

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: P530762

Luminaire Tested: **GALN-SA6A-730-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-730-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20716 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

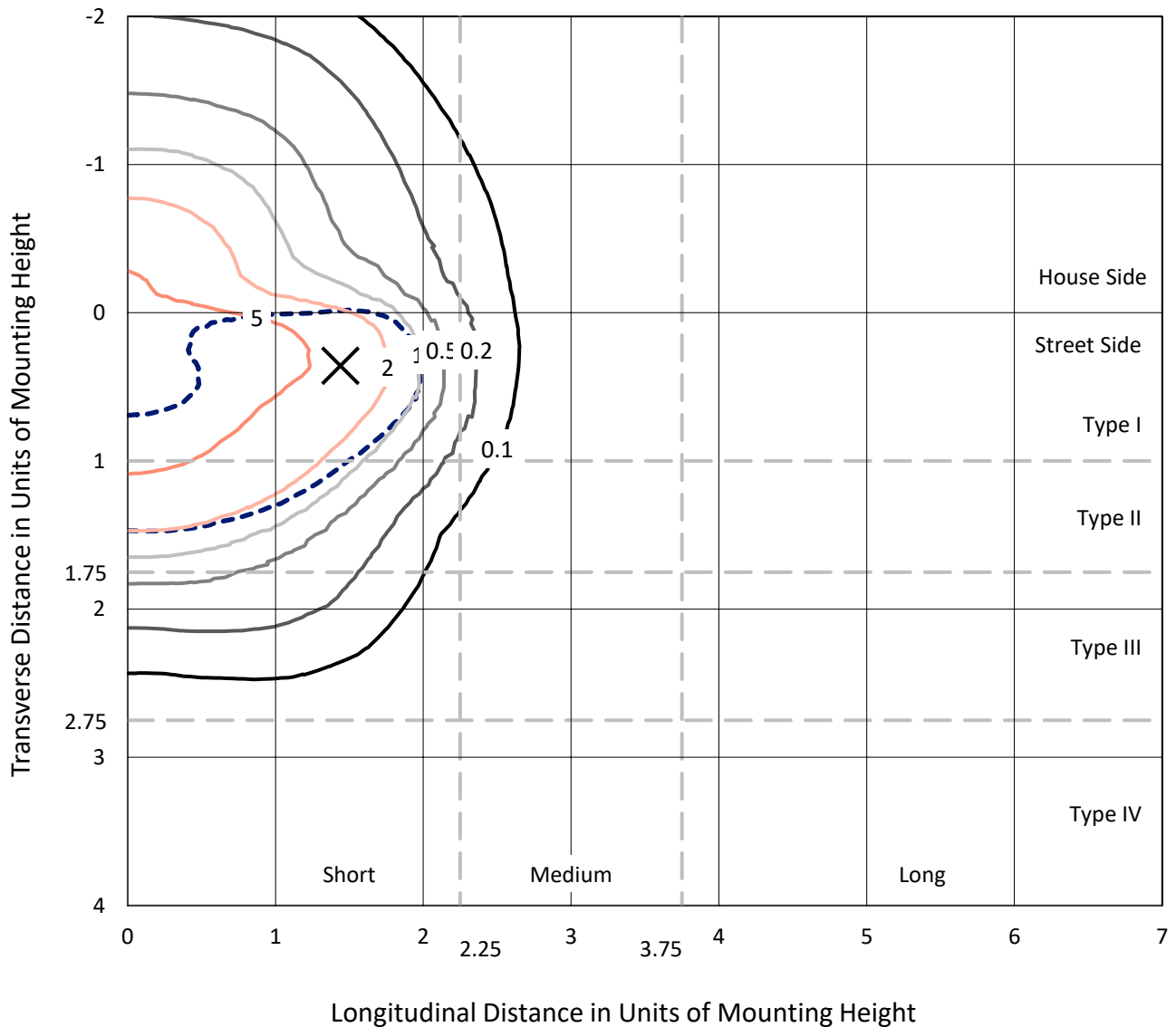
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530762
 CATALOG NUMBER: GALN-SA6A-730-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

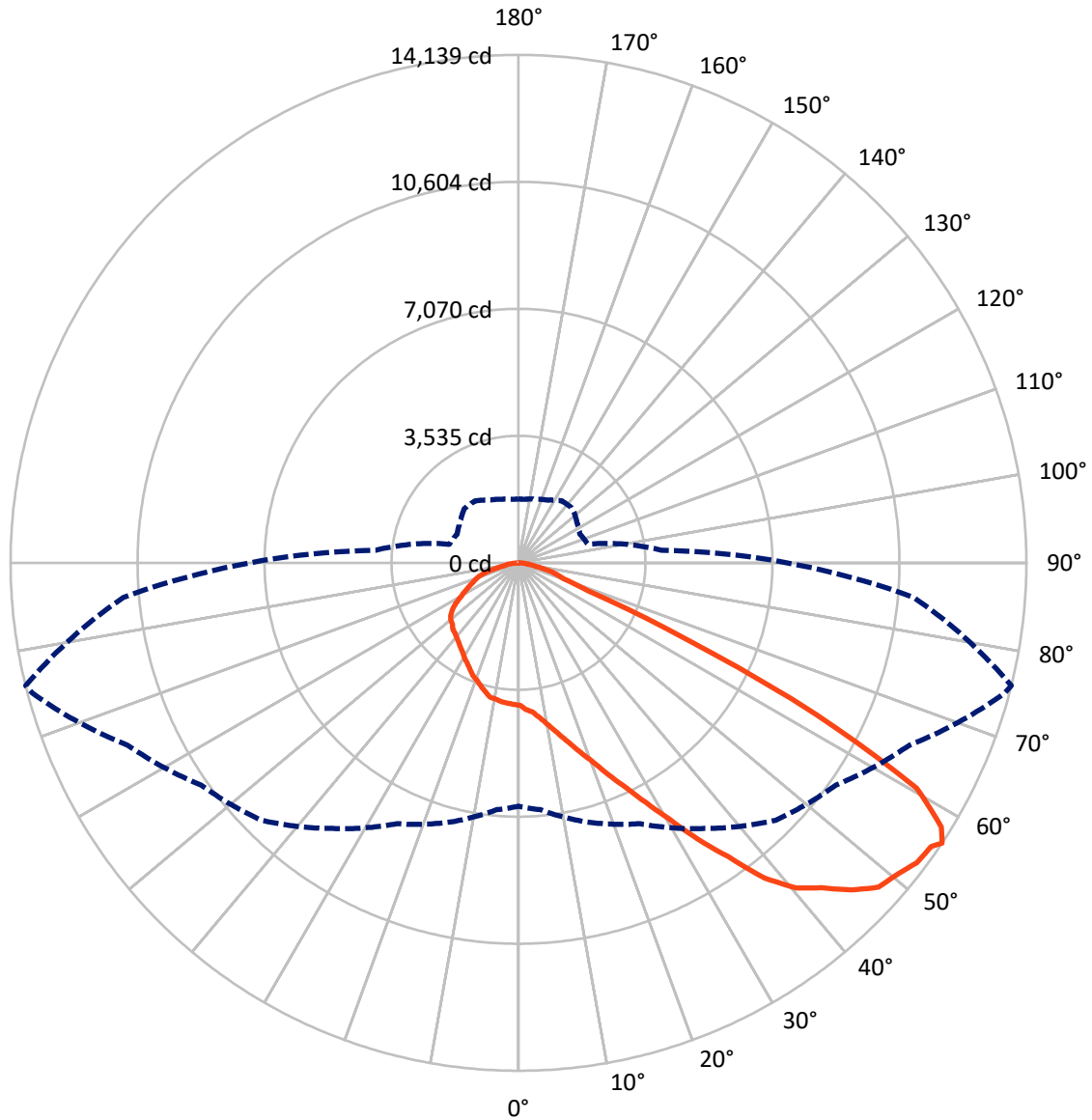
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

REPORT NUMBER: P530762
CATALOG NUMBER: GALN-SA6A-730-U-T2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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 CATALOG NUMBER: GALN-SA6A-730-U-T2-GRSWH

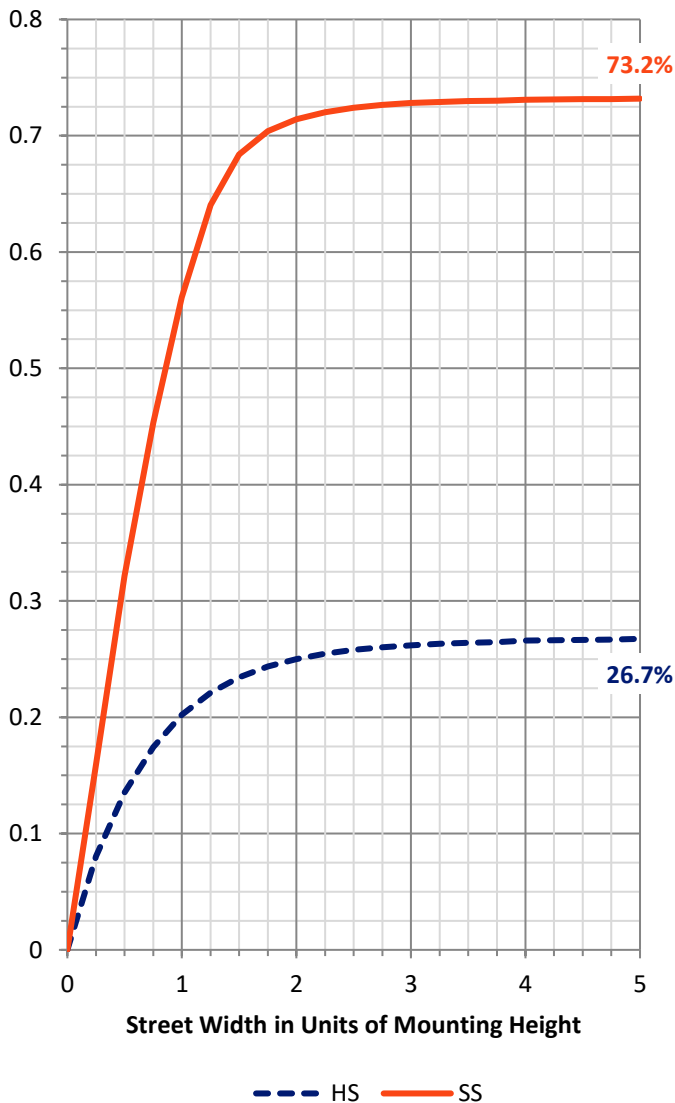
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5569.9	0.0	5569.9
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	15146.1	0.0	15146.1
	% Fixture	73.1	0.0	73.1
Total	Lumens	20716.0	0.0	20716.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.1	1.9
10°-20°	1234.8	6.0
20°-30°	2159.5	10.4
30°-40°	3381.2	16.3
40°-50°	4918.6	23.7
50°-60°	5405.9	26.1
60°-70°	2413.0	11.6
70°-80°	697.0	3.4
80°-90°	113.1	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°	20716.0	100.0
0°-180°	20716.0	100.0



