

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: LUMARK

Report Number: P885141

Luminaire Tested: **NAV-SB6B-740-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-740-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36420 lumens
Efficiency: N/A
Efficacy: 165.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

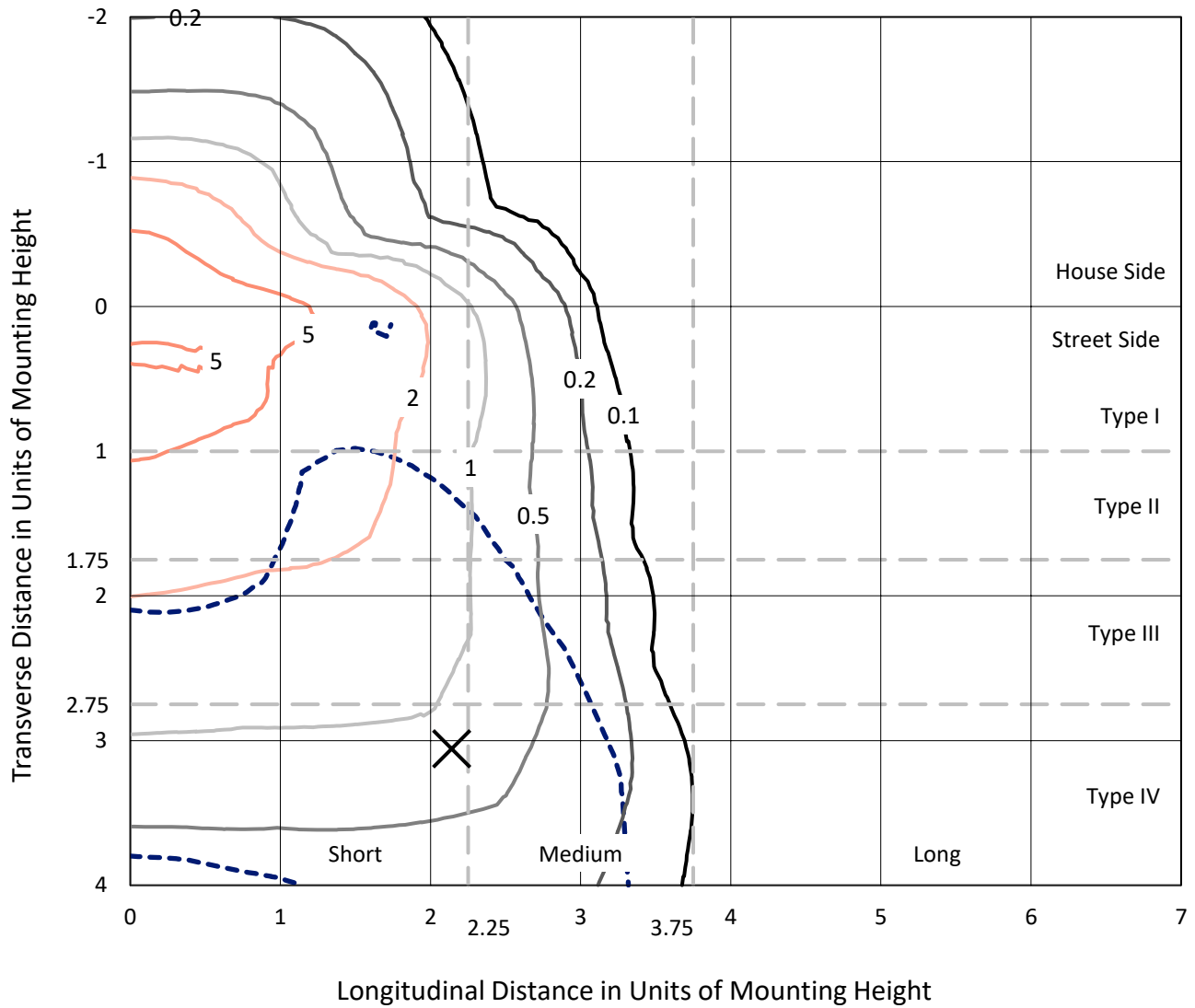
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

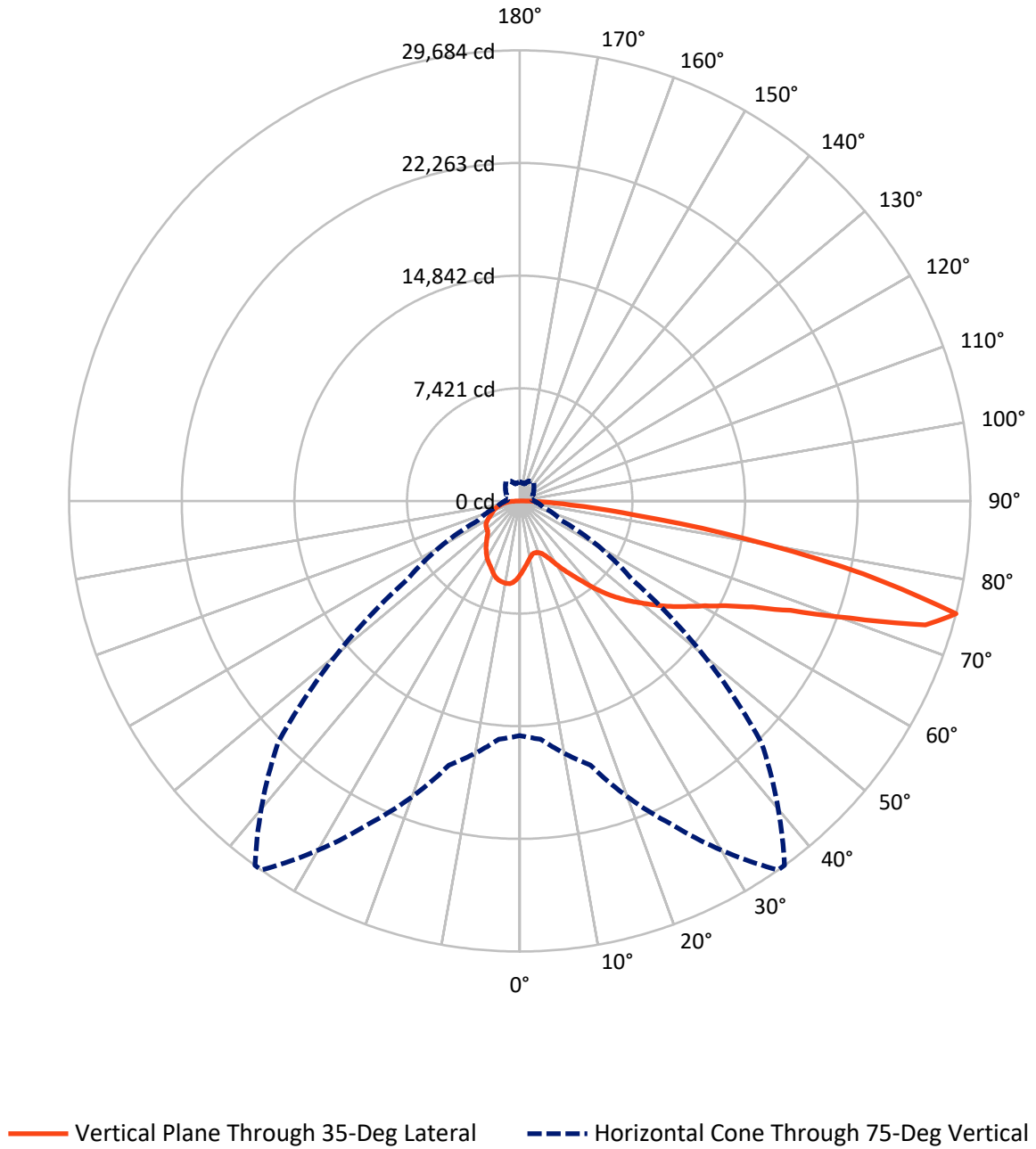
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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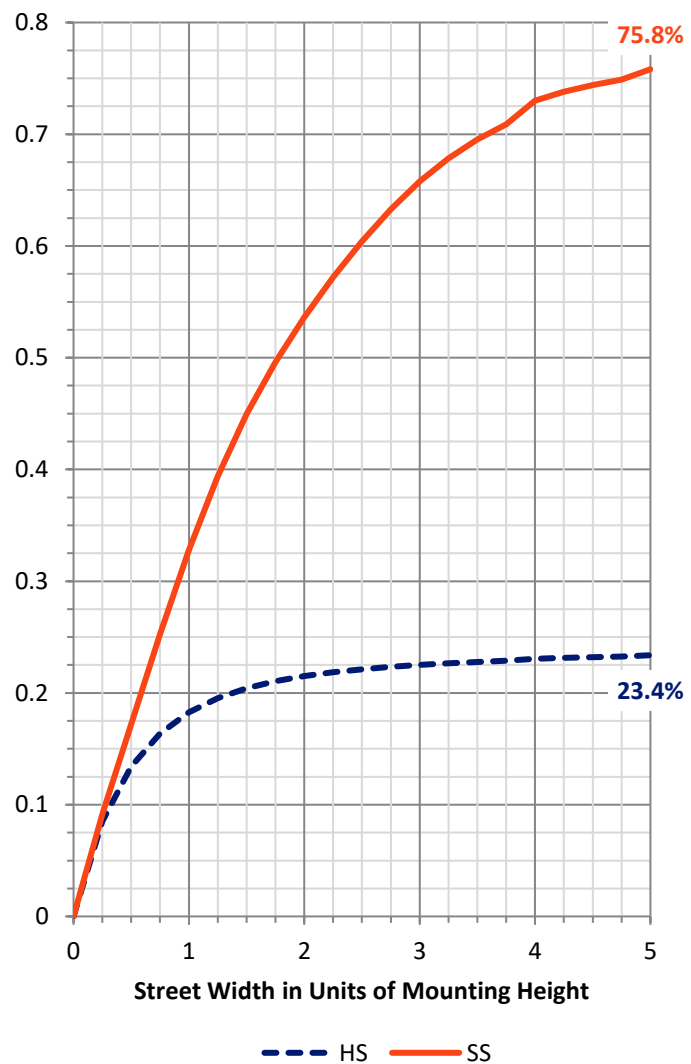
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8667.0	0.0	8667.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	27753.0	0.0	27753.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	36420.0	0.0	36420.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.5	1.3
10°-20°	1325.4	3.6
20°-30°	2225.7	6.1
30°-40°	3459.0	9.5
40°-50°	5134.1	14.1
50°-60°	7088.0	19.5
60°-70°	8599.3	23.6
70°-80°	7106.7	19.5
80°-90°	1022.2	2.8
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°	36420.0	100.0
0°-180°	36420.0	100.0

Coefficient of Utilization



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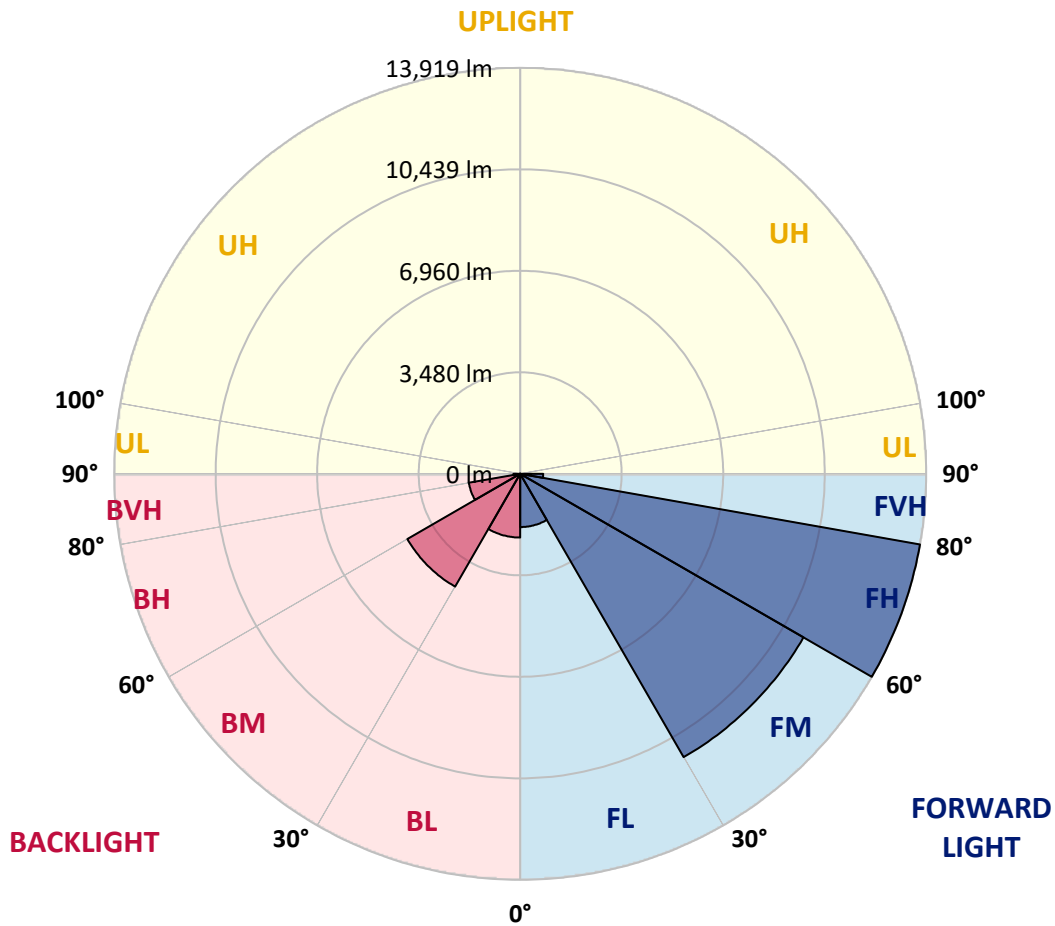
