

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: P964017

Luminaire Tested: **NAV-SB3B-730-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964017  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3B-730-U-T3R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17778.7 lumens  
Efficiency: N/A  
Efficacy: 162.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

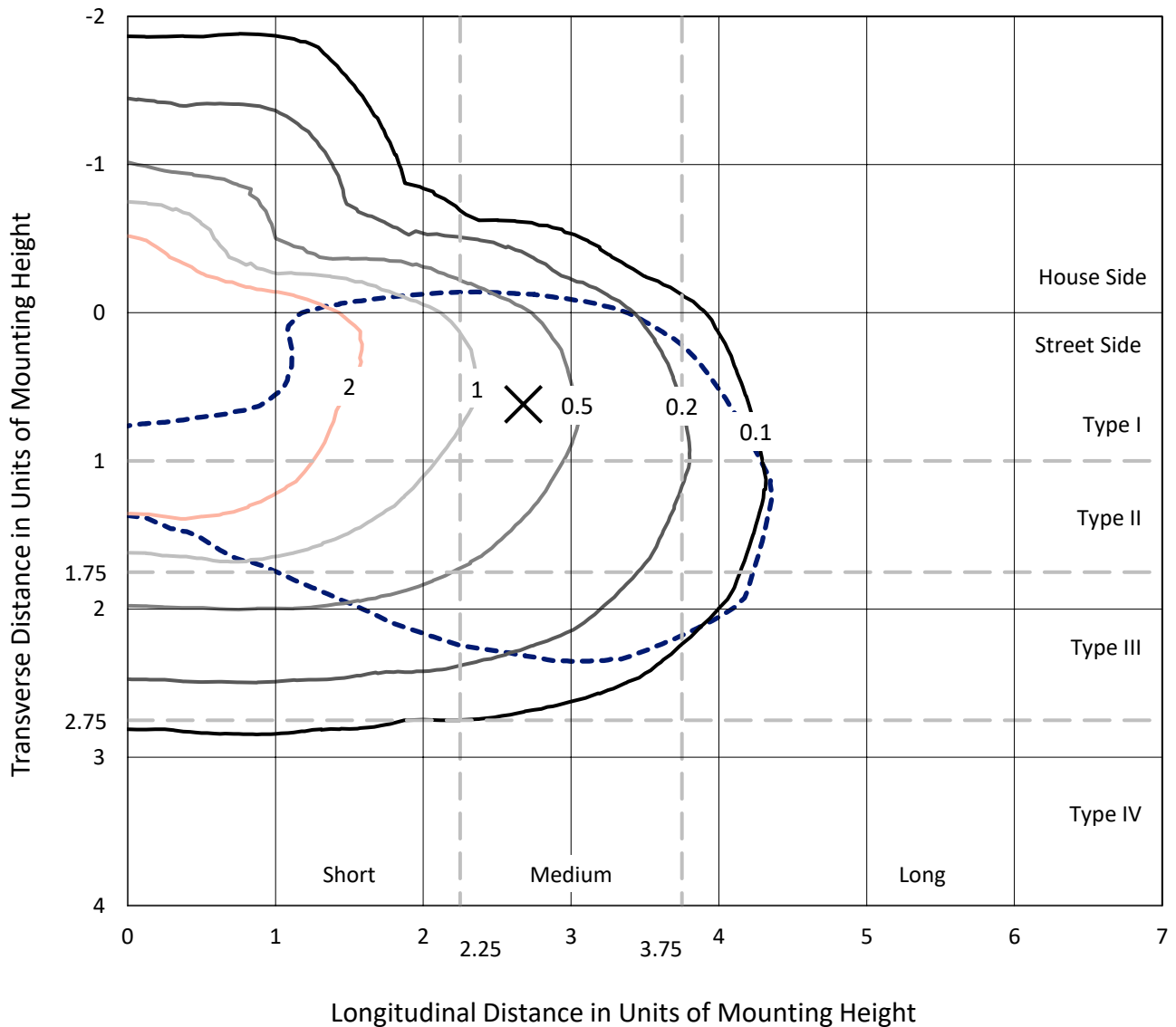
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

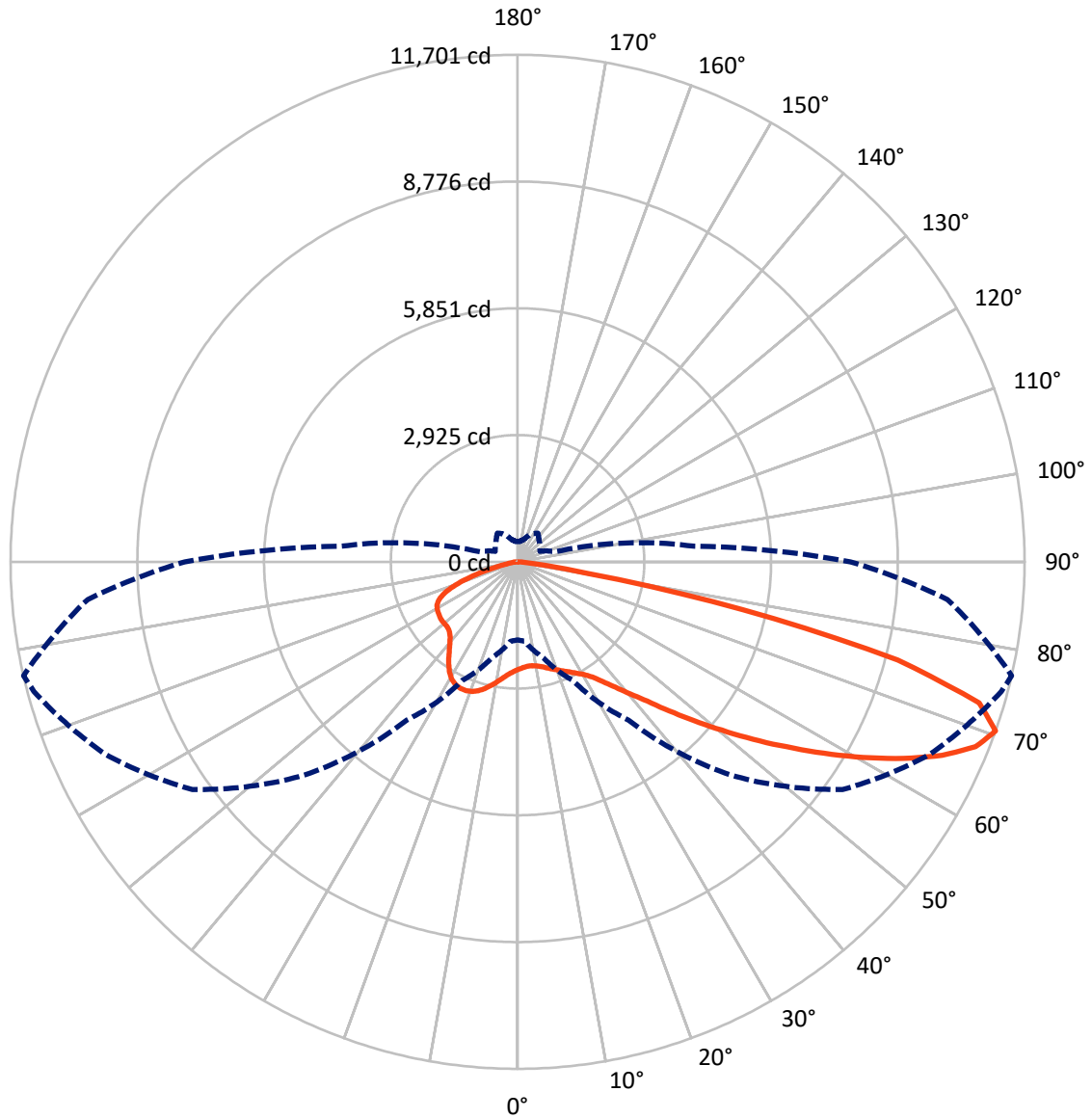
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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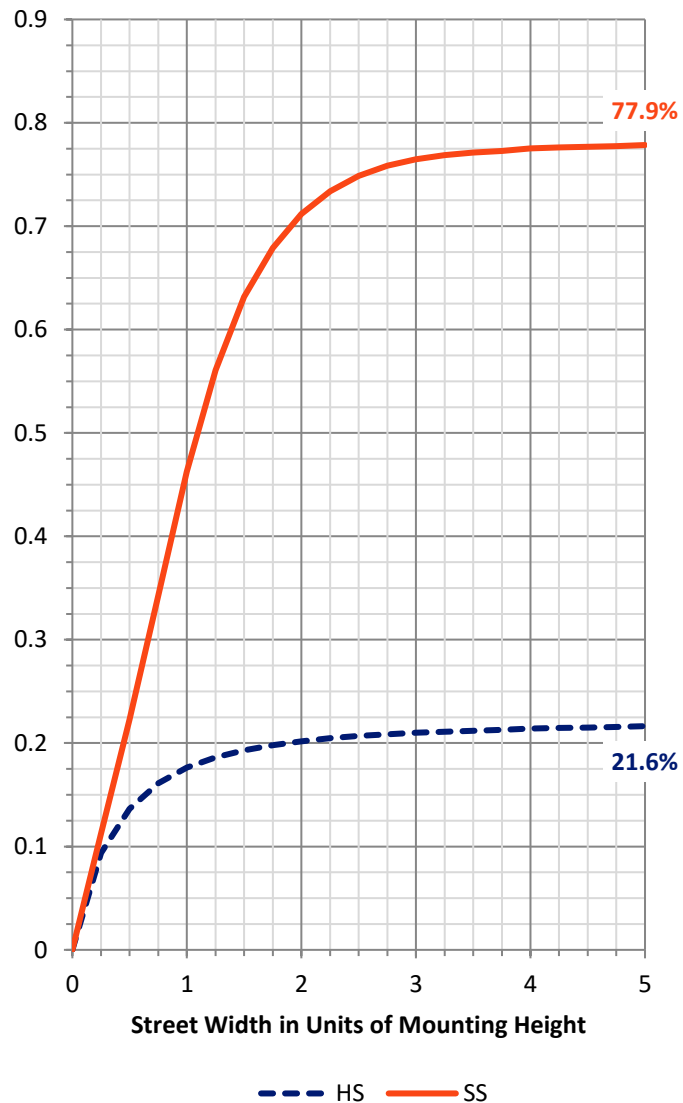
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3893.3	0.0	3893.3
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	13885.4	0.0	13885.4
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	17778.7	0.0	17778.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.6	1.3
10°-20°	682.7	3.8
20°-30°	1167.5	6.6
30°-40°	1877.5	10.6
40°-50°	2931.3	16.5
50°-60°	3915.5	22.0
60°-70°	4173.3	23.5
70°-80°	2569.1	14.5
80°-90°	225.1	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°	17778.7	100.0
0°-180°	17778.7	100.0

**Coefficient of Utilization**

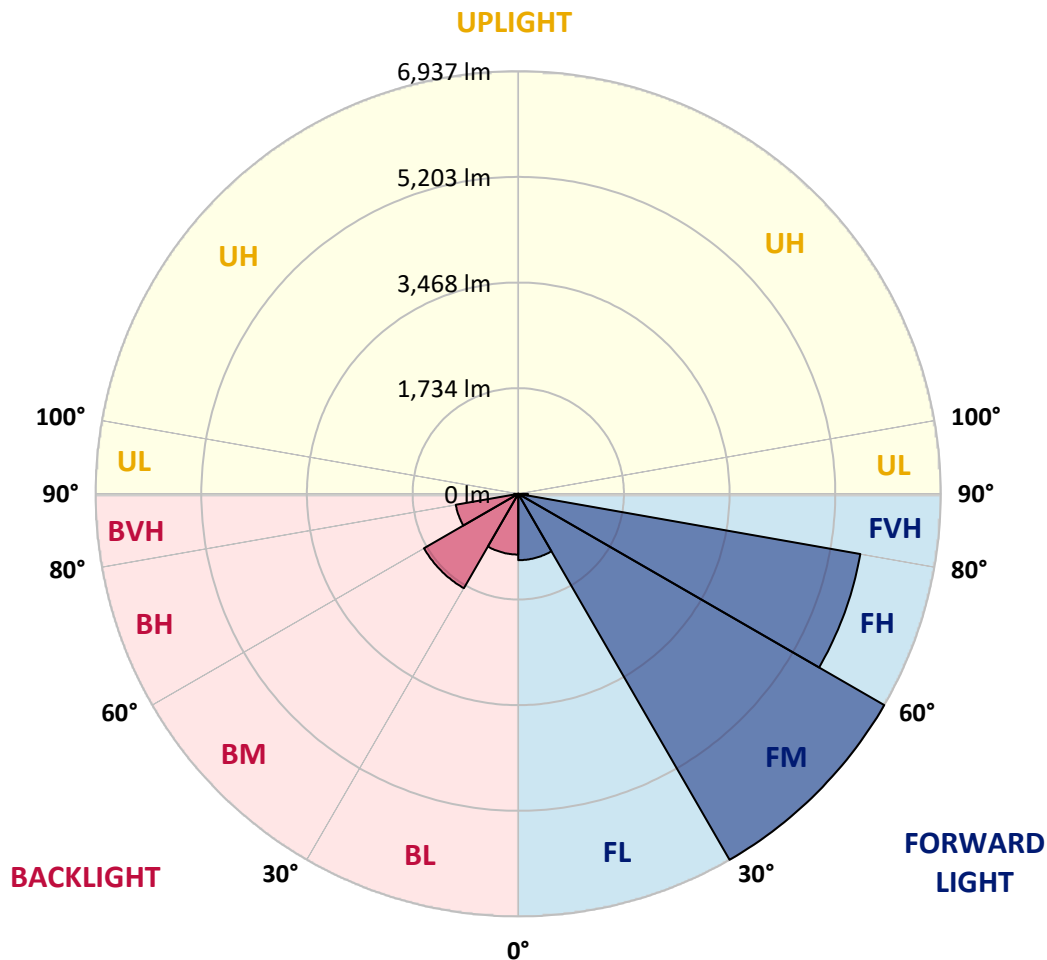