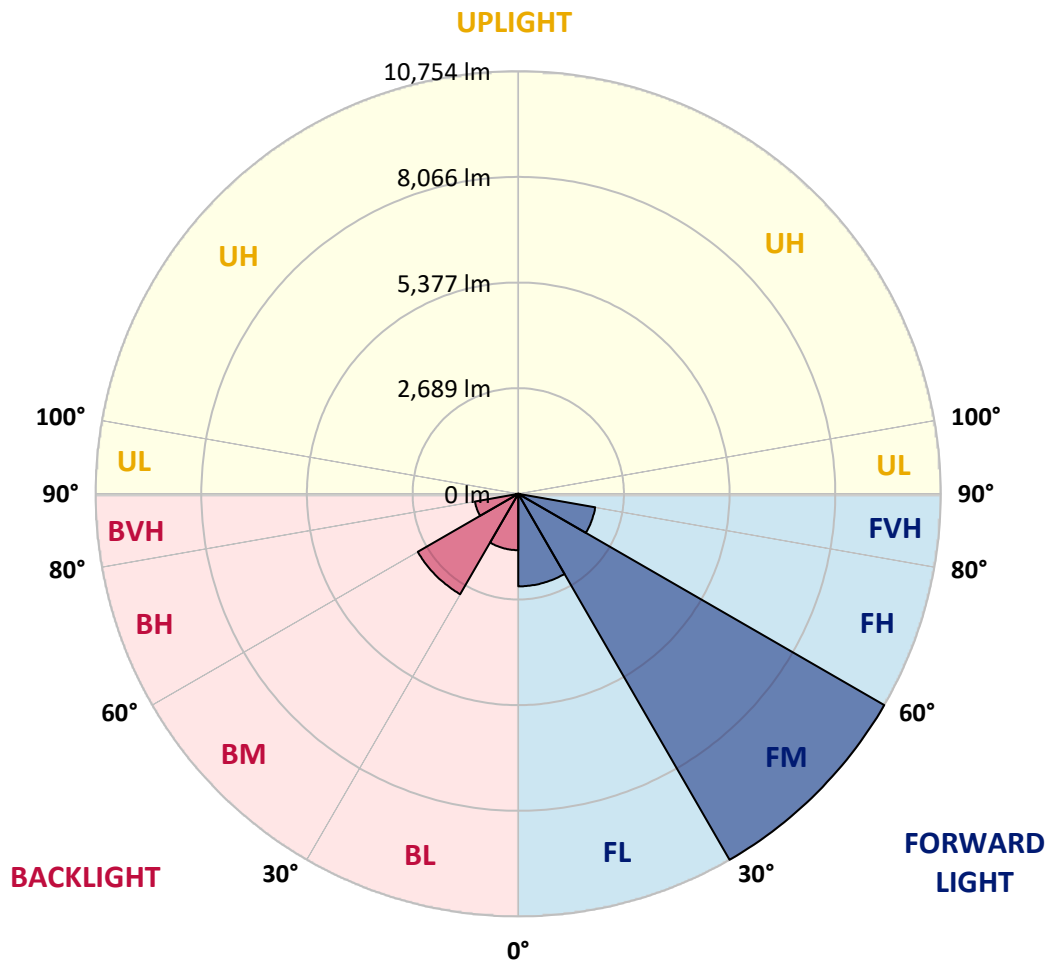
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 CATALOG NUMBER: GALN-SA6A-730-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2354.1	11.4			
FM (30°-60°)	10754.1	51.9			
FH (60°-80°)	1989.2	9.6			G2/5000
FVH (80°-90°)	48.7	0.2			G1/100
BL (0°-30°)	1433.2	6.9	B3/2500		
BM (30°-60°)	2951.6	14.2	B3/5000		
BH (60°-80°)	1120.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	64.4	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





REPORT NUMBER: P530762

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7
2.5°	4366.6	4296.7	4291.4	4272.6	4283.3	4235.0	4183.9	4116.8	4047.0	4090.0	3987.9
5°	4672.7	4578.7	4616.3	4551.9	4559.9	4495.5	4390.7	4312.9	4226.9	4175.9	4103.4
7.5°	4780.1	4788.2	4815.0	4804.3	4750.6	4750.6	4680.8	4543.8	4393.4	4363.9	4243.0
10°	4925.1	4927.8	4898.3	4906.3	4981.5	4946.6	4884.9	4825.8	4632.4	4597.5	4382.7
12.5°	4976.2	4927.8	4976.2	5019.1	5107.7	5156.1	5142.7	5099.7	4892.9	4868.7	4554.5
15°	4984.2	4954.7	4995.0	5091.6	5169.5	5373.6	5475.7	5446.1	5172.2	5174.9	4747.9
17.5°	4946.6	4986.9	5003.0	5086.3	5266.2	5456.9	5752.3	5792.5	5567.0	5532.0	4992.3
20°	4997.6	4968.1	4989.6	5064.8	5303.8	5601.9	5988.6	6254.4	5937.6	5913.4	5244.7
22.5°	5193.7	5153.4	5148.0	5196.4	5368.2	5677.1	6238.3	6716.3	6388.7	6402.1	5558.9