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1826.4	5.0			
FM (30°-60°)	11215.4	30.8			
FH (60°-80°)	13919.2	38.2			G5
FVH (80°-90°)	792.0	2.2			G5
BL (0°-30°)	2184.2	6.0	B3/2500		
BM (30°-60°)	4465.8	12.3	B3/5000		
BH (60°-80°)	1786.9	4.9	B3/2500		G3/2500
BVH (80°-90°)	230.2	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4853.2	4853.2	4853.2	4853.2	4853.2	4853.2	4853.2	4853.2	4853.2	4853.2	4853.2
2.5°	4475.2	4502.8	4514.6	4508.7	4538.2	4534.3	4575.6	4626.8	4697.7	4766.6	4867.0
5°	4130.6	4160.2	4185.8	4209.4	4266.5	4284.2	4349.2	4447.6	4577.6	4709.5	4874.9
7.5°	3809.7	3835.3	3874.7	3918.0	4014.5	4032.2	4140.5	4294.1	4475.2	4668.1	4896.5
10°	3547.9	3573.5	3614.8	3664.0	3784.1	3805.8	3943.6	4148.4	4384.6	4628.8	4920.2
12.5°	3435.6	3443.5	3467.1	3516.4	3620.7	3634.5	3786.1	4020.4	4296.0	4599.2	4955.6
15°	3429.7	3445.5	3447.5	3473.0	3559.7	3565.6	3705.4	3937.7	4240.9	4593.3	5008.8
17.5°	3488.8	3500.6	3482.9	3498.6	3571.5	3581.3	3691.6	3898.3	4223.2	4618.9	5099.3
20°	3646.3	3656.2	3603.0	3581.3	3634.5	3642.4	3750.7	3923.9	4240.9	4672.1	5223.4
22.5°	3981.0	3986.9	3857.0	3768.4	3772.3	3776.3	3870.8	4028.3	4309.8	4768.6	5380.9
25°	4502.8	4498.8	4292.1	4120.8	4022.4	4000.7	4063.7	4197.6	4426.0	4896.5	5583.7
27.5°	5113.1	5083.6	4876.8	4620.9	4406.3	4374.8	4361.0	4418.1	4591.4	5065.8	5831.7