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1089.2	6.1			
FM (30°-60°)	6936.8	39.0			
FH (60°-80°)	5701.9	32.1			G3/7500
FVH (80°-90°)	157.4	0.9			G2/225
BL (0°-30°)	997.6	5.6	B2/1000		
BM (30°-60°)	1787.5	10.1	B2/2500		
BH (60°-80°)	1040.5	5.9	B3/2500		G3/2500
BVH (80°-90°)	67.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2480.3	2480.3	2480.3	2480.3	2480.3	2480.3	2480.3	2480.3	2480.3	2480.3	2480.3
2.5°	2286.4	2285.4	2297.2	2300.9	2322.8	2338.2	2367.3	2398.3	2438.4	2443.0	2467.5
5°	2154.3	2154.3	2168.0	2182.5	2210.7	2241.7	2286.4	2340.1	2409.3	2420.2	2481.2
7.5°	2042.3	2049.6	2061.5	2089.7	2122.5	2167.1	2235.3	2311.8	2402.9	2420.2	2518.5
10°	1952.2	1960.4	1975.0	1997.7	2046.8	2108.8	2198.0	2296.3	2418.4	2445.6	2573.2
12.5°	1923.9	1932.1	1940.3	1957.6	2003.2	2076.0	2182.5	2303.7	2455.7	2483.1	2647.8
15°	1989.5	1999.6	1993.1	1988.6	2012.3	2078.7	2189.8	2330.0	2502.1	2541.3	2739.8
17.5°	2140.6	2144.3	2129.7	2086.9	2083.3	2118.8	2224.5	2366.4	2560.4	2603.2	2832.7
20°	2384.7	2378.3	2348.3	2263.6	2215.3	2208.1	2283.6	2421.0	2620.5	2666.0	2932.8
22.5°	2716.1	2708.9	2648.7	2514.8	2407.4	2336.4	2369.2	2492.1	2687.9	2738.9	3030.2
25°	3129.5	3119.5	3031.1	2849.1	2682.4	2506.6	2485.7	2585.9	2770.8	2818.1	3132.2
