

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: P970273

Luminaire Tested: **NAV-SB6B-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970273
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-SB6B-722-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29450.3 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

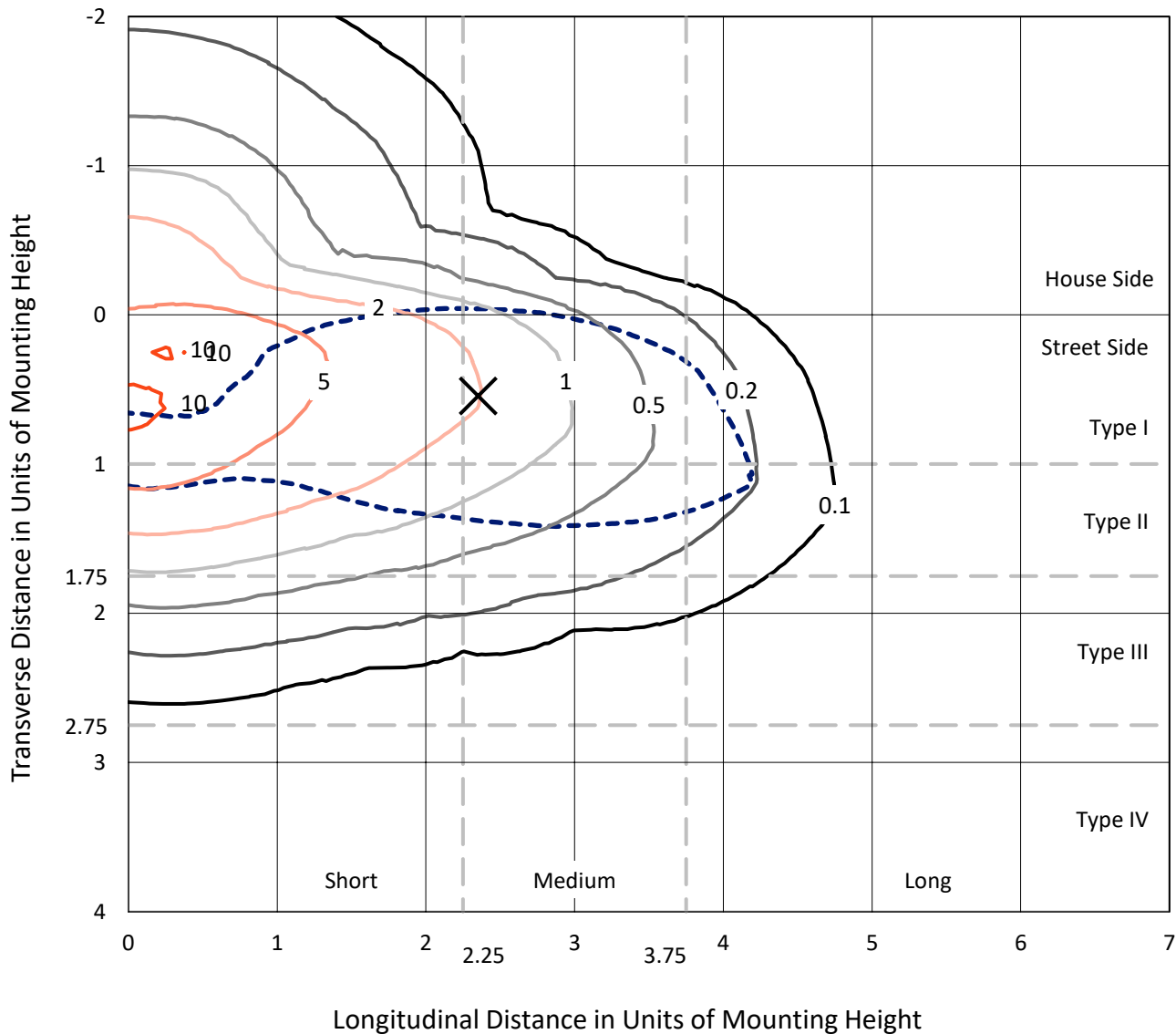
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

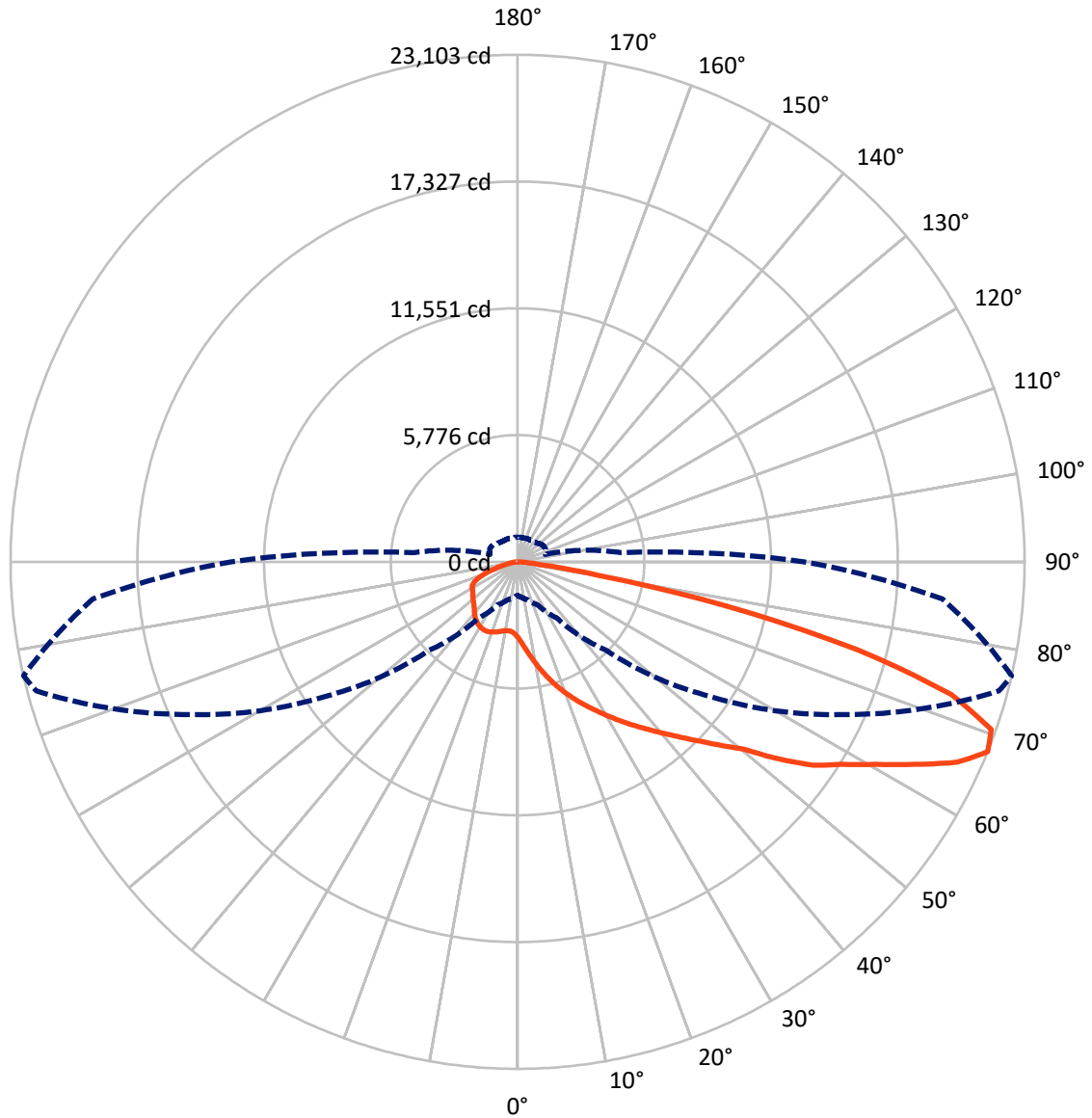
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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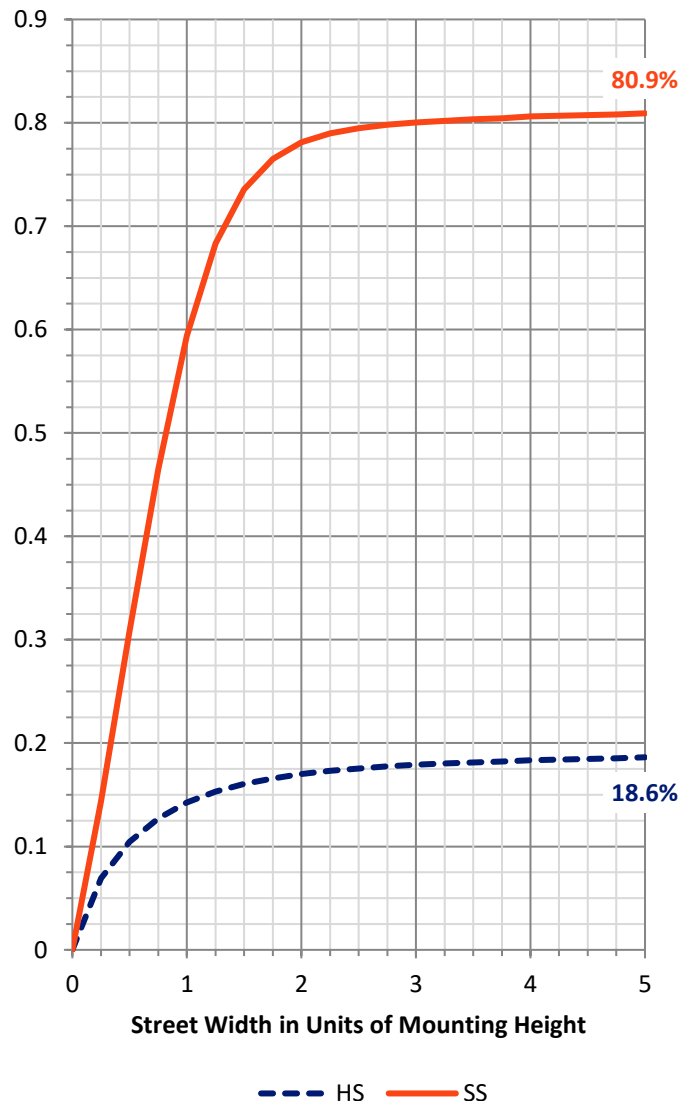
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5570.8	0.0	5570.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	23879.5	0.0	23879.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	29450.3	0.0	29450.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.4	1.3
10°-20°	1330.6	4.5
20°-30°	2512.3	8.5
30°-40°	4047.3	13.7
40°-50°	5536.0	18.8
50°-60°	6244.6	21.2
60°-70°	5828.6	19.8
70°-80°	3195.1	10.8
80°-90°	385.4	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°	29450.3	100.0
0°-180°	29450.3	100.0

Coefficient of Utilization

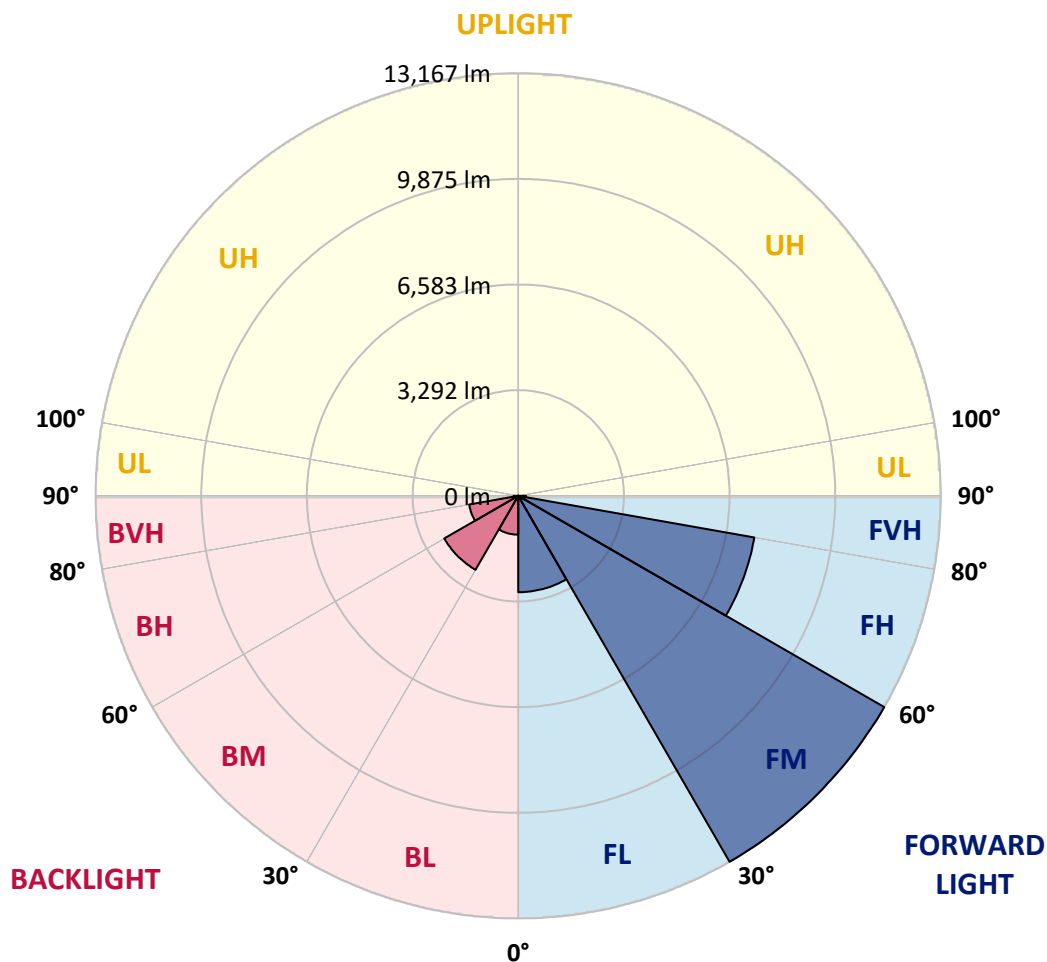


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3002.1	10.2			
