

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: P965003

Luminaire Tested: **NAV-SB3D-722-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965003  
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-SB3D-722-U-T2R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26332.2 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

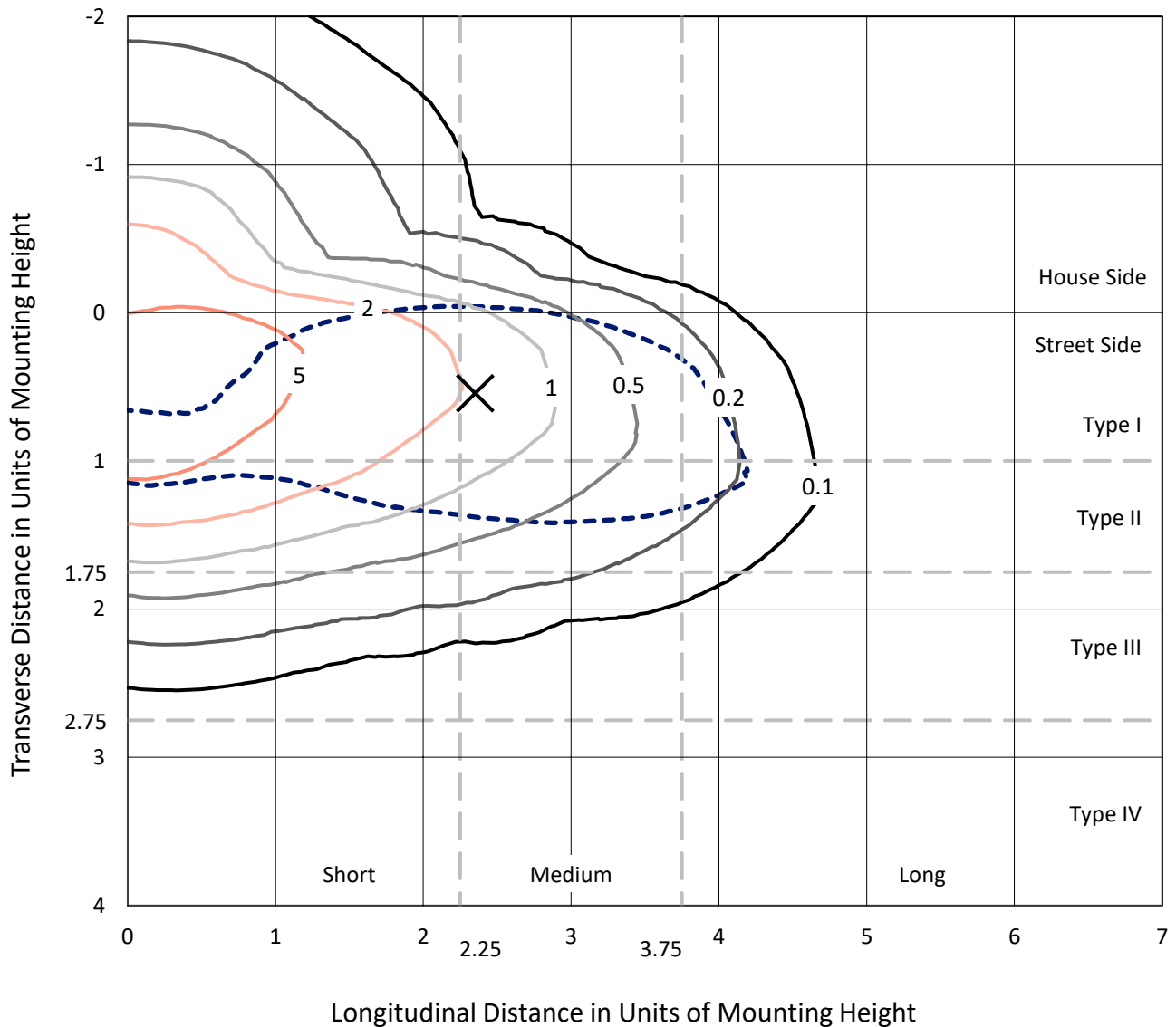
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

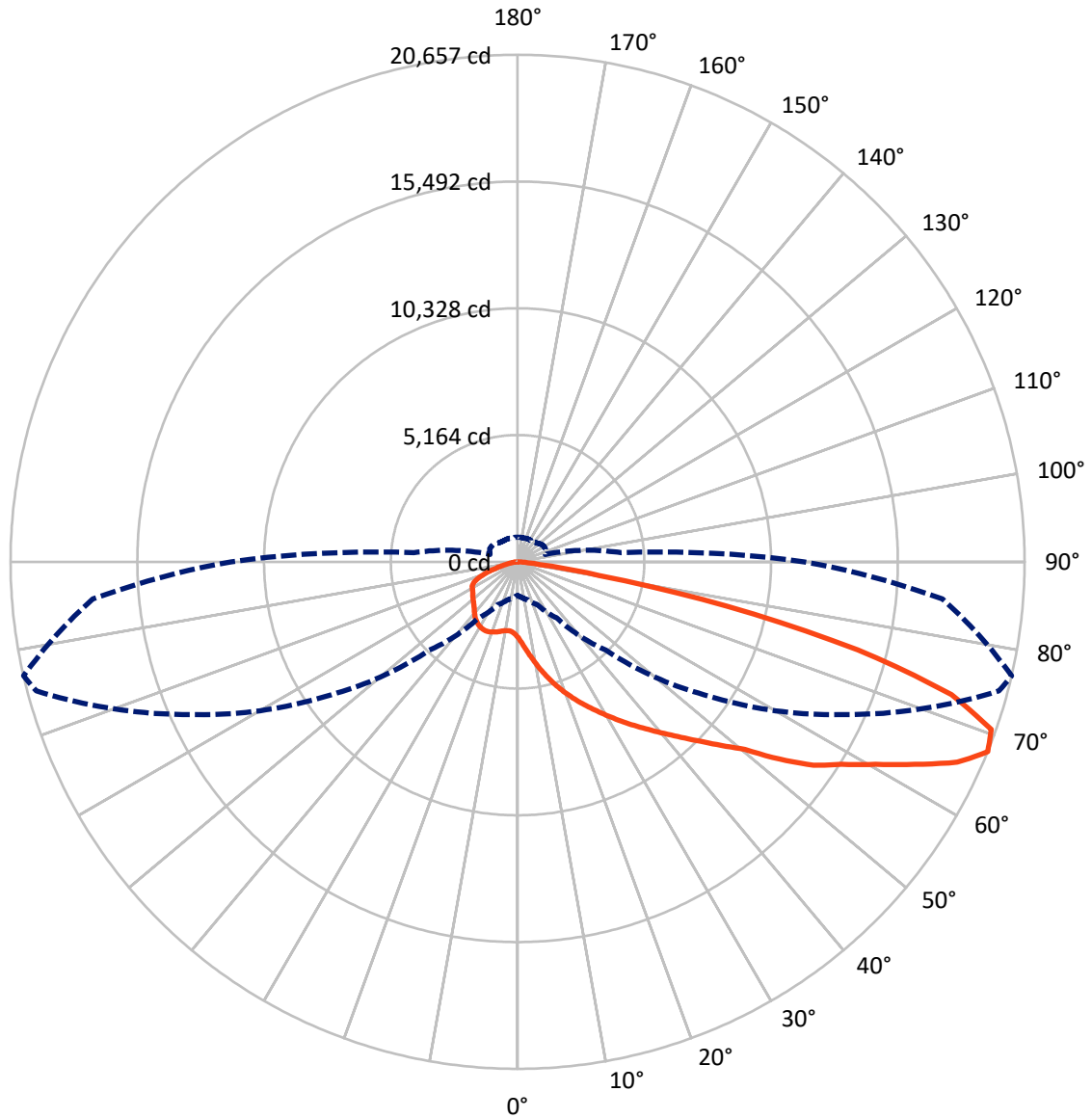
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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

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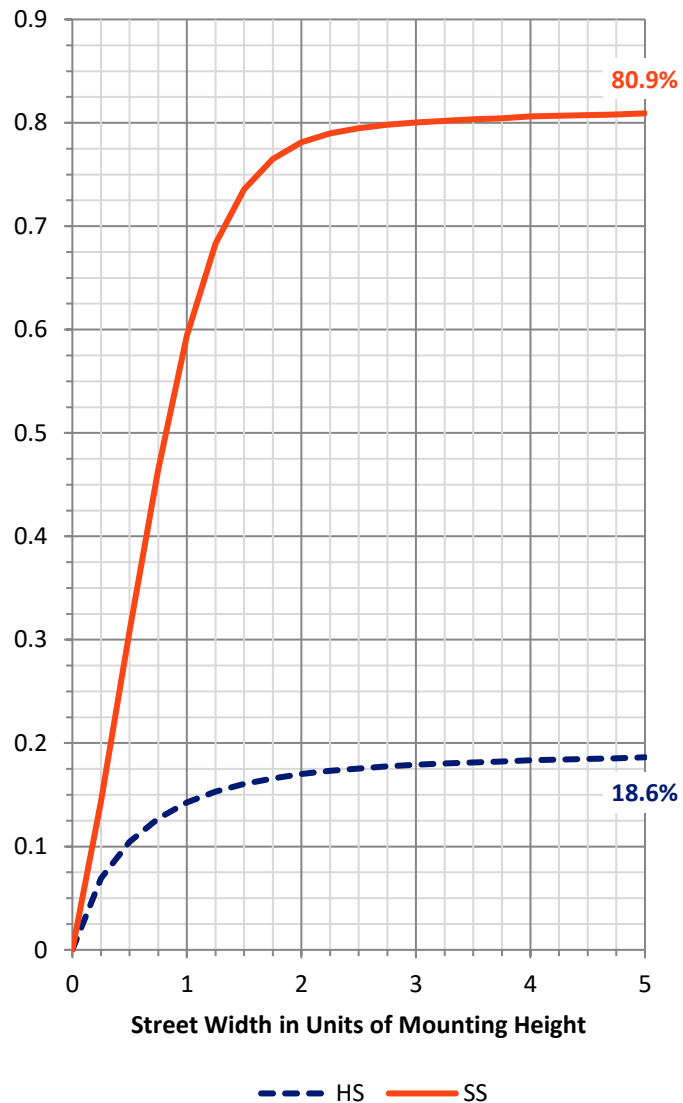
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4981.0	0.0	4981.0
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	21351.2	0.0	21351.2
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	26332.2	0.0	26332.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.2	1.3
10°-20°	1189.7	4.5
20°-30°	2246.3	8.5
30°-40°	3618.8	13.7
40°-50°	4949.9	18.8
50°-60°	5583.5	21.2
60°-70°	5211.5	19.8
70°-80°	2856.8	10.8
80°-90°	344.6	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°	26332.2	100.0
0°-180°	26332.2	100.0

**Coefficient of Utilization**

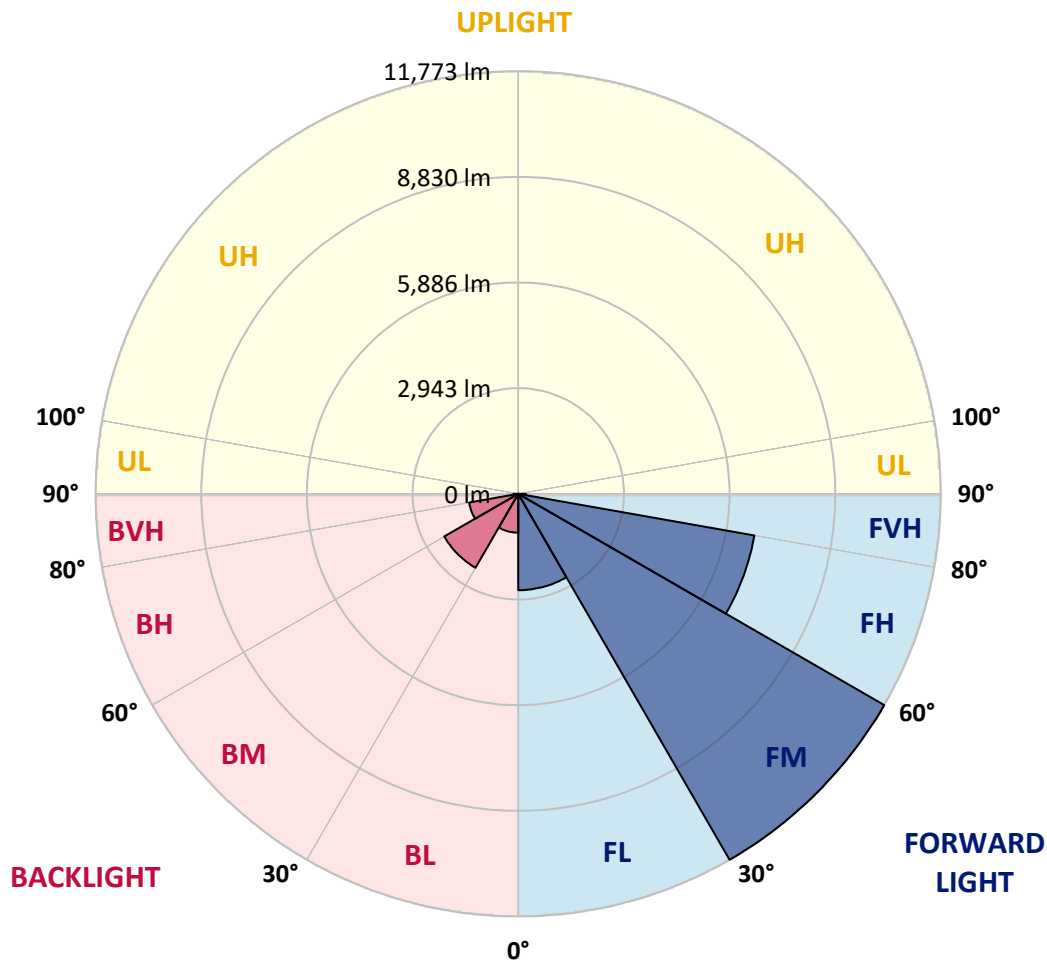


