

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: P969970

Luminaire Tested: **NVN-SB6A-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6A-827-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24261.8 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 170.9
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

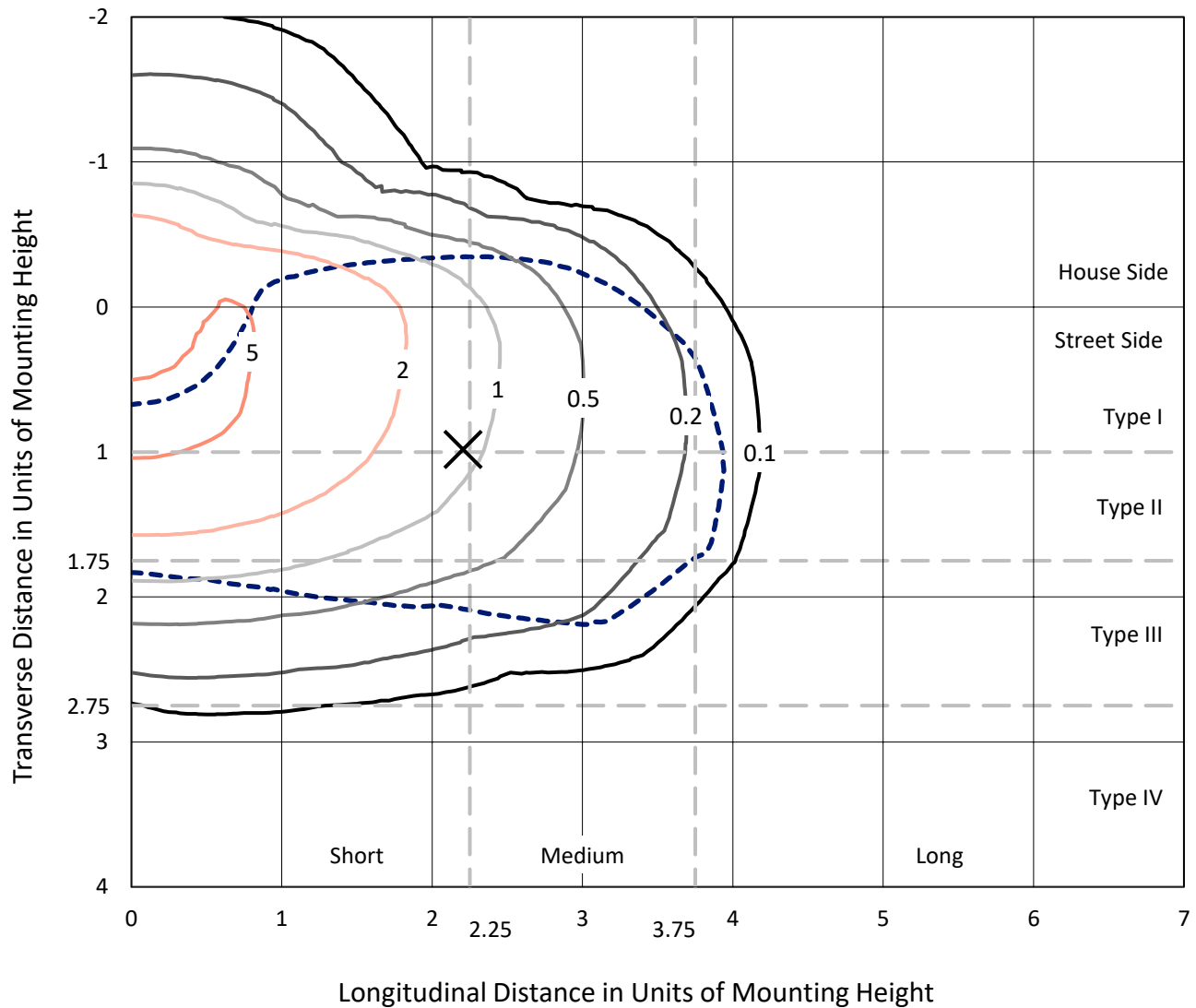


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

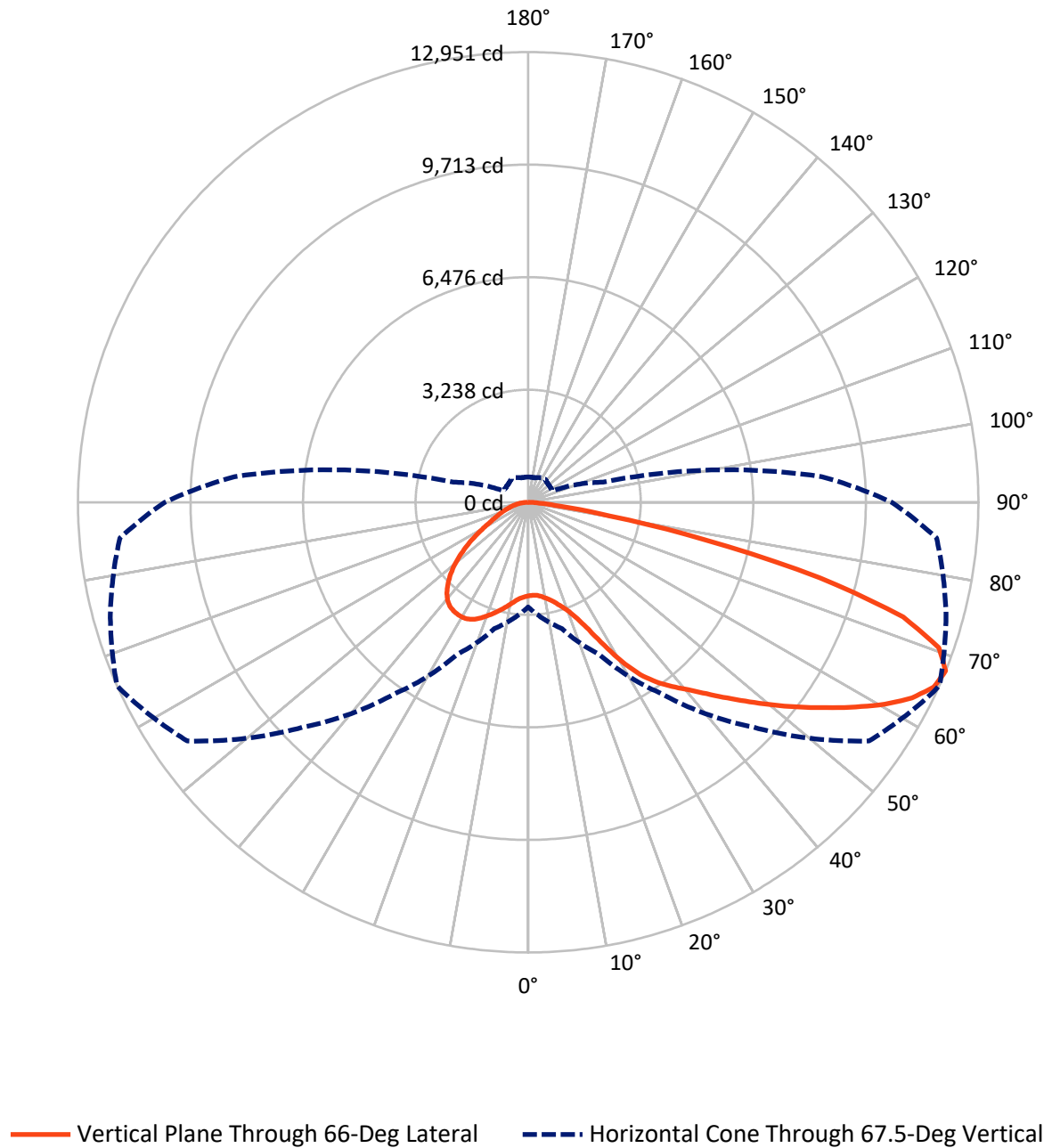


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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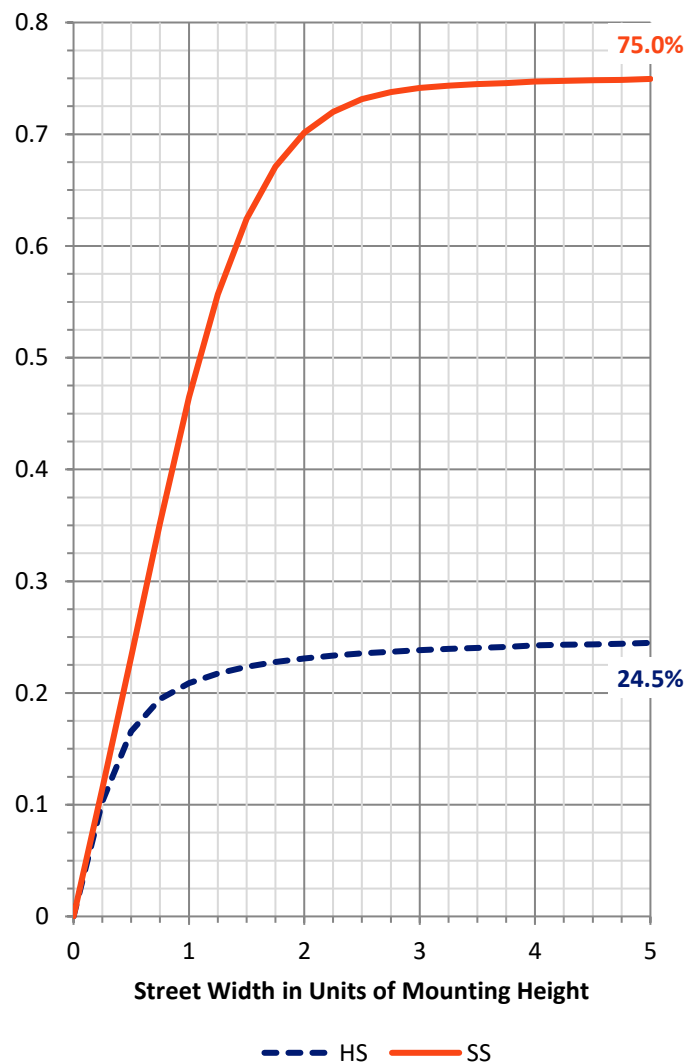
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6032.6	0.0	6032.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	18229.1	0.0	18229.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	24261.8	0.0	24261.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.8	1.1
10°-20°	881.5	3.6
20°-30°	1699.0	7.0
30°-40°	2978.9	12.3
40°-50°	4428.7	18.3
50°-60°	5613.8	23.1
60°-70°	5492.9	22.6
70°-80°	2620.2	10.8
80°-90°	280.0	1.2
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°	24261.8	100.0
0°-180°	24261.8	100.0

Coefficient of Utilization



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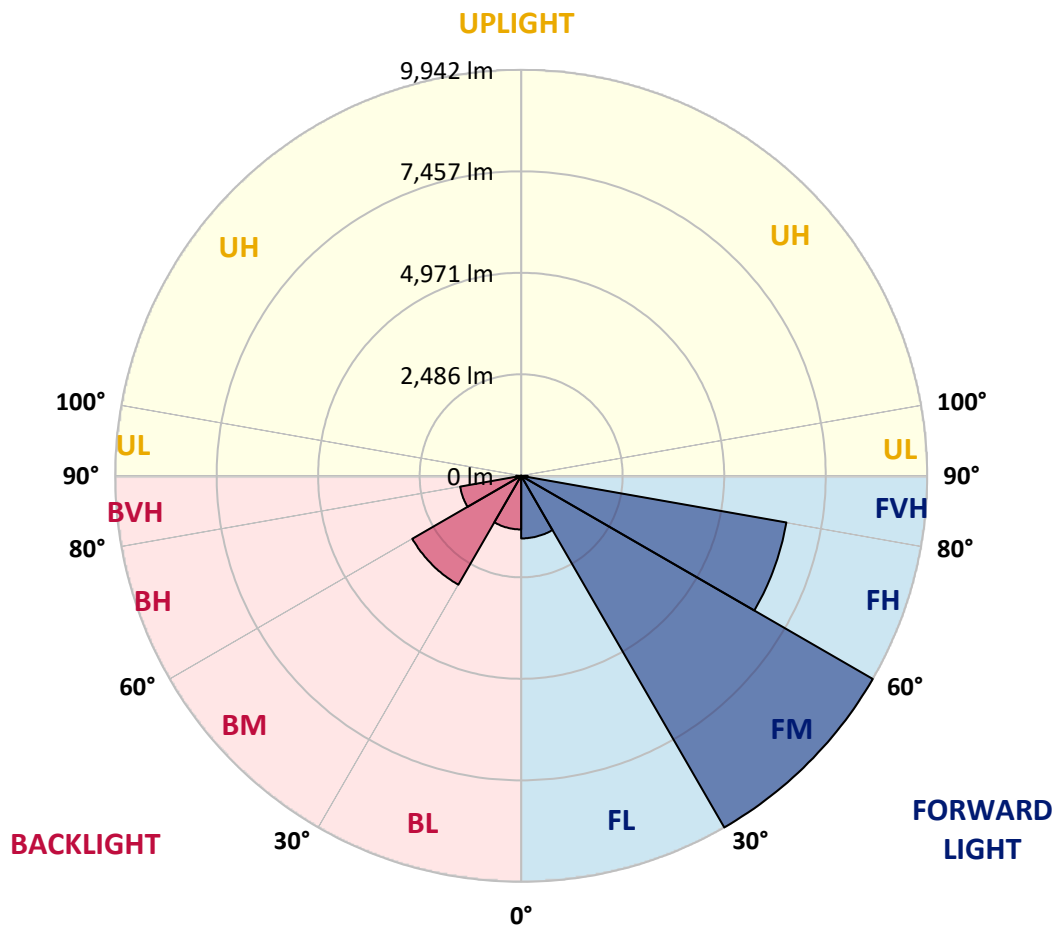
