

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: P969731

Luminaire Tested: **NAV-SB6A-722-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969731  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6A-722-U-AFL  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23425.4 lumens  
Efficiency: N/A  
Efficacy: 137.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

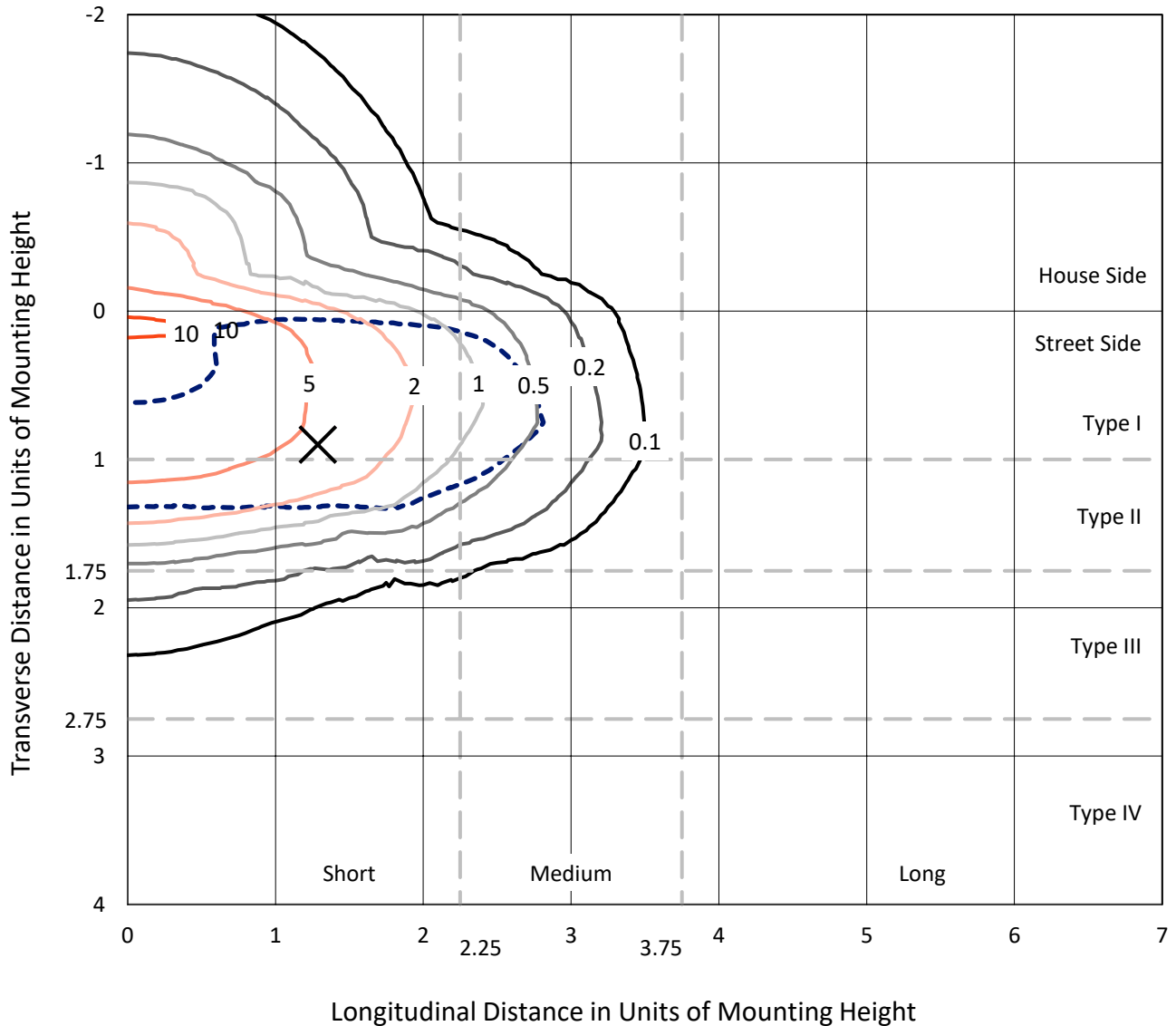
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

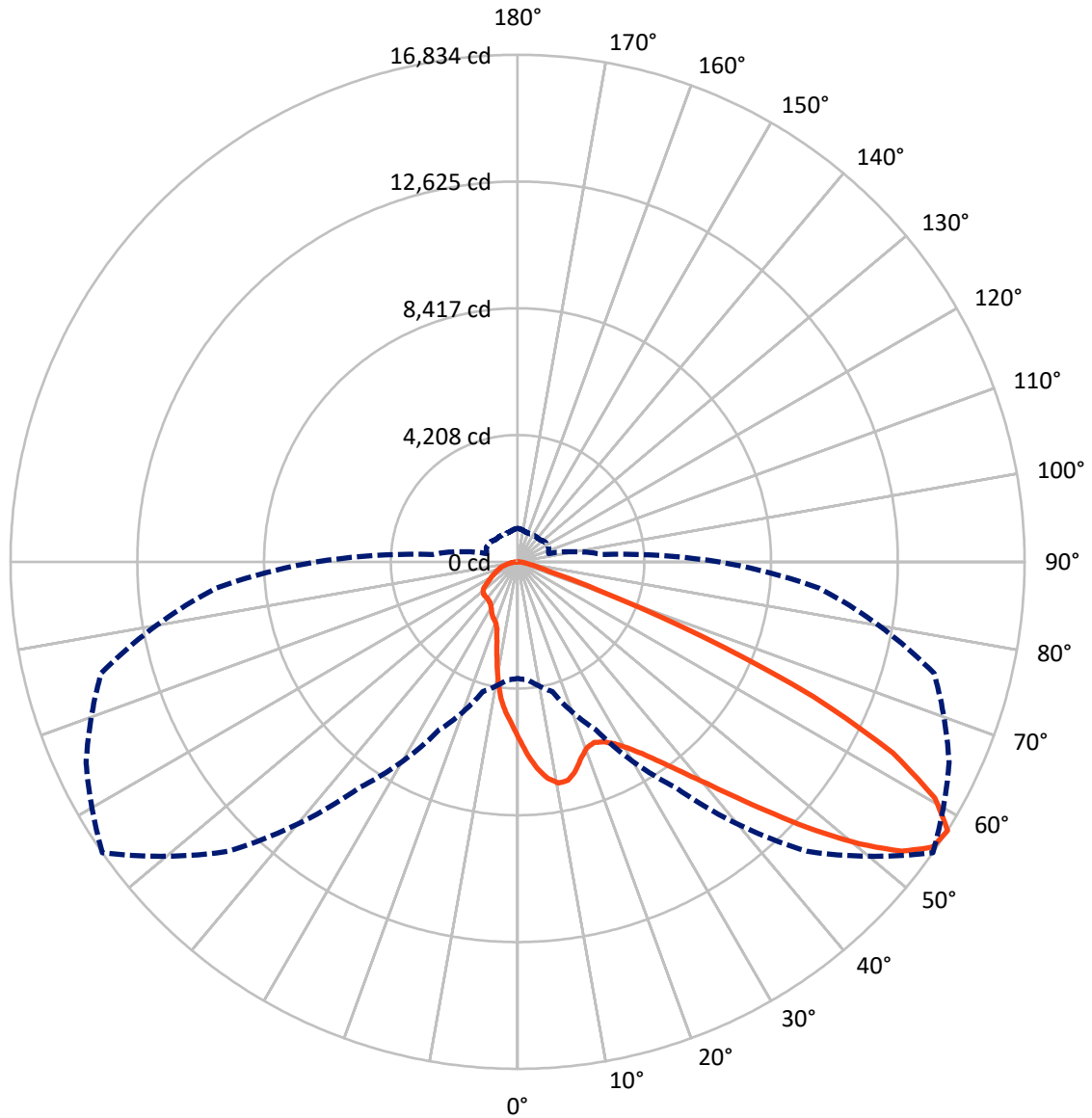
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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 CATALOG NUMBER: NAV-SB6A-722-U-AFL

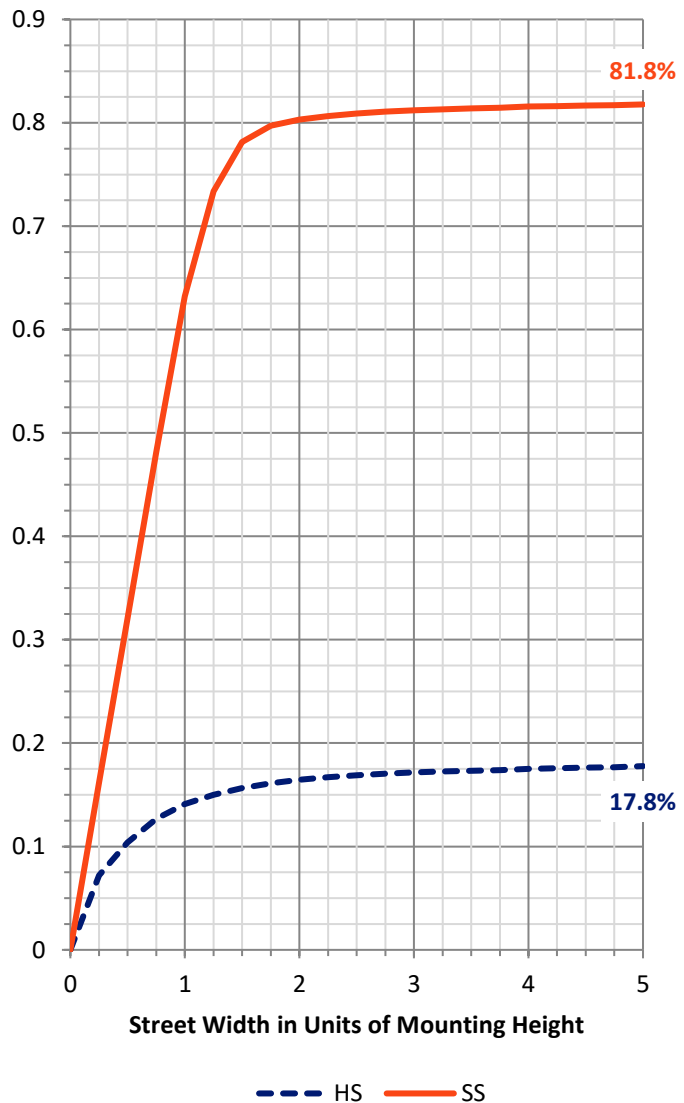
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4238.7	0.0	4238.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	19186.7	0.0	19186.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	23425.4	0.0	23425.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	544.7	2.3
10°-20°	1374.8	5.9
20°-30°	2193.7	9.4
30°-40°	3473.2	14.8
40°-50°	5316.1	22.7
50°-60°	5694.1	24.3
60°-70°	3582.2	15.3
70°-80°	1059.3	4.5
80°-90°	187.3	0.8
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°	23425.4	100.0
0°-180°	23425.4	100.0

