

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: P967101

Luminaire Tested: **NAV-SB4D-722-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4D-722-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33750.2 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

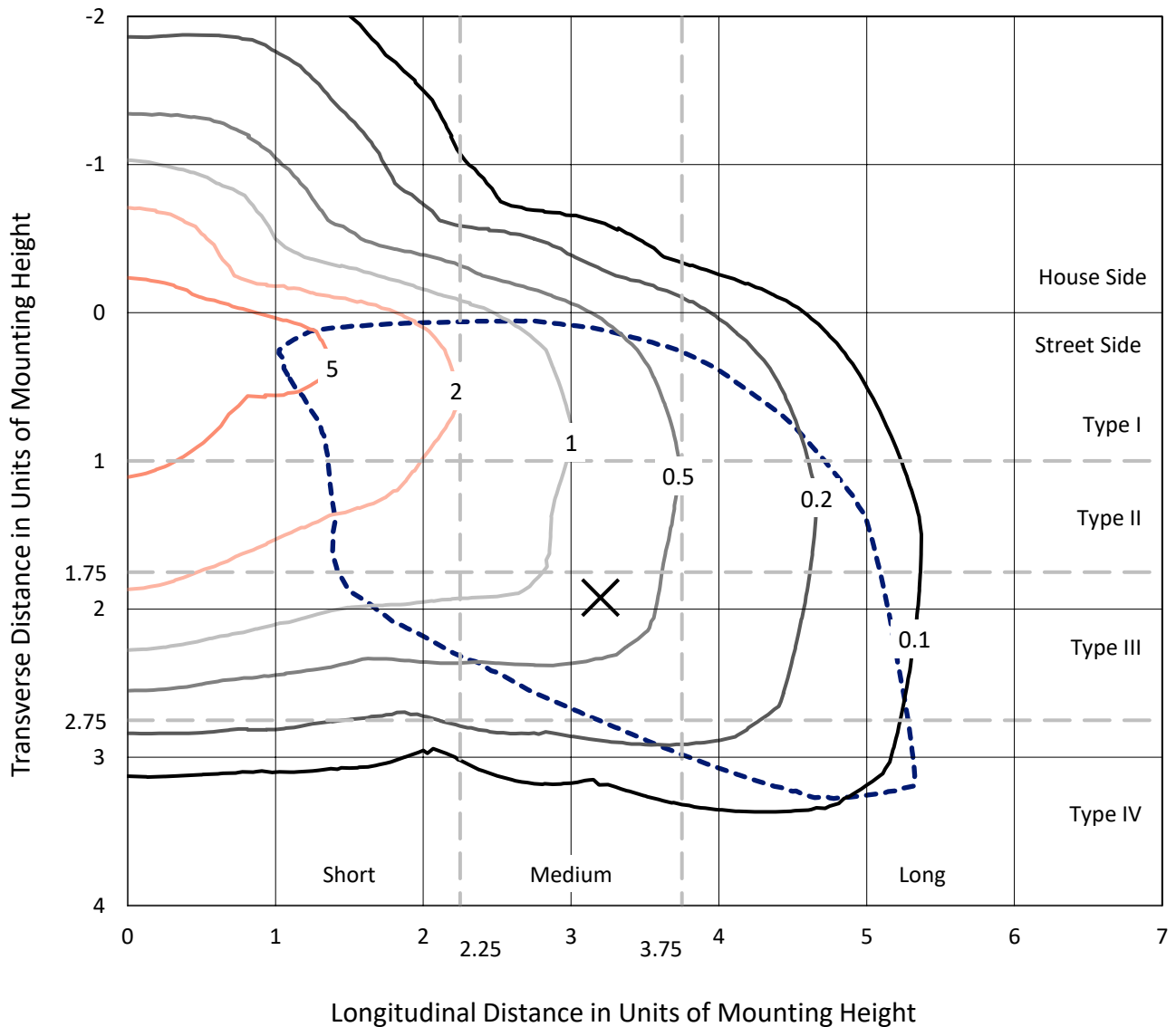
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

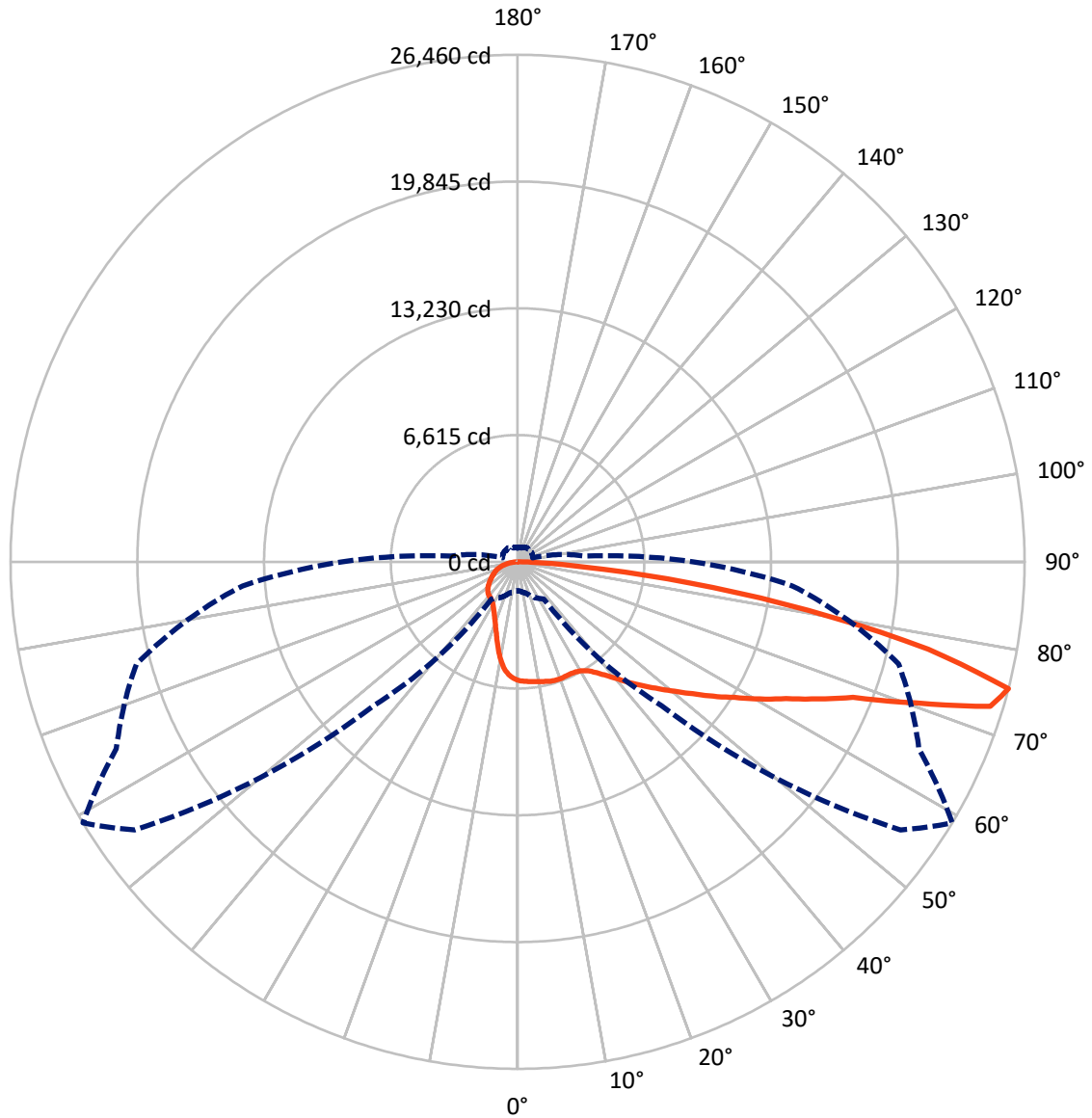
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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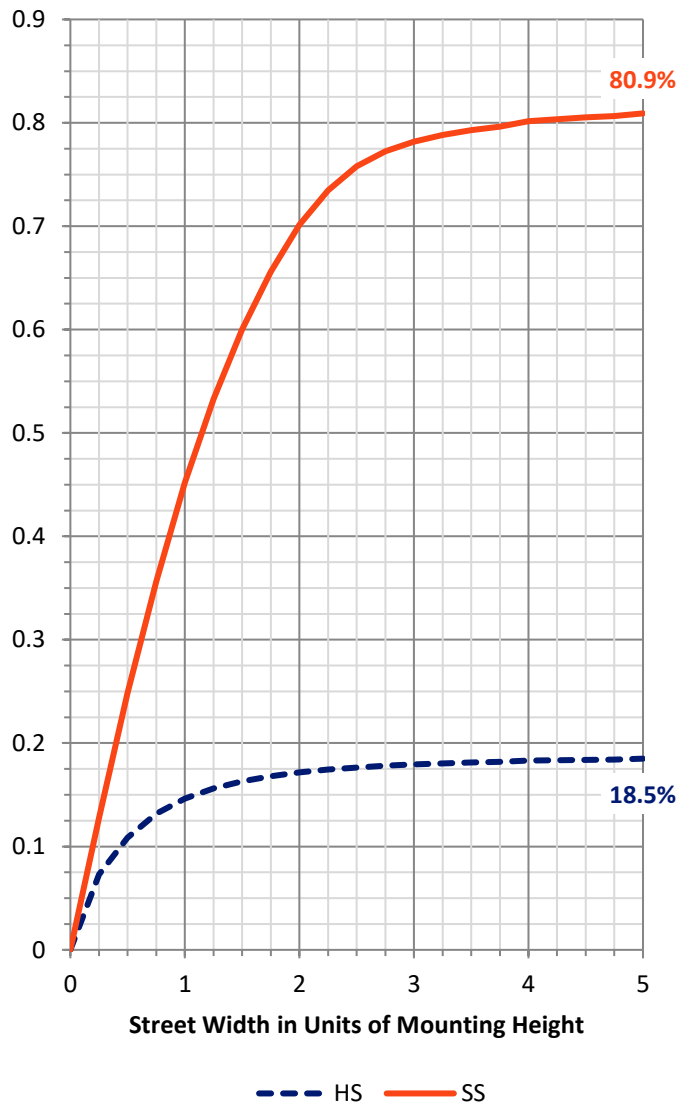
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6330.1	0.0	6330.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	27420.1	0.0	27420.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	33750.2	0.0	33750.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.5	1.6
10°-20°	1419.8	4.2
20°-30°	2156.6	6.4
30°-40°	3205.7	9.5
40°-50°	4767.4	14.1
50°-60°	6471.1	19.2
60°-70°	7900.2	23.4
70°-80°	6200.0	18.4
80°-90°	1074.0	3.2
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°	33750.2	100.0
0°-180°	33750.2	100.0

Coefficient of Utilization

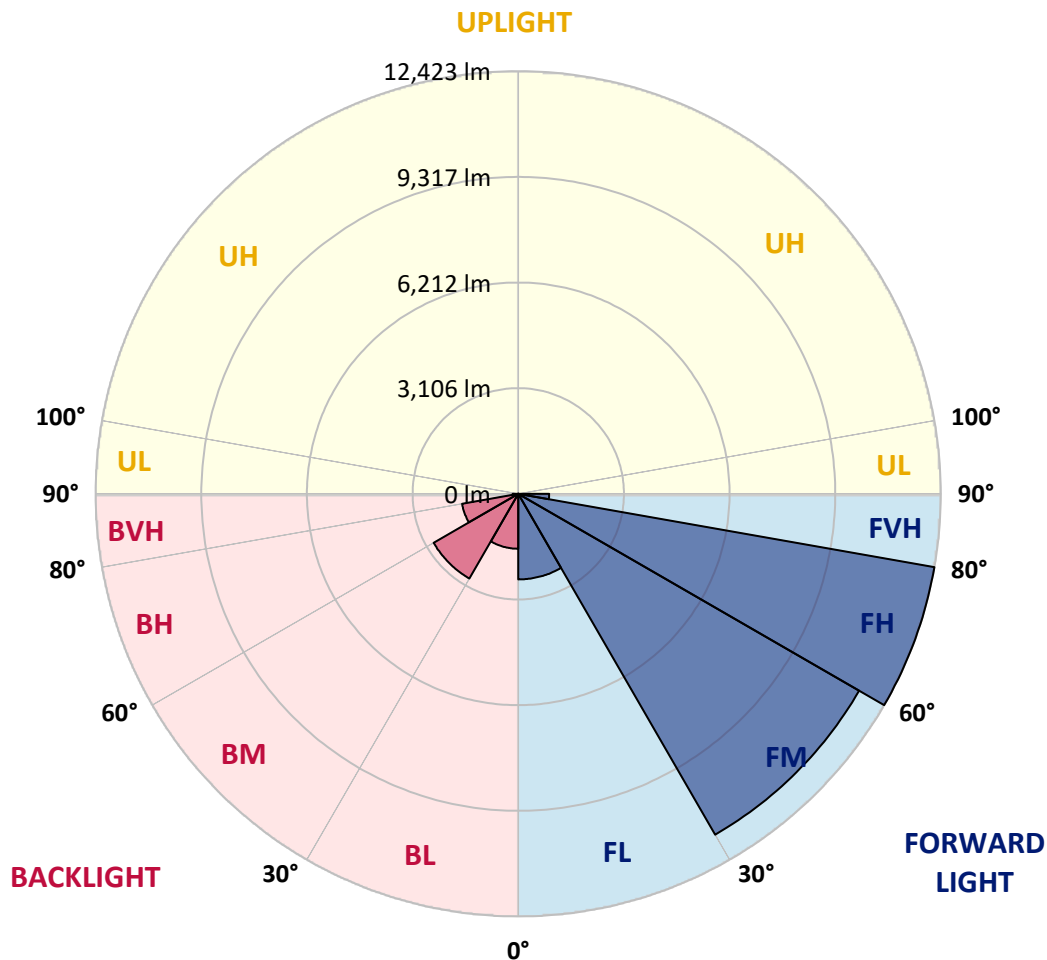


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2516.4	7.5			
FM (30°-60°)	11571.0	34.3			
