

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: P1210589

Luminaire Tested: **ARCH3-170-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-170-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22437 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 170.6
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



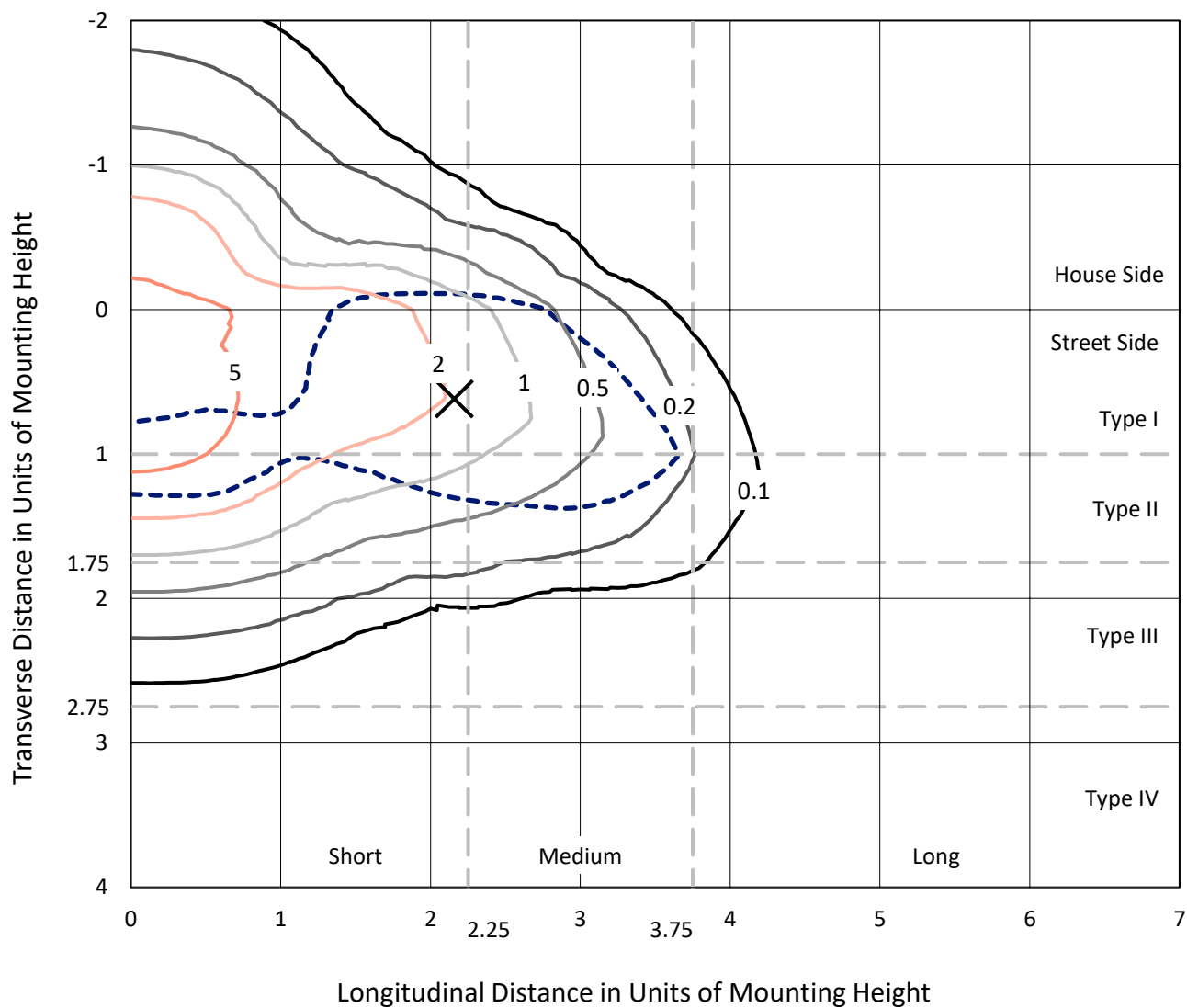
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Iso-Footcandle Lines of Horizontal Illumination

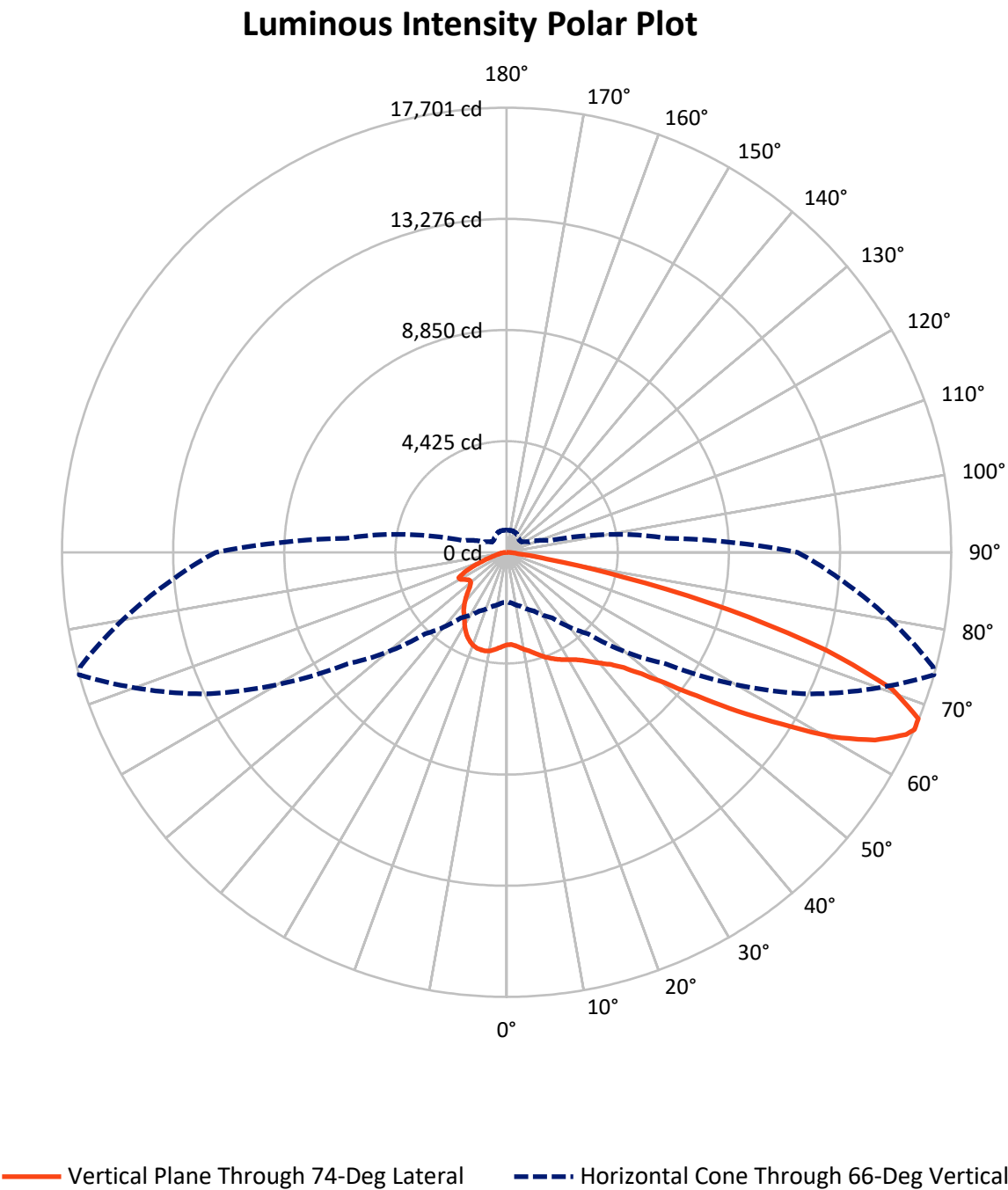
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type II - Short - N/A

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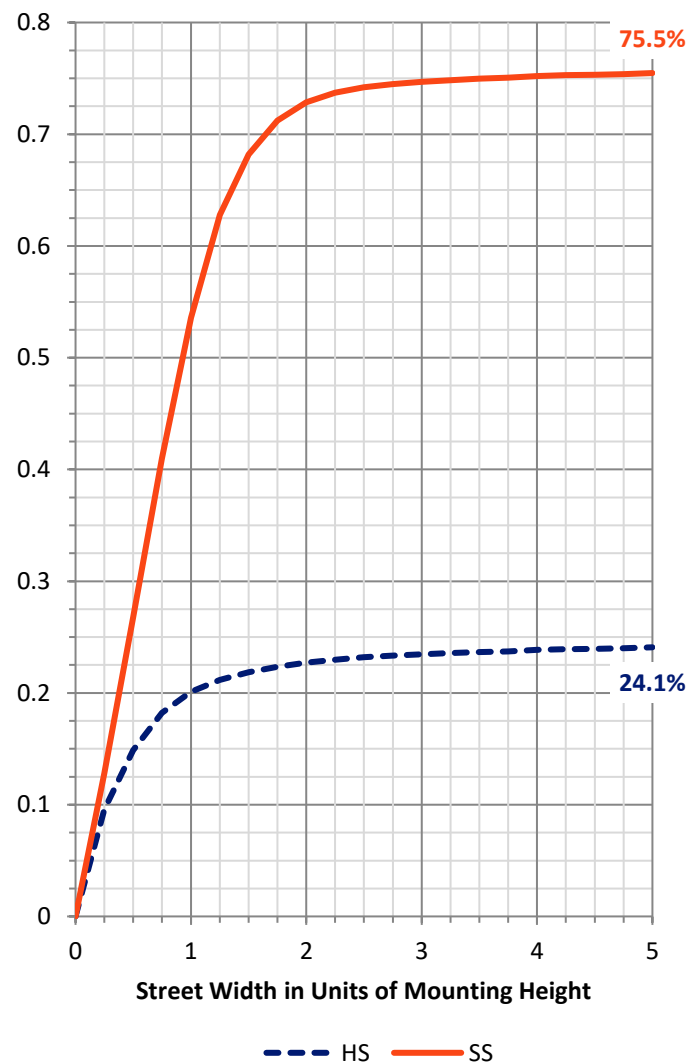
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5464.0	0.0	5464.0
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	16973.0	0.0	16973.0
	% Fixture	75.6	0.0	75.6
Total	Lumens	22437.0	0.0	22437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.9	1.6
10°-20°	1079.0	4.8
20°-30°	2024.7	9.0
30°-40°	3114.5	13.9
40°-50°	4189.3	18.7
50°-60°	4954.3	22.1
60°-70°	4583.0	20.4
70°-80°	1928.0	8.6
80°-90°	213.3	1.0
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°	22437.0	100.0
0°-180°	22437.0	100.0

Coefficient of Utilization



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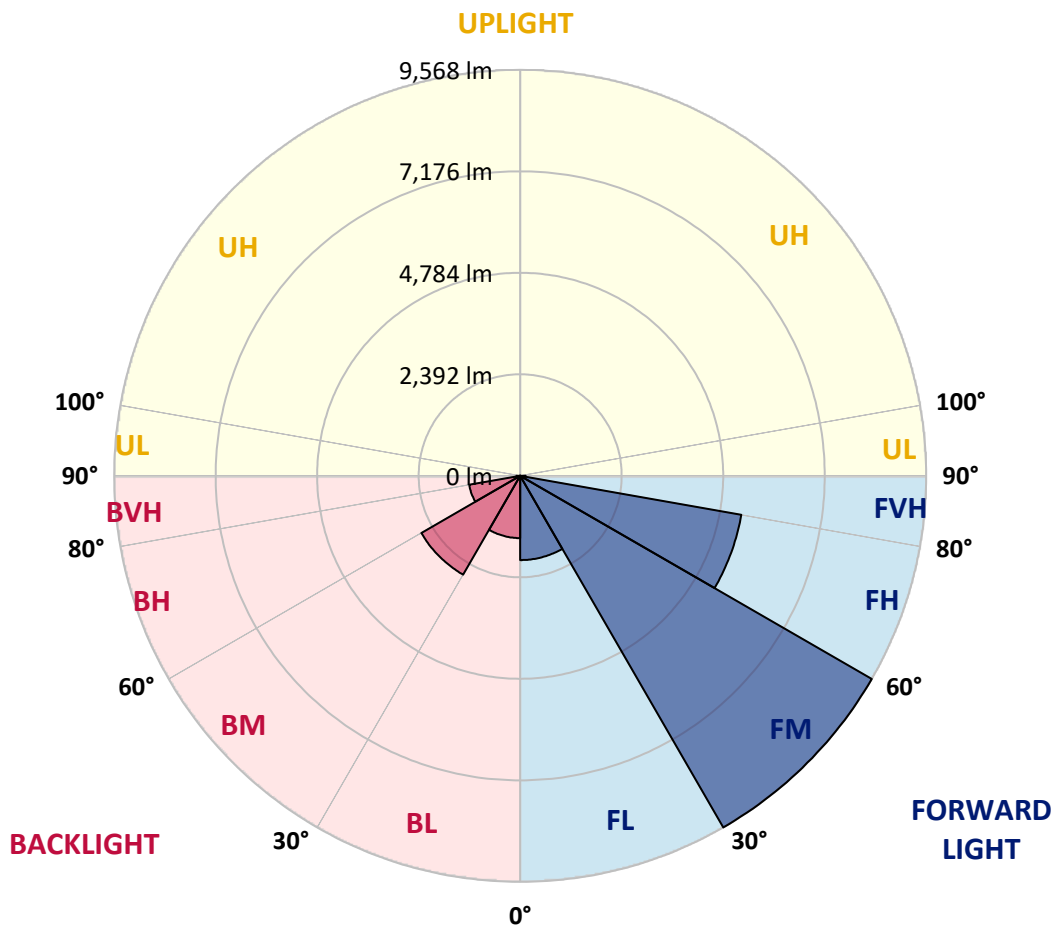