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1533.1	6.3			
FM	(30°-60°)	9942.3	41.0			
FH	(60°-80°)	6595.0	27.2			G3/7500
FVH	(80°-90°)	158.8	0.7			G2/225
BL	(0°-30°)	1314.1	5.4	B3/2500		
BM	(30°-60°)	3079.1	12.7	B3/5000		
BH	(60°-80°)	1518.1	6.3	B3/2500		G3/2500
BVH	(80°-90°)	121.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9
2.5°	2663.0	2678.2	2674.3	2668.0	2666.7	2669.3	2673.1	2676.9	2675.7	2682.0	2692.3
5°	2655.3	2670.5	2669.3	2669.3	2674.3	2684.6	2690.9	2697.3	2690.9	2698.6	2712.7
7.5°	2660.4	2671.9	2676.9	2682.0	2694.7	2713.9	2729.2	2743.2	2735.5	2744.4	2762.4
10°	2725.4	2734.3	2739.4	2739.4	2748.3	2770.0	2785.2	2810.8	2804.4	2818.4	2841.4
12.5°	2844.0	2852.9	2852.9	2847.8	2854.1	2868.2	2873.3	2901.3	2889.8	2912.7	2935.7
15°	2989.2	3007.0	2993.1	2984.2	2986.6	3000.7	2999.5	3021.1	3009.6	3028.8	3049.2
17.5°	3149.8	3172.8	3149.8	3148.6	3143.5	3158.7	3160.1	3179.1	3158.7	3172.8	3186.8
20°	3339.8	3371.6	3352.6	3358.9	3347.4	3353.8	3360.2	3388.2	3356.4	3366.5	3362.7
22.5°	3607.5	3645.7	3625.3	3649.5	3641.9	3636.8	3635.6	3685.3	3635.6	3639.4	3602.4
25°	3997.5	4043.4	4007.7	4040.9	4040.9	4057.5	4076.5	4140.3	4057.5	4033.3	3937.6