**Coefficient of Utilization**

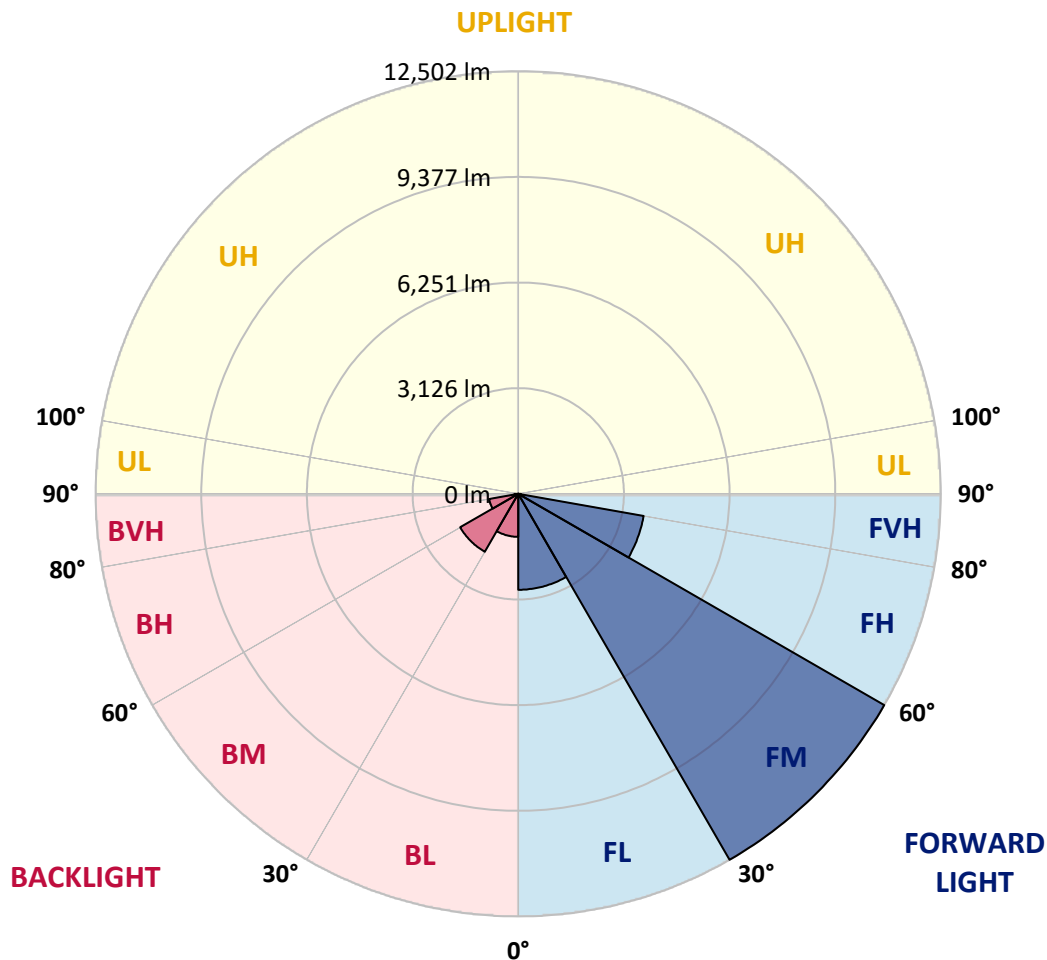


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 CATALOG NUMBER: NAV-SB6A-722-U-AFL

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2839.2	12.1			
FM (30°-60°)	12502.3	53.4			
FH (60°-80°)	3766.1	16.1			G2/5000
FVH (80°-90°)	79.1	0.3			G1/100
BL (0°-30°)	1274.0	5.4	B3/2500		
BM (30°-60°)	1981.1	8.5	B2/2500		
BH (60°-80°)	875.4	3.7	B2/1000		G2/1000
BVH (80°-90°)	108.2	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-G2**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5869.7	5869.7	5869.7	5869.7	5869.7	5869.7	5869.7	5869.7	5869.7	5869.7	5869.7
2.5°	6734.2	6729.4	6756.1	6665.3	6603.5	6519.9	6409.7	6269.2	6117.9	5958.0	5889.0
5°	7340.9	7298.6	7326.5	7258.6	7190.8	7064.9	6901.4	6672.5	6392.8	6074.3	5904.7
7.5°	7245.3	7216.2	7287.6	7348.2	7399.1	7383.4	7263.5	7023.7	6662.8	6200.2	5954.4
10°	6473.9	6441.2	6541.8	6751.3	7058.9	7326.5	7471.7	7322.8	6938.9	6338.3	6002.8
12.5°	5793.3	5777.6	5844.2	6013.8	6355.2	6868.7	7445.1	7584.4	7225.9	6501.8	6068.2
15°	5502.7	5483.3	5525.7	5611.7	5829.7	6308.1	7202.9	7763.7	7508.1	6690.7	6172.3
17.5°	5438.5	5416.7	5434.9	5479.6	5620.2	5984.7	6837.2	7852.0	7802.4	6901.4	6259.6
20°	5557.2	5539.0	5541.5	5539.0	5637.1	5926.5	6582.9	7818.1	8059.1	7095.2	6344.3