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2684.2	10.2			
FM (30°-60°)	11772.9	44.7			
FH (60°-80°)	6678.6	25.4			G3/7500
FVH (80°-90°)	215.5	0.8			G2/225
BL (0°-30°)	1083.0	4.1	B3/2500		
BM (30°-60°)	2379.3	9.0	B2/2500		
BH (60°-80°)	1389.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	129.1	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°	3089.6	3089.6	3089.6	3089.6	3089.6	3089.6	3089.6	3089.6	3089.6	3089.6	3089.6
2.5°	3868.5	3895.6	3861.7	3861.7	3747.5	3687.6	3573.5	3486.5	3330.2	3303.0	3199.6
5°	4572.5	4606.6	4559.0	4538.6	4404.0	4280.3	4088.6	3899.7	3621.0	3592.5	3349.2
7.5°	5117.6	5161.1	5119.0	5097.2	4977.6	4838.9	4614.7	4351.0	3958.1	3902.4	3550.4
10°	5562.1	5568.8	5555.3	5563.4	5469.6	5355.5	5125.7	4818.5	4327.9	4251.8	3793.7
12.5°	5813.5	5844.8	5872.0	5920.9	5904.6	5833.9	5627.4	5260.3	4719.3	4621.5	4058.7
15°	5931.8	5986.2	6047.3	6160.1	6251.3	6268.9	6111.3	5734.7	5117.6	4999.3	4326.5
17.5°	5973.9	6025.6	6122.1	6285.2	6481.0	6612.8	6542.1	6195.5	5511.8	5375.8	4607.9
20°	6187.3	6202.3	6260.7	6415.7	6627.8	6846.6	6899.6	6638.6	5901.8	5748.3	4898.8
22.5°	6644.0	6614.1	6630.4	6701.1	6853.4	7065.4	7186.4	7030.1	6302.8	6126.2	5192.3
25°	7398.4	7311.4	7224.4	7142.9	7220.4	7340.0	7477.3	7421.5	6722.9	6498.6	5488.7
