

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: P970261

Luminaire Tested: **NAV-SB6B-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-722-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28739 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

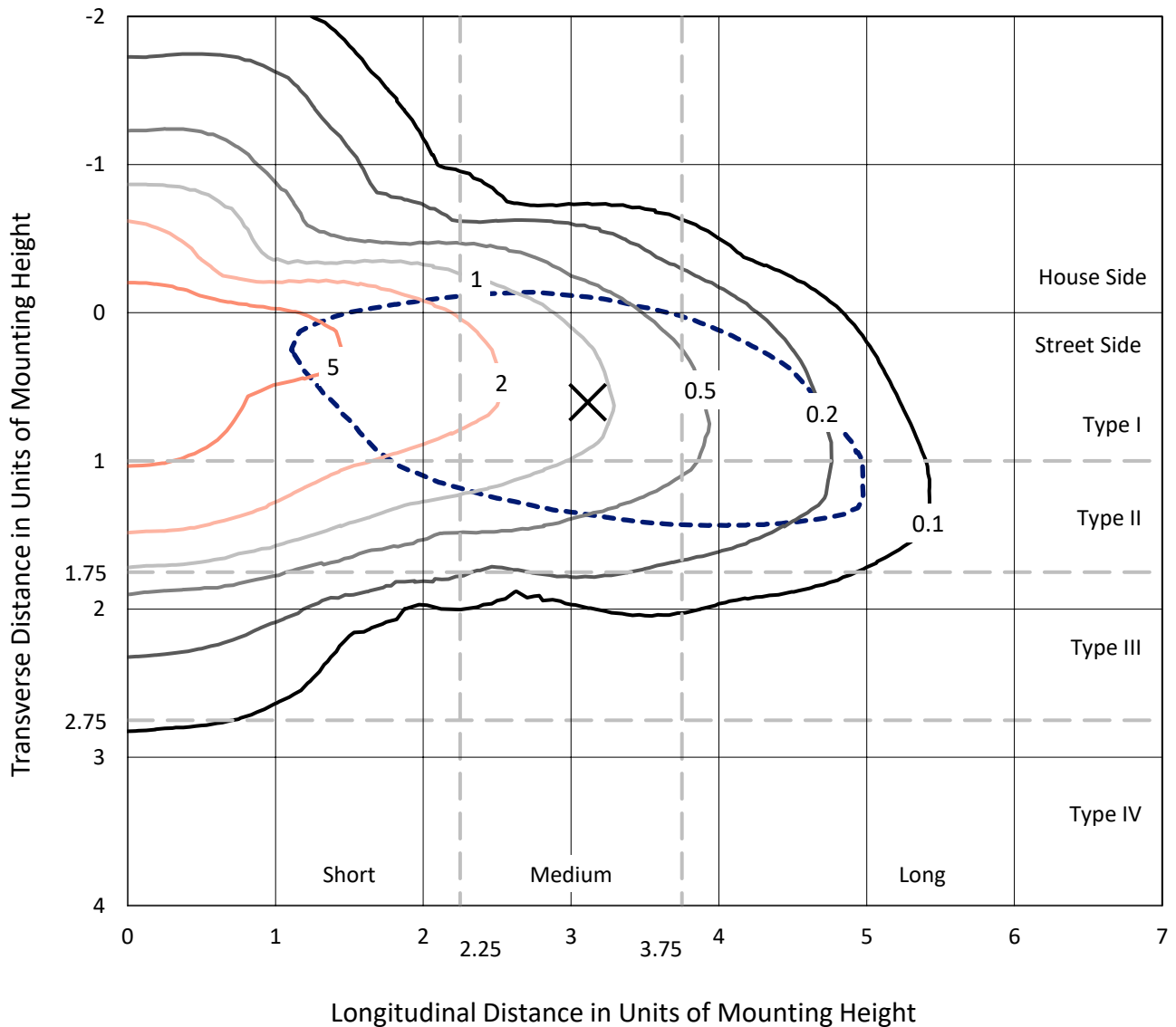
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

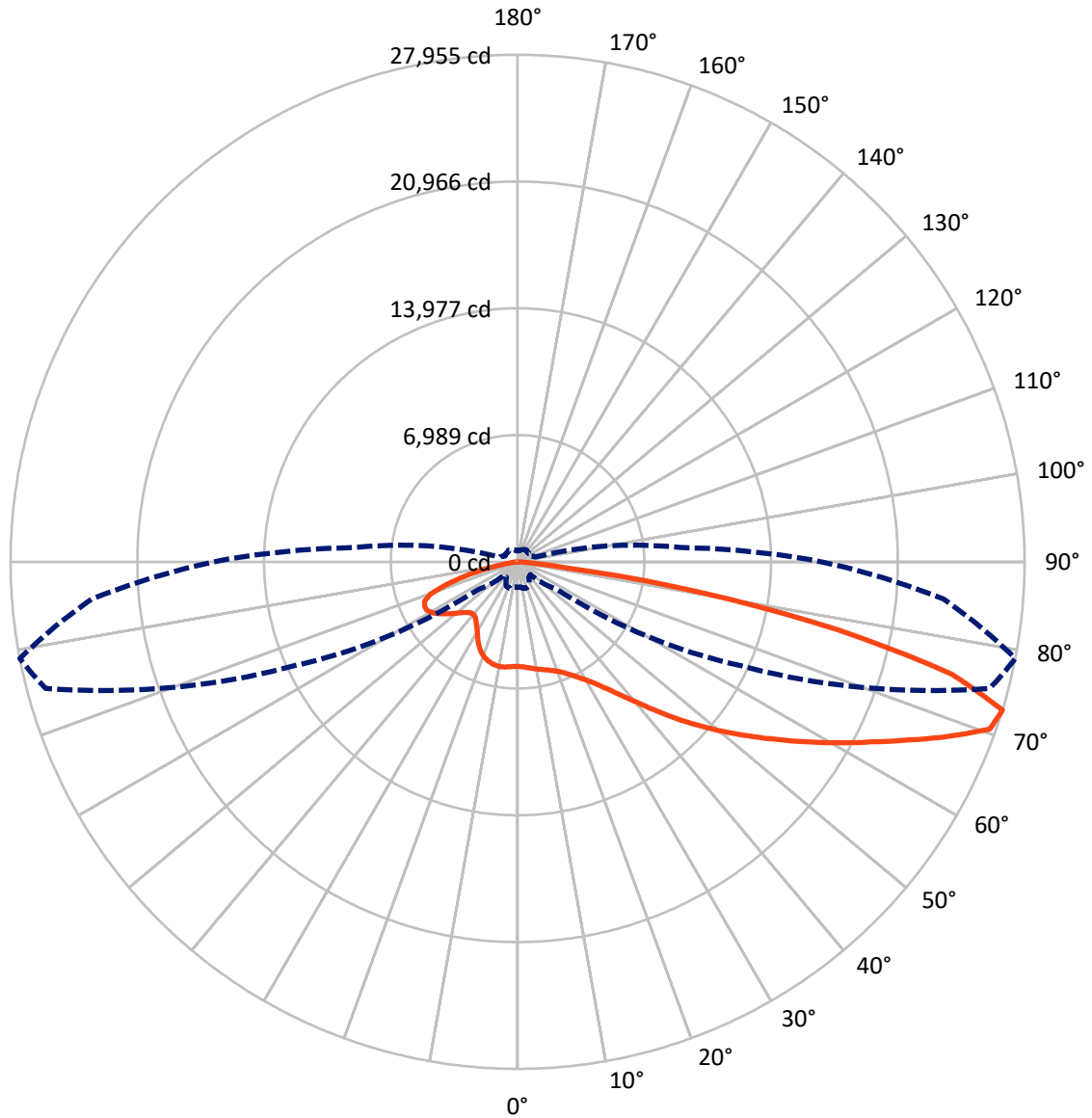
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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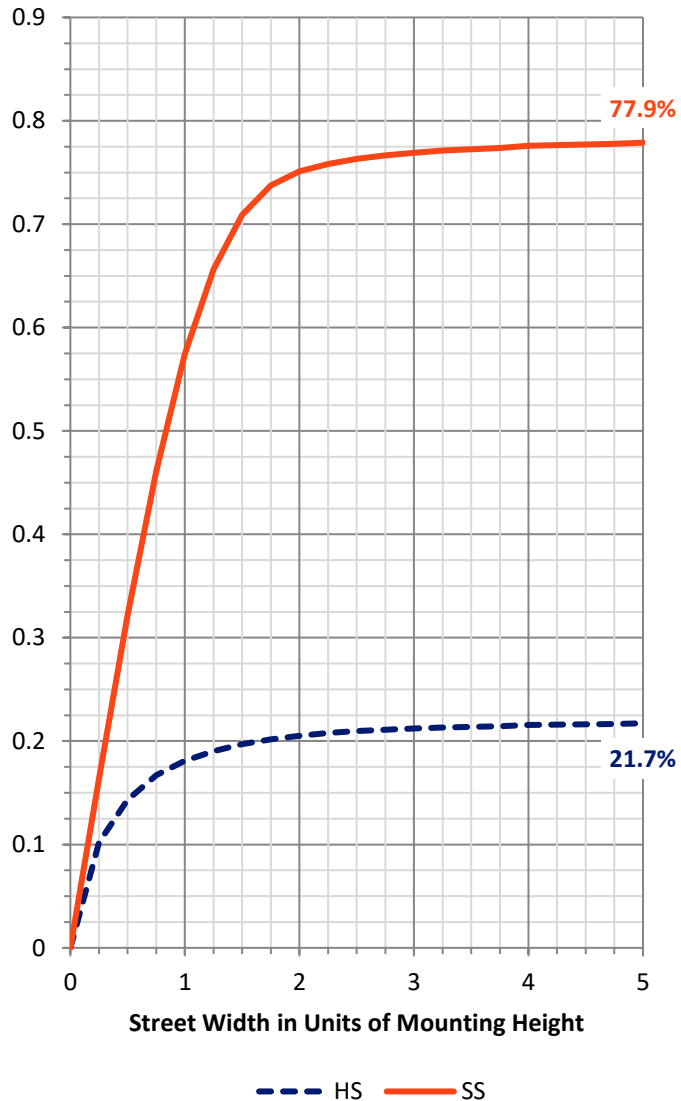
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6324.2	0.0	6324.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	22414.8	0.0	22414.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	28739.0	0.0	28739.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.7	1.8
10°-20°	1369.1	4.8
20°-30°	2209.2	7.7
30°-40°	3315.7	11.5
40°-50°	4703.5	16.4
50°-60°	5939.9	20.7
60°-70°	6032.8	21.0
70°-80°	4111.6	14.3
80°-90°	533.5	1.9
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°	28739.0	100.0
0°-180°	28739.0	100.0

Coefficient of Utilization

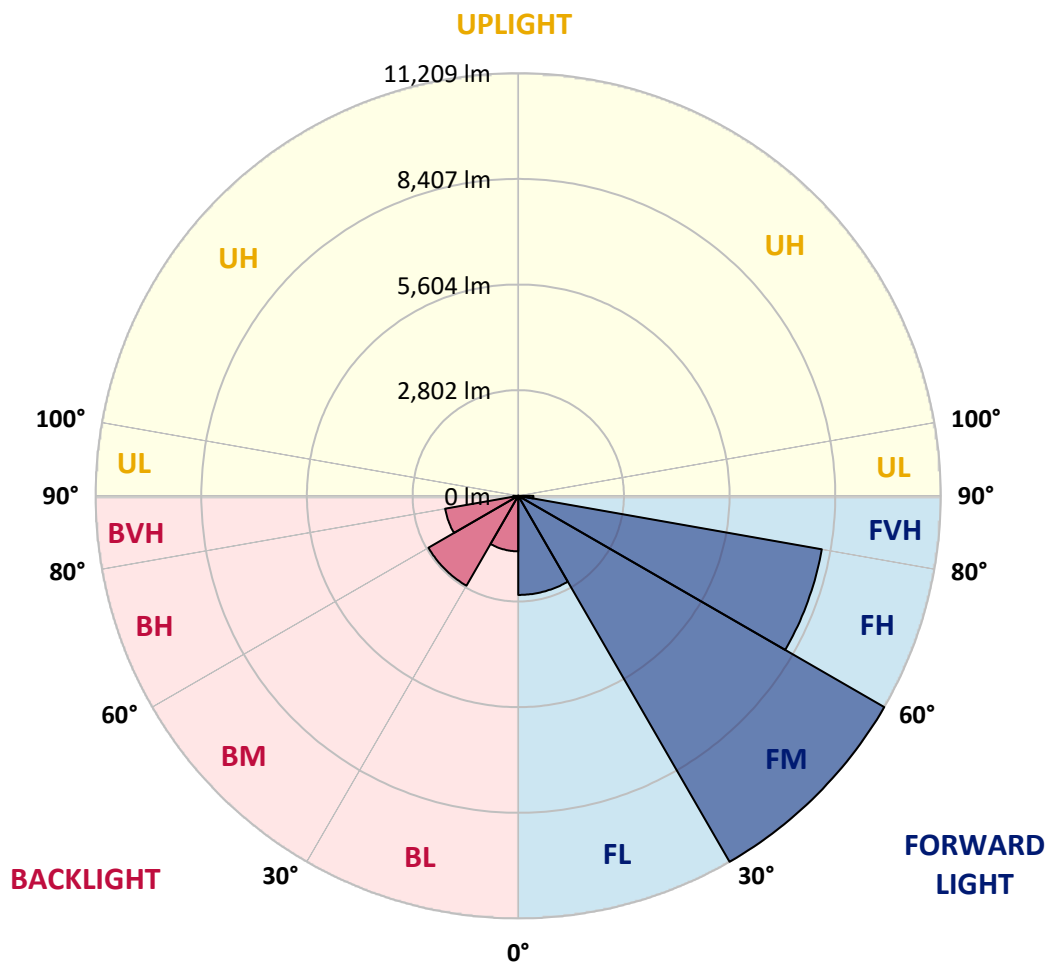


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2628.9	9.1			
FM (30°-60°)	11208.8	39.0			