FH (60°-80°)	12423.1	36.8			G5
FVH (80°-90°)	909.6	2.7			G5
BL (0°-30°)	1615.4	4.8	B3/2500		
BM (30°-60°)	2873.2	8.5	B3/5000		
BH (60°-80°)	1677.1	5.0	B3/2500		G3/2500
BVH (80°-90°)	164.4	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-G5
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6194.8	6194.8	6194.8	6194.8	6194.8	6194.8	6194.8	6194.8	6194.8	6194.8	6194.8
2.5°	6247.4	6225.6	6247.4	6238.4	6234.7	6227.5	6229.2	6241.9	6234.7	6243.8	6212.9
5°	6205.7	6192.9	6214.8	6209.2	6232.9	6236.5	6260.1	6274.6	6283.8	6285.5	6261.9
7.5°	6136.7	6124.0	6154.8	6180.2	6231.1	6245.6	6294.6	6318.2	6330.9	6352.7	6318.2
10°	5884.3	5878.9	5955.1	6051.3	6171.2	6245.6	6320.0	6360.0	6380.0	6438.0	6398.2
12.5°	5437.6	5444.9	5544.8	5730.0	5969.6	6209.2	6349.1	6407.2	6438.0	6510.7	6492.6
15°	5011.0	5009.2	5118.1	5316.1	5652.0	6049.5	6363.6	6463.4	6516.1	6623.2	6608.7
17.5°	4764.1	4756.8	4833.1	4983.8	5296.1	5804.4	6327.3	6494.3	6606.9	6741.2	6728.5
20°	4718.7	4704.1	4744.1	4818.5	5040.0	5535.7	6232.9	6494.3	6679.5	6853.9	6846.6
22.5°	4883.9	4860.3	4843.9	4834.9	4932.9	5314.2	6125.8	6472.6	6786.6	7015.4	7002.7
25°	5216.1	5179.8	5096.3	5014.6	4985.6	5214.4	6031.4	6467.1	6946.4	7233.3	7186.1
27.5°	5753.6	5708.2	5539.3	5343.2	5167.1	5265.2	5989.6	6499.8	7122.5	7463.8	7369.4
