

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: P969765

Luminaire Tested: **NAV-SB6A-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969765
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-SB6A-727-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25705 lumens
Efficiency: N/A
Efficacy: 150.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

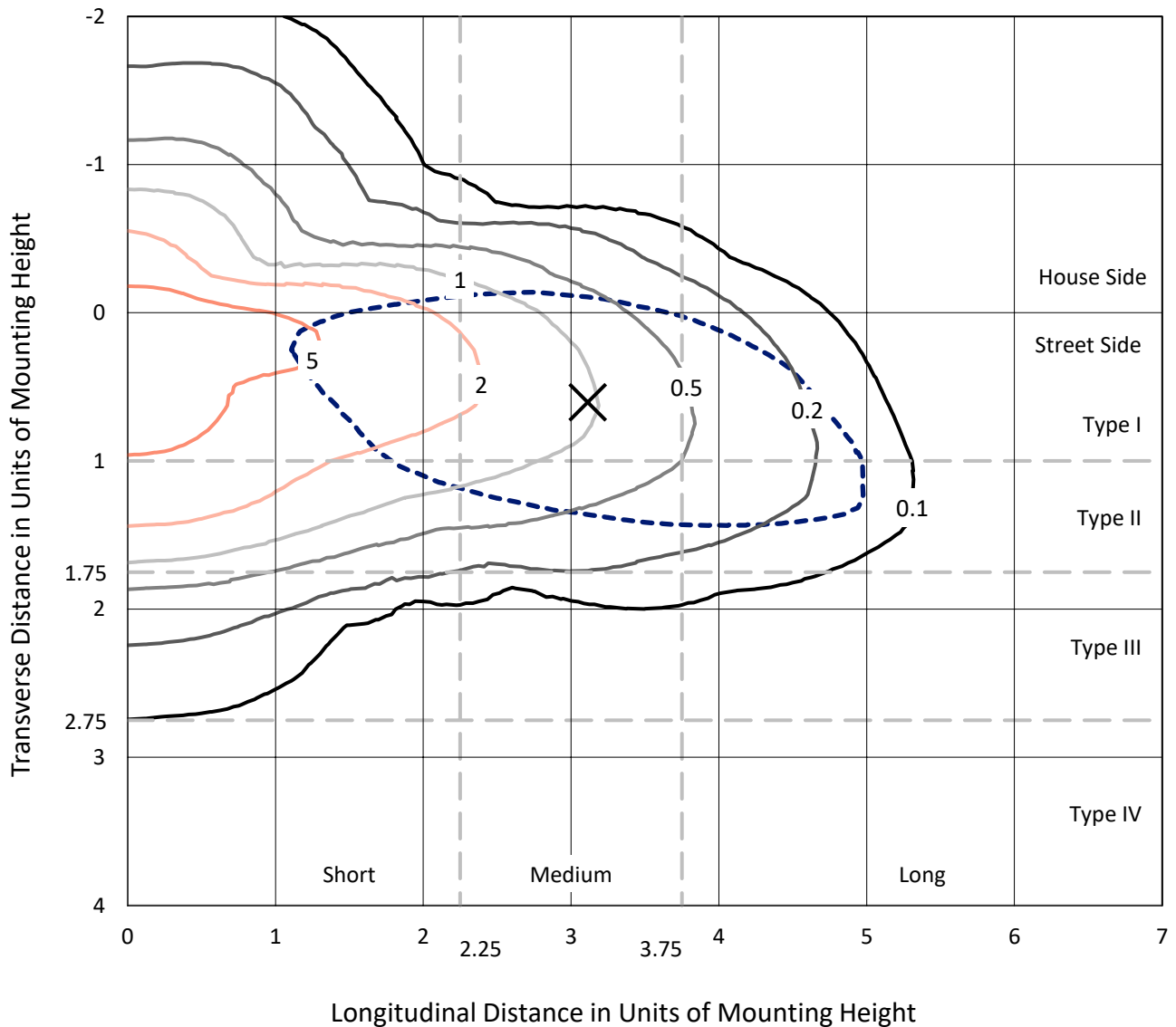
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

