

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: P971317

Luminaire Tested: **NAV-SB6D-722-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P971317  
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: LUMARK  
Catalog Number: NAV-SB6D-722-U-SL3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

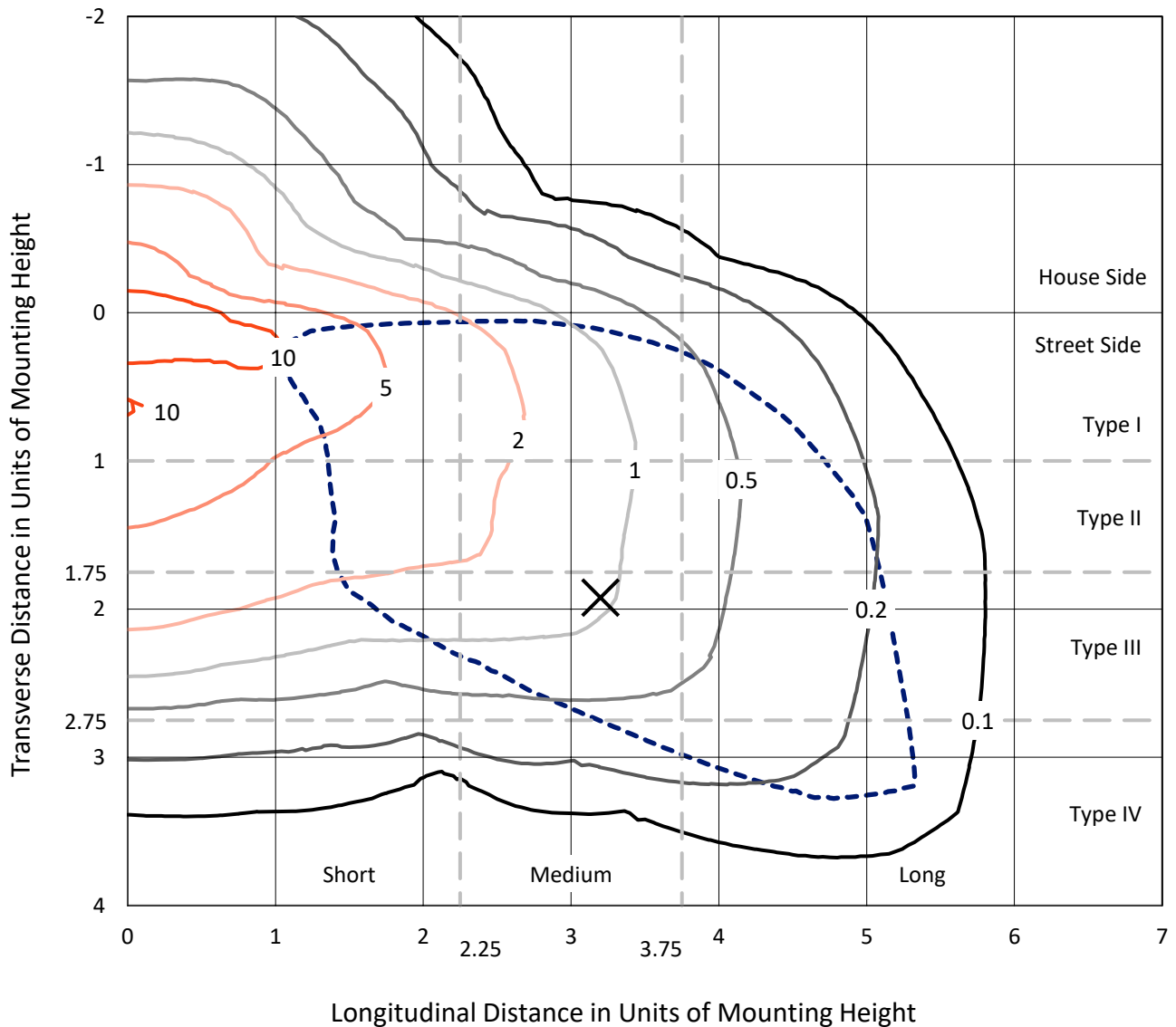
Lumens per Lamp: N/A  
Luminaire Lumens: 51066.5 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): 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

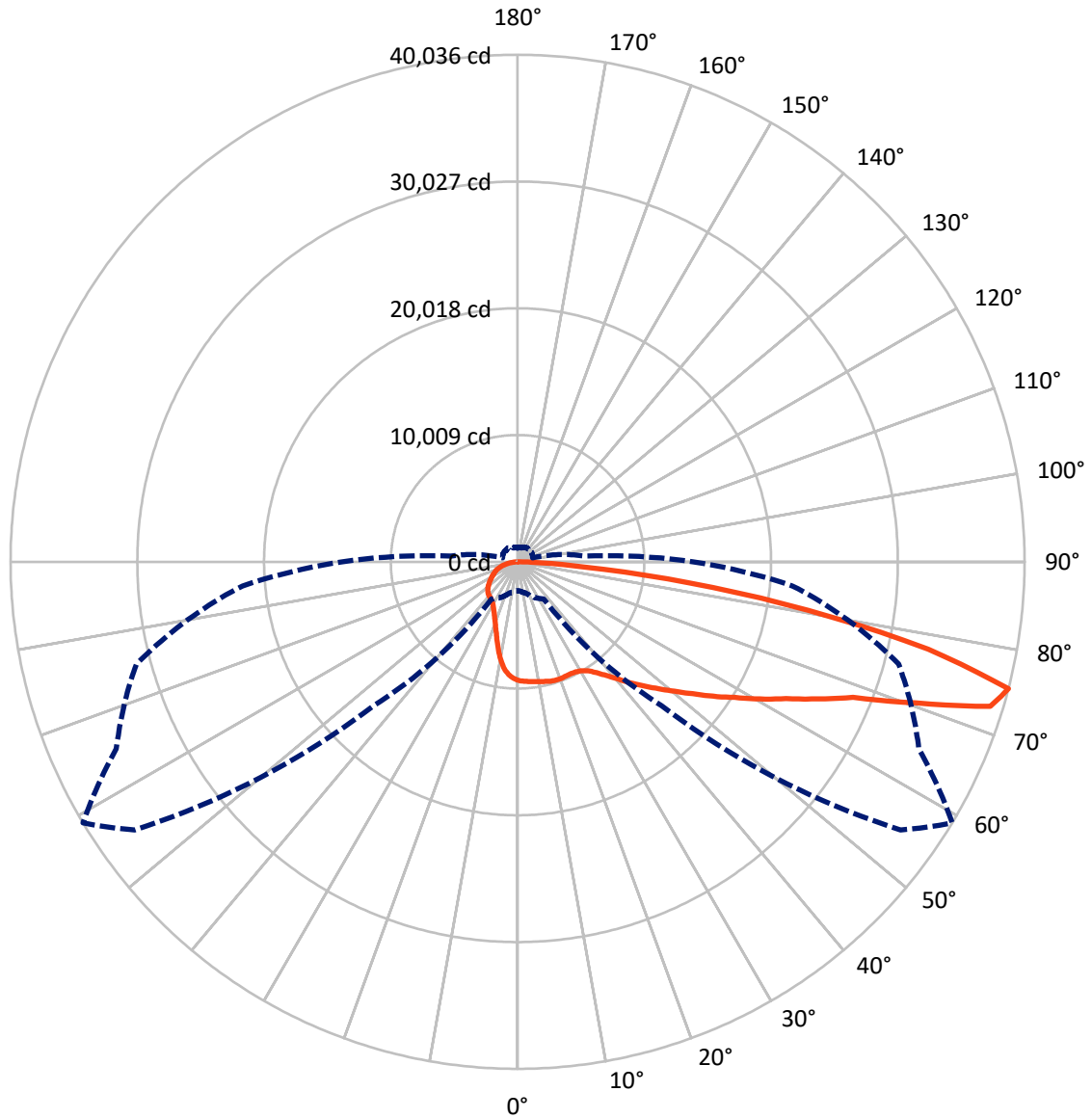
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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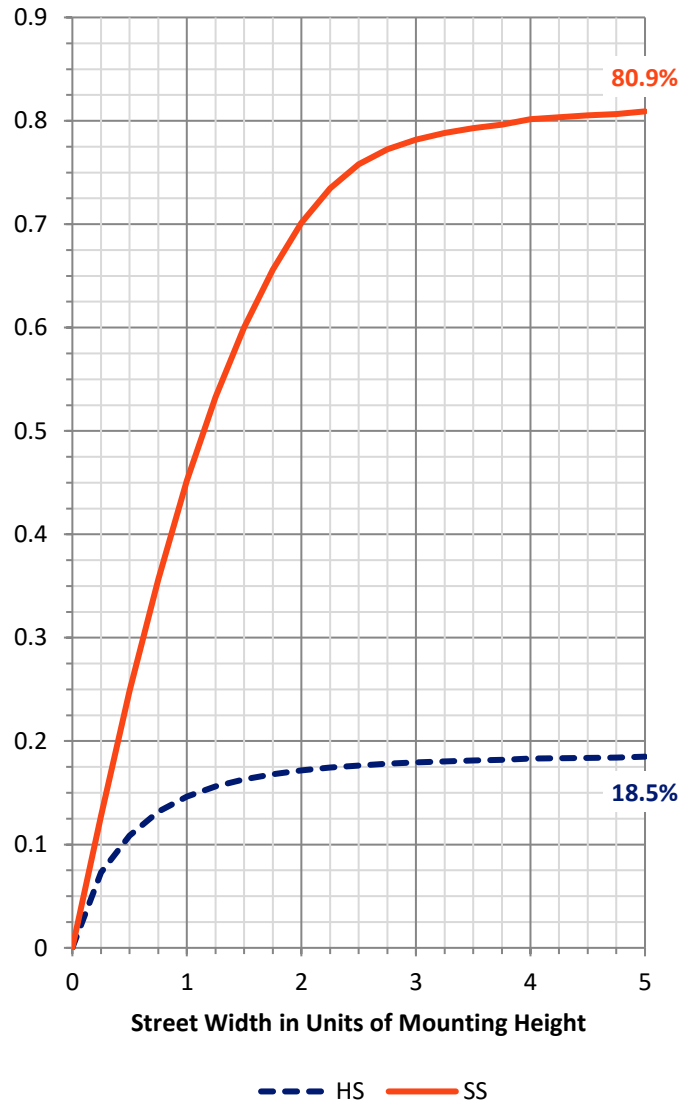
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9577.9	0.0	9577.9
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	41488.7	0.0	41488.7
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	51066.5	0.0	51066.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	840.4	1.6
10°-20°	2148.3	4.2
20°-30°	3263.0	6.4
30°-40°	4850.4	9.5
40°-50°	7213.4	14.1
50°-60°	9791.3	19.2
60°-70°	11953.6	23.4
70°-80°	9381.0	18.4
80°-90°	1625.0	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°	51066.5	100.0
0°-180°	51066.5	100.0

**Coefficient of Utilization**



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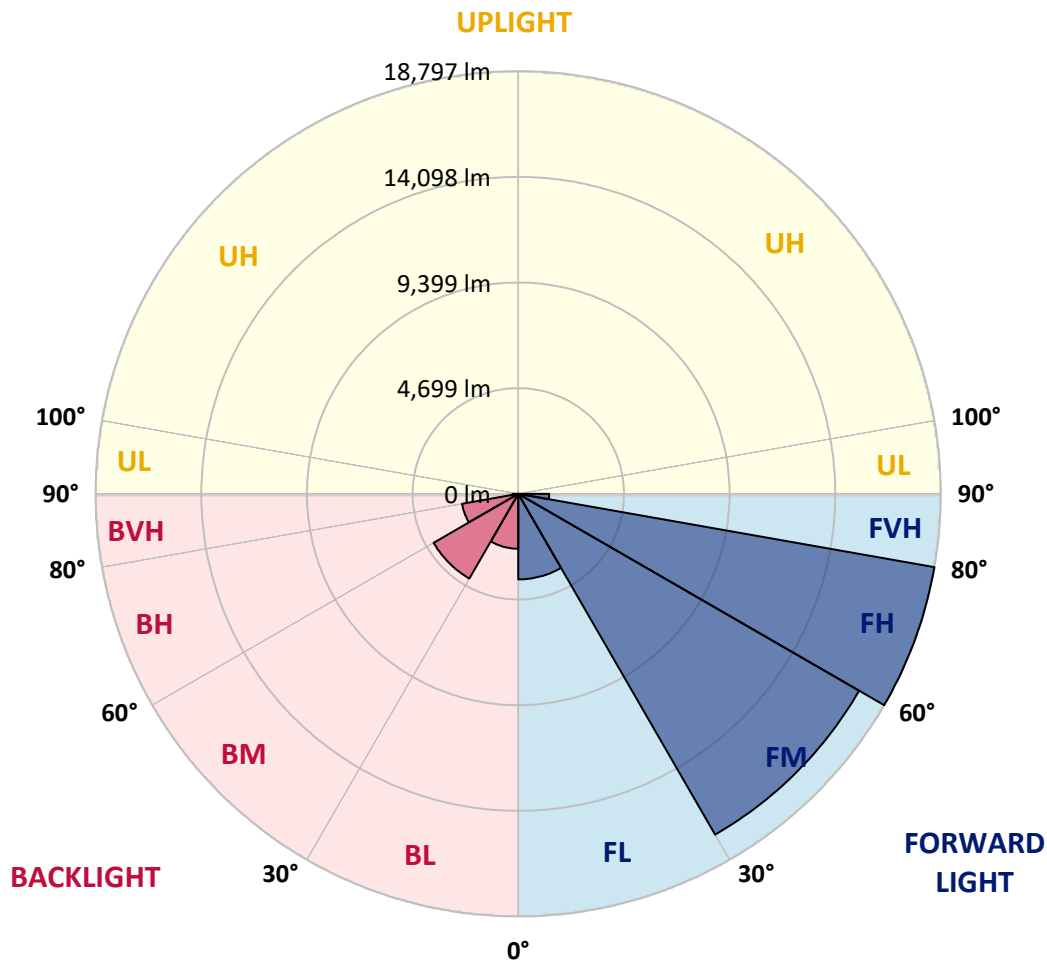