30°	6419.9	6370.9	6158.5	5857.1	5541.2	5454.0	6042.3	6596.0	7347.7	7770.7	7585.5
32.5°	7017.3	6962.7	6781.2	6474.4	6047.7	5780.8	6209.2	6779.4	7701.7	8197.3	7910.5
35°	7547.4	7483.8	7320.4	7037.2	6668.6	6240.2	6510.7	7104.4	8204.6	8891.0	8351.7
37.5°	8066.6	7992.2	7814.3	7514.7	7256.9	6852.0	6926.4	7522.0	8872.7	9733.3	8936.3
40°	8647.6	8540.5	8324.4	8028.5	7778.0	7569.2	7473.0	8033.9	9551.8	10673.8	9666.2
42.5°	9210.4	9108.8	8851.0	8598.6	8284.5	8224.6	8106.6	8633.1	10294.4	11706.8	10406.9
45°	9816.8	9695.2	9383.0	9063.4	8865.5	8660.3	8720.3	9232.3	11022.4	12759.9	11184.0
47.5°	10385.1	10249.0	9880.4	9524.5	9415.6	9027.1	9283.1	9891.2	11779.5	13827.5	11953.8
50°	10692.0	10557.6	10250.8	9929.4	9844.1	9479.2	9893.1	10615.7	12573.0	14891.4	12692.8
52.5°	10947.9	10802.7	10401.5	10223.6	10198.1	9971.2	10644.7	11443.6	13366.3	15831.8	13406.3
55°	11220.3	11058.7	10546.7	10386.9	10503.2	10523.2	11536.2	12382.3	14205.2	16748.7	14079.8
57.5°	11534.4	11329.2	10686.5	10524.9	10800.9	11169.4	12560.2	13355.4	15029.4	17598.4	14679.0
60°	11830.3	11623.4	10955.2	10744.7	11122.3	11919.3	13734.9	14533.8	15962.6	18355.5	15245.4
62.5°	11888.5	11717.8	11169.4	11167.7	11558.0	12794.5	15125.6	15723.0	16777.8	19103.5	15753.8