FH (60°-80°)	8175.3	28.4			G4/12000
FVH (80°-90°)	401.9	1.4			G3/500
BL (0°-30°)	1473.1	5.1	B3/2500		
BM (30°-60°)	2750.3	9.6	B3/5000		
BH (60°-80°)	1969.1	6.9	B3/2500		G3/2500
BVH (80°-90°)	131.6	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-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5769.1	5769.1	5769.1	5769.1	5769.1	5769.1	5769.1	5769.1	5769.1	5769.1	5769.1
2.5°	5772.1	5744.7	5761.4	5755.4	5763.0	5772.1	5775.2	5779.7	5794.9	5793.4	5791.9
5°	5760.0	5732.6	5755.4	5747.8	5767.6	5788.8	5807.0	5823.8	5848.1	5858.8	5843.5
7.5°	5734.2	5715.9	5738.7	5761.4	5797.9	5829.9	5855.7	5893.7	5928.7	5934.7	5945.4
10°	5583.6	5570.0	5623.2	5682.4	5782.7	5869.4	5925.6	5969.7	6007.7	6013.8	6029.0
12.5°	5427.1	5410.4	5469.6	5550.2	5712.8	5869.4	5987.9	6045.8	6079.2	6099.0	6121.7
15°	5401.2	5387.5	5420.9	5490.9	5626.2	5828.4	6030.6	6137.0	6165.9	6188.6	6197.8
17.5°	5525.9	5500.0	5513.7	5538.0	5617.1	5790.3	6064.0	6240.3	6284.4	6308.8	6308.8
20°	5814.7	5778.2	5756.9	5708.2	5694.6	5796.5	6060.9	6364.9	6422.8	6453.2	6460.8
22.5°	6199.3	6174.9	6129.4	6006.2	5872.4	5870.9	6118.7	6524.6	6632.6	6661.4	6643.1
25°	6664.4	6628.0	6570.2	6403.0	6146.1	6018.4	6216.0	6728.3	6909.2	6916.8	6863.6
27.5°	7199.6	7144.9	7065.7	6845.4	6498.7	6249.4	6364.9	6962.4	7227.0	7223.9	7114.4