27.5°	4573.8	4619.6	4549.5	4569.9	4563.5	4604.3	4583.9	4742.0	4652.8	4613.2	4420.7
30°	5267.2	5348.8	5216.2	5211.1	5204.7	5269.7	5299.0	5403.6	5313.1	5273.5	5041.6
32.5°	6016.7	6102.1	5944.1	5898.2	5874.0	5913.4	5889.2	5973.4	5910.9	5849.7	5562.9
35°	6809.6	6893.7	6743.3	6654.1	6557.2	6474.3	6387.7	6409.3	6350.7	6257.6	5960.6
37.5°	7559.2	7713.3	7554.0	7458.4	7280.0	7118.1	6875.9	6775.1	6720.3	6634.9	6335.4
40°	8322.7	8410.6	8289.6	8208.0	8014.2	7760.6	7373.0	7160.1	7086.2	7003.3	6749.7
42.5°	8884.8	8969.0	8904.0	8847.9	8696.2	8401.7	7900.8	7634.3	7527.3	7434.2	7218.8
45°	9331.0	9393.5	9352.7	9373.1	9308.0	9022.6	8447.6	8142.9	8032.1	7918.6	7749.1
47.5°	9510.8	9577.0	9642.1	9763.1	9874.0	9663.7	9035.3	8693.6	8576.4	8460.3	8293.4
50°	9490.4	9557.9	9746.5	10004.1	10348.2	10278.1	9654.8	9280.0	9171.7	9039.1	8884.8
52.5°	9327.2	9403.7	9645.9	10074.2	10622.3	10738.3	10285.8	9885.5	9783.5	9625.5	9471.2
55°	8898.8	8944.8	9308.0	9914.8	10687.3	11059.5	10904.1	10530.5	10428.6	10208.0	10039.8
57.5°	8104.7	8171.0	8700.0	9485.2	10524.2	11277.5	11447.1	11208.7	11110.5	10793.1	10617.2
60°	7068.4	7174.2	7779.6	8763.8	10108.6	11276.2	11940.3	11875.3	11793.8	11369.3	11185.7
62.5°	5895.6	6018.0	6600.5	7744.0	9382.0	10956.3	12248.9	12433.7	12391.6	11900.9	11666.3
