

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: P969746

Luminaire Tested: **NAV-SB6A-722-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969746  
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: LUMARK  
Catalog Number: NAV-SB6A-722-U-T2R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23460.2 lumens  
Efficiency: N/A  
Efficacy: 137.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

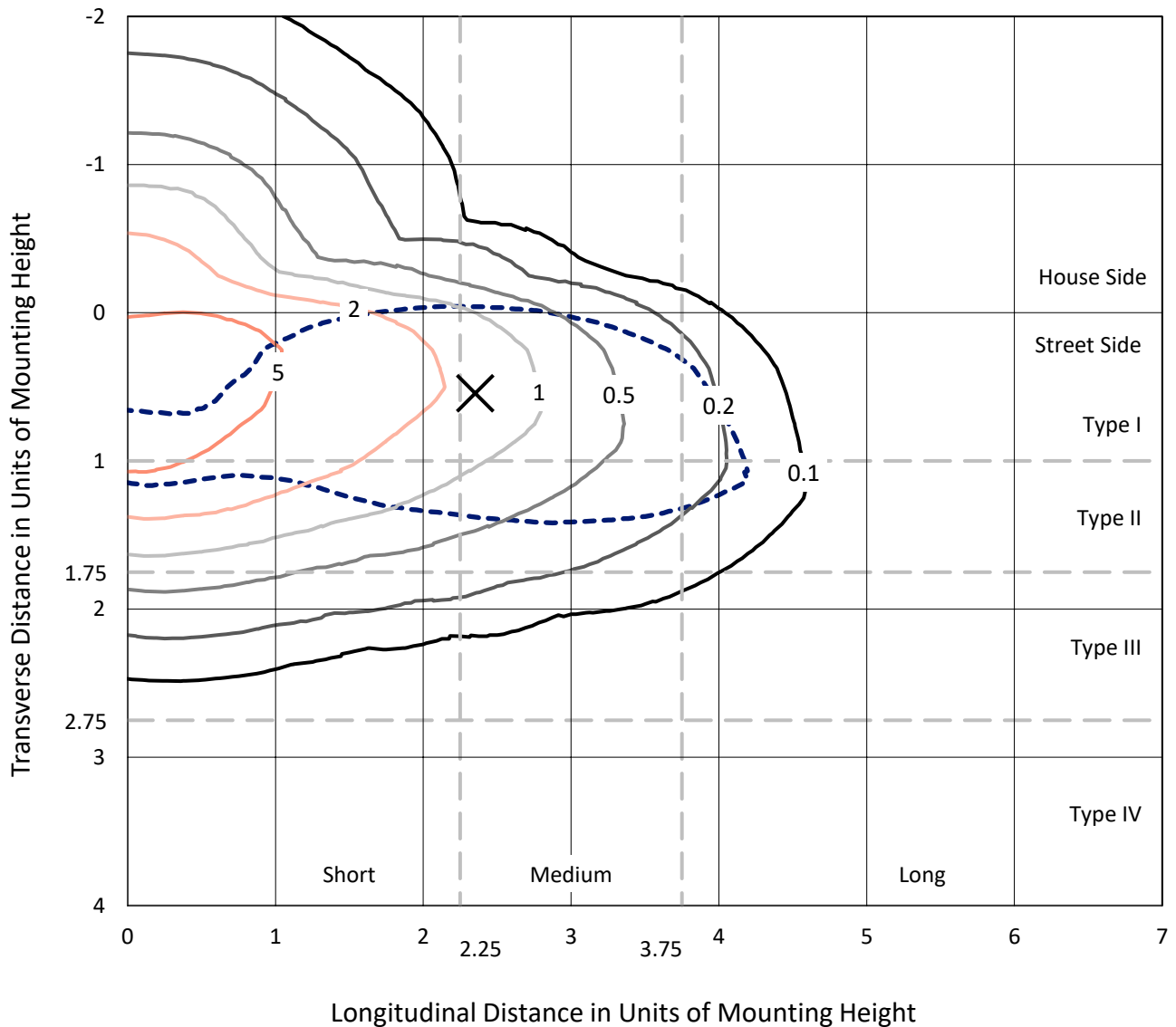
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P969746  
 CATALOG NUMBER: NAV-SB6A-722-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

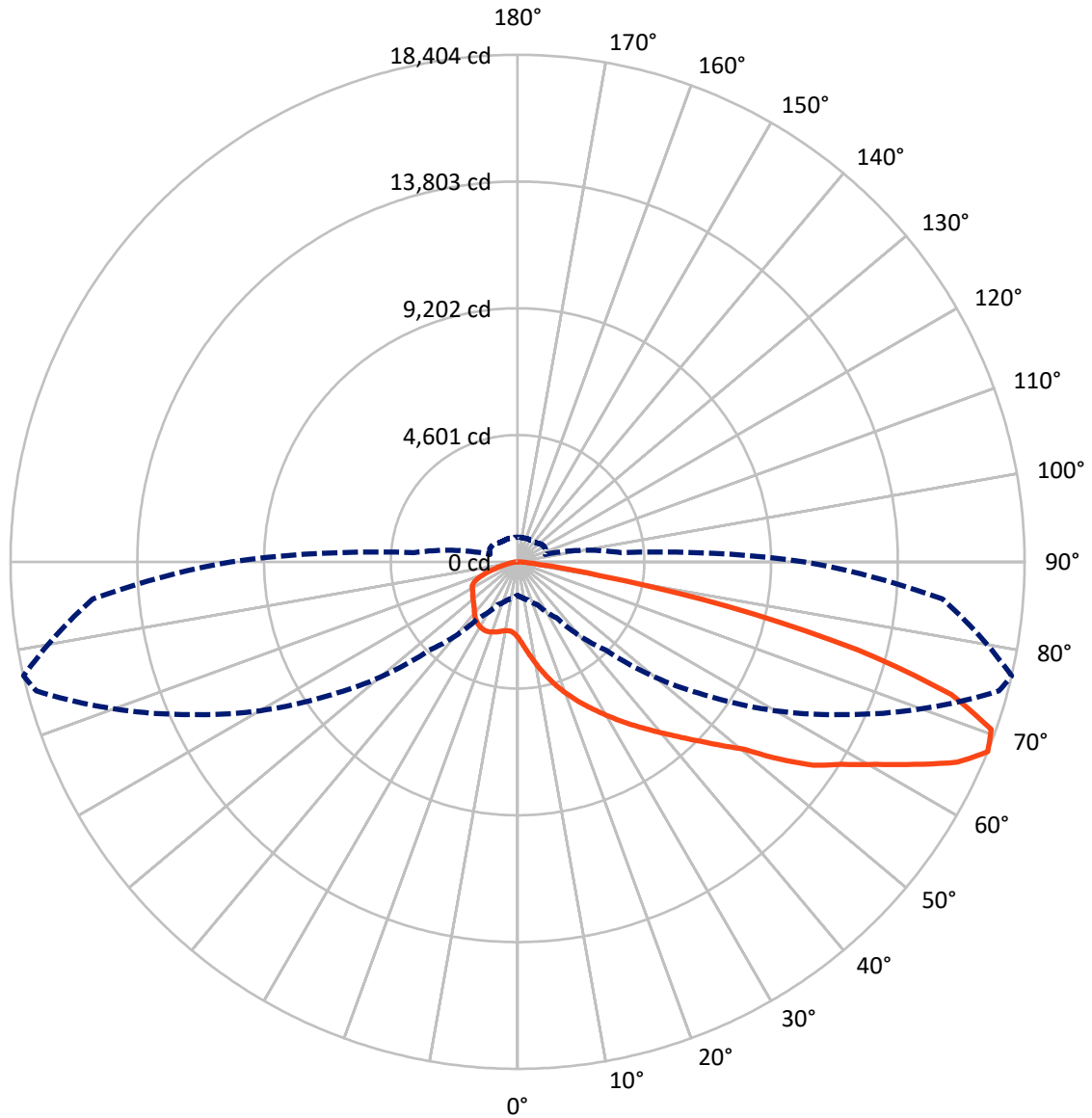
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P969746  
CATALOG NUMBER: NAV-SB6A-722-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P969746  
 CATALOG NUMBER: NAV-SB6A-722-U-T2R

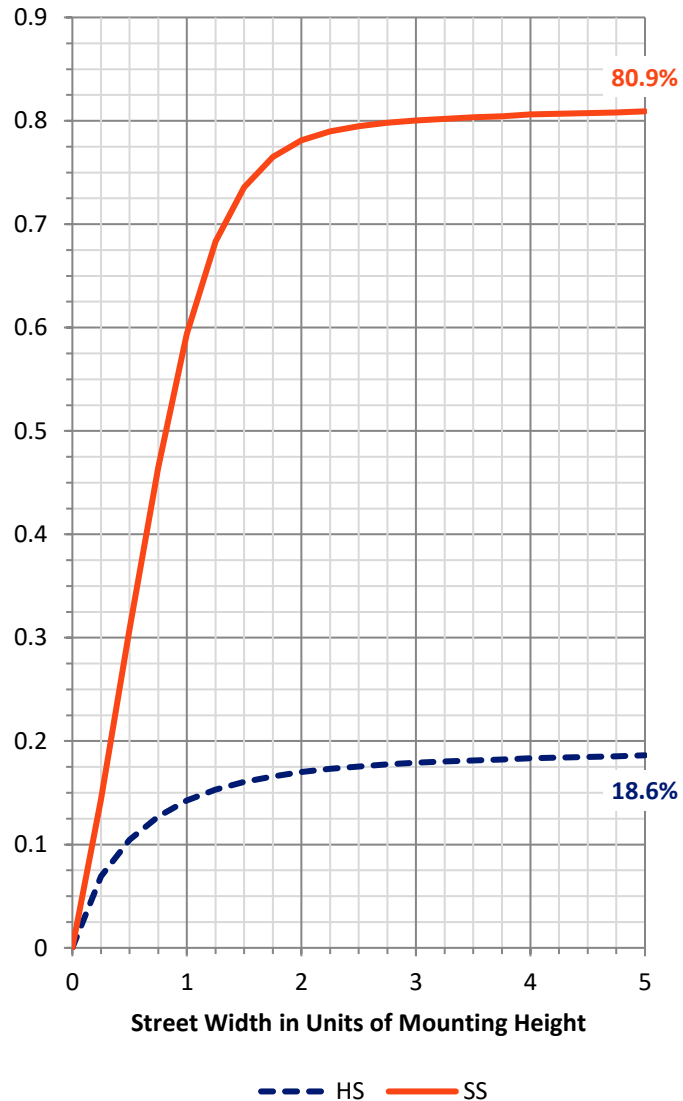
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4437.7	0.0	4437.7
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	19022.5	0.0	19022.5
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	23460.2	0.0	23460.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.0	1.3
10°-20°	1060.0	4.5
20°-30°	2001.3	8.5
30°-40°	3224.1	13.7
40°-50°	4410.0	18.8
50°-60°	4974.5	21.2
60°-70°	4643.1	19.8
70°-80°	2545.2	10.8