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3807.6	7.5			
FM (30°-60°)	17507.7	34.3			
FH (60°-80°)	18797.1	36.8			G5
FVH (80°-90°)	1376.3	2.7			G5
BL (0°-30°)	2444.2	4.8	B3/2500		
BM (30°-60°)	4347.4	8.5	B3/5000		
BH (60°-80°)	2537.6	5.0	B4/5000		G4/5000
BVH (80°-90°)	248.7	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9373.1	9373.1	9373.1	9373.1	9373.1	9373.1	9373.1	9373.1	9373.1	9373.1	9373.1
2.5°	9452.9	9419.9	9452.9	9439.1	9433.6	9422.6	9425.4	9444.6	9433.6	9447.3	9400.6
5°	9389.6	9370.4	9403.3	9395.2	9430.8	9436.4	9472.0	9494.1	9507.8	9510.5	9474.8
7.5°	9285.3	9266.0	9312.7	9351.2	9428.1	9450.1	9524.2	9560.0	9579.1	9612.1	9560.0
10°	8903.4	8895.2	9010.6	9156.1	9337.4	9450.1	9562.7	9623.1	9653.3	9741.3	9680.8
12.5°	8227.6	8238.5	8389.7	8669.9	9032.5	9395.2	9606.6	9694.6	9741.3	9851.2	9823.7
15°	7582.0	7579.3	7744.1	8043.6	8551.8	9153.4	9628.6	9779.7	9859.4	10021.4	9999.5
17.5°	7208.4	7197.4	7312.9	7540.8	8013.3	8782.5	9573.7	9826.5	9996.7	10200.0	10180.8
20°	7139.7	7117.8	7178.2	7290.8	7626.0	8376.0	9430.8	9826.5	10106.6	10370.3	10359.4
22.5°	7389.7	7354.1	7329.3	7315.5	7463.9	8040.8	9268.8	9793.5	10268.7	10614.8	10595.6
25°	7892.5	7837.6	7711.2	7587.6	7543.6	7889.7	9125.9	9785.2	10510.5	10944.5	10873.1