27.5°	8351.3	8245.2	8053.6	7785.8	7692.0	7734.1	7795.3	7784.5	7111.7	6884.6	5794.5
30°	9289.2	9165.4	8937.1	8549.7	8302.3	8190.9	8144.6	8113.4	7534.4	7292.4	6103.1
32.5°	10038.1	9940.2	9716.0	9282.4	8923.5	8733.2	8579.7	8468.1	7976.1	7734.1	6429.3
35°	10693.3	10602.2	10345.3	9872.3	9482.2	9279.6	9078.5	8840.6	8435.5	8190.9	6780.0
37.5°	11291.3	11200.3	10848.2	10356.2	9963.3	9823.4	9643.9	9240.3	8896.4	8665.2	7151.0
40°	11669.2	11648.8	11319.9	10762.6	10354.9	10285.5	10225.7	9703.8	9407.4	9192.6	7558.9
42.5°	11765.8	11810.6	11549.6	11091.5	10702.7	10647.1	10787.1	10228.4	9981.0	9775.7	8020.9
45°	11533.3	11662.4	11491.2	11179.9	10950.2	10920.2	11284.5	10802.1	10615.8	10428.2	8578.2
47.5°	10944.7	11163.6	11092.9	11049.4	11016.8	11146.0	11722.2	11410.9	11334.9	11171.8	9214.4
50°	9756.8	10171.3	10295.0	10569.6	10884.9	11321.2	12120.5	12075.6	12174.8	12010.4	9989.1
52.5°	7702.9	8273.8	8991.5	9679.3	10479.9	11262.8	12558.2	13029.8	13448.5	13358.8	11220.7
55°	6358.6	6615.5	7167.3	8428.8	9694.2	11016.8	12755.3	13800.5	14712.6	14632.4	12154.4
57.5°	5325.6	5555.3	5895.1	6948.5	8506.3	10458.1	12877.6	14270.9	15578.5	15570.3	13076.0
60°	4217.8	4461.1	4809.1	5555.3	7118.4	9493.0	12850.4	14806.4	16683.5	16751.5	14200.1