30°	5802.2	5774.6	5552.2	5217.4	4920.2	4869.0	4739.0	4709.5	4837.5	5296.2	6176.3
32.5°	6558.2	6540.5	6274.7	5869.1	5471.4	5412.4	5193.8	5115.1	5215.5	5644.7	6656.7
35°	7192.2	7176.5	6955.9	6538.5	6052.2	5979.4	5756.9	5668.3	5719.5	6091.6	7284.7
37.5°	7765.1	7757.3	7568.3	7239.5	6737.4	6648.8	6398.8	6369.2	6359.4	6680.3	8046.7
40°	8296.7	8277.0	8080.2	7906.9	7534.8	7454.1	7233.5	7208.0	7133.1	7404.8	8909.0
42.5°	8885.4	8834.2	8548.7	8468.0	8367.6	8300.7	8168.8	8172.7	8007.3	8221.9	9822.6
45°	9365.8	9336.3	9042.9	8995.7	9104.0	9076.4	9190.6	9220.1	8899.2	9078.4	10771.6
47.5°	9881.7	9854.1	9606.0	9572.5	9865.9	9873.8	10277.4	10287.2	9769.4	9968.3	11722.5
50°	10517.6	10478.2	10232.1	10273.5	10602.2	10631.8	11370.1	11303.2	10570.7	10872.0	12665.6
52.5°	10937.0	10960.6	10907.4	10974.4	11423.3	11450.8	12445.1	12273.8	11364.2	11763.9	13591.0
55°	11246.1	11293.3	11458.7	11612.3	12289.6	12317.1	13459.0	13197.2	12021.8	12590.8	14461.2
57.5°	11643.8	11576.8	11885.9	12185.2	13112.5	13185.4	14445.4	14087.1	12604.6	13303.5	15057.8
60°	12214.7	12167.5	12407.7	12850.7	14034.0	14150.1	15488.9	14888.4	13031.8	13868.6	15173.9
62.5°	13372.4	13254.3	13291.7	13683.5	15195.6	15349.1	16666.3	15587.4	13244.4	14089.1	14551.8
