

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: P970511

Luminaire Tested: **NVN-SB6B-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6B-830-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30736.7 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 220.4
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



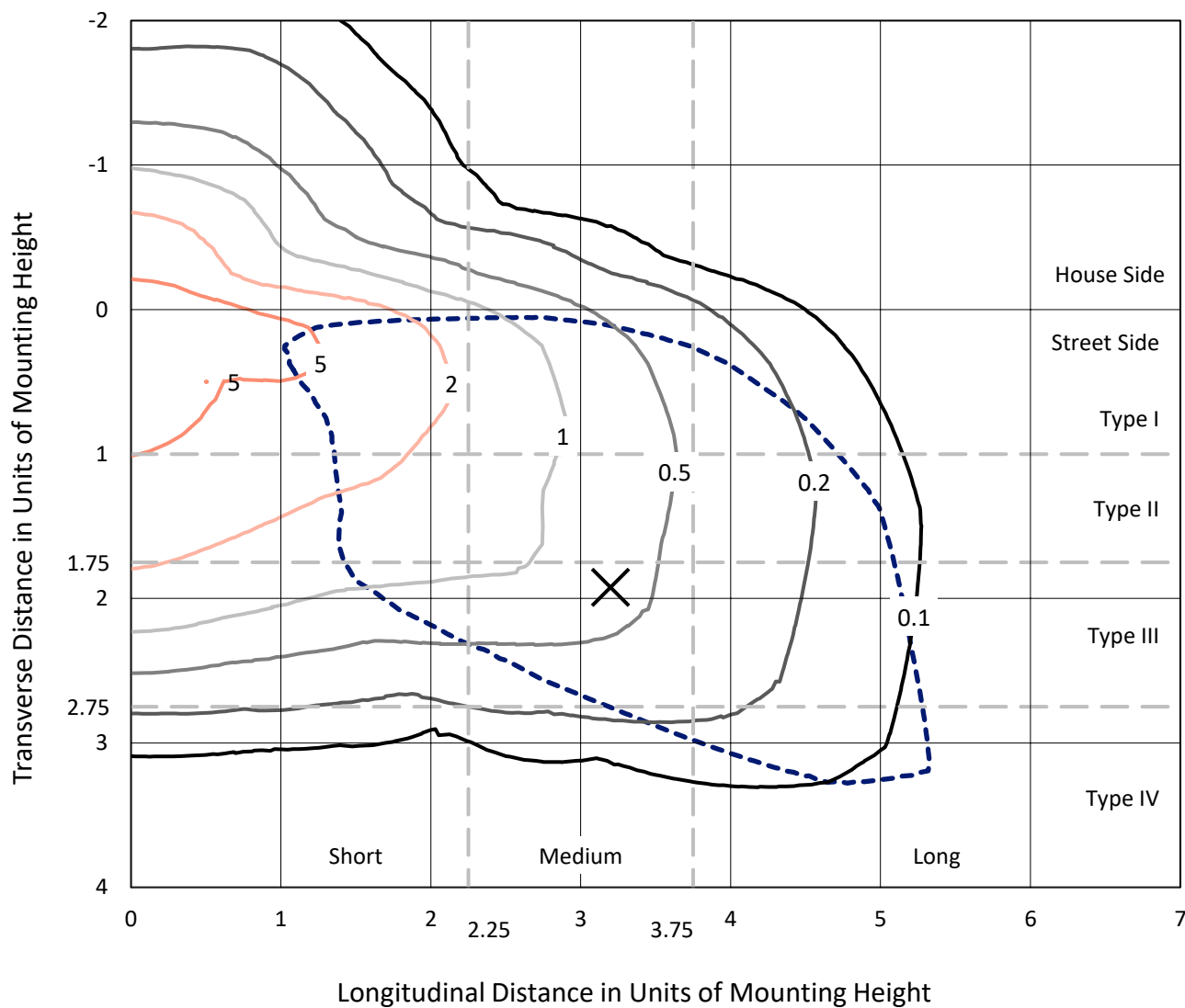
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



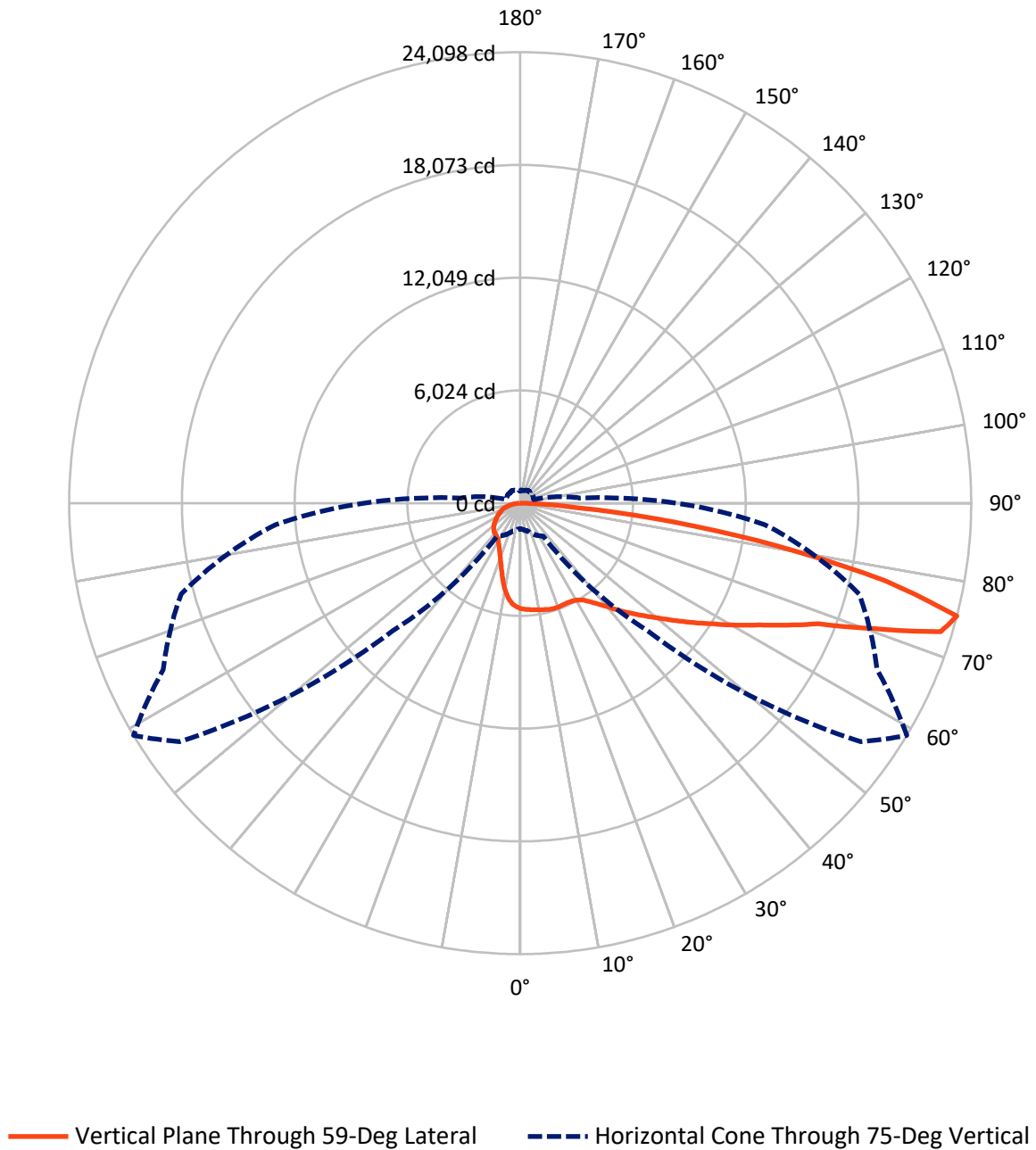
Based on 25 foot mounting height. Maximum calculated value = 9 fc

Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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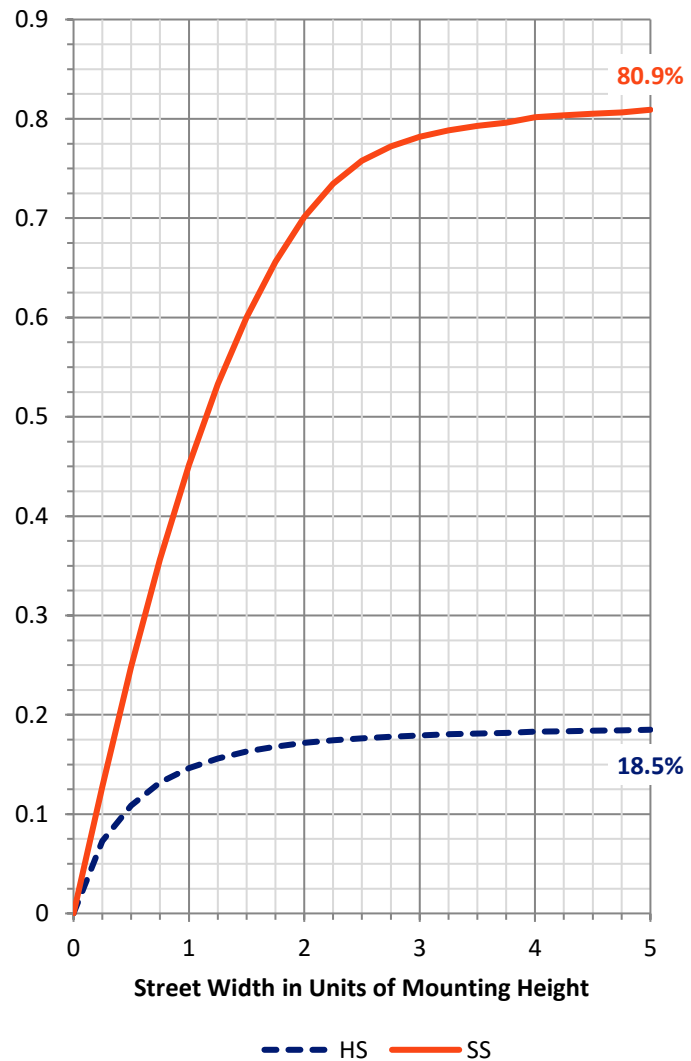
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5764.9	0.0	5764.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	24971.8	0.0	24971.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	30736.7	0.0	30736.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.9	1.6
10°-20°	1293.0	4.2
20°-30°	1964.0	6.4
30°-40°	2919.4	9.5
40°-50°	4341.7	14.1
50°-60°	5893.3	19.2
60°-70°	7194.8	23.4
70°-80°	5646.4	18.4
80°-90°	978.1	3.2
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°	30736.7	100.0
0°-180°	30736.7	100.0

Coefficient of Utilization