25°	5346.8	5368.2	5349.4	5346.8	5454.2	5789.9	6568.6	7266.9	7001.0	6923.1	5929.5
27.5°	5609.9	5661.0	5623.4	5674.4	5650.2	5959.0	6805.0	7876.5	7661.6	7556.9	6265.2
30°	5975.2	6002.0	5967.1	5967.1	5894.6	6195.4	7019.8	8512.9	8424.3	8282.0	6659.9
32.5°	6455.8	6496.1	6426.3	6386.0	6375.3	6547.2	7406.5	9141.3	9291.7	9170.8	7183.6
35°	7092.3	7068.1	6984.9	6947.3	6802.3	7086.9	7981.2	9863.7	10258.5	10043.6	7817.4
37.5°	7653.6	7616.0	7610.6	7401.1	7436.0	7669.7	8469.9	10411.5	11195.7	11133.9	8486.1
40°	8177.2	8212.1	8268.5	8150.4	8096.7	8354.5	9039.3	10830.5	11923.4	11899.3	9001.7
42.5°	8738.5	8706.3	8805.6	8706.3	8625.7	8990.9	9656.9	11120.5	12562.6	12363.9	9541.4
45°	9552.2	9450.1	9485.0	9493.1	9434.0	9568.3	9912.0	11330.0	13011.1	12989.6	9936.2
47.5°	10231.6	10234.3	10175.2	10129.6	9949.6	10083.9	10196.7	11461.5	13526.7	13491.8	10089.3
50°	10484.0	10449.1	10621.0	10720.4	10731.1	10457.2	10419.6	11534.1	13797.9	13644.8	10242.3
52.5°	9576.4	9608.6	9879.8	10470.6	10811.7	10841.2	10680.1	11684.4	13908.0	13875.8	10365.9
55°	7707.3	7863.0	8308.8	8990.9	9799.2	10688.1	10962.1	11840.2	13967.1	13940.2	10913.7
56°	6775.4	6896.3	7476.3	8010.7	9025.8	10132.2	10784.8	12006.7	14012.7	14139.0	11042.6
57.5°	5454.2	5593.8	6010.1	6617.0	7814.7	9074.2	10296.1	11802.6	13835.5	13883.8	11136.6