27.5°	3612.1	3603.9	3508.3	3267.9	3027.5	2739.8	2630.6	2696.1	2857.3	2911.0	3247.0
30°	4131.1	4154.7	3985.4	3726.8	3422.7	3043.9	2825.4	2831.8	2969.2	3017.5	3386.3
32.5°	4741.1	4782.1	4578.2	4250.4	3835.1	3374.4	3071.2	3021.1	3132.2	3172.3	3562.0
35°	5345.7	5392.1	5222.8	4860.4	4382.4	3764.1	3328.0	3238.8	3348.9	3392.6	3795.1
37.5°	5868.3	5930.2	5842.9	5527.8	4967.9	4234.0	3663.0	3494.6	3615.7	3670.3	4108.3
40°	6280.8	6375.5	6369.1	6172.4	5658.0	4804.0	4088.3	3810.5	3947.2	4006.3	4488.0
42.5°	6615.9	6697.9	6768.9	6758.8	6378.3	5451.4	4588.1	4221.3	4325.0	4393.3	4915.1
45°	6847.2	6934.6	7087.6	7252.4	7071.2	6144.3	5160.9	4708.3	4803.0	4906.0	5424.0
47.5°	7053.8	7153.1	7351.6	7612.9	7659.4	6839.9	5788.3	5275.6	5362.1	5468.7	5934.9
50°	7072.1	7157.7	7465.4	7836.0	8077.3	7508.2	6462.0	5912.1	5993.1	6107.0	6482.1
52.5°	6632.3	6767.0	7304.3	7829.7	8269.4	8067.3	7131.2	6574.0	6665.1	6801.7	7048.4
55°	5148.2	5345.7	6831.7	7585.6	8201.1	8428.8	7767.8	7277.8	7394.5	7537.3	7618.4
57.5°	4434.3	4520.8	5423.1	7141.3	7889.7	8522.6	8305.0	7989.0	8176.5	8333.1	8221.1
60°	3985.4	4057.4	4590.9	6450.2	7480.0	8374.1	8720.1	8651.8	8976.0	9162.7	8837.6
62.5°	3504.6	3572.9	4058.2	5385.8	6955.5	8127.4	8982.4	9263.7	9795.5	9999.4	9418.5