FM (30°-60°)	13166.9	44.7			
FH (60°-80°)	7469.5	25.4			G3/7500
FVH (80°-90°)	241.0	0.8			G3/500
BL (0°-30°)	1211.2	4.1	B3/2500		
BM (30°-60°)	2661.0	9.0	B3/5000		
BH (60°-80°)	1554.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	144.4	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°	3455.5	3455.5	3455.5	3455.5	3455.5	3455.5	3455.5	3455.5	3455.5	3455.5	3455.5
2.5°	4326.5	4357.0	4318.9	4318.9	4191.2	4124.3	3996.7	3899.3	3724.5	3694.1	3578.6
5°	5114.0	5152.0	5098.8	5076.0	4925.4	4787.2	4572.8	4361.5	4049.9	4017.9	3745.8
7.5°	5723.6	5772.2	5725.1	5700.7	5567.0	5411.9	5161.1	4866.2	4426.9	4364.6	3970.7
10°	6220.7	6228.3	6213.1	6222.3	6117.3	5989.6	5732.7	5389.1	4840.4	4755.2	4242.9
12.5°	6502.0	6536.9	6567.3	6622.0	6603.8	6524.7	6293.7	5883.2	5278.1	5168.7	4539.3
15°	6634.2	6695.0	6763.4	6889.5	6991.4	7011.2	6834.9	6413.7	5723.6	5591.4	4838.8
17.5°	6681.4	6739.1	6847.0	7029.4	7248.4	7395.8	7316.8	6929.1	6164.5	6012.4	5153.5
20°	6920.0	6936.7	7002.1	7175.4	7412.5	7657.3	7716.6	7424.7	6600.8	6429.0	5478.8
22.5°	7430.7	7397.3	7415.6	7494.6	7664.8	7902.0	8037.3	7862.6	7049.2	6851.6	5807.2
25°	8274.5	8177.2	8079.9	7988.7	8075.4	8209.1	8362.7	8300.3	7519.0	7268.1	6138.6
27.5°	9340.2	9221.6	9007.2	8707.8	8602.8	8650.0	8718.4	8706.2	7953.7	7699.9	6480.7
