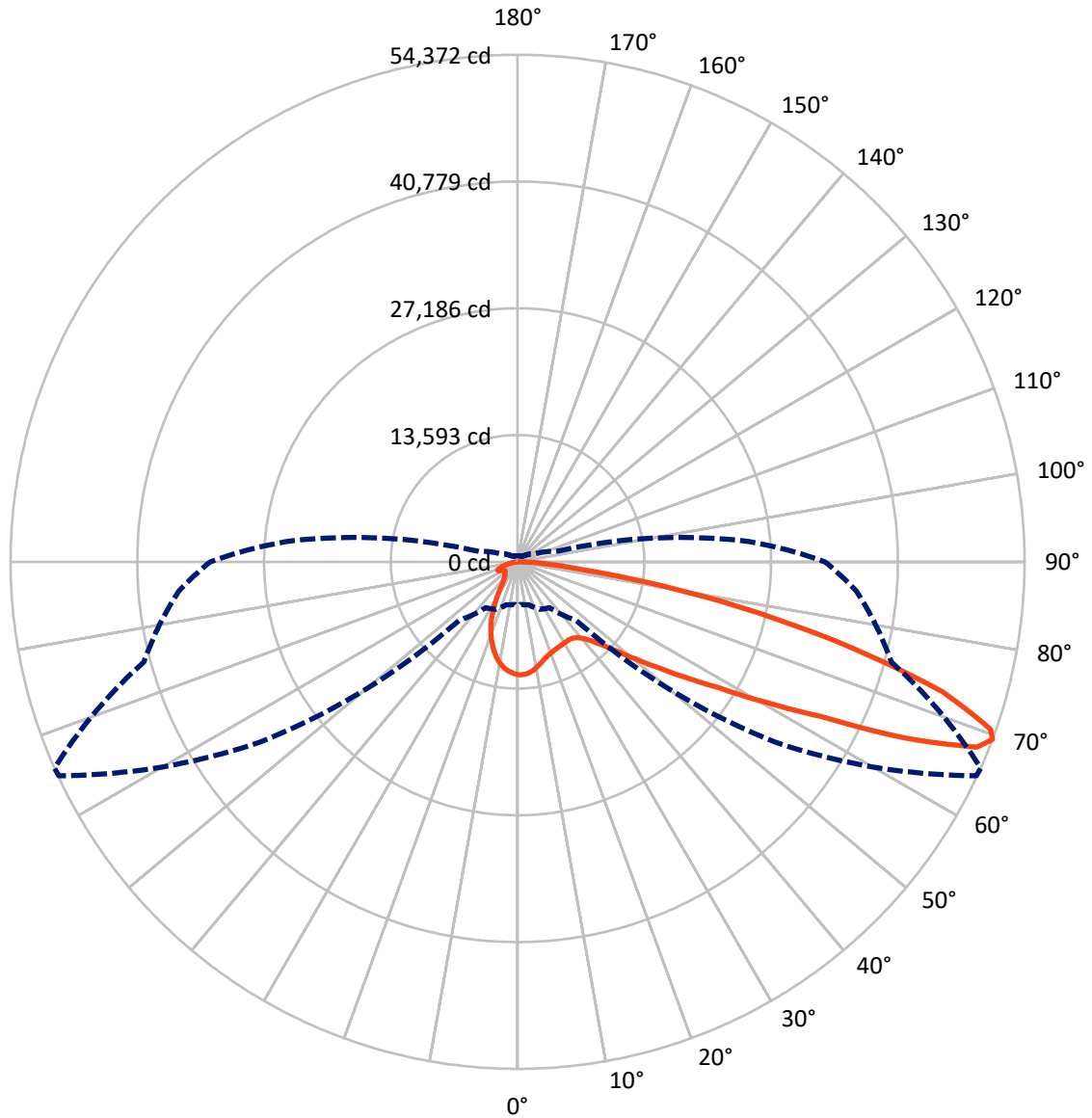
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc
 Type III - Medium - N/A

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CATALOG NUMBER: GALN-SA8D-840-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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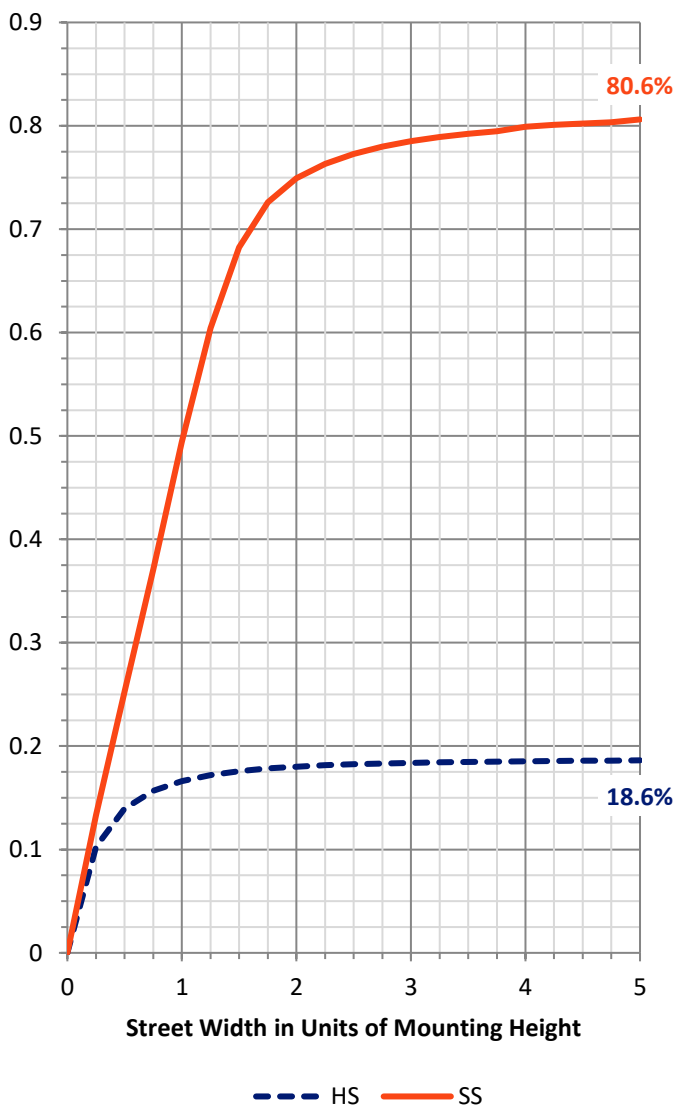
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9861.9	0.0	9861.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	42577.8	0.0	42577.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	52439.7	0.0	52439.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1051.6	2.0
10°-20°	2494.3	4.8
20°-30°	3395.7	6.5
30°-40°	4563.1	8.7
40°-50°	6813.4	13.0
50°-60°	10837.8	20.7
60°-70°	13330.0	25.4
70°-80°	8673.1	16.5
80°-90°	1280.8	2.4
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°	52439.7	100.0
0°-180°	52439.7	100.0

Coefficient of Utilization

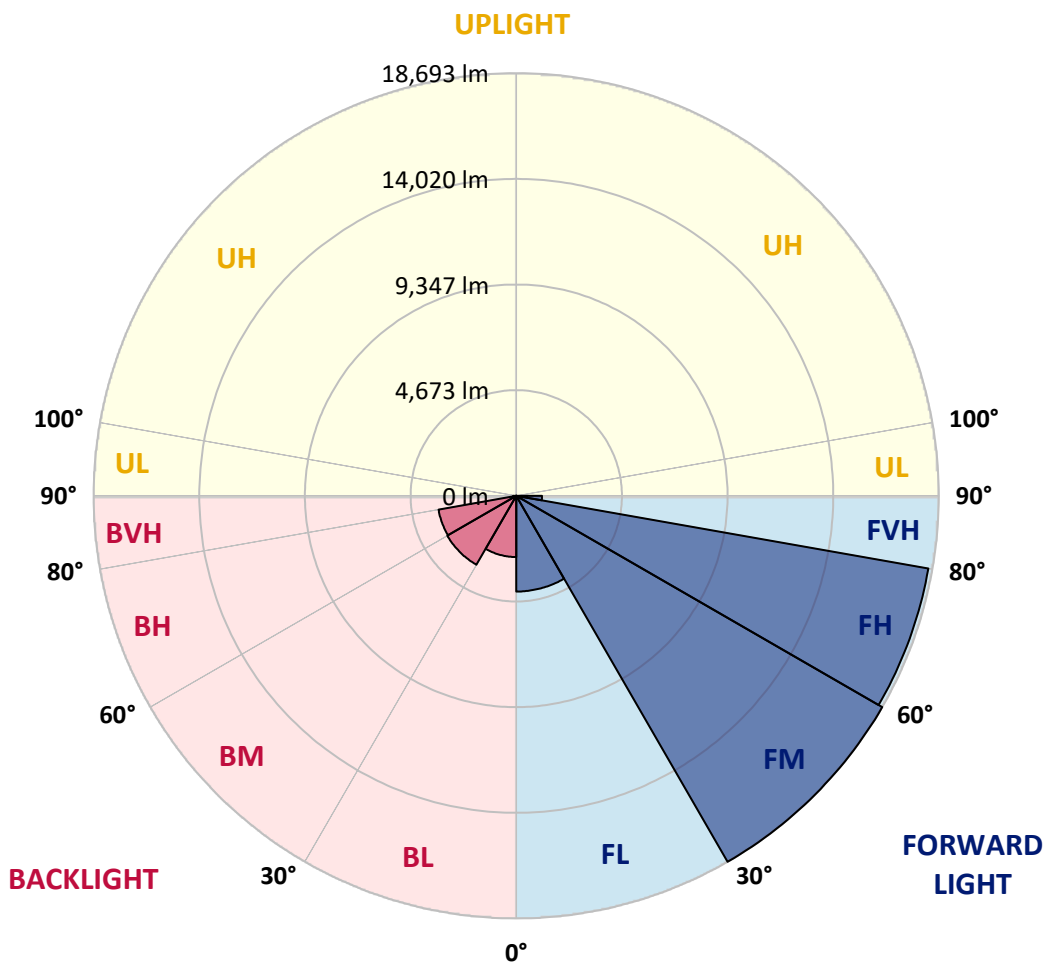


REPORT NUMBER: P651562
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4234.4	8.1			
FM (30°-60°)	18693.2	35.6			
FH (60°-80°)	18511.5	35.3			G5
FVH (80°-90°)	1138.7	2.2			G5
BL (0°-30°)	2707.1	5.2	B4/5000		
BM (30°-60°)	3521.1	6.7	B3/5000		
BH (60°-80°)	3491.6	6.7	B4/5000		G4/5000
BVH (80°-90°)	142.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	12109.8	12109.8	12109.8	12109.8	12109.8	12109.8	12109.8	12109.8	12109.8	12109.8	12109.8
2.5°	11685.8	11732.3	11784.5	11842.6	11953.0	12013.9	12057.5	12106.9	12112.7	12138.8	12118.5
5°	10823.3	10878.5	10956.9	11067.2	11232.7	11491.3	11758.4	11976.2	12002.3	12124.3	12159.2