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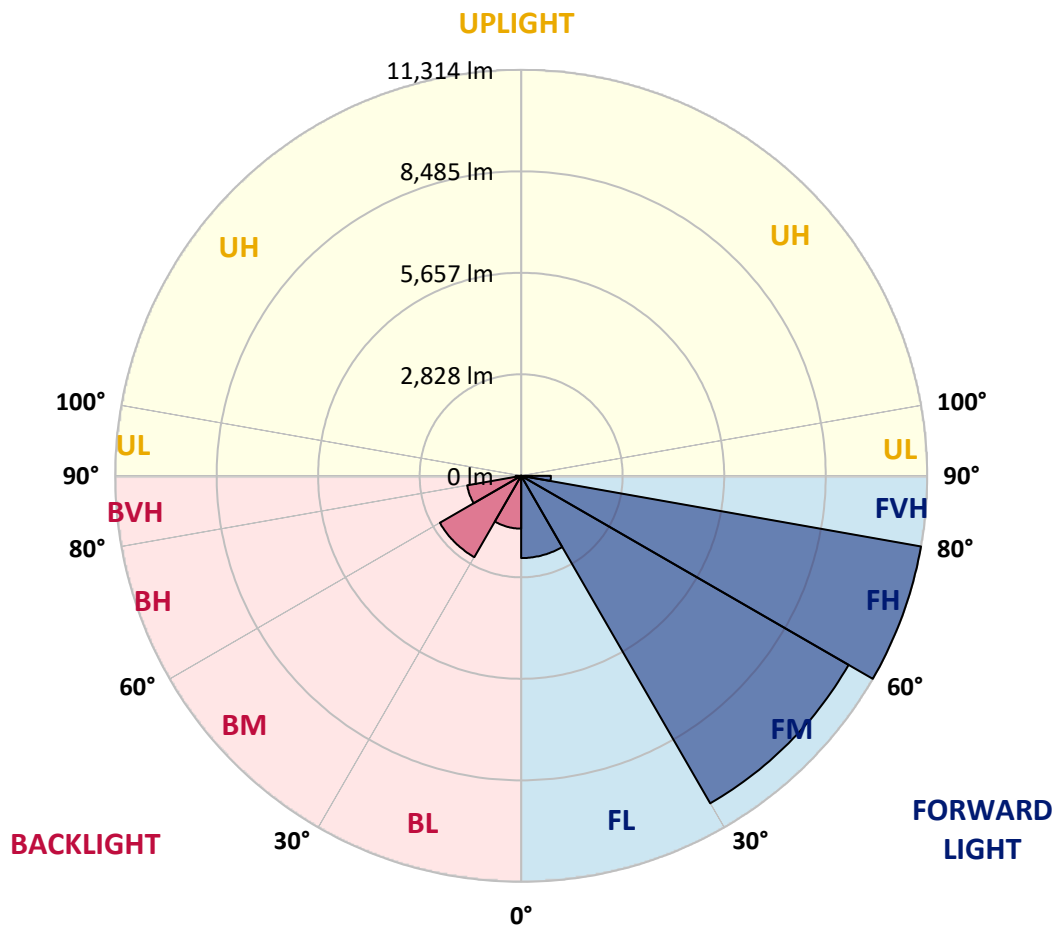
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2291.8	7.5			
FM	(30°-60°)	10537.8	34.3			
FH	(60°-80°)	11313.9	36.8			G4/12000
FVH	(80°-90°)	828.4	2.7			G5
BL	(0°-30°)	1471.1	4.8	B3/2500		
BM	(30°-60°)	2616.7	8.5	B3/5000		
BH	(60°-80°)	1527.3	5.0	B3/2500		G3/2500
BVH	(80°-90°)	149.7	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5641.6	5641.6	5641.6	5641.6	5641.6	5641.6	5641.6	5641.6	5641.6	5641.6	5641.6
2.5°	5689.6	5669.8	5689.6	5681.4	5678.0	5671.4	5673.1	5684.6	5678.0	5686.3	5658.2
5°	5651.5	5640.0	5659.8	5654.9	5676.3	5679.6	5701.2	5714.4	5722.7	5724.3	5702.8
7.5°	5588.7	5577.1	5605.3	5628.4	5674.7	5687.9	5732.6	5754.0	5765.6	5785.5	5754.0
10°	5358.9	5354.0	5423.4	5511.0	5620.2	5687.9	5755.8	5792.1	5810.3	5863.2	5826.8
12.5°	4952.2	4958.7	5049.7	5218.4	5436.6	5654.9	5782.2	5835.1	5863.2	5929.3	5912.8
15°	4563.6	4562.0	4661.2	4841.4	5147.2	5509.4	5795.5	5886.4	5934.3	6031.8	6018.6
17.5°	4338.7	4332.1	4401.6	4538.8	4823.1	5286.1	5762.3	5914.5	6017.0	6139.3	6127.8
20°	4297.4	4284.2	4320.5	4388.3	4590.1	5041.5	5676.3	5914.5	6083.2	6241.8	6235.3
22.5°	4447.9	4426.4	4411.5	4403.2	4492.5	4839.7	5578.8	5894.7	6180.6	6389.0	6377.4
25°	4750.5	4717.4	4641.3	4566.9	4540.4	4748.7	5492.9	5889.6	6326.2	6587.5	6544.4