65°	15103.0	14900.2	14711.2	14982.9	16831.7	16983.3	17995.3	16136.7	13165.7	13661.8	12899.9
67.5°	17282.6	17081.7	16849.4	17105.4	19241.6	19361.7	19635.3	16445.8	12545.5	12015.9	9980.1
70°	19080.1	19005.3	19282.9	20336.2	23090.7	23094.6	21738.1	16189.8	10846.4	8519.2	5774.6
72.5°	18841.9	18796.6	20259.5	23515.9	27941.9	27837.5	23728.6	14252.5	7306.4	3843.2	2163.8
75°	15457.4	15750.8	18016.9	23458.8	29684.3	29670.5	22509.8	9060.6	3022.2	1592.8	1118.3
77.5°	8288.9	8753.5	11696.9	17320.0	23173.3	23521.8	15825.6	3169.8	1297.5	1019.9	773.8
80°	2703.2	3108.8	4662.2	8818.5	15057.8	14992.8	6782.7	1244.3	888.0	722.6	535.5
82.5°	1147.8	1195.1	2083.0	4164.1	7727.7	7607.6	2159.8	714.7	624.1	494.2	330.8
85°	448.9	502.1	919.5	1925.5	3347.0	3274.2	779.7	354.4	399.7	322.9	196.9
87.5°	147.7	179.2	328.8	659.6	1041.5	1004.1	191.0	122.1	173.3	147.7	70.9
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°	4853.2	4853.2	4853.2	4853.2	4853.2	4853.2	4853.2	4853.2	4853.2	4853.2	4853.2
2.5°	4894.6	4926.1	4963.5	5018.6	5065.8	5105.2	5146.6	5172.2	5182.0	5211.5	5209.6
5°	4930.0	4998.9	5091.4	5182.0	5270.6	5323.8	5371.0	5394.6	5416.3	5432.1	5436.0
7.5°	4989.1	5077.7	5223.4	5341.5	5416.3	5459.6	5491.1	5483.2	5491.1	5495.1	5501.0
10°	5040.3	5164.3	5337.5	5449.8	5506.9	5508.8	5501.0	5473.4	5459.6	5461.6	5465.5