30°	10389.1	10250.8	9995.4	9562.1	9285.5	9160.7	9109.1	9074.1	8426.5	8155.9	6825.8
32.5°	11226.7	11117.3	10866.4	10381.5	9980.2	9767.3	9595.5	9470.9	8920.6	8650.0	7190.6
35°	11959.5	11857.6	11570.3	11041.3	10605.0	10378.4	10153.4	9887.5	9434.4	9160.7	7582.8
37.5°	12628.4	12526.5	12132.8	11582.5	11143.1	10986.6	10785.9	10334.4	9949.8	9691.4	7997.9
40°	13051.0	13028.2	12660.3	12037.0	11581.0	11503.5	11436.5	10852.8	10521.3	10281.2	8453.9
42.5°	13159.0	13209.1	12917.3	12404.9	11970.2	11907.8	12064.4	11439.6	11162.9	10933.4	8970.8
45°	12899.0	13043.4	12851.9	12503.8	12246.8	12213.4	12620.8	12081.1	11872.9	11663.1	9594.0
47.5°	12240.8	12485.5	12406.4	12357.8	12321.3	12465.7	13110.3	12762.2	12677.0	12494.6	10305.5
50°	10912.0	11375.8	11514.0	11821.1	12173.8	12661.8	13555.7	13505.5	13616.5	13432.5	11172.0
52.5°	8615.0	9253.5	10056.2	10825.4	11720.8	12596.4	14045.2	14572.7	15041.0	14940.6	12549.3
55°	7111.6	7398.9	8016.0	9426.8	10842.1	12321.3	14265.6	15434.7	16454.7	16365.0	13593.8
57.5°	5956.2	6213.1	6593.1	7771.3	9513.4	11696.5	14402.5	15960.7	17423.2	17414.0	14624.4
60°	4717.3	4989.3	5378.5	6213.1	7961.4	10617.2	14372.0	16559.6	18659.0	18735.1	15881.7
62.5°	3318.6	3618.1	4049.9	4828.2	6375.8	9218.5	13751.8	16992.9	20113.9	20320.6	17394.2