62.5°	2967.3	3235.0	3621.0	4317.0	5700.7	8242.5	12295.8	15193.8	17984.3	18169.1	15552.6
65°	1950.6	2127.3	2418.1	3018.9	4247.7	6634.5	11237.0	15244.1	19376.2	19688.8	16822.2
67.5°	1367.5	1435.4	1606.7	1932.8	2800.1	5087.7	9550.1	14723.5	20304.5	20656.6	17372.6
70°	1067.0	1101.0	1188.0	1318.5	1758.9	3421.2	7318.2	13369.7	20106.1	20473.1	16797.7
72.5°	921.6	954.2	986.9	1003.2	1179.9	2112.3	4957.2	11178.5	18237.1	18485.9	14605.2
75°	836.0	844.1	871.2	865.8	899.8	1370.1	2861.2	8144.6	14389.1	14303.5	10781.7
77.5°	702.7	713.6	758.5	751.6	799.2	936.5	1485.6	5256.2	9328.6	8746.8	6001.2
80°	595.3	600.8	649.7	641.5	694.5	678.2	758.5	2679.1	3956.8	3352.0	1730.3
82.5°	206.6	255.5	496.1	511.1	530.1	410.5	437.7	1092.9	1208.4	925.7	363.0
85°	100.6	107.4	252.9	358.9	357.5	206.6	213.4	390.1	380.6	299.0	121.0
87.5°	16.3	20.4	29.9	140.0	111.4	54.3	73.4	76.2	78.8	68.0	27.2
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°	3089.6	3089.6	3089.6	3089.6	3089.6	3089.6	3089.6	3089.6	3089.6	3089.6	3089.6
2.5°	3123.6	3055.6	2912.8	2781.0	2677.7	2578.5	2522.7	2475.2	2448.0	2442.6	2442.6
5°	3207.8	3067.8	2808.2	2589.4	2446.7	2340.7	2284.9	2249.6	2231.9	2221.1	2219.6
7.5°	3328.8	3123.6	2753.9	2505.1	2355.6	2279.5	2250.9	2245.5	2244.1	2245.5	2249.6
10°	3496.0	3214.6	2748.4	2484.7	2359.7	2317.5	2316.2	2317.5	2323.0	2324.3	2325.7
