

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: P969963

Luminaire Tested: **NVN-SB6A-827-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969963  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6A-827-U-T2R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

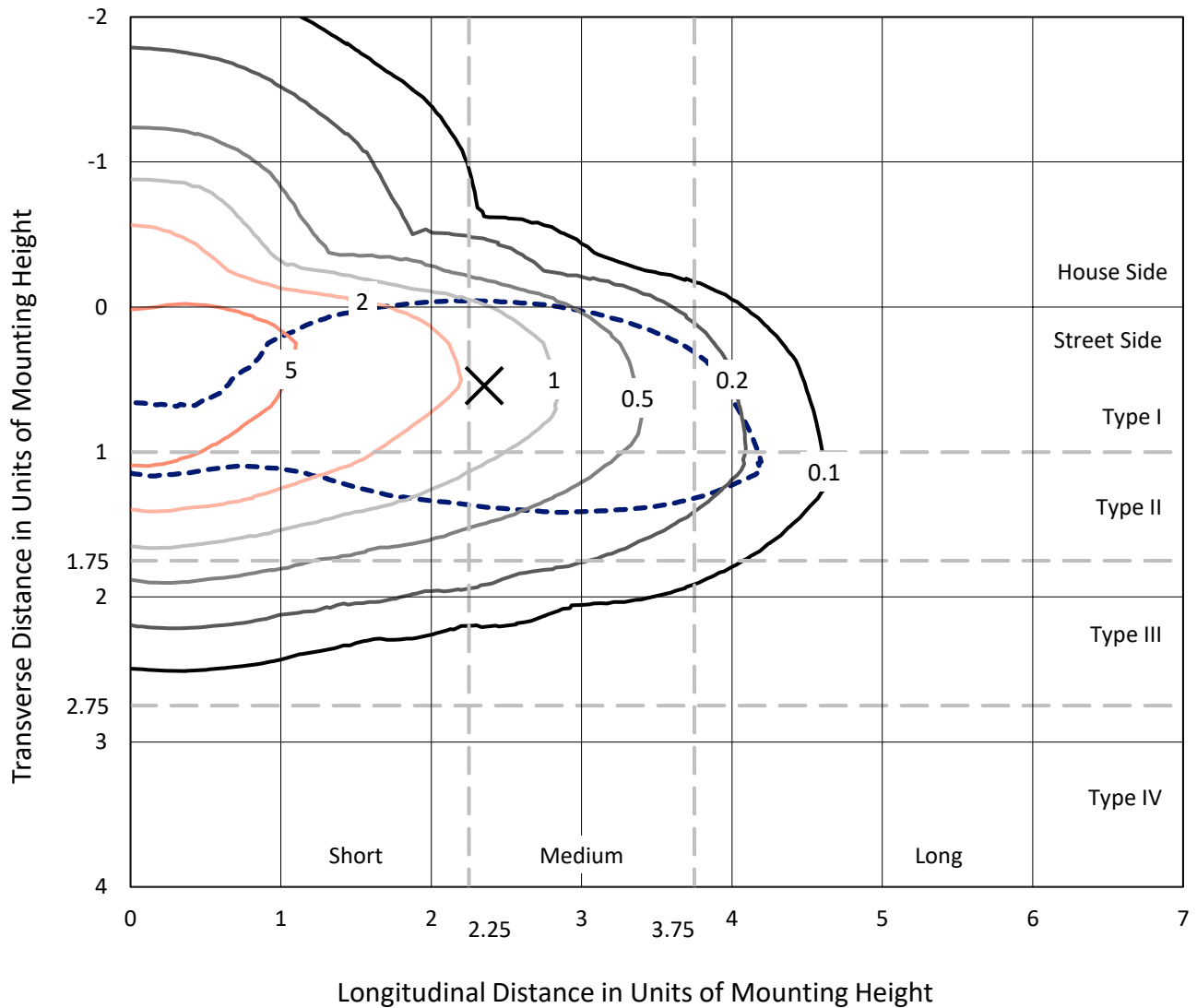
Lumens per Lamp: N/A  
Luminaire Lumens: 24695.3 lumens  
Efficiency: N/A  
Efficacy: 144.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): 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

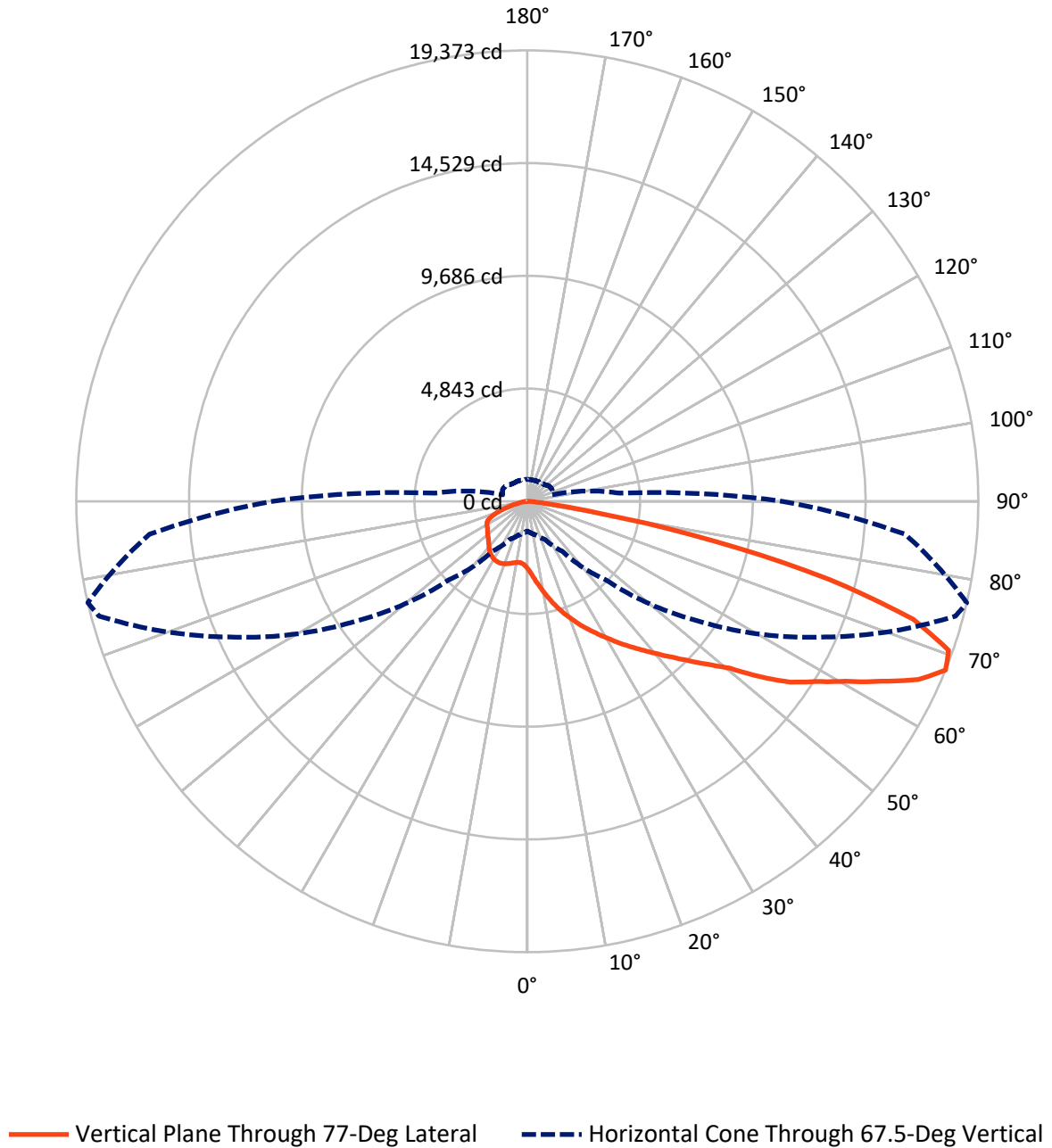
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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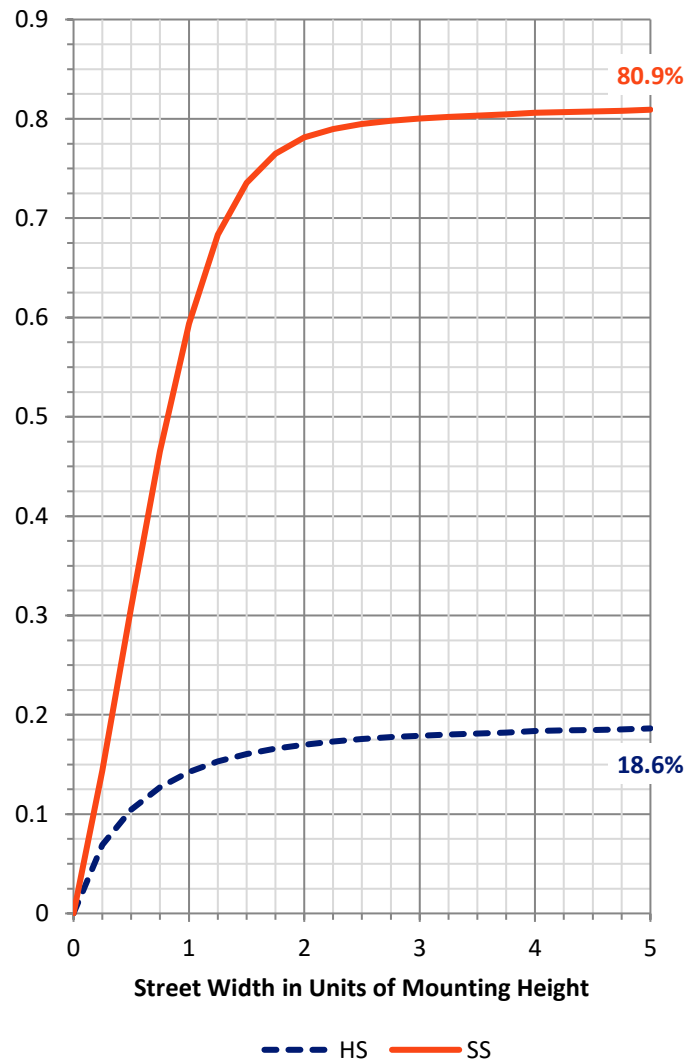
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4671.4	0.0	4671.4
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	20024.0	0.0	20024.0
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	24695.3	0.0	24695.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.6	1.3
10°-20°	1115.8	4.5
20°-30°	2106.7	8.5
30°-40°	3393.8	13.7
40°-50°	4642.2	18.8
50°-60°	5236.4	21.2
60°-70°	4887.5	19.8
70°-80°	2679.2	10.8
80°-90°	323.2	1.3
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°	24695.3	100.0
0°-180°	24695.3	100.0



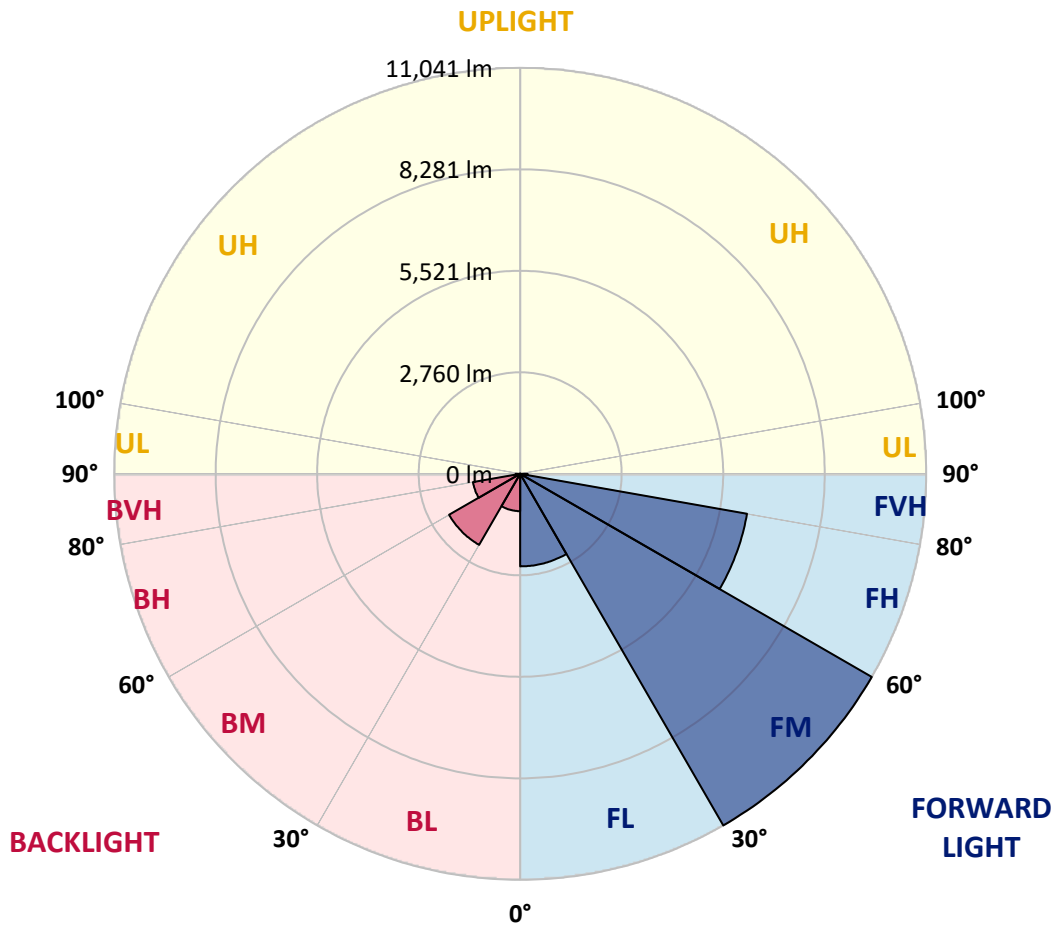