22.5°	5844.2	5813.9	5815.1	5751.0	5804.3	6028.2	6516.3	7727.3	8287.9	7264.7	6408.5
25°	6311.6	6257.1	6268.1	6104.6	6090.0	6256.0	6620.5	7657.1	8515.6	7400.3	6420.6
27.5°	6951.0	6889.2	6856.5	6613.2	6497.0	6579.3	6832.3	7681.2	8731.2	7517.8	6390.4
30°	7750.3	7675.2	7608.6	7263.5	7052.7	7022.5	7161.8	7841.1	8985.5	7641.3	6338.3
32.5°	8729.9	8642.8	8521.6	8064.0	7767.2	7608.6	7588.0	8125.7	9283.4	7798.7	6311.6
35°	9896.2	9782.3	9610.4	9018.2	8642.8	8318.3	8149.9	8536.2	9691.5	8036.1	6341.9
37.5°	11097.5	10969.0	10811.7	10106.9	9645.5	9167.1	8835.3	9093.3	10235.2	8358.2	6421.8
40°	12205.5	12061.4	11914.9	11287.6	10792.3	10215.9	9674.6	9798.1	10900.1	8743.2	6557.4
42.5°	12859.4	12752.8	12697.2	12358.1	11975.4	11390.5	10718.4	10633.7	11647.3	9186.6	6712.5
45°	12830.3	12786.8	12958.8	13099.2	13008.4	12683.9	11941.5	11557.6	12396.9	9570.4	6855.4
47.5°	12144.9	12174.0	12557.9	13347.4	13695.0	13864.6	13334.1	12464.6	13048.4	9857.4	6919.6
50°	10280.0	10304.2	11193.1	12895.7	13871.8	14827.2	14715.8	13349.9	13553.3	10033.0	6905.0
52.5°	8803.8	8819.6	9201.0	11556.4	13288.1	15311.7	15960.8	14184.3	13922.7	10081.4	6823.9
55°	6631.3	6685.9	7113.3	9066.6	11769.6	14927.8	16718.8	15044.0	14156.4	10086.3	6739.1