65°	3027.5	3085.8	3551.1	4525.4	6289.0	7880.6	9118.0	9792.7	10553.9	10765.2	9901.1
67.5°	2495.8	2544.0	2983.8	3817.8	5478.6	7542.8	9185.4	10208.9	11214.1	11395.2	10139.6
70°	1801.0	1838.3	2292.7	3019.3	4461.6	6961.9	9158.1	10503.9	11556.5	11701.2	9959.4
72.5°	851.4	885.0	1418.6	1960.4	3151.4	5831.0	8605.4	10269.9	11208.6	11136.7	8855.8
75°	454.4	483.5	814.9	1075.3	1664.5	3997.2	7042.1	8846.7	9412.2	9062.5	6544.8
77.5°	307.8	330.6	504.4	645.5	760.2	1897.6	4526.2	6125.1	5892.9	5315.6	3278.0
80°	244.1	267.7	413.4	437.1	367.9	685.6	1870.2	2835.4	2036.9	1628.9	932.3
82.5°	187.6	214.0	347.8	316.8	200.3	281.4	544.5	896.9	521.7	397.0	225.8
85°	114.7	143.0	273.2	202.1	113.0	128.4	184.8	249.5	159.4	132.9	81.1
87.5°	58.3	81.9	138.4	73.8	50.9	30.0	49.2	49.2	41.9	36.4	20.9
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°	2480.3	2480.3	2480.3	2480.3	2480.3	2480.3	2480.3	2480.3	2480.3	2480.3	2480.3
2.5°	2489.4	2507.6	2538.5	2567.7	2590.5	2612.3	2634.1	2646.0	2649.6	2664.2	2672.4
5°	2518.5	2552.2	2612.3	2668.8	2704.3	2726.1	2741.6	2750.7	2752.5	2757.0	2764.3
7.5°	2572.2	2625.9	2709.7	2766.2	2792.6	2790.8	2784.4	2761.7	2752.5	2744.3	2746.2
10°	2647.8	2718.8	2821.7	2860.9	2844.5	2800.8	2744.3	2677.9	2646.9	2616.8	2607.8