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2517.4	10.2			
FM (30°-60°)	11041.0	44.7			
FH (60°-80°)	6263.5	25.4			G3/7500
FVH (80°-90°)	202.1	0.8			G2/225
BL (0°-30°)	1015.7	4.1	B3/2500		
BM (30°-60°)	2231.4	9.0	B2/2500		
BH (60°-80°)	1303.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	121.1	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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2897.6	2897.6	2897.6	2897.6	2897.6	2897.6	2897.6	2897.6	2897.6	2897.6	2897.6
2.5°	3628.0	3653.5	3621.6	3621.6	3514.5	3458.5	3351.3	3269.7	3123.2	3097.7	3000.8
5°	4288.3	4320.2	4275.6	4256.4	4130.2	4014.2	3834.5	3657.3	3395.9	3369.2	3141.0
7.5°	4799.5	4840.3	4800.8	4780.4	4668.2	4538.2	4327.9	4080.5	3712.1	3659.9	3329.7
10°	5216.3	5222.7	5210.0	5217.6	5129.6	5022.6	4807.1	4519.0	4058.8	3987.5	3557.9
12.5°	5452.2	5481.5	5506.9	5552.8	5537.6	5471.2	5277.5	4933.3	4426.0	4334.2	3806.4
15°	5563.1	5614.0	5671.4	5777.2	5862.6	5879.2	5731.3	5378.2	4799.5	4688.6	4057.6
17.5°	5602.5	5651.0	5741.5	5894.5	6078.0	6201.7	6135.4	5810.3	5169.2	5041.7	4321.4
20°	5802.7	5816.8	5871.5	6016.9	6215.7	6421.0	6470.7	6226.0	5535.0	5391.0	4594.3
22.5°	6231.0	6203.0	6218.3	6284.6	6427.4	6626.2	6739.7	6593.1	5911.1	5745.3	4869.6