27.5°	5239.9	5198.5	5044.7	4866.2	4705.8	4795.1	5454.8	5919.5	6486.6	6797.4	6711.5
30°	5846.7	5802.0	5608.6	5334.1	5046.4	4967.0	5502.7	6007.1	6691.6	7076.9	6908.2
32.5°	6390.7	6341.1	6175.7	5896.3	5507.7	5264.7	5654.9	6174.1	7014.1	7465.4	7204.2
35°	6873.4	6815.6	6666.8	6408.8	6073.2	5683.0	5929.3	6470.0	7472.0	8097.1	7606.0
37.5°	7346.4	7278.6	7116.6	6843.7	6608.9	6240.2	6308.0	6850.4	8080.5	8864.3	8138.4
40°	7875.5	7777.9	7581.2	7311.6	7083.5	6893.3	6805.7	7316.7	8699.0	9720.8	8803.1
42.5°	8388.1	8295.4	8060.7	7830.8	7544.8	7490.2	7382.8	7862.3	9375.2	10661.6	9477.7
45°	8940.4	8829.6	8545.1	8254.1	8073.9	7887.1	7941.6	8407.9	10038.2	11620.6	10185.4
47.5°	9457.9	9333.9	8998.2	8674.2	8574.9	8221.1	8454.2	9008.1	10727.8	12592.8	10886.4
50°	9737.3	9614.9	9335.5	9042.9	8965.2	8632.8	9009.8	9667.9	11450.3	13561.8	11559.4
52.5°	9970.5	9838.2	9472.7	9310.7	9287.5	9080.9	9694.3	10421.8	12172.9	14418.3	12209.3
55°	10218.4	10071.3	9605.1	9459.5	9565.3	9583.5	10506.1	11276.6	12936.7	15253.3	12822.6
57.5°	10504.5	10317.6	9732.4	9585.2	9836.5	10172.2	11438.7	12163.0	13687.4	16027.1	13368.4
60°	10774.0	10585.5	9977.0	9785.3	10129.2	10855.1	12508.5	13236.0	14537.4	16716.6	13884.2
62.5°	10827.0	10671.5	10172.2	10170.5	10526.0	11652.0	13775.1	14319.0	15279.8	17397.8	14347.1