65°	4527.8	4612.0	5191.9	6424.6	8251.4	10269.2	12284.5	12814.9	12822.4	12304.9	11917.5
67.5°	3014.7	3256.9	3760.4	4821.0	6736.9	9146.2	11971.0	12877.3	12951.2	12443.9	11791.2
70°	1471.1	1789.8	2283.1	3133.3	4821.0	7424.0	11151.3	12364.9	12529.3	12038.5	11039.1
72.5°	610.6	713.8	982.8	1546.2	2767.4	5009.7	9504.4	10975.4	11280.0	10666.9	9281.3
75°	411.7	446.2	562.1	792.8	1260.8	2470.5	6854.2	8183.7	8674.5	8056.3	6585.2
77.5°	317.4	339.1	409.2	554.5	749.6	934.4	3668.7	4931.9	5185.6	4800.6	3426.5
80°	249.9	266.4	306.0	404.1	531.6	499.7	1250.5	2234.6	2381.2	1997.5	1101.4
82.5°	216.7	223.0	219.2	274.1	353.1	291.9	410.5	824.7	910.2	660.3	359.5
85°	156.8	174.7	182.2	169.5	187.4	147.9	168.3	291.9	321.2	286.8	202.6
87.5°	63.8	94.3	116.0	109.7	68.9	42.0	52.3	85.4	98.2	107.1	66.3
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°	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9
2.5°	2693.5	2702.4	2708.8	2716.5	2721.6	2729.2	2744.4	2753.5	2754.7	2761.0	2759.8
5°	2717.7	2730.5	2744.4	2764.8	2787.8	2807.0	2836.3	2856.7	2864.4	2870.7	2869.4
7.5°	2770.0	2787.8	2813.3	2849.0	2882.2	2907.6	2943.4	2967.6	2991.8	3000.7	3002.0
10°	2847.8	2873.3	2910.2	2958.7	2994.3	3027.4	3064.4	3084.8	3109.0	3119.3	3124.4