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1985.9	8.9			
FM	(30°-60°)	9568.1	42.6			
FH	(60°-80°)	5291.3	23.6			G3/7500
FVH	(80°-90°)	127.6	0.6			G2/225
BL	(0°-30°)	1468.6	6.5	B3/2500		
BM	(30°-60°)	2689.9	12.0	B3/5000		
BH	(60°-80°)	1219.8	5.4	B3/2500		G3/2500
BVH	(80°-90°)	85.7	0.4			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°	74°	75°	85°
0°	3678.2	3678.2	3678.2	3678.2	3678.2	3678.2	3678.2	3678.2	3678.2	3678.2	3678.2
2.5°	3666.6	3660.8	3672.4	3689.7	3698.4	3683.9	3678.2	3675.3	3675.3	3666.6	3681.1
5°	3493.4	3490.5	3516.5	3548.3	3608.9	3652.2	3709.9	3744.6	3733.0	3715.7	3727.3
7.5°	3268.2	3262.4	3294.2	3354.8	3438.5	3533.8	3675.3	3785.0	3828.3	3822.5	3819.6
10°	3354.8	3349.0	3346.2	3328.8	3357.7	3450.1	3597.3	3790.8	3938.0	3940.9	3943.8
12.5°	3655.1	3669.5	3655.1	3600.2	3536.7	3502.1	3588.7	3805.2	4030.4	4047.7	4119.9
15°	4065.0	4050.6	4021.7	3958.2	3860.1	3756.1	3692.6	3871.6	4163.2	4177.6	4336.4
17.5°	4425.9	4437.5	4420.2	4359.5	4244.0	4108.3	3914.9	3987.1	4304.7	4345.1	4567.4
20°	4818.6	4864.8	4841.7	4766.6	4671.3	4469.2	4226.7	4154.5	4460.6	4489.4	4807.0
22.5°	5271.9	5320.9	5277.6	5205.4	5127.5	4879.2	4567.4	4359.5	4590.5	4651.1	5038.0
25°	5814.6	5860.8	5820.4	5707.8	5609.6	5306.5	4934.1	4590.5	4717.5	4783.9	5225.7