12.5°	3676.8	3308.4	2770.2	2502.4	2411.3	2388.2	2384.1	2382.8	2386.8	2389.6	2390.9
15°	3873.9	3432.1	2806.9	2540.5	2468.4	2443.9	2439.9	2431.7	2430.4	2428.9	2427.6
17.5°	4076.4	3554.5	2847.7	2581.3	2505.1	2471.2	2456.2	2437.1	2422.2	2418.1	2422.2
20°	4281.6	3675.4	2876.1	2601.7	2507.9	2460.2	2430.4	2397.7	2372.0	2357.0	2362.4
22.5°	4500.5	3801.8	2893.9	2596.2	2483.4	2418.1	2363.8	2325.7	2286.3	2260.4	2261.8
25°	4713.9	3911.9	2892.4	2567.6	2435.8	2352.9	2283.6	2234.6	2180.3	2153.0	2153.0
27.5°	4919.2	4011.1	2858.5	2517.3	2367.9	2275.4	2192.5	2134.0	2081.1	2055.2	2053.8
30°	5131.2	4094.1	2805.5	2443.9	2287.6	2185.7	2094.6	2044.4	1996.7	1972.3	1971.0
32.5°	5341.9	4170.2	2730.7	2352.9	2195.2	2097.4	2007.7	1961.4	1932.8	1932.8	1934.2
35°	5564.8	4223.2	2631.5	2246.9	2097.4	2003.6	1932.8	1905.7	1902.9	1886.6	1882.6
37.5°	5800.0	4257.2	2510.5	2138.1	2000.8	1912.4	1890.7	1858.1	1831.0	1795.6	1790.2
40°	6047.3	4291.2	2365.1	2025.3	1898.9	1849.9	1840.4	1796.9	1719.4	1632.5	1620.2
42.5°	6347.7	4314.3	2214.2	1912.4	1791.5	1775.2	1788.8	1714.0	1590.3	1525.1	1526.4
45°	6695.7	4352.4	2075.6	1801.0	1681.4	1681.4	1738.5	1640.6	1538.7	1497.9	1504.7
47.5°	7147.0	4440.7	1946.5	1678.6	1579.4	1606.7	1627.0	1552.3	1495.2	1444.8	1443.5