30°	7763.6	7708.8	7625.2	7357.7	6921.4	6561.1	6571.7	7214.8	7604.0	7587.2	7400.2
32.5°	8175.5	8134.5	8117.8	7910.9	7407.8	6929.0	6808.9	7494.5	8069.1	8053.9	7792.5
35°	8491.7	8438.5	8458.3	8353.3	7938.3	7340.9	7099.3	7827.4	8634.6	8633.1	8307.7
37.5°	8804.9	8757.7	8774.4	8704.5	8429.4	7863.9	7453.4	8234.7	9335.4	9368.8	8931.0
40°	9090.6	9040.5	9107.3	9042.0	8810.9	8420.3	7856.3	8695.4	10147.2	10211.0	9685.0
42.5°	9262.4	9222.9	9333.9	9335.4	9142.4	8890.0	8298.6	9203.2	11086.6	11229.6	10612.3
45°	9321.8	9308.0	9475.3	9510.3	9435.7	9162.1	8696.9	9756.5	12099.1	12354.4	11668.9
47.5°	9257.9	9232.1	9463.1	9592.4	9651.6	9289.8	9026.8	10355.5	13132.8	13506.7	12821.2
50°	8935.6	8885.4	9229.0	9501.1	9712.4	9373.4	9359.7	11047.1	14307.9	14716.8	13979.6
52.5°	8356.4	8318.4	8709.1	9181.8	9578.6	9414.4	9733.7	11802.7	15423.7	15952.7	15166.8
55°	7616.1	7565.9	7996.1	8613.3	9245.7	9400.8	10107.6	12647.9	16740.2	17276.8	16393.5
57.5°	6442.5	6342.2	6886.4	7616.1	8703.0	9384.1	10496.8	13488.5	18077.9	18721.0	17702.5
60°	4730.8	4581.9	5249.1	6114.1	7641.9	9221.4	10978.7	14431.1	19683.3	20262.4	19131.4
62.5°	2754.6	2667.9	3104.2	3911.4	5760.0	8263.7	11249.3	15527.1	21261.2	21869.3	20536.1