65°	2181.5	2379.1	2704.5	3376.4	4750.7	7420.2	12567.5	17049.1	21670.6	22020.2	18814.1
67.5°	1529.3	1605.4	1796.9	2161.7	3131.6	5690.2	10681.0	16466.9	22708.9	23102.6	19429.8
70°	1193.4	1231.3	1328.7	1474.6	1967.2	3826.3	8184.8	14952.8	22487.0	22897.4	18786.7
72.5°	1030.7	1067.2	1103.7	1122.0	1319.6	2362.4	5544.2	12502.2	20396.7	20674.9	16334.6
75°	934.9	944.0	974.5	968.4	1006.3	1532.4	3200.0	9109.1	16092.9	15997.2	12058.3
77.5°	786.0	798.1	848.3	840.7	893.9	1047.4	1661.6	5878.7	10433.2	9782.5	6711.7
80°	665.8	671.9	726.6	717.5	776.8	758.6	848.3	2996.4	4425.3	3748.8	1935.2
82.5°	231.0	285.8	554.8	571.6	592.9	459.1	489.5	1222.2	1351.5	1035.2	405.9
85°	112.5	120.1	282.8	401.3	399.9	231.0	238.7	436.3	425.7	334.5	135.3
87.5°	18.2	22.8	33.4	156.6	124.6	60.8	82.1	85.2	88.1	76.1	30.4
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°	3455.5	3455.5	3455.5	3455.5	3455.5	3455.5	3455.5	3455.5	3455.5	3455.5	3455.5
2.5°	3493.4	3417.5	3257.8	3110.4	2994.8	2883.8	2821.5	2768.3	2737.9	2731.8	2731.8
5°	3587.7	3431.1	3140.7	2896.0	2736.3	2617.8	2555.4	2516.0	2496.2	2484.0	2482.5
7.5°	3723.0	3493.4	3079.9	2801.7	2634.6	2549.4	2517.5	2511.4	2509.8	2511.4	2516.0
10°	3910.0	3595.3	3073.9	2779.0	2639.1	2591.9	2590.5	2591.9	2598.1	2599.6	2601.0