27.5°	6244.8	6279.5	6317.0	6250.6	6100.5	5785.8	5315.2	4830.1	4844.6	4913.9	5398.9
30°	6628.8	6715.4	6747.2	6755.8	6628.8	6276.6	5704.9	5078.4	4954.3	5026.4	5572.1
32.5°	7154.2	7284.2	7232.2	7284.2	7209.1	6738.5	6109.1	5335.4	5095.7	5162.1	5736.7
35°	7922.2	8026.1	7890.5	7850.0	7728.8	7206.2	6498.9	5601.0	5283.4	5355.6	5892.6
37.5°	8747.9	8866.3	8670.0	8508.3	8277.3	7668.1	6833.8	5950.3	5543.2	5601.0	6036.9
40°	9469.7	9567.9	9397.5	9183.9	8797.0	8075.2	7122.5	6195.7	5803.1	5875.3	6204.4
42.5°	10136.6	10200.1	10009.6	9804.6	9287.8	8441.9	7434.3	6455.6	6106.2	6175.5	6340.1
45°	10812.2	10861.3	10595.7	10304.1	9697.8	8776.8	7777.9	6819.3	6550.8	6643.2	6559.5
47.5°	10933.5	10947.9	10901.7	10705.4	10021.1	9097.3	8202.3	7307.3	7229.3	7330.4	6937.7
50°	10093.3	10223.2	10509.1	10702.5	10151.1	9365.8	8626.7	8005.9	8164.7	8294.6	7723.0
52.5°	8462.1	8586.2	9247.4	9980.7	9839.2	9426.4	9082.8	8892.3	9484.1	9640.0	8791.2
55°	6741.4	6851.1	7549.8	8606.5	8831.7	9149.2	9570.7	10024.0	11167.3	11271.3	9963.4
57.5°	5551.9	5612.5	6112.0	7128.3	7489.1	8262.9	9833.5	11369.4	12879.4	13038.2	10982.5
60°	4553.0	4619.4	4991.8	5829.1	6308.3	6995.5	9625.6	12697.5	14923.4	14923.4	12290.4
62.5°	3427.0	3484.7	3831.2	4486.6	5292.1	5921.4	8961.6	13578.0	16465.2	16395.9	13237.4