50°	7799.4	4652.8	1813.2	1555.0	1501.9	1556.4	1527.8	1484.3	1417.7	1376.9	1372.9
52.5°	8609.5	4777.8	1695.0	1443.5	1435.4	1489.7	1448.9	1408.1	1357.9	1303.5	1292.6
55°	9161.3	4800.9	1595.7	1362.0	1390.5	1385.1	1370.1	1333.4	1306.3	1234.2	1235.5
57.5°	9778.5	4847.1	1514.2	1313.0	1362.0	1302.2	1296.7	1265.5	1230.1	1181.2	1164.9
60°	10516.6	4919.2	1443.5	1294.1	1337.5	1247.8	1220.6	1208.4	1173.0	1148.6	1155.4
62.5°	11321.2	4984.4	1371.4	1296.7	1308.9	1194.7	1154.0	1149.9	1128.2	1120.0	1120.0
65°	11870.4	4806.3	1281.8	1294.1	1264.1	1140.4	1088.8	1087.4	1069.7	1067.0	1065.7
67.5°	11678.7	4242.3	1160.8	1255.9	1217.9	1086.1	1029.0	1023.6	1000.4	1001.7	1001.7
70°	10719.1	3437.5	993.6	1162.1	1160.8	1037.1	966.5	948.7	917.5	922.9	928.3
72.5°	8919.4	2547.2	769.4	1005.8	1069.7	992.3	894.4	865.8	826.5	831.9	830.5
75°	6441.5	1731.7	560.1	765.3	931.1	939.2	823.7	774.8	727.2	735.3	738.1
77.5°	3296.2	981.3	411.8	527.4	731.2	853.6	759.8	694.5	683.7	759.8	749.0
80°	1075.1	492.0	285.5	369.7	479.8	698.6	666.0	591.3	588.6	606.2	520.6
82.5°	320.8	208.0	183.5	243.3	265.1	535.6	574.9	447.2	384.7	405.1	418.6
85°	110.1	100.6	104.7	121.0	126.4	314.0	402.3	296.3	280.0	308.5	304.4
87.5°	25.8	35.4	29.9	27.2	27.2	76.2	156.3	123.7	171.3	114.2	110.1
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)