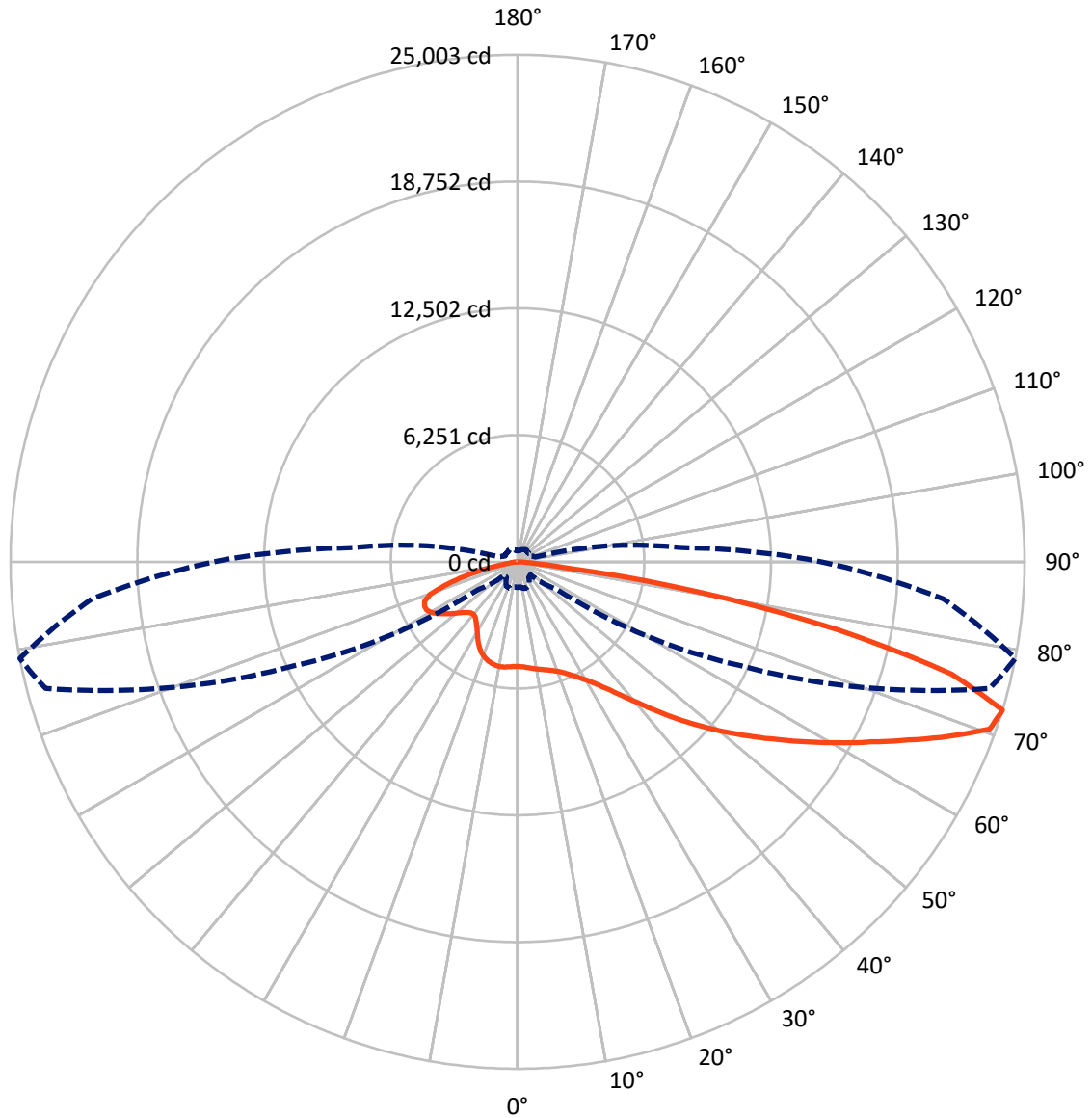
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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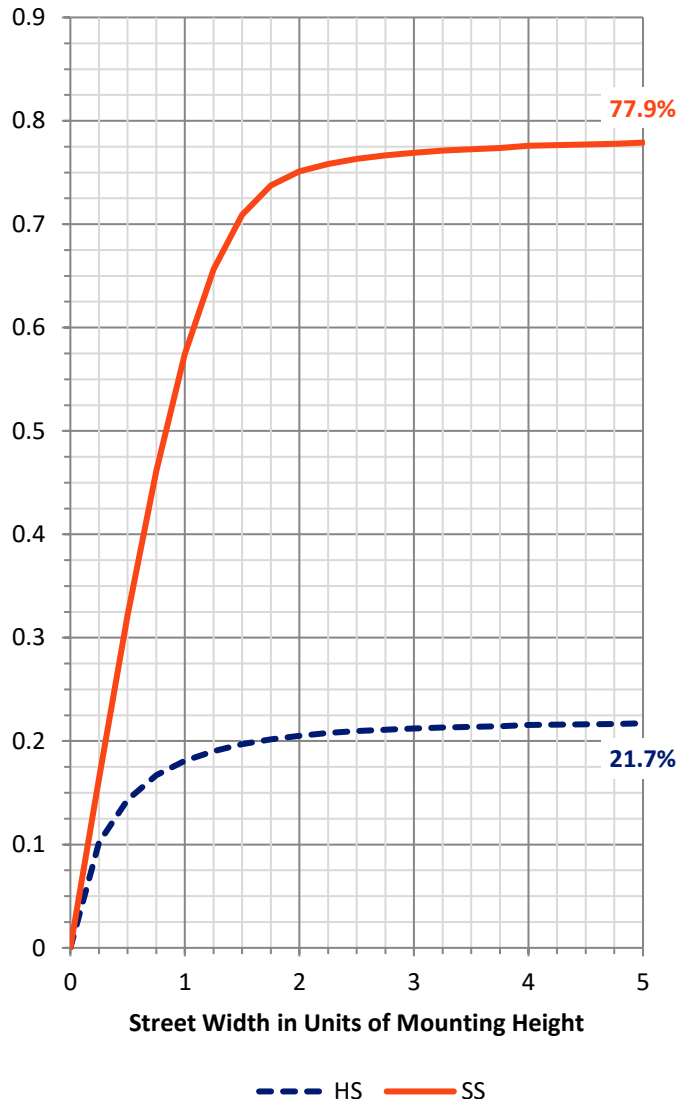
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5656.5	0.0	5656.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	20048.5	0.0	20048.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	25705.0	0.0	25705.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.4	1.8
10°-20°	1224.6	4.8
20°-30°	1976.0	7.7
30°-40°	2965.7	11.5
40°-50°	4207.0	16.4
50°-60°	5312.8	20.7
60°-70°	5395.9	21.0
70°-80°	3677.5	14.3
80°-90°	477.1	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°	25705.0	100.0
0°-180°	25705.0	100.0