57.5°	3873.9	3933.2	4461.2	6154.2	9147.7	13589.7	16833.9	15806.9	14315.0	10047.6	6688.2
60°	1897.6	1923.0	2153.1	3234.5	5640.8	11011.5	15908.7	16176.3	14403.4	10027.0	6685.9
62.5°	1278.8	1275.2	1284.8	1596.0	2779.2	7074.6	13980.8	15529.7	14356.2	9948.2	6661.6
65°	1099.6	1086.3	1049.9	1120.1	1439.8	3235.7	10802.0	13599.3	13996.6	9750.8	6495.7
67.5°	950.6	951.8	953.0	931.2	1028.1	1493.1	6601.1	10712.4	12705.6	8815.9	5856.3
70°	787.1	798.1	802.9	802.9	838.0	979.7	2817.9	7342.2	10022.1	6912.3	4716.7
72.5°	716.9	693.9	696.3	684.2	684.2	746.0	1134.7	4162.1	6314.1	3888.4	2878.5
75°	584.9	599.4	601.9	593.4	565.5	569.2	673.3	1746.2	2701.7	1613.0	1422.9
77.5°	505.0	505.0	509.8	503.8	482.0	426.3	449.3	676.9	919.1	661.2	710.8
80°	405.7	404.5	425.1	437.2	403.2	314.9	287.0	374.2	408.1	290.6	369.3
82.5°	197.4	209.5	291.8	333.0	306.4	227.7	175.6	232.5	218.0	128.3	165.9
85°	115.0	109.0	130.8	185.3	175.6	126.0	84.8	121.1	113.9	65.4	66.6
87.5°	36.3	33.9	26.6	62.9	50.8	35.2	23.0	35.2	31.5	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P969731  
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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5869.7	5869.7	5869.7	5869.7	5869.7	5869.7	5869.7	5869.7	5869.7	5869.7
2.5°	5803.0	5660.2	5518.5	5388.8	5310.1	5259.3	5208.4	5151.5	5129.7	5097.0