65°	2353.0	2399.2	2650.4	3086.3	3811.0	5046.7	8055.0	13589.6	17487.2	17394.8	13641.6
66°	1974.8	2015.2	2228.8	2581.1	3190.2	4578.9	7734.6	13344.2	17700.8	17570.9	13471.2
67.5°	1559.0	1587.9	1729.4	1937.2	2338.6	3707.0	7229.3	12648.4	17680.6	17602.7	13038.2
70°	1114.4	1134.6	1238.6	1281.9	1382.9	2145.1	5742.4	11077.8	16263.1	16286.2	11334.8
72.5°	863.2	895.0	958.5	967.2	944.1	1140.4	3484.7	9241.6	13303.8	13295.1	8413.0
75°	695.8	713.1	744.9	762.2	756.4	736.2	1475.3	6894.4	9157.9	9264.7	4711.8
77.5°	548.5	545.7	574.5	597.6	615.0	577.4	675.6	4041.9	4801.3	4665.6	1769.8
80°	404.2	404.2	444.6	453.3	479.3	485.0	450.4	1559.0	1648.5	1498.4	459.0
82.5°	265.6	265.6	308.9	314.7	340.7	378.2	326.2	467.7	456.2	433.1	207.9
85°	144.4	138.6	153.0	173.2	187.7	222.3	196.3	233.9	239.6	236.7	138.6
87.5°	28.9	26.0	40.4	46.2	52.0	69.3	63.5	95.3	132.8	129.9	60.6
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°	3678.2	3678.2	3678.2	3678.2	3678.2	3678.2	3678.2	3678.2	3678.2	3678.2	3678.2
2.5°	3701.3	3698.4	3730.1	3767.7	3811.0	3837.0	3848.5	3868.7	3854.3	3860.1	3877.4
5°	3756.1	3764.8	3811.0	3860.1	3880.3	3865.8	3834.1	3822.5	3796.5	3790.8	3785.0
7.5°	3837.0	3851.4	3897.6	3909.1	3848.5	3747.5	3675.3	3634.9	3591.6	3580.0	3574.2
10°	3969.8	3978.4	3990.0	3871.6	3721.5	3585.8	3496.3	3458.8	3429.9	3406.8	3412.6