60°	3410.5	3424.0	3923.5	4323.6	5166.8	6396.8	7857.7	10269.2	12804.3	12734.5	10003.3
62.5°	2237.0	2239.7	2693.5	3021.1	3405.2	3687.1	4624.4	6810.3	9447.5	9323.9	7121.8
65°	1571.0	1605.9	1957.7	2395.4	2551.2	2403.5	2373.9	3590.5	5276.9	5099.7	3826.8
67.5°	1149.4	1152.1	1463.6	1933.5	2159.1	1828.8	1485.1	1753.6	2089.3	2083.9	1772.4
70°	760.0	792.2	1031.2	1444.8	1702.6	1468.9	1213.8	1254.1	1329.3	1329.3	1318.6
72.5°	443.1	472.6	631.1	915.7	956.0	918.4	961.4	1074.2	1122.5	1119.8	1106.4
75°	252.4	265.9	300.8	381.3	475.3	561.3	706.3	813.7	862.0	891.6	856.7
77.5°	147.7	155.8	177.2	217.5	247.1	303.5	384.0	459.2	523.7	515.6	521.0
80°	77.9	77.9	99.4	128.9	171.9	214.8	255.1	298.1	333.0	341.1	349.1
82.5°	45.7	48.3	64.5	94.0	123.5	153.1	196.0	225.6	257.8	260.5	265.9
85°	24.2	26.9	40.3	61.8	83.2	94.0	96.7	91.3	99.4	94.0	107.4
87.5°	8.1	8.1	13.4	10.7	10.7	13.4	16.1	16.1	21.5	21.5	21.5
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°	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7
2.5°	3985.2	3985.2	3939.6	3853.6	3840.2	3805.3	3773.1	3770.4	3746.2	3724.7	3714.0
5°	4060.4	3977.2	3910.0	3832.2	3740.8	3697.9	3649.5	3595.8	3574.3	3595.8	3593.1
7.5°	4146.4	4076.5	3875.1	3730.1	3625.4	3582.4	3528.7	3472.3	3477.7	3477.7	3440.1
10°	4229.6	4135.6	3813.4	3628.1	3475.0	3442.8	3413.2	3434.7	3461.6	3466.9	3442.8