65°	10882.6	10775.5	10450.5	11151.3	12182.5	14054.4	16674.3	17244.4	17814.5	19757.2	16200.4
67.5°	8282.7	8297.2	8273.6	9626.2	11677.8	15864.5	18916.6	18873.0	19094.5	20490.7	16714.3
70°	3787.3	3872.7	4428.2	6645.1	9355.7	16073.3	22624.0	22059.3	20701.3	21440.2	17159.1
72.5°	2046.2	2111.5	2338.4	3219.0	5624.7	14290.4	25394.6	25795.8	22838.2	22079.3	16670.7
75°	1501.5	1537.8	1695.8	2046.2	2362.1	10621.2	24401.5	26460.3	23105.1	20588.7	14395.7
77.5°	1123.8	1140.2	1269.1	1621.3	1209.2	5599.3	19497.6	21914.1	19778.9	16915.8	10633.9
80°	815.2	833.3	929.6	1216.5	847.9	2048.0	13388.1	15381.7	13546.1	10782.8	5299.7
82.5°	562.8	570.1	611.8	827.9	591.8	795.2	7596.4	9019.8	7561.9	3783.7	1430.7
85°	339.5	348.6	366.7	483.0	335.9	377.6	3279.0	3391.5	2260.4	904.2	444.8
87.5°	139.8	148.8	163.4	203.4	132.5	105.3	541.0	679.1	423.0	265.1	138.0
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°	6194.8	6194.8	6194.8	6194.8	6194.8	6194.8	6194.8	6194.8	6194.8	6194.8	6194.8
2.5°	6203.8	6191.1	6156.7	6109.4	6065.8	6011.4	5987.7	5967.9	5949.7	5915.2	5898.9
5°	6241.9	6207.5	6114.8	5995.0	5858.9	5710.0	5564.7	5464.9	5379.6	5316.1	5263.4
7.5°	6300.1	6234.7	6065.8	5820.8	5508.5	5189.0	4900.2	4695.1	4540.8	4484.5	4386.5
10°	6360.0	6281.9	5987.7	5555.7	5016.5	4524.5	4141.3	3930.8	3807.3	3767.3	3705.6