12.5°	2741.6	2831.8	2932.8	2931.0	2849.9	2738.0	2606.9	2504.9	2440.2	2393.8	2382.8
15°	2855.4	2959.2	3036.6	2974.7	2797.1	2595.9	2403.8	2270.9	2212.6	2161.6	2156.1
17.5°	2972.9	3083.9	3119.5	2961.0	2664.2	2385.6	2168.0	2063.2	2005.9	1978.6	1986.8
20°	3087.6	3197.8	3168.7	2882.7	2462.0	2147.1	1953.0	1895.7	1883.8	1890.3	1887.5
22.5°	3208.7	3307.1	3178.6	2731.6	2204.4	1903.0	1796.5	1798.3	1824.7	1843.8	1848.4
25°	3332.6	3399.0	3152.3	2513.1	1927.6	1723.6	1697.2	1726.4	1778.3	1815.6	1825.6
27.5°	3451.8	3481.0	3094.9	2242.6	1689.9	1595.2	1599.8	1659.9	1738.2	1790.1	1802.9
30°	3586.6	3553.8	2984.7	1938.5	1525.1	1485.1	1523.4	1593.5	1671.8	1718.2	1729.1
32.5°	3738.6	3616.6	2809.9	1657.1	1408.6	1396.8	1459.6	1505.1	1539.8	1553.4	1560.7
35°	3928.0	3705.0	2585.9	1459.6	1303.9	1332.1	1392.2	1369.4	1355.8	1348.5	1355.8
37.5°	4173.9	3824.2	2323.7	1331.2	1219.2	1285.7	1310.3	1239.2	1185.5	1159.1	1165.5
40°	4469.8	3999.0	2071.4	1231.9	1165.5	1245.6	1202.8	1117.2	1048.9	1011.6	1014.3
42.5°	4798.5	4182.1	1859.4	1157.3	1135.4	1212.8	1123.6	1021.6	911.4	899.6	911.4
45°	5143.6	4370.5	1714.5	1099.9	1120.8	1184.6	1078.1	913.3	835.0	883.2	908.7
47.5°	5488.7	4543.5	1627.1	1057.1	1113.6	1152.7	1038.0	853.2	797.7	867.8	900.5