80°-90°	307.0	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°	23460.2	100.0
0°-180°	23460.2	100.0

**Coefficient of Utilization**

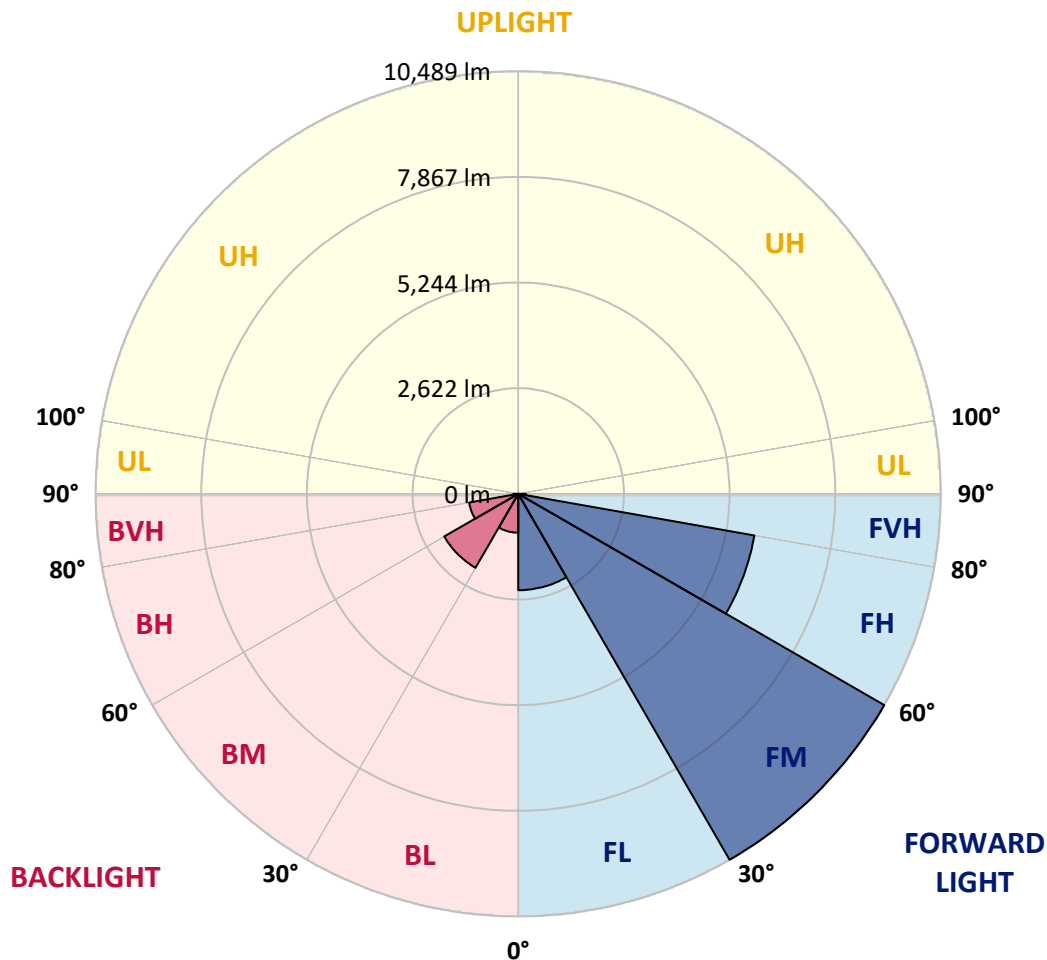


REPORT NUMBER: P969746  
 CATALOG NUMBER: NAV-SB6A-722-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2391.5	10.2			
FM (30°-60°)	10488.8	44.7			
FH (60°-80°)	5950.2	25.4			G3/7500
FVH (80°-90°)	192.0	0.8			G2/225
BL (0°-30°)	964.9	4.1	B2/1000		
BM (30°-60°)	2119.8	9.0	B2/2500		
BH (60°-80°)	1238.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	115.0	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



REPORT NUMBER: P969746  
 CATALOG NUMBER: NAV-SB6A-722-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2752.6	2752.6	2752.6	2752.6	2752.6	2752.6	2752.6	2752.6	2752.6	2752.6	2752.6
2.5°	3446.6	3470.8	3440.4	3440.4	3338.7	3285.4	3183.8	3106.3	2967.0	2942.8	2850.7
5°	4073.9	4104.1	4061.7	4043.5	3923.7	3813.4	3642.7	3474.3	3226.1	3200.7	2983.9
7.5°	4559.4	4598.2	4560.6	4541.3	4434.7	4311.2	4111.4	3876.4	3526.4	3476.8	3163.1
10°	4955.5	4961.5	4949.4	4956.6	4873.1	4771.4	4566.7	4293.0	3855.8	3788.0	3379.9
12.5°	5179.4	5207.3	5231.5	5275.2	5260.6	5197.7	5013.6	4686.6	4204.7	4117.4	3616.1
15°	5284.8	5333.3	5387.7	5488.3	5569.4	5585.1	5444.7	5109.2	4559.4	4454.0	3854.6
17.5°	5322.3	5368.3	5454.3	5599.7	5774.0	5891.5	5828.6	5519.7	4910.6	4789.5	4105.3