65°	9910.9	9813.3	9517.4	10155.6	11094.8	12799.5	15185.5	15704.6	16223.9	17993.1	14754.0
67.5°	7543.2	7556.4	7534.9	8766.7	10635.1	14448.1	17227.5	17187.8	17389.5	18661.0	15221.9
70°	3449.1	3526.8	4032.9	6051.7	8520.3	14638.2	20603.9	20089.7	18852.9	19525.8	15626.9
72.5°	1863.4	1923.0	2129.6	2931.6	5122.4	13014.5	23127.1	23492.5	20799.0	20107.8	15182.2
75°	1367.5	1400.5	1544.4	1863.4	2151.2	9672.8	22222.7	24097.7	21042.1	18750.4	13110.4
77.5°	1023.5	1038.4	1155.8	1476.5	1101.3	5099.3	17756.7	19957.4	18012.9	15405.4	9684.4
80°	742.4	758.9	846.5	1107.8	772.1	1865.1	12192.7	14008.3	12336.6	9820.0	4826.5
82.5°	512.6	519.2	557.2	754.0	539.0	724.3	6918.1	8214.5	6886.7	3445.8	1303.0
85°	309.2	317.4	334.0	439.8	305.9	343.9	2986.1	3088.7	2058.6	823.4	405.1
87.5°	127.3	135.6	148.8	185.2	120.7	95.9	492.7	618.4	385.3	241.4	125.7
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°	5641.6	5641.6	5641.6	5641.6	5641.6	5641.6	5641.6	5641.6	5641.6	5641.6	5641.6
2.5°	5649.9	5638.3	5607.0	5563.9	5524.2	5474.6	5453.1	5435.0	5418.5	5387.0	5372.1
5°	5684.6	5653.2	5568.9	5459.8	5335.7	5200.1	5067.9	4977.0	4899.2	4841.4	4793.4
7.5°	5737.5	5678.0	5524.2	5301.0	5016.7	4725.7	4462.7	4275.9	4135.4	4084.1	3994.8
10°	5792.1	5721.0	5453.1	5059.6	4568.5	4120.5	3771.6	3579.8	3467.4	3431.0	3374.7