12.5°	4137.2	4131.4	4041.9	3796.5	3582.9	3444.3	3383.7	3360.6	3340.4	3325.9	3323.1
15°	4348.0	4307.6	4050.6	3692.6	3453.0	3337.5	3294.2	3285.5	3262.4	3262.4	3259.5
17.5°	4561.6	4457.7	4044.8	3582.9	3328.8	3265.3	3239.3	3233.6	3227.8	3224.9	3233.6
20°	4775.3	4590.5	3998.6	3447.2	3242.2	3204.7	3198.9	3201.8	3196.0	3204.7	3198.9
22.5°	4962.9	4677.1	3912.0	3302.8	3181.6	3178.7	3164.3	3170.0	3190.2	3193.1	3201.8
25°	5107.3	4708.9	3785.0	3170.0	3138.3	3132.5	3149.8	3172.9	3190.2	3193.1	3207.6
27.5°	5225.7	4691.5	3626.2	3066.1	3063.2	3095.0	3146.9	3155.6	3158.5	3158.5	3146.9
30°	5315.2	4654.0	3424.1	2950.6	2965.1	3043.0	3092.1	3092.1	3069.0	3063.2	3080.5
32.5°	5335.4	4604.9	3204.7	2832.2	2855.3	2947.7	3008.4	2988.2	2962.2	2962.2	2973.7
35°	5352.7	4538.5	3028.6	2670.6	2705.2	2814.9	2872.7	2832.2	2803.4	2794.7	2791.8
37.5°	5346.9	4512.5	2869.8	2465.6	2511.8	2618.6	2656.1	2618.6	2575.3	2555.1	2581.1
40°	5352.7	4495.2	2670.6	2240.4	2286.6	2350.1	2399.2	2370.3	2329.9	2277.9	2303.9
42.5°	5387.3	4518.3	2451.2	2021.0	2021.0	2055.6	2139.3	2119.1	2021.0	2000.8	2023.9
45°	5572.1	4642.5	2231.7	1801.6	1769.8	1792.9	1879.5	1792.9	1732.3	1732.3	1752.5
47.5°	6019.6	4873.4	2038.3	1608.1	1533.1	1579.2	1602.3	1521.5	1475.3	1463.8	1484.0
50°	6931.9	5335.4	1922.8	1449.3	1356.9	1391.6	1377.1	1374.3	1328.1	1333.8	1345.4