12.5°	5101.3	5239.1	5426.1	5520.7	5536.4	5493.1	5459.6	5412.4	5394.6	5386.8	5382.8
15°	5184.0	5341.5	5522.6	5558.1	5518.7	5463.6	5406.5	5329.7	5290.3	5258.8	5268.6
17.5°	5284.4	5457.6	5597.4	5571.8	5487.2	5396.6	5304.1	5187.9	5107.2	5073.7	5075.7
20°	5424.2	5579.7	5654.5	5542.3	5414.3	5276.5	5119.0	4977.2	4902.4	4869.0	4865.0
22.5°	5593.5	5743.1	5709.7	5491.1	5310.0	5089.5	4892.6	4788.2	4750.8	4727.2	4731.1
25°	5796.3	5924.3	5749.0	5416.3	5138.7	4841.4	4689.8	4656.3	4638.6	4620.9	4620.9
27.5°	6060.1	6129.0	5778.6	5306.0	4870.9	4577.6	4522.4	4528.4	4522.4	4492.9	4498.8
30°	6408.6	6394.8	5806.1	5126.9	4563.8	4339.3	4343.3	4368.9	4372.8	4353.1	4363.0
32.5°	6867.3	6727.6	5819.9	4894.6	4270.4	4130.6	4134.6	4162.1	4181.8	4148.4	4164.1
35°	7422.6	7115.4	5798.3	4603.2	4044.0	3931.8	3902.3	3910.1	3916.0	3884.5	3906.2
37.5°	8070.3	7550.5	5701.8	4280.3	3857.0	3736.9	3673.9	3620.7	3589.2	3559.7	3579.4
40°	8781.1	8025.0	5524.6	3965.3	3648.3	3530.1	3435.6	3335.2	3228.9	3189.5	3207.3
42.5°	9525.3	8513.3	5310.0	3664.0	3408.1	3311.6	3211.2	3065.5	2906.0	2825.3	2835.1
45°	10297.1	9013.4	5099.3	3366.7	3162.0	3120.6	3004.5	2829.2	2656.0	2553.6	2545.7
47.5°	11053.1	9485.9	4790.2	3067.5	2931.6	2976.9	2886.3	2724.9	2531.9	2370.5	2352.8
50°	11775.7	9928.9	4284.2	2764.3	2744.6	2933.6	2847.0	2614.6	2394.1	2187.4	2169.7