7.5°	10103.1	10135.1	10199.0	10376.1	10611.3	10898.8	11288.0	11729.3	11793.3	12083.7	12185.3
10°	9516.5	9548.5	9623.9	9806.9	10039.2	10399.3	10826.2	11407.0	11459.3	11958.8	12191.1
12.5°	9078.0	9107.0	9188.3	9368.4	9635.6	9972.4	10442.9	11058.6	11134.0	11793.3	12135.9
15°	8744.0	8799.2	8866.0	9014.1	9295.8	9621.0	10076.9	10739.1	10800.0	11619.0	12098.2
17.5°	8601.7	8627.8	8674.3	8810.8	9017.0	9336.4	9795.3	10489.4	10562.0	11497.1	12089.5
20°	8607.6	8633.7	8642.4	8717.9	8866.0	9141.8	9594.9	10291.9	10378.9	11389.6	12104.0
22.5°	8805.0	8807.9	8776.0	8749.8	8807.9	9037.3	9452.6	10143.7	10245.4	11343.2	12115.6
25°	9110.0	9162.2	9115.8	8993.7	8886.3	8996.7	9397.4	10062.5	10158.3	11276.3	12101.1
27.5°	9603.6	9612.3	9574.5	9409.0	9130.2	9048.9	9374.2	10001.4	10082.7	11226.9	12028.5
30°	10265.8	10239.6	10204.8	10021.8	9583.3	9249.3	9423.6	9946.3	10030.5	11154.4	11941.4
32.5°	10936.5	11017.9	10985.9	10771.0	10201.8	9638.4	9583.3	9940.5	10010.2	11099.2	11845.5
35°	11648.0	11685.8	11836.8	11726.5	11142.7	10268.6	9882.4	10030.5	10085.7	11102.1	11778.7
37.5°	12205.6	12307.3	12661.6	12757.4	12208.5	11102.1	10367.3	10286.0	10309.3	11244.4	11804.9
40°	12879.3	13053.6	13509.5	13901.6	13541.4	12185.3	11192.1	10759.4	10788.4	11587.0	11976.2
42.5°	13733.1	13855.1	14467.9	14999.3	14941.2	13617.0	12191.1	11534.8	11549.3	12269.5	12455.4
45°	14732.1	14906.4	15594.6	16393.2	16529.7	15237.4	13634.4	12708.0	12699.3	13329.5	13349.8
47.5°	16009.9	16117.3	16799.8	17671.0	18222.8	17273.1	15385.5	14392.4	14299.4	14874.4	14708.9