20°	5512.4	5525.8	5577.8	5715.9	5904.8	6099.8	6147.0	5914.6	5258.1	5121.3	4364.4
22.5°	5919.4	5892.7	5907.3	5970.2	6105.9	6294.8	6402.6	6263.3	5615.5	5458.0	4626.0
25°	6591.5	6514.0	6436.5	6363.8	6432.9	6539.4	6661.7	6612.1	5989.6	5789.8	4890.1
27.5°	7440.4	7346.0	7175.2	6936.6	6853.0	6890.6	6945.1	6935.5	6335.9	6133.7	5162.5
30°	8276.0	8165.8	7962.3	7617.2	7396.8	7297.5	7256.3	7228.5	6712.6	6497.1	5437.4
32.5°	8943.2	8856.1	8656.2	8269.9	7950.2	7780.7	7643.8	7544.5	7106.1	6890.6	5728.0
35°	9527.0	9445.8	9216.9	8795.5	8447.9	8267.5	8088.3	7876.4	7515.5	7297.5	6040.5
37.5°	10059.8	9978.7	9665.0	9226.6	8876.6	8752.0	8592.1	8232.4	7926.0	7720.1	6371.1
40°	10396.5	10378.3	10085.3	9588.8	9225.4	9163.7	9110.4	8645.4	8381.3	8190.1	6734.4
42.5°	10482.5	10522.4	10289.9	9881.8	9535.5	9485.8	9610.5	9112.8	8892.4	8709.5	7146.1
45°	10275.3	10390.4	10237.8	9960.5	9755.8	9729.2	10053.7	9623.8	9458.0	9290.8	7642.6
47.5°	9751.0	9946.0	9882.9	9844.2	9815.2	9930.2	10443.7	10166.4	10098.5	9953.3	8209.4
50°	8692.6	9061.9	9172.1	9416.8	9697.7	10086.4	10798.5	10758.5	10847.0	10700.4	8899.7
52.5°	6862.8	7371.4	8010.8	8623.5	9336.8	10034.3	11188.5	11608.6	11981.6	11901.8	9996.8
55°	5665.1	5894.0	6385.6	7509.5	8636.9	9815.2	11364.1	12295.3	13107.9	13036.5	10828.8
57.5°	4744.7	4949.4	5252.1	6190.7	7578.4	9317.5	11473.0	12714.3	13879.3	13872.0	11649.8