52.5°	8317.7	6236.1	1888.2	1371.4	1255.9	1264.6	1250.1	1255.9	1247.2	1276.1	1284.8
55°	9827.7	7186.0	1931.5	1382.9	1186.6	1126.0	1131.7	1160.6	1195.3	1241.5	1250.1
57.5°	10956.6	7662.4	2044.1	1460.9	1100.0	1007.6	1022.0	1076.9	1143.3	1180.8	1201.0
60°	11796.7	7604.6	2208.6	1481.1	996.1	900.8	926.8	1007.6	1065.3	1097.1	1117.3
62.5°	12071.0	7243.7	2249.1	1333.8	860.4	799.7	863.2	947.0	973.0	1007.6	1022.0
65°	11845.8	6732.7	1954.6	1082.7	756.4	724.7	817.1	880.6	915.2	932.5	935.4
66°	11580.2	6426.7	1795.8	984.5	718.9	701.6	799.7	851.7	886.3	883.5	886.3
67.5°	10997.0	5785.8	1538.8	845.9	664.0	666.9	770.9	805.5	817.1	808.4	808.4
70°	9013.5	4073.7	1102.9	640.9	583.2	623.6	692.9	701.6	727.6	716.0	716.0
72.5°	5557.7	2000.8	739.1	490.8	519.7	583.2	580.3	609.2	669.8	687.1	698.7
75°	2731.2	811.3	487.9	415.7	464.8	487.9	482.1	554.3	640.9	716.0	742.0
77.5°	1036.5	404.2	340.7	363.8	375.3	366.7	384.0	502.4	640.9	776.6	802.6
80°	320.5	280.0	268.5	300.3	282.9	268.5	288.7	415.7	542.8	589.0	589.0
82.5°	193.4	219.4	207.9	205.0	190.5	193.4	207.9	297.4	418.6	438.8	438.8
85°	135.7	144.4	118.4	112.6	109.7	106.8	106.8	173.2	248.3	245.4	254.1
87.5°	52.0	57.7	43.3	43.3	40.4	28.9	23.1	28.9	28.9	20.2	14.4
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)