50°	17186.0	17354.5	17871.3	18823.9	20197.5	19657.4	17688.4	16576.2	16358.4	16895.6	16616.8
52.5°	17679.7	17856.9	18292.4	19474.4	21890.6	22741.4	20612.7	19181.1	18818.0	19230.5	19128.8
55°	16823.0	17052.5	17459.0	18896.5	22634.0	26298.8	24556.4	22192.6	21928.3	21751.1	21780.2
57.5°	14520.1	14737.9	15286.8	16872.4	21745.3	28880.5	30187.4	26063.6	25497.4	24681.3	24820.7
60°	11052.8	11189.3	11473.8	13230.8	19111.4	29551.4	36582.0	30956.9	30596.8	27599.9	27698.6
62.5°	7849.6	8003.5	8200.9	9078.0	13991.6	27660.8	41588.5	37790.1	36503.6	30622.9	30527.1
65°	6374.4	6269.8	6507.9	6917.4	8209.7	21437.5	42715.3	47274.6	45503.1	34604.4	33274.3
67.5°	5241.8	5131.4	5366.7	6095.6	6243.7	12443.8	38655.5	53431.2	53076.9	38934.3	36065.1
69°	4640.6	4582.5	4788.7	5619.3	5993.9	8837.0	33675.1	54287.9	54372.1	41487.0	36494.9
70°	4181.8	4205.0	4405.4	5378.3	5880.7	7286.2	28781.8	53106.0	53820.3	42761.7	36030.2
72.5°	3078.2	3127.6	3406.4	4454.8	5773.2	6182.7	17128.0	46386.0	47649.3	42837.3	32960.7
75°	2151.9	2128.7	2375.5	3354.2	5453.8	6127.5	10059.5	35873.4	37305.1	37026.3	27695.7
77.5°	1408.4	1446.2	1643.7	2369.7	4588.3	6081.0	6557.3	25450.8	26380.2	24762.7	16381.6
80°	993.1	990.3	1100.6	1617.6	3403.5	5842.9	5369.5	16041.8	15806.6	9731.4	4858.5
82.5°	569.2	609.8	737.6	1138.4	2276.8	5143.1	4939.8	7672.4	7004.5	2773.4	1640.8
85°	316.6	331.0	438.5	688.3	1330.0	3874.0	4312.5	3490.7	3293.2	1158.7	705.7
87.5°	101.7	110.3	182.9	348.5	604.0	1829.5	2442.3	1611.7	1486.9	418.1	284.6