5°	5744.9	5468.8	5223.0	5011.0	4818.5	4667.1	4514.5	4391.0	4335.3	4372.9
7.5°	5711.0	5311.3	4932.3	4543.6	4169.4	3870.3	3609.9	3427.1	3344.8	3365.3
10°	5680.8	5133.4	4555.7	3941.7	3404.0	3033.5	2767.1	2627.8	2575.7	2586.7
12.5°	5652.9	4933.5	4101.6	3293.8	2722.3	2477.6	2401.4	2402.6	2412.2	2419.5
15°	5648.1	4692.6	3594.2	2727.1	2354.1	2338.4	2420.7	2472.8	2500.7	2509.2
17.5°	5640.8	4404.3	3077.2	2340.8	2264.5	2371.1	2447.4	2481.3	2503.0	2504.3
20°	5611.7	4038.6	2600.0	2156.8	2245.2	2337.2	2384.5	2411.1	2429.2	2435.3
22.5°	5522.1	3631.8	2228.2	2074.4	2167.7	2241.6	2297.2	2327.5	2338.4	2345.7
25°	5361.1	3176.4	1971.5	1995.7	2059.8	2153.1	2197.9	2204.0	2200.4	2211.2
27.5°	5150.3	2688.4	1811.6	1889.2	1971.5	2051.4	2075.6	2072.0	2064.8	2076.9
30°	4896.0	2250.0	1709.9	1769.3	1881.9	1954.6	1976.3	1967.9	1953.3	1966.7
32.5°	4627.2	1891.5	1626.4	1685.7	1808.0	1879.4	1901.3	1892.8	1881.9	1892.8
35°	4376.4	1640.9	1548.9	1630.0	1749.9	1820.1	1848.0	1849.2	1849.2	1862.5
37.5°	4146.4	1494.3	1484.7	1594.9	1709.9	1772.8	1812.8	1815.3	1763.2	1766.8
40°	3933.2	1432.6	1455.6	1571.8	1671.2	1731.7	1734.1	1598.5	1502.9	1500.4
42.5°	3758.9	1420.4	1464.1	1569.5	1643.3	1645.7	1475.0	1369.6	1343.0	1344.2