27.5°	8705.6	8637.0	8381.4	8084.8	7818.3	7966.6	9062.7	9834.7	10777.0	11293.3	11150.6
30°	9713.8	9639.6	9318.2	8862.2	8384.2	8252.3	9142.4	9980.2	11117.6	11757.7	11477.4
32.5°	10617.6	10535.2	10260.5	9796.2	9150.6	8746.8	9395.2	10257.7	11653.2	12403.2	11969.1
35°	11419.7	11323.6	11076.4	10647.8	10090.1	9441.8	9851.2	10749.5	12414.2	13452.6	12636.7
37.5°	12205.4	12092.7	11823.6	11370.3	10980.2	10367.6	10480.2	11381.3	13425.1	14727.3	13521.3
40°	13084.5	12922.4	12595.5	12147.7	11768.6	11452.7	11307.1	12156.0	14452.6	16150.3	14625.6
42.5°	13936.1	13782.3	13392.1	13010.3	12535.0	12444.4	12265.9	13062.5	15576.1	17713.3	15746.5
45°	14853.7	14669.6	14197.1	13713.6	13414.2	13103.7	13194.4	13969.1	16677.7	19306.7	16922.2
47.5°	15713.5	15507.4	14949.8	14411.4	14246.5	13658.6	14046.0	14966.2	17823.3	20922.0	18086.9
50°	16177.8	15974.4	15510.2	15023.9	14894.9	14342.7	14969.0	16062.4	19023.8	22531.9	19205.0
52.5°	16565.1	16345.4	15738.2	15469.0	15430.6	15087.2	16106.3	17315.0	20224.3	23954.9	20284.6
55°	16977.2	16732.6	15958.0	15716.2	15892.0	15922.2	17455.1	18735.3	21493.4	25342.1	21303.8
57.5°	17452.4	17142.0	16169.5	15925.0	16342.6	16900.2	19004.5	20207.8	22740.5	26627.8	22210.4
60°	17900.2	17587.1	16576.1	16257.4	16828.9	18034.8	20781.9	21990.7	24152.6	27773.3	23067.5
62.5°	17988.1	17729.8	16900.2	16897.5	17488.1	19358.9	22886.2	23789.9	25386.1	28905.1	23836.7