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°	12109.8	12109.8	12109.8	12109.8	12109.8	12109.8	12109.8	12109.8	12109.8	12109.8	12109.8
2.5°	12127.2	12162.0	12069.1	11979.1	11897.8	11784.5	11682.9	11598.7	11540.6	11531.9	11502.9
5°	12167.8	12170.8	11993.6	11755.5	11523.2	11267.6	11003.4	10814.6	10637.5	10538.7	10489.4
7.5°	12196.9	12170.8	11851.3	11465.1	11017.9	10553.2	10088.6	9716.8	9429.4	9316.1	9359.7
10°	12185.3	12104.0	11636.4	11017.9	10367.3	9673.4	9005.3	8482.7	8003.5	7756.6	7762.4
12.5°	12121.4	11987.8	11317.0	10515.4	9560.1	8630.8	7608.5	6902.8	6348.2	6020.0	5918.4
15°	12066.2	11833.9	10942.3	9833.1	8645.3	7318.1	6072.4	5201.1	4736.4	4478.0	4475.1
17.5°	12008.1	11685.8	10532.9	9110.0	7594.1	5886.5	4579.7	3914.6	3696.8	3722.9	3679.4
20°	11947.2	11511.5	10106.0	8305.5	6313.4	4390.9	3429.7	3159.6	3220.5	3339.6	3357.0
22.5°	11877.4	11325.7	9647.2	7419.8	4965.9	3304.8	2782.0	2741.4	2898.3	3084.1	3110.2
25°	11770.0	11093.4	9069.3	6493.4	3830.4	2663.0	2436.5	2465.6	2619.5	2776.2	2793.6
27.5°	11619.0	10805.8	8485.5	5337.6	2877.9	2285.5	2227.4	2265.1	2340.7	2436.5	2459.7
30°	11415.7	10480.6	7814.7	4338.6	2305.8	2096.7	2073.5	2093.8	2137.4	2178.0	2189.6
32.5°	11212.5	10167.0	7138.1	3322.2	2056.1	1971.8	1948.6	1948.6	1948.6	1954.4	1957.3
35°	11023.7	9870.8	6412.1	2587.5	1925.4	1873.1	1841.1	1806.3	1800.5	1780.1	1780.1
37.5°	10919.1	9600.7	5639.6	2166.4	1829.5	1791.8	1748.2	1690.2	1658.2	1661.1	1655.3
40°	10939.5	9423.6	4936.8	1928.2	1751.1	1710.5	1643.7	1576.9	1556.5	1556.5	1550.7
42.5°	11168.9	9365.5	4263.1	1803.4	1675.6	1629.2	1544.9	1483.9	1472.3	1469.4	1475.3