12.5°	6430.7	6316.5	5866.2	5187.1	4466.3	3927.1	3593.0	3469.6	3406.1	3384.2	3389.7
15°	6534.3	6345.5	5682.8	4726.0	3941.6	3491.4	3275.3	3190.0	3157.3	3155.5	3162.7
17.5°	6612.4	6350.9	5397.8	4232.1	3538.6	3228.1	3050.2	3017.5	3039.3	3071.9	3084.6
20°	6699.5	6301.9	5023.7	3781.8	3255.3	2997.5	2923.1	2944.8	2997.5	3044.8	3061.1
22.5°	6761.2	6212.9	4571.6	3431.5	3010.2	2865.0	2861.4	2906.8	2935.8	2959.4	2972.1
25°	6815.7	6062.3	4092.3	3137.3	2808.7	2785.1	2825.0	2810.5	2790.6	2810.5	2823.3
27.5°	6855.6	5824.4	3663.9	2879.5	2667.0	2730.6	2707.0	2674.3	2672.6	2683.4	2701.6
30°	6842.9	5506.7	3311.7	2634.5	2567.2	2628.9	2572.6	2567.2	2561.8	2567.2	2587.2
32.5°	6842.9	5145.4	3041.1	2465.5	2503.7	2480.1	2474.7	2461.9	2440.1	2438.4	2461.9
35°	6881.0	4784.1	2808.7	2374.8	2451.1	2394.7	2398.4	2367.5	2322.1	2300.3	2322.1
37.5°	6959.1	4493.6	2578.1	2331.2	2358.4	2356.6	2342.1	2289.4	2209.6	2140.6	2164.2
40°	7147.9	4408.2	2420.1	2311.3	2314.9	2336.7	2298.6	2196.9	2015.3	1902.7	1917.3
42.5°	7443.9	4551.7	2385.7	2262.2	2285.9	2307.6	2233.2	1997.1	1868.3	1801.0	1801.0
45°	7819.7	4802.2	2460.1	2191.4	2216.9	2255.0	2033.5	1920.8	1862.8	1864.6	1873.7
47.5°	8295.4	5065.4	2598.1	2129.6	2116.9	2138.8	1901.0	1831.9	1752.0	1772.0	1822.9