12.5°	5856.6	5752.4	5342.4	4724.0	4067.5	3576.4	3272.2	3159.8	3102.0	3082.1	3087.0
15°	5950.8	5778.8	5175.3	4304.0	3589.7	3179.7	2982.9	2905.2	2875.4	2873.7	2880.4
17.5°	6022.0	5783.9	4915.8	3854.2	3222.6	2939.9	2777.9	2748.0	2767.9	2797.6	2809.2
20°	6101.3	5739.2	4575.2	3444.2	2964.7	2729.9	2662.1	2681.9	2729.9	2772.8	2787.8
22.5°	6157.5	5658.2	4163.4	3125.0	2741.5	2609.1	2605.9	2647.2	2673.7	2695.1	2706.7
25°	6207.1	5521.0	3726.9	2857.2	2557.9	2536.5	2572.9	2559.5	2541.4	2559.5	2571.1
27.5°	6243.5	5304.4	3336.7	2622.4	2428.9	2486.9	2465.3	2435.6	2433.9	2443.8	2460.4
30°	6231.9	5015.0	3016.0	2399.2	2338.0	2394.2	2342.9	2338.0	2333.0	2338.0	2356.2
32.5°	6231.9	4685.9	2769.5	2245.4	2280.1	2258.7	2253.7	2242.1	2222.3	2220.7	2242.1
35°	6266.6	4356.9	2557.9	2162.8	2232.1	2180.9	2184.3	2156.1	2114.8	2095.0	2114.8
37.5°	6337.8	4092.3	2348.0	2123.1	2147.9	2146.2	2133.0	2085.1	2012.3	1949.4	1971.0
40°	6509.7	4014.6	2204.1	2104.8	2108.2	2128.0	2093.3	2000.7	1835.4	1732.9	1746.1
42.5°	6779.2	4145.3	2172.7	2060.2	2081.7	2101.6	2033.8	1818.9	1701.4	1640.2	1640.2
45°	7121.5	4373.5	2240.4	1995.8	2018.8	2053.6	1851.9	1749.4	1696.5	1698.1	1706.4
47.5°	7554.8	4613.2	2366.1	1939.5	1927.9	1947.8	1731.2	1668.4	1595.6	1613.8	1660.1