12.5°	4112.2	3700.1	3098.2	2798.7	2696.9	2671.0	2666.4	2664.9	2669.5	2672.5	2674.0
15°	4332.6	3838.5	3139.3	2841.3	2760.7	2733.4	2728.8	2719.6	2718.1	2716.7	2715.1
17.5°	4559.1	3975.4	3184.9	2886.9	2801.7	2763.7	2747.0	2725.8	2709.0	2704.5	2709.0
20°	4788.7	4110.7	3216.8	2909.7	2804.8	2751.6	2718.1	2681.6	2652.8	2636.0	2642.1
22.5°	5033.4	4252.0	3236.5	2903.6	2777.4	2704.5	2643.7	2601.0	2557.0	2528.1	2529.6
25°	5272.1	4375.2	3235.0	2871.6	2724.2	2631.5	2554.0	2499.3	2438.4	2408.0	2408.0
27.5°	5501.7	4486.1	3197.0	2815.5	2648.2	2544.9	2452.1	2386.7	2327.5	2298.6	2297.0
30°	5738.8	4578.9	3137.7	2733.4	2558.5	2444.5	2342.6	2286.4	2233.2	2205.8	2204.3
32.5°	5974.4	4664.0	3054.1	2631.5	2455.2	2345.7	2245.4	2193.7	2161.7	2161.7	2163.3
35°	6223.7	4723.3	2943.1	2512.9	2345.7	2240.8	2161.7	2131.3	2128.3	2110.1	2105.5
37.5°	6486.7	4761.3	2807.8	2391.3	2237.8	2139.0	2114.6	2078.1	2047.7	2008.2	2002.1
40°	6763.4	4799.3	2645.1	2265.1	2123.7	2069.0	2058.4	2009.7	1923.1	1825.7	1812.1
42.5°	7099.4	4825.2	2476.4	2139.0	2003.7	1985.4	2000.6	1917.0	1778.7	1705.7	1707.2
45°	7488.5	4867.7	2321.3	2014.2	1880.5	1880.5	1944.3	1834.9	1720.9	1675.3	1682.8
47.5°	7993.3	4966.5	2176.9	1877.5	1766.5	1796.9	1819.7	1736.0	1672.2	1616.0	1614.5