60°	3757.8	3974.5	4284.5	4949.4	6342.0	8457.7	11448.8	13191.4	14863.8	14924.4	12651.4
62.5°	2643.6	2882.2	3226.1	3846.1	5079.0	7343.5	10954.7	13536.6	16022.8	16187.5	13856.3
65°	1737.8	1895.2	2154.3	2689.6	3784.4	5910.9	10011.4	13581.4	17262.8	17541.3	14987.3
67.5°	1218.3	1278.8	1431.4	1722.0	2494.6	4532.8	8508.5	13117.5	18089.9	18403.6	15477.8
70°	950.7	980.9	1058.4	1174.6	1567.0	3048.1	6520.0	11911.4	17913.2	18240.1	14965.6
72.5°	821.0	850.1	879.1	893.7	1051.1	1881.9	4416.5	9959.3	16248.0	16469.6	13012.3
75°	744.8	752.0	776.2	771.4	801.7	1220.7	2549.2	7256.3	12819.7	12743.4	9605.7
77.5°	626.1	635.8	675.8	669.7	712.1	834.4	1323.6	4682.9	8311.1	7792.8	5346.6
80°	530.4	535.3	578.8	571.6	618.8	604.3	675.8	2386.9	3525.2	2986.3	1541.6
82.5°	184.1	227.7	442.0	455.3	472.3	365.7	389.9	973.6	1076.6	824.7	323.4
85°	89.6	95.6	225.3	319.7	318.5	184.1	190.1	347.6	339.1	266.4	107.8
87.5°	14.6	18.1	26.6	124.7	99.3	48.5	65.4	67.9	70.2	60.6	24.2
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: P969746  
 CATALOG NUMBER: NAV-SB6A-722-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2752.6	2752.6	2752.6	2752.6	2752.6	2752.6	2752.6	2752.6	2752.6	2752.6	2752.6
2.5°	2782.9	2722.3	2595.2	2477.7	2385.7	2297.2	2247.6	2205.3	2181.0	2176.2	2176.2
5°	2858.0	2733.3	2501.9	2307.0	2179.8	2085.4	2035.6	2004.2	1988.5	1978.8	1977.5