65°	2138.9	2114.6	2152.6	2214.9	3206.1	6187.1	10414.7	16595.8	23267.8	23693.5	22000.0
67.5°	1956.4	1938.3	1955.0	1837.9	1626.6	3446.3	8239.4	16866.4	25417.3	25675.7	23281.5
70°	1739.1	1717.8	1772.5	1672.2	1280.0	1567.3	5323.6	15884.3	27127.5	27612.5	24255.9
72.5°	1416.8	1392.5	1520.2	1474.6	1077.8	1006.3	2674.0	13550.8	26948.2	27954.5	23558.2
75°	1088.4	1074.8	1226.8	1264.7	878.6	792.0	1283.0	10072.7	23714.7	24728.7	20303.5
77.5°	845.2	834.6	912.1	1050.4	708.4	614.2	788.9	6389.3	17871.2	18049.0	13991.7
80°	634.0	603.5	675.0	813.3	551.9	448.4	535.2	3726.0	11296.4	10240.0	6089.8
82.5°	396.8	381.6	440.9	542.7	389.2	308.6	348.1	2058.3	4527.1	2666.4	1175.1
85°	226.5	220.4	240.2	310.2	211.4	177.8	199.2	909.1	827.0	568.6	354.2
87.5°	91.2	88.1	109.5	138.4	77.5	65.4	69.9	218.9	182.4	168.7	117.1
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°	5769.1	5769.1	5769.1	5769.1	5769.1	5769.1	5769.1	5769.1	5769.1	5769.1	5769.1
2.5°	5785.8	5785.8	5764.5	5731.1	5693.1	5668.8	5629.2	5618.5	5577.5	5565.3	5585.1
5°	5855.7	5843.5	5778.2	5683.9	5554.7	5436.2	5305.4	5223.3	5107.8	5066.8	5097.1
7.5°	5943.9	5910.5	5797.9	5591.2	5320.6	5054.6	4777.9	4568.1	4367.4	4296.0	4305.1
10°	6024.4	5977.3	5785.8	5424.0	4955.8	4495.1	4054.3	3745.8	3511.6	3415.8	3437.1