45°	11697.4	9507.8	3659.1	1722.1	1611.7	1542.1	1457.8	1402.6	1391.0	1391.0	1388.2
47.5°	12728.4	9969.6	3226.4	1669.8	1565.3	1475.3	1388.2	1333.0	1312.6	1306.8	1306.8
50°	14331.4	10971.4	2904.1	1623.4	1507.2	1414.2	1324.2	1260.3	1228.4	1225.5	1222.6
52.5°	16558.8	12533.8	2779.2	1588.5	1443.3	1350.4	1251.7	1190.7	1150.0	1141.3	1135.4
55°	19163.7	14714.7	2950.5	1562.3	1376.5	1277.7	1176.1	1112.2	1074.5	1057.1	1054.2
57.5°	22181.0	17334.1	3601.0	1527.5	1315.5	1199.4	1100.6	1036.7	996.1	975.7	969.9
60°	24890.4	20026.1	4736.4	1507.2	1263.3	1115.2	1013.5	955.5	917.7	897.3	894.4
62.5°	27867.0	22593.3	6092.6	1562.3	1240.1	1033.8	932.2	879.9	848.0	827.6	827.6
65°	31046.9	25163.4	6990.0	1748.2	1274.9	969.9	845.0	801.5	772.5	757.9	755.0
67.5°	33190.1	26052.0	5758.7	1939.9	1362.0	900.2	760.9	726.0	708.5	694.1	694.1
69°	32957.8	24928.2	4248.6	1989.2	1388.2	865.4	714.4	688.3	665.1	659.2	653.4
70°	32223.1	23647.5	3560.4	1957.3	1367.8	833.4	685.3	653.4	633.1	627.3	624.4
72.5°	28700.5	20508.2	2651.3	1701.8	1164.5	723.1	606.9	577.9	560.4	551.8	551.8
75°	23845.0	16762.1	2070.5	1353.3	911.9	609.8	519.8	496.6	482.1	476.3	473.3
77.5°	13364.3	9359.7	1486.9	1060.0	691.1	493.7	435.6	415.3	400.7	394.9	394.9
80°	3722.9	2674.6	874.1	699.9	470.5	374.6	345.6	331.0	310.7	296.2	304.9
82.5°	1402.6	1158.7	499.5	421.1	299.1	249.8	241.0	229.4	220.7	200.4	200.4
85°	682.5	563.4	319.4	223.6	165.5	130.7	124.9	119.1	113.3	98.7	101.7
87.5°	235.2	249.8	139.4	81.3	49.4	32.0	26.2	14.5	14.5	14.5	14.5
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)