7.5°	2965.7	2782.9	2453.5	2231.8	2098.7	2030.8	2005.4	2000.6	1999.4	2000.6	2004.2
10°	3114.7	2864.1	2448.6	2213.7	2102.3	2064.8	2063.5	2064.8	2069.6	2070.8	2072.0
12.5°	3275.8	2947.6	2468.0	2229.5	2148.3	2127.7	2124.1	2122.9	2126.6	2128.9	2130.2
15°	3451.4	3057.8	2500.7	2263.4	2199.1	2177.4	2173.7	2166.4	2165.3	2164.1	2162.9
17.5°	3631.8	3166.7	2537.1	2299.7	2231.8	2201.6	2188.3	2171.4	2158.0	2154.3	2158.0
20°	3814.6	3274.6	2562.5	2317.8	2234.3	2192.0	2165.3	2136.2	2113.2	2099.9	2104.7
22.5°	4009.6	3387.2	2578.2	2313.0	2212.5	2154.3	2106.0	2072.0	2036.9	2013.9	2015.2
25°	4199.7	3485.3	2577.1	2287.6	2170.1	2096.2	2034.5	1990.9	1942.5	1918.2	1918.2
27.5°	4382.6	3573.7	2546.7	2242.8	2109.6	2027.2	1953.3	1901.3	1854.0	1831.1	1829.8
30°	4571.5	3647.6	2499.5	2177.4	2038.1	1947.3	1866.1	1821.3	1779.0	1757.2	1755.9
32.5°	4759.3	3715.3	2432.9	2096.2	1955.8	1868.6	1788.6	1747.5	1722.0	1722.0	1723.2
35°	4957.8	3762.6	2344.5	2001.8	1868.6	1785.0	1722.0	1697.8	1695.5	1680.9	1677.2
37.5°	5167.3	3792.9	2236.8	1904.9	1782.6	1703.9	1684.5	1655.5	1631.2	1599.7	1594.9
40°	5387.7	3823.1	2107.2	1804.4	1691.8	1648.2	1639.7	1600.9	1532.0	1454.4	1443.5
42.5°	5655.3	3843.7	1972.7	1703.9	1596.1	1581.6	1593.7	1527.0	1416.9	1358.7	1360.0
45°	5965.4	3877.7	1849.2	1604.5	1498.0	1498.0	1548.9	1461.6	1370.8	1334.6	1340.6