52.5°	12492.3	10287.2	3636.5	2488.6	2644.2	2921.8	2795.8	2539.8	2270.1	2053.5	2029.9
55°	13100.7	10472.3	3012.3	2252.4	2498.5	2821.4	2734.7	2451.2	2094.9	1864.5	1844.8
57.5°	13447.2	10322.7	2492.6	2020.0	2297.6	2656.0	2630.4	2262.2	1886.2	1709.0	1685.3
60°	13297.6	9716.3	2067.3	1817.2	2106.7	2476.8	2449.2	2075.2	1726.7	1559.3	1535.7
62.5°	12472.7	8560.6	1730.6	1640.1	1933.4	2293.7	2268.1	1931.4	1604.6	1443.2	1417.6
65°	10810.9	6963.8	1468.8	1492.4	1758.2	2073.2	2110.6	1811.3	1508.1	1350.6	1325.0
67.5°	8245.5	5044.2	1264.0	1364.4	1586.9	1856.6	1964.9	1724.7	1427.4	1277.8	1254.2
70°	4699.6	2864.7	1090.7	1240.4	1435.3	1655.8	1852.7	1655.8	1340.8	1216.7	1201.0
72.5°	1781.8	1315.2	943.1	1116.3	1289.6	1486.5	1728.6	1547.5	1240.4	1147.8	1132.1
75°	951.0	801.3	793.4	970.6	1122.2	1321.1	1573.1	1441.2	1165.6	1212.8	1252.2
77.5°	647.8	567.0	663.5	830.9	939.1	1138.0	1407.7	1279.8	1010.0	1006.1	927.3
80°	448.9	401.6	539.5	669.4	726.5	956.9	1228.6	1098.6	823.0	767.9	734.4
82.5°	269.7	261.9	403.6	500.1	513.9	738.3	1017.9	921.4	673.3	586.7	590.7
85°	147.7	155.5	257.9	293.4	299.3	515.8	797.4	712.7	517.8	435.1	439.1
87.5°	41.3	53.2	94.5	116.2	143.7	267.8	474.5	423.3	259.9	181.1	181.1
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)