12.5°	6105.0	6018.4	5705.3	5145.8	4437.4	3812.6	3342.8	3102.7	2958.3	2842.7	2880.8
15°	6181.1	6059.4	5580.6	4773.3	3868.9	3234.9	2888.3	2696.8	2581.3	2505.2	2518.9
17.5°	6269.2	6094.3	5393.5	4300.6	3327.7	2835.1	2552.4	2436.8	2414.1	2405.0	2411.0
20°	6392.3	6126.3	5147.3	3771.6	2929.3	2515.9	2370.0	2359.3	2357.8	2353.2	2368.5
22.5°	6524.6	6164.3	4822.0	3291.2	2590.4	2316.7	2290.9	2269.7	2255.9	2254.4	2271.2
25°	6681.2	6176.4	4414.6	2897.5	2301.5	2222.5	2192.1	2160.2	2151.1	2151.1	2160.2
27.5°	6833.2	6135.4	3940.3	2555.4	2138.9	2135.9	2096.3	2085.7	2084.1	2088.7	2100.8
30°	6985.2	6058.0	3469.0	2239.2	2044.7	2044.7	2030.9	2038.5	2044.7	2059.8	2070.5
32.5°	7190.5	5975.9	3075.3	2005.1	1962.6	1947.4	1961.0	1976.2	1982.4	2002.0	2018.8
35°	7491.4	5918.0	2762.2	1877.4	1877.4	1857.6	1865.3	1862.2	1848.5	1839.5	1860.7
37.5°	7889.7	5915.0	2503.8	1818.1	1805.9	1803.0	1804.4	1784.7	1731.5	1667.7	1669.1
40°	8368.6	5997.1	2304.6	1777.0	1767.9	1786.2	1777.0	1723.8	1578.0	1467.0	1463.9
42.5°	9011.6	6231.2	2176.9	1726.9	1754.3	1777.0	1740.6	1556.7	1457.9	1383.3	1380.4
45°	9768.7	6611.2	2111.5	1673.7	1728.5	1755.8	1579.4	1498.9	1419.8	1330.1	1324.1
47.5°	10626.1	7090.1	2096.3	1623.6	1670.6	1687.4	1511.1	1474.6	1384.9	1287.6	1280.0