45°	3595.4	1416.9	1483.5	1569.5	1602.2	1421.7	1306.7	1278.8	1281.2	1290.9
47.5°	3412.5	1402.3	1487.1	1547.6	1483.5	1264.2	1230.3	1218.2	1213.4	1215.9
50°	3212.8	1350.2	1441.0	1504.1	1280.0	1196.5	1154.0	1150.5	1156.5	1160.1
52.5°	3002.0	1265.5	1362.3	1425.4	1186.7	1137.1	1089.9	1098.4	1125.0	1133.4
55°	2864.0	1166.1	1258.2	1267.9	1121.4	1081.4	1041.4	1060.8	1110.5	1126.2
57.5°	2827.7	1060.8	1139.5	1128.6	1037.8	1033.0	1008.7	1025.7	1088.7	1111.7
60°	2816.7	966.4	1023.3	1014.9	956.6	979.7	973.6	982.2	1003.9	1011.2
62.5°	2731.9	891.2	919.1	907.0	884.1	923.9	938.5	920.3	937.3	945.8
65°	2516.4	830.8	817.4	808.9	818.7	855.0	884.1	847.7	863.5	887.6
67.5°	2160.4	748.4	712.1	721.7	752.0	771.4	808.9	767.7	781.0	822.3
70°	1747.4	644.2	611.5	639.4	668.5	708.4	714.5	686.6	718.1	764.1
72.5°	1236.5	538.8	515.9	572.8	582.5	634.6	621.3	607.9	651.5	667.3
75°	857.4	434.7	421.4	465.0	500.1	545.0	535.3	551.0	643.0	650.3
77.5°	542.5	337.8	329.4	357.2	405.7	455.3	471.1	650.3	1098.4	1142.0
80°	314.9	251.8	242.2	264.0	306.4	352.4	454.1	798.1	724.2	715.7
82.5°	175.6	173.1	161.0	167.1	204.7	254.3	641.9	561.9	456.5	471.1
85°	82.3	101.7	87.2	83.5	115.0	297.9	428.7	320.9	213.1	208.3
87.5°	21.8	19.4	19.4	21.8	48.5	256.8	170.8	136.8	81.2	78.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)