50°	8055.7	4856.2	2485.2	1863.4	1827.1	1762.6	1653.4	1594.0	1501.3	1458.4	1470.0
52.5°	8598.0	5091.1	2533.1	1770.9	1718.0	1643.6	1600.5	1527.8	1415.4	1344.3	1342.6
55°	9112.2	5304.4	2480.2	1660.1	1608.8	1550.9	1544.4	1499.7	1379.0	1279.8	1279.8
57.5°	9598.4	5482.9	2348.0	1547.6	1498.0	1463.3	1508.0	1486.5	1334.3	1207.0	1200.4
60°	10010.2	5605.3	2156.1	1433.6	1398.8	1380.7	1448.4	1441.9	1271.5	1129.3	1124.3
62.5°	10337.5	5653.2	1944.5	1324.4	1316.2	1283.1	1365.8	1365.8	1192.2	1053.3	1048.3
65°	10593.8	5607.0	1729.5	1217.0	1233.5	1183.9	1265.0	1255.0	1107.8	985.4	978.9
67.5°	10820.3	5454.8	1491.5	1111.1	1149.1	1086.3	1159.1	1135.9	1015.3	917.7	911.0
70°	10921.2	5100.9	1220.3	1005.3	1051.6	990.5	1053.3	1010.2	911.0	844.9	831.7
72.5°	10111.0	4239.5	960.6	894.5	934.2	884.6	939.2	889.6	798.6	768.9	744.0
75°	8364.9	3181.3	739.1	773.9	803.6	765.6	802.0	765.6	682.9	704.4	643.2
77.5°	6074.9	2147.9	565.5	646.5	659.7	639.9	671.3	630.0	555.6	550.6	525.8
80°	3020.9	1258.3	443.1	511.0	505.9	492.7	529.1	509.2	446.4	472.9	467.9
82.5°	874.7	539.0	322.5	358.9	348.9	352.2	378.6	388.6	582.0	577.1	590.3
85°	274.5	211.7	193.4	200.1	190.1	195.2	223.2	443.1	410.1	239.7	259.6
87.5°	71.1	72.8	48.0	51.2	52.9	62.8	71.1	269.5	128.9	84.4	89.3
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)