65°	16466.2	16304.1	15812.4	16872.7	18433.1	21265.4	25229.5	26092.1	26954.6	29894.1	24512.5
67.5°	12532.4	12554.3	12518.6	14565.1	17669.5	24004.3	28622.2	28556.2	28891.4	31003.9	25289.9
70°	5730.5	5859.6	6700.2	10054.4	14155.9	24320.2	34231.7	33377.4	31322.6	32440.6	25962.9
72.5°	3096.0	3194.9	3538.3	4870.6	8510.6	21622.5	38423.9	39031.0	34555.9	33407.6	25224.0
75°	2271.9	2326.9	2565.8	3096.0	3574.0	16070.6	36921.2	40036.4	34959.8	31152.2	21781.9
77.5°	1700.5	1725.2	1920.2	2453.1	1829.6	8472.1	29501.2	33157.6	29927.0	25594.9	16089.8
80°	1233.5	1261.0	1406.5	1840.6	1282.9	3098.8	20257.2	23273.5	20496.2	16315.1	8018.8
82.5°	851.6	862.6	925.8	1252.7	895.5	1203.2	11493.9	13647.7	11441.8	5724.9	2164.7
85°	513.7	527.5	554.9	730.7	508.2	571.4	4961.3	5131.6	3420.1	1368.1	673.0
87.5°	211.6	225.3	247.2	307.7	200.5	159.3	818.7	1027.5	640.1	401.1	208.8
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°	9373.1	9373.1	9373.1	9373.1	9373.1	9373.1	9373.1	9373.1	9373.1	9373.1	9373.1
2.5°	9386.8	9367.7	9315.5	9244.1	9178.1	9095.6	9060.0	9029.7	9002.3	8950.1	8925.4
5°	9444.6	9392.4	9252.3	9070.9	8864.9	8639.6	8419.9	8268.8	8139.7	8043.6	7963.8
7.5°	9532.5	9433.6	9178.1	8807.2	8334.8	7851.3	7414.4	7104.1	6870.6	6785.4	6637.0