12.5°	2944.6	2971.4	3019.9	3087.4	3120.5	3143.5	3156.2	3151.2	3156.2	3165.1	3167.7
15°	3055.5	3084.8	3139.7	3212.4	3235.2	3214.9	3186.8	3161.3	3157.5	3160.1	3169.0
17.5°	3186.8	3208.5	3272.2	3333.4	3316.8	3232.7	3171.6	3130.8	3110.4	3104.0	3112.9
20°	3370.4	3370.4	3422.7	3460.9	3350.0	3207.2	3111.6	3045.3	3003.2	2985.4	2981.6
22.5°	3593.4	3573.0	3606.2	3579.4	3343.7	3135.8	3003.2	2888.6	2824.8	2799.3	2795.5
25°	3876.4	3852.3	3843.3	3677.6	3297.7	3022.4	2807.0	2668.0	2611.9	2597.9	2600.4
27.5°	4303.5	4242.3	4126.3	3731.1	3213.6	2844.0	2577.5	2448.7	2416.8	2418.2	2422.0
30°	4872.0	4749.6	4465.4	3740.0	3075.9	2591.5	2342.9	2251.2	2235.8	2242.3	2263.9
32.5°	5398.5	5282.4	4812.1	3699.2	2864.4	2344.2	2132.6	2071.4	2048.5	2056.1	2066.3
35°	5811.4	5779.6	5133.3	3641.9	2604.2	2112.2	1943.9	1891.7	1847.0	1836.9	1844.5
37.5°	6201.6	6188.8	5374.3	3561.6	2346.7	1947.8	1792.3	1723.4	1658.4	1622.7	1624.0
40°	6629.9	6617.1	5532.3	3438.0	2118.6	1805.0	1655.9	1565.4	1485.0	1420.0	1426.4
42.5°	7111.7	7036.5	5607.6	3260.7	1924.8	1683.9	1545.0	1422.6	1316.8	1256.9	1260.8
45°	7638.2	7468.7	5606.2	3035.1	1761.7	1573.0	1426.4	1253.1	1154.9	1098.8	1096.2
47.5°	8196.5	7881.6	5537.5	2785.2	1603.6	1450.7	1242.8	1110.3	1045.3	1010.9	1003.2