12.5°	4369.2	4157.1	3783.8	3526.0	3429.3	3359.5	3378.3	3437.4	3493.8	3477.7	3496.5
15°	4474.0	4175.9	3649.5	3421.3	3300.4	3332.7	3399.8	3440.1	3534.1	3523.3	3542.1
17.5°	4576.0	4186.6	3518.0	3281.6	3230.6	3319.2	3370.3	3485.7	3515.3	3579.7	3603.9
20°	4785.5	4208.1	3383.7	3195.7	3179.6	3281.6	3370.3	3424.0	3488.4	3544.8	3544.8
22.5°	4892.9	4197.4	3295.1	3082.9	3133.9	3198.4	3278.9	3370.3	3370.3	3424.0	3426.6
25°	5027.2	4154.4	3155.4	3029.2	3066.8	3128.6	3219.9	3187.6	3222.6	3222.6	3265.5
27.5°	5180.3	4063.1	3034.6	2932.5	3007.7	3074.9	3088.3	3066.8	3026.5	3021.1	3005.0
30°	5303.8	3950.3	2946.0	2900.3	2962.1	2999.7	2956.7	2911.0	2841.2	2835.8	2798.3
32.5°	5473.0	3810.7	2835.8	2819.7	2889.6	2892.2	2878.8	2809.0	2706.9	2664.0	2621.0
35°	5757.6	3730.1	2752.6	2776.8	2798.3	2790.2	2766.0	2690.8	2588.8	2570.0	2553.9
37.5°	5967.1	3671.0	2666.7	2696.2	2715.0	2725.7	2653.2	2570.0	2572.7	2535.1	2524.3
40°	6203.4	3633.4	2596.8	2610.3	2613.0	2647.9	2559.2	2519.0	2537.8	2513.6	2529.7
42.5°	6506.9	3644.2	2524.3	2513.6	2564.6	2551.2	2508.2	2454.5	2465.3	2392.7	2403.5
45°	6668.0	3716.7	2481.4	2433.0	2489.4	2486.7	2430.3	2379.3	2314.9	2175.2	2180.6
47.5°	6775.4	3735.5	2379.3	2347.1	2406.2	2441.1	2376.6	2258.5	2167.2	2067.8	2043.6
50°	6885.5	3770.4	2331.0	2263.8	2288.0	2371.3	2290.7	2177.9	2089.3	2000.7	2014.1