10°	9623.1	9505.0	9060.0	8406.1	7590.2	6845.8	6266.1	5947.5	5760.7	5700.2	5606.9
12.5°	9730.2	9557.2	8875.9	7848.5	6757.9	5942.0	5436.5	5249.7	5153.6	5120.6	5128.9
15°	9886.8	9601.2	8598.4	7150.7	5964.0	5282.7	4955.8	4826.7	4777.2	4774.4	4785.5
17.5°	10005.0	9609.4	8167.2	6403.5	5354.1	4884.3	4615.2	4565.7	4598.7	4648.1	4667.3
20°	10136.8	9535.3	7601.3	5722.3	4925.5	4535.5	4422.9	4455.8	4535.5	4606.9	4631.7
22.5°	10230.2	9400.6	6917.2	5192.0	4554.7	4334.9	4329.5	4398.2	4442.0	4477.8	4497.0
25°	10312.6	9172.6	6192.0	4747.0	4249.8	4214.1	4274.6	4252.5	4222.3	4252.5	4271.8
27.5°	10373.1	8812.7	5543.7	4357.0	4035.5	4131.7	4095.9	4046.5	4043.7	4060.2	4087.7
30°	10353.8	8332.0	5010.7	3986.0	3884.4	3977.8	3892.6	3884.4	3876.1	3884.4	3914.7
32.5°	10353.8	7785.3	4601.4	3730.6	3788.3	3752.5	3744.3	3725.1	3692.2	3689.4	3725.1
35°	10411.5	7238.7	4249.8	3593.2	3708.6	3623.5	3628.9	3582.3	3513.6	3480.6	3513.6
37.5°	10529.7	6799.1	3900.9	3527.3	3568.5	3565.8	3543.7	3464.1	3343.2	3238.8	3274.6
40°	10815.4	6670.0	3661.9	3497.1	3502.5	3535.5	3477.8	3324.0	3049.3	2879.0	2901.0
42.5°	11263.1	6887.0	3609.7	3422.9	3458.7	3491.6	3378.9	3021.8	2826.7	2725.2	2725.2
45°	11831.8	7266.1	3722.3	3315.8	3354.2	3411.9	3076.7	2906.5	2818.5	2821.3	2835.0
47.5°	12551.5	7664.4	3931.1	3222.4	3203.1	3236.1	2876.3	2771.8	2651.0	2681.2	2758.1