Coefficient of Utilization

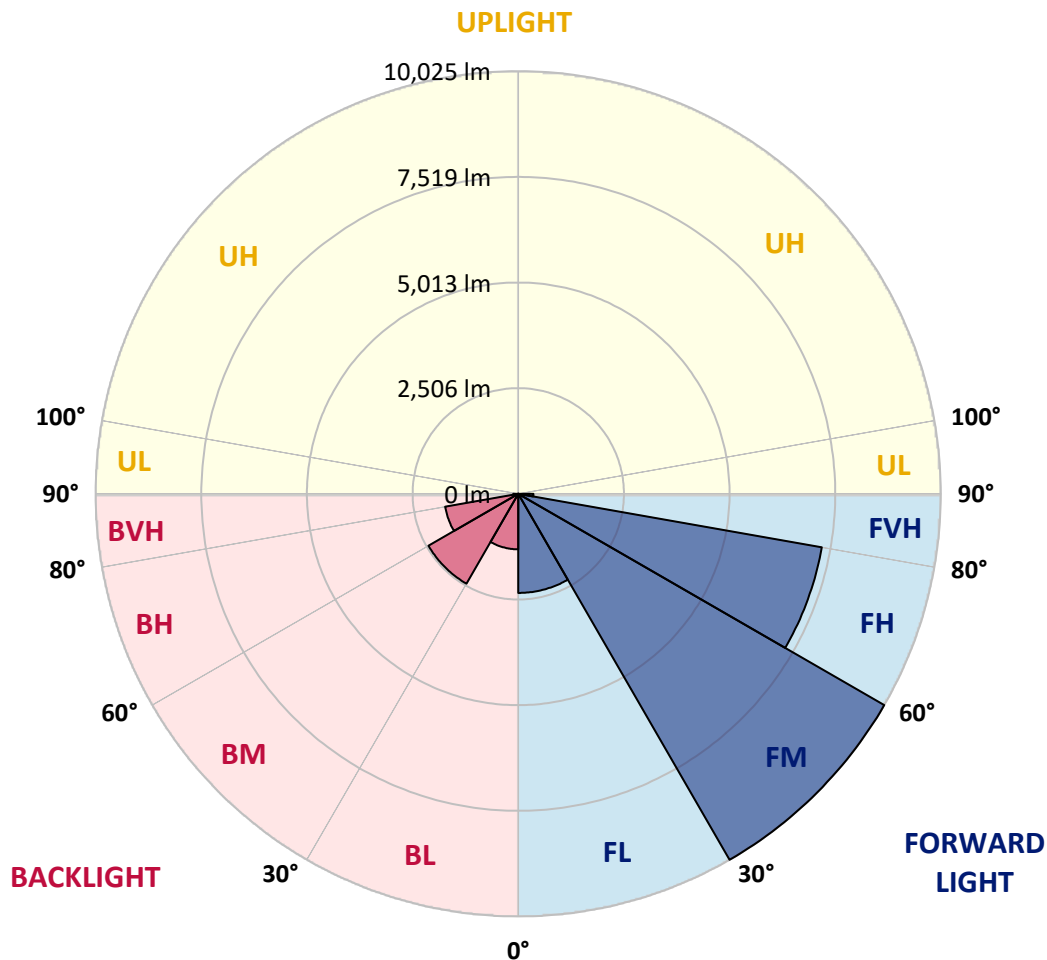


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2351.4	9.1			
FM (30°-60°)	10025.5	39.0			
FH (60°-80°)	7312.2	28.4			G3/7500
FVH (80°-90°)	359.4	1.4			G3/500
BL (0°-30°)	1317.6	5.1	B3/2500		
BM (30°-60°)	2460.0	9.6	B2/2500		
BH (60°-80°)	1761.3	6.9	B3/2500		G3/2500
BVH (80°-90°)	117.7	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°	79°	85°
0°	5160.1	5160.1	5160.1	5160.1	5160.1	5160.1	5160.1	5160.1	5160.1	5160.1	5160.1
2.5°	5162.7	5138.2	5153.2	5147.8	5154.6	5162.7	5165.5	5169.6	5183.1	5181.8	5180.5
5°	5151.9	5127.4	5147.8	5141.0	5158.6	5177.7	5194.0	5208.9	5230.7	5240.2	5226.7
7.5°	5128.8	5112.4	5132.8	5153.2	5185.9	5214.4	5237.5	5271.5	5302.8	5308.3	5317.7
10°	4994.1	4981.9	5029.5	5082.6	5172.3	5249.7	5300.1	5339.5	5373.5	5378.9	5392.5
12.5°	4854.1	4839.1	4892.1	4964.3	5109.7	5249.7	5355.8	5407.5	5437.4	5455.0	5475.4
15°	4831.0	4818.7	4848.7	4911.2	5032.2	5213.0	5393.9	5489.1	5514.9	5535.3	5543.5
17.5°	4942.4	4919.4	4931.6	4953.3	5024.0	5179.0	5423.8	5581.5	5621.0	5642.7	5642.7
20°	5200.8	5168.2	5149.2	5105.6	5093.4	5184.4	5421.1	5693.1	5744.7	5771.9	5778.6