25°	6938.5	6856.9	6775.4	6698.9	6771.6	6883.7	7012.4	6960.2	6305.0	6094.6	5147.4
27.5°	7832.1	7732.7	7552.9	7301.8	7213.8	7253.4	7310.7	7300.6	6669.6	6456.7	5434.3
30°	8711.7	8595.8	8381.5	8018.3	7786.2	7681.7	7638.4	7609.1	7066.0	6839.1	5723.7
32.5°	9414.1	9322.3	9111.9	8705.3	8368.8	8190.4	8046.2	7941.8	7480.2	7253.4	6029.6
35°	10028.5	9943.1	9702.2	9258.6	8892.7	8702.8	8514.2	8291.0	7911.2	7681.7	6358.5
37.5°	10589.5	10504.0	10173.8	9712.4	9344.0	9212.7	9044.4	8665.9	8343.3	8126.6	6706.5
40°	10943.8	10924.7	10616.2	10093.6	9711.2	9646.1	9590.0	9100.5	8822.6	8621.2	7088.9
42.5°	11034.3	11076.4	10831.6	10402.0	10037.4	9985.2	10116.4	9592.6	9360.6	9168.1	7522.4
45°	10816.3	10937.5	10776.8	10484.9	10269.5	10241.4	10583.0	10130.5	9955.8	9779.9	8045.0
47.5°	10264.3	10469.6	10403.3	10362.5	10331.9	10453.1	10993.5	10701.6	10630.2	10477.2	8641.6
50°	9150.2	9539.1	9655.0	9912.6	10208.3	10617.5	11367.0	11324.9	11418.0	11263.8	9368.2
52.5°	7224.1	7759.5	8432.6	9077.6	9828.4	10562.6	11777.5	12219.8	12612.5	12528.4	10523.2
55°	5963.3	6204.2	6721.8	7904.8	9091.5	10331.9	11962.4	12942.7	13798.0	13722.8	11398.9
57.5°	4994.5	5210.0	5528.6	6516.5	7977.5	9808.0	12077.1	13383.7	14610.0	14602.4	12263.2
60°	3955.6	4183.7	4510.1	5210.0	6675.9	8902.9	12051.5	13886.0	15646.4	15710.2	13317.4