50°	8845.5	5332.4	2728.9	2046.2	2006.2	1935.4	1815.6	1750.2	1648.5	1601.4	1614.1
52.5°	9441.1	5590.1	2781.4	1944.5	1886.4	1804.7	1757.5	1677.6	1554.1	1476.1	1474.3
55°	10005.6	5824.4	2723.4	1822.9	1766.6	1703.0	1695.8	1646.8	1514.2	1405.3	1405.3
57.5°	10539.5	6020.4	2578.1	1699.3	1644.9	1606.8	1655.8	1632.2	1465.1	1325.3	1318.1
60°	10991.6	6154.8	2367.5	1574.1	1536.0	1516.0	1590.5	1583.2	1396.2	1240.0	1234.6
62.5°	11351.1	6207.5	2135.1	1454.3	1445.2	1408.9	1499.7	1499.7	1309.0	1156.5	1151.1
65°	11632.4	6156.7	1899.1	1336.3	1354.4	1300.0	1388.9	1378.0	1216.5	1082.1	1074.8
67.5°	11881.2	5989.6	1637.6	1220.1	1261.9	1192.8	1272.7	1247.3	1114.8	1007.7	1000.4
70°	11991.9	5601.1	1339.9	1103.9	1154.7	1087.5	1156.5	1109.4	1000.4	927.7	913.3
72.5°	11102.3	4655.1	1054.8	982.3	1025.8	971.3	1031.3	976.8	876.9	844.3	817.0
75°	9185.0	3493.2	811.6	849.7	882.4	840.6	880.6	840.6	749.8	773.5	706.2
77.5°	6670.5	2358.4	620.9	709.9	724.4	702.6	737.1	691.8	610.1	604.5	577.4
80°	3317.1	1381.7	486.6	561.0	555.6	541.0	581.0	559.2	490.3	519.3	513.8
82.5°	960.4	591.8	354.0	394.0	383.0	386.7	415.7	426.7	639.1	633.7	648.2
85°	301.3	232.4	212.4	219.7	208.8	214.2	245.1	486.6	450.3	263.2	285.1
87.5°	78.1	79.8	52.7	56.3	58.1	69.0	78.1	295.9	141.7	92.6	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)