50°	8772.7	8267.9	5420.1	2498.4	1441.8	1311.7	1128.1	1037.6	987.9	956.0	944.5
52.5°	9314.4	8618.4	5278.6	2173.4	1277.3	1176.6	1077.2	1007.1	954.8	919.1	903.7
55°	9818.0	8920.6	5078.5	1840.7	1143.4	1086.1	1052.9	994.2	934.4	892.3	875.8
57.5°	10265.4	9116.9	4733.0	1528.4	1047.9	1023.6	1027.5	972.6	903.7	868.1	845.1
60°	10637.6	9260.9	4221.9	1239.0	970.1	962.4	987.9	931.8	851.5	810.8	792.8
62.5°	10860.7	9258.3	3594.8	1014.6	903.7	906.3	935.6	880.9	799.3	761.1	749.6
65°	10841.5	9031.5	2906.4	868.1	840.1	842.6	880.9	824.7	755.9	733.0	731.6
67.5°	10457.9	8478.2	2229.5	772.4	770.0	781.4	826.0	786.5	729.2	726.6	730.4
70°	9418.9	7329.7	1606.2	696.0	697.3	713.8	772.4	762.3	715.1	720.3	718.9
72.5°	7552.7	5588.4	1078.4	615.7	616.9	643.7	721.5	743.1	701.1	768.6	778.9
75°	5030.1	3485.1	693.4	530.3	531.6	566.0	676.9	706.2	662.9	766.1	772.4
77.5°	2416.8	1566.6	502.2	446.2	446.2	478.1	585.1	632.2	564.7	595.3	545.6
80°	835.0	589.0	395.1	359.5	351.8	373.5	493.3	548.2	487.0	448.7	420.7
82.5°	328.9	306.0	317.4	279.2	253.7	267.7	383.7	452.5	358.2	323.8	322.5
85°	188.7	198.8	224.4	184.8	146.6	164.4	281.7	325.0	270.3	238.4	243.4
87.5°	50.9	70.1	103.2	95.6	66.3	70.1	133.9	179.8	155.5	119.8	123.6
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)