62.5°	2782.8	3033.9	3395.9	4048.6	5346.3	7730.1	11531.5	14249.2	16866.4	17039.7	14585.7
65°	1829.3	1995.0	2267.8	2831.3	3983.7	6222.1	10538.4	14296.4	18171.7	18464.9	15776.4
67.5°	1282.4	1346.1	1506.7	1812.7	2626.0	4771.4	8956.4	13808.2	19042.3	19372.5	16292.7
70°	1000.7	1032.6	1114.2	1236.6	1649.5	3208.6	6863.3	12538.5	18856.2	19200.4	15753.4
72.5°	864.3	894.9	925.5	940.7	1106.5	1981.0	4649.1	10483.6	17103.5	17336.7	13697.3
75°	784.0	791.6	817.1	812.0	843.9	1284.9	2683.3	7638.4	13494.6	13414.3	10111.4
77.5°	659.1	669.2	711.3	704.9	749.6	878.3	1393.3	4929.5	8748.7	8203.1	5628.1
80°	558.3	563.4	609.4	601.7	651.4	636.1	711.3	2512.6	3710.8	3143.6	1622.8
82.5°	193.7	239.6	465.2	479.3	497.1	385.0	410.5	1024.9	1133.2	868.1	340.4
85°	94.3	100.7	237.1	336.5	335.3	193.7	200.2	365.8	356.9	280.4	113.5
87.5°	15.3	19.2	28.1	131.3	104.6	50.9	68.9	71.3	73.9	63.8	25.5
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°	2897.6	2897.6	2897.6	2897.6	2897.6	2897.6	2897.6	2897.6	2897.6	2897.6	2897.6
2.5°	2929.3	2865.7	2731.8	2608.1	2511.2	2418.2	2365.9	2321.3	2295.8	2290.8	2290.8
5°	3008.5	2877.2	2633.6	2428.4	2294.6	2195.1	2142.9	2109.8	2093.2	2083.0	2081.7
7.5°	3121.8	2929.3	2582.7	2349.4	2209.2	2137.7	2111.0	2105.9	2104.6	2105.9	2109.8
10°	3278.7	3014.8	2577.6	2330.2	2213.0	2173.5	2172.2	2173.5	2178.5	2179.9	2181.1