52.5°	6982.2	3837.5	2237.0	2137.6	2180.6	2271.9	2228.9	2092.0	1995.3	1922.8	1901.3
55°	7411.9	3987.9	2078.5	1949.6	2051.7	2167.2	2143.0	1976.5	1871.8	1834.2	1828.8
56°	7479.0	3993.3	1995.3	1885.2	1979.2	2132.3	2102.7	1925.5	1831.5	1772.4	1775.1
57.5°	7489.8	3928.8	1877.1	1826.1	1906.7	2081.2	2043.6	1885.2	1756.3	1702.6	1686.5
60°	6590.1	3066.8	1729.4	1697.2	1791.2	1925.5	1912.0	1775.1	1630.1	1568.3	1597.8
62.5°	4492.8	2247.7	1614.0	1608.6	1656.9	1788.5	1753.6	1630.1	1509.2	1468.9	1450.1
65°	2615.6	1705.3	1501.2	1479.7	1520.0	1589.8	1614.0	1485.1	1358.8	1332.0	1323.9
67.5°	1544.1	1409.9	1356.2	1321.2	1307.8	1350.8	1369.6	1294.4	1168.2	1130.6	1162.8
70°	1291.7	1254.1	1256.8	1197.7	1165.5	1136.0	1119.8	1052.7	948.0	899.6	886.2
72.5°	1114.5	1098.4	1087.6	1033.9	1004.4	937.2	867.4	800.3	722.4	682.1	684.8
75°	851.3	845.9	851.3	824.4	773.4	719.7	655.3	569.3	510.2	459.2	470.0
77.5°	507.6	523.7	531.7	521.0	499.5	451.2	410.9	354.5	298.1	257.8	252.4
80°	349.1	362.5	376.0	362.5	341.1	306.1	263.2	220.2	179.9	158.4	153.1
82.5°	265.9	279.3	287.3	273.9	247.1	209.5	179.9	150.4	118.2	96.7	91.3
85°	96.7	110.1	107.4	128.9	139.6	134.3	115.5	88.6	67.1	48.3	45.7
87.5°	26.9	24.2	26.9	26.9	26.9	24.2	21.5	21.5	21.5	13.4	10.7
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)