50°	11559.4	7657.2	2137.3	1564.3	1587.1	1529.3	1488.3	1454.8	1362.1	1266.3	1255.6
52.5°	12524.8	8281.9	2219.4	1483.7	1503.5	1439.6	1479.2	1450.3	1348.4	1219.1	1210.0
55°	13473.3	8911.2	2298.5	1389.5	1418.3	1359.0	1453.2	1432.0	1286.1	1140.1	1132.5
57.5°	14437.1	9537.6	2376.1	1305.8	1336.2	1281.6	1412.2	1383.3	1216.2	1067.1	1064.2
60°	15439.0	10145.7	2412.5	1225.3	1246.5	1210.0	1349.9	1299.7	1137.1	992.7	988.1
62.5°	16376.8	10651.9	2353.2	1144.7	1158.4	1143.2	1267.8	1200.9	1058.0	909.1	907.5
65°	17317.9	10952.8	2170.8	1065.7	1068.7	1061.1	1152.3	1094.5	965.3	836.1	827.0
67.5°	18170.7	11121.7	1880.5	980.5	972.9	969.9	1044.4	979.0	875.7	763.1	754.0
70°	18351.6	10692.9	1436.5	880.2	880.2	872.6	925.8	859.0	776.8	685.6	682.5
72.5°	16761.5	8994.9	1020.1	766.2	778.3	763.1	807.2	751.0	676.5	615.7	597.5
75°	13515.9	6596.1	741.9	649.1	670.3	644.5	685.6	646.1	582.2	580.7	523.0
77.5°	9286.8	4078.7	538.1	535.2	550.3	516.9	564.0	542.7	484.9	459.1	430.2
80°	3963.1	1626.6	392.2	413.5	413.5	383.0	437.8	443.9	393.7	381.6	381.6
82.5°	788.9	462.2	275.1	284.2	267.5	258.4	310.2	343.6	474.3	527.5	529.0
85°	237.2	170.3	165.7	155.1	136.8	138.4	182.4	345.1	425.7	243.2	209.8
87.5°	65.4	42.5	44.1	35.0	28.9	38.0	62.3	261.5	142.9	60.8	51.7
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)