12.5°	3448.2	3102.8	2598.0	2346.8	2261.5	2239.7	2235.9	2234.7	2238.5	2241.1	2242.3
15°	3633.1	3218.8	2632.4	2382.5	2315.0	2292.0	2288.2	2280.5	2279.3	2278.0	2276.7
17.5°	3823.0	3333.5	2670.6	2420.7	2349.4	2317.5	2303.5	2285.6	2271.6	2267.8	2271.6
20°	4015.5	3447.0	2697.4	2439.9	2352.0	2307.3	2279.3	2248.6	2224.5	2210.4	2215.5
22.5°	4220.7	3565.5	2714.0	2434.8	2329.0	2267.8	2216.8	2181.1	2144.1	2119.9	2121.2
25°	4420.8	3668.8	2712.7	2408.0	2284.4	2206.6	2141.6	2095.7	2044.7	2019.2	2019.2
27.5°	4613.3	3761.9	2680.8	2360.9	2220.7	2133.9	2056.1	2001.4	1951.7	1927.4	1926.2
30°	4812.2	3839.5	2631.1	2292.0	2145.4	2049.8	1964.4	1917.3	1872.6	1849.7	1848.4
32.5°	5009.8	3911.0	2561.0	2206.6	2058.7	1967.0	1882.8	1839.5	1812.7	1812.7	1813.9
35°	5218.9	3960.7	2467.9	2107.2	1967.0	1879.0	1812.7	1787.2	1784.6	1769.4	1765.6
37.5°	5439.4	3992.6	2354.5	2005.2	1876.5	1793.5	1773.1	1742.6	1717.1	1684.0	1678.8
40°	5671.4	4024.5	2218.1	1899.4	1780.8	1734.9	1726.0	1685.2	1612.5	1530.9	1519.6
42.5°	5953.1	4046.1	2076.5	1793.5	1680.2	1664.8	1677.6	1607.5	1491.5	1430.3	1431.5
45°	6279.5	4081.8	1946.6	1689.1	1576.9	1576.9	1630.5	1538.6	1443.0	1404.8	1411.1
47.5°	6702.7	4164.7	1825.4	1574.3	1481.2	1506.7	1525.9	1455.8	1402.2	1355.0	1353.8