50°	8723.0	5203.7	2028.0	1739.1	1679.9	1740.7	1708.7	1660.1	1585.6	1540.0	1535.4
52.5°	9629.1	5343.5	1895.7	1614.5	1605.4	1666.1	1620.5	1574.9	1518.6	1457.9	1445.8
55°	10246.2	5369.4	1784.7	1523.3	1555.1	1549.1	1532.4	1491.4	1460.9	1380.4	1381.9
57.5°	10936.3	5421.0	1693.5	1468.5	1523.3	1456.3	1450.3	1415.3	1375.8	1321.0	1302.8
60°	11761.9	5501.7	1614.5	1447.2	1495.9	1395.5	1365.2	1351.5	1311.9	1284.5	1292.2
62.5°	12661.8	5574.6	1533.9	1450.3	1464.0	1336.3	1290.7	1286.1	1261.8	1252.7	1252.7
65°	13276.0	5375.5	1433.6	1447.2	1413.8	1275.4	1217.7	1216.2	1196.4	1193.4	1191.9
67.5°	13061.7	4744.6	1298.3	1404.7	1362.1	1214.6	1150.8	1144.7	1118.9	1120.4	1120.4
70°	11988.4	3844.6	1111.3	1299.8	1298.3	1159.9	1080.9	1061.1	1026.1	1032.2	1038.3
72.5°	9975.6	2848.9	860.5	1124.9	1196.4	1109.8	1000.3	968.4	924.2	930.4	928.9
75°	7204.3	1936.7	626.3	855.9	1041.3	1050.4	921.3	866.5	813.3	822.5	825.4
77.5°	3686.5	1097.6	460.6	589.9	817.8	954.7	849.8	776.8	764.6	849.8	837.6
80°	1202.5	550.3	319.3	413.5	536.6	781.4	744.9	661.3	658.3	678.0	582.2
82.5°	358.7	232.6	205.2	272.1	296.4	599.0	643.1	500.2	430.2	453.0	468.2
85°	123.1	112.5	117.1	135.3	141.3	351.2	450.0	331.4	313.1	345.1	340.5
87.5°	28.9	39.6	33.4	30.4	30.4	85.2	174.9	138.4	191.6	127.7	123.1
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)