50°	13383.9	8068.3	4128.9	3096.0	3035.5	2928.4	2747.1	2648.2	2494.3	2423.0	2442.2
52.5°	14285.0	8458.4	4208.5	2942.2	2854.2	2730.6	2659.2	2538.3	2351.6	2233.4	2230.6
55°	15139.4	8812.7	4120.7	2758.1	2672.9	2576.7	2565.8	2491.7	2291.1	2126.3	2126.3
57.5°	15947.0	9109.4	3900.9	2571.3	2488.9	2431.2	2505.4	2469.6	2216.9	2005.4	1994.4
60°	16631.0	9312.7	3582.3	2381.8	2324.1	2293.8	2406.5	2395.5	2112.5	1876.3	1868.1
62.5°	17174.9	9392.4	3230.6	2200.5	2186.7	2131.8	2269.1	2269.1	1980.7	1749.9	1741.7
65°	17600.8	9315.5	2873.5	2021.9	2049.4	1967.0	2101.6	2085.1	1840.6	1637.2	1626.3
67.5°	17977.1	9062.7	2477.9	1846.0	1909.3	1804.8	1925.8	1887.2	1686.7	1524.7	1513.6
70°	18144.7	8474.8	2027.3	1670.2	1747.1	1645.5	1749.9	1678.4	1513.6	1403.7	1381.8
72.5°	16798.6	7043.6	1596.0	1486.1	1552.2	1469.7	1560.4	1477.9	1326.9	1277.5	1236.1
75°	13897.7	5285.4	1227.9	1285.7	1335.1	1271.9	1332.4	1271.9	1134.6	1170.2	1068.7
77.5°	10092.9	3568.5	939.5	1074.1	1096.1	1063.1	1115.3	1046.6	923.0	914.8	873.6
80°	5019.0	2090.6	736.3	848.9	840.6	818.7	879.0	846.1	741.7	785.7	777.5
82.5°	1453.2	895.5	535.7	596.1	579.6	585.2	629.0	645.5	967.0	958.8	980.7
85°	456.0	351.7	321.4	332.4	315.9	324.2	370.8	736.3	681.3	398.3	431.3
87.5°	118.1	120.8	79.6	85.2	87.9	104.3	118.1	447.8	214.2	140.1	148.3
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)