50°	7314.6	4363.5	1700.6	1458.4	1408.7	1459.6	1432.8	1392.1	1329.5	1291.3	1287.5
52.5°	8074.3	4480.8	1589.7	1353.8	1346.1	1397.2	1358.9	1320.6	1273.5	1222.5	1212.3
55°	8591.9	4502.4	1496.6	1277.4	1304.1	1299.0	1284.9	1250.5	1225.1	1157.5	1158.8
57.5°	9170.6	4545.8	1420.0	1231.4	1277.4	1221.2	1216.2	1186.8	1153.6	1107.7	1092.4
60°	9862.9	4613.3	1353.8	1213.6	1254.4	1170.2	1144.7	1133.2	1100.1	1077.2	1083.5
62.5°	10617.5	4674.5	1286.3	1216.2	1227.6	1120.5	1082.3	1078.4	1058.0	1050.4	1050.4
65°	11132.5	4507.5	1202.1	1213.6	1185.5	1069.5	1021.1	1019.8	1003.3	1000.7	999.4
67.5°	10952.7	3978.5	1088.7	1177.8	1142.2	1018.5	965.0	959.9	938.2	939.5	939.5
70°	10052.8	3223.8	931.8	1089.9	1088.7	972.6	906.3	889.8	860.5	865.6	870.6
72.5°	8364.9	2388.9	721.5	943.3	1003.3	930.6	838.8	812.0	775.1	780.1	778.9
75°	6041.0	1624.0	525.2	717.7	873.2	880.9	772.5	726.6	682.0	689.6	692.2
77.5°	3091.3	920.3	386.2	494.6	685.8	800.5	712.6	651.4	641.2	712.6	702.4
80°	1008.3	461.5	267.7	346.8	450.0	655.2	624.6	554.5	552.0	568.6	488.2
82.5°	300.8	195.1	172.1	228.2	248.6	502.2	539.3	419.4	360.8	379.9	392.6
85°	103.2	94.3	98.2	113.5	118.6	294.5	377.3	277.9	262.6	289.4	285.6
87.5°	24.2	33.1	28.1	25.5	25.5	71.3	146.6	116.0	160.6	107.1	103.2
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)