47.5°	6367.5	3956.4	1734.2	1495.6	1407.2	1431.4	1449.6	1382.9	1332.1	1287.3	1286.1
50°	6948.8	4145.3	1615.5	1385.4	1338.1	1386.6	1361.2	1322.5	1263.1	1226.7	1223.1
52.5°	7670.5	4256.7	1510.1	1286.1	1278.8	1327.3	1290.9	1254.6	1209.8	1161.3	1151.7
55°	8162.2	4277.2	1421.7	1213.4	1238.8	1234.0	1220.7	1188.0	1163.8	1099.6	1100.8
57.5°	8712.0	4318.4	1349.1	1169.8	1213.4	1160.1	1155.3	1127.4	1095.9	1052.4	1037.8
60°	9369.5	4382.6	1286.1	1152.9	1191.7	1111.7	1087.5	1076.6	1045.1	1023.3	1029.3
62.5°	10086.4	4440.7	1221.9	1155.3	1166.2	1064.5	1028.2	1024.5	1005.1	997.8	997.8
65°	10575.6	4282.1	1142.0	1152.9	1126.3	1016.1	970.1	968.8	953.0	950.7	949.5
67.5°	10405.0	3779.6	1034.2	1119.0	1085.1	967.6	916.8	911.8	891.3	892.5	892.5
70°	9549.9	3062.6	885.3	1035.5	1034.2	924.0	861.0	845.3	817.4	822.3	827.1
72.5°	7946.6	2269.5	685.4	896.2	953.0	884.1	796.8	771.4	736.3	741.2	739.9
75°	5739.0	1542.8	499.0	681.8	829.5	836.8	733.9	690.2	647.9	655.2	657.5
77.5°	2936.7	874.3	367.0	469.9	651.5	760.6	676.9	618.8	609.2	676.9	667.3
80°	957.9	438.4	254.3	329.4	427.5	622.5	593.4	526.7	524.4	540.1	463.8
82.5°	285.8	185.3	163.5	216.8	236.2	477.1	512.3	398.4	342.8	360.9	373.0
85°	98.1	89.6	93.3	107.8	112.6	279.7	358.4	264.0	249.5	274.9	271.2
87.5°	23.0	31.5	26.6	24.2	24.2	67.9	139.3	110.2	152.6	101.7	98.1
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)