50°	5872.9	4698.3	1587.9	1026.1	1105.4	1140.0	978.0	837.7	758.5	804.9	839.5
52.5°	6254.4	4818.5	1558.8	995.2	1093.6	1130.0	948.7	819.5	711.1	713.8	733.0
55°	6635.0	4896.8	1526.9	954.3	1067.1	1108.1	946.1	799.4	675.6	662.9	672.0
57.5°	7041.1	4941.4	1487.8	908.7	1021.6	1052.6	943.3	783.9	664.7	643.7	646.5
60°	7454.5	5007.0	1436.8	853.2	960.6	986.2	937.0	778.5	658.4	622.8	625.6
62.5°	7825.1	5029.8	1375.9	800.3	882.3	920.6	923.3	774.0	641.0	580.0	580.0
65°	8068.2	4931.4	1269.3	740.3	797.7	853.2	896.9	758.5	610.1	549.1	549.1
67.5°	8058.1	4650.9	1102.7	662.9	715.7	778.5	858.6	732.1	572.8	510.8	513.5
70°	7683.1	4097.3	891.4	572.8	625.6	698.3	809.4	692.9	528.1	468.9	474.4
72.5°	6589.5	3206.9	647.4	467.1	520.8	615.5	745.7	645.5	482.6	431.6	428.9
75°	4707.4	2029.6	438.9	358.7	405.2	521.7	666.6	590.0	440.6	433.4	408.9
77.5°	2404.8	969.8	290.5	262.2	282.3	411.5	560.0	527.2	447.1	357.8	318.7
80°	782.2	357.8	183.1	178.5	187.6	274.1	433.4	432.6	338.8	243.1	214.8
82.5°	249.5	153.9	119.3	114.7	110.2	172.1	302.3	342.3	228.6	153.9	152.9
85°	99.2	91.9	70.1	64.7	46.4	81.1	158.5	227.7	170.3	111.1	113.8
87.5°	36.4	36.4	19.2	13.6	10.0	27.3	42.8	68.3	97.5	57.4	56.5
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)