22.5°	5544.8	5523.1	5482.3	5372.1	5252.5	5251.1	5472.8	5835.8	5932.3	5958.1	5941.8
25°	5960.9	5928.3	5876.5	5727.0	5497.2	5383.0	5559.8	6018.0	6179.8	6186.6	6139.0
27.5°	6439.5	6390.6	6319.8	6122.7	5812.7	5589.7	5693.1	6227.4	6464.0	6461.3	6363.3
30°	6944.0	6895.0	6820.2	6580.9	6190.7	5868.4	5878.0	6453.1	6801.2	6786.2	6618.9
32.5°	7312.5	7275.7	7260.8	7075.8	6625.8	6197.5	6090.0	6703.3	7217.2	7203.6	6969.8
35°	7595.2	7547.7	7565.3	7471.5	7100.3	6565.9	6349.8	7001.1	7723.1	7721.6	7430.7
37.5°	7875.3	7833.2	7848.1	7785.6	7539.5	7033.7	6666.6	7365.4	8349.9	8379.8	7988.1
40°	8130.9	8086.1	8145.9	8087.5	7880.8	7531.3	7026.9	7777.4	9076.0	9133.1	8662.6
42.5°	8284.6	8249.2	8348.5	8349.9	8177.1	7951.4	7422.5	8231.6	9916.3	10044.1	9492.0
45°	8337.7	8325.4	8474.9	8506.3	8439.6	8194.9	7778.8	8726.5	10821.7	11050.2	10437.0
47.5°	8280.5	8257.4	8464.0	8579.7	8632.7	8309.1	8073.8	9262.2	11746.4	12080.9	11467.6
50°	7992.2	7947.4	8254.6	8498.1	8687.1	8383.9	8371.6	9880.9	12797.4	13163.2	12503.7
52.5°	7474.2	7440.3	7789.7	8212.5	8567.4	8420.6	8706.1	10556.7	13795.4	14268.6	13565.7
55°	6812.0	6767.2	7151.9	7704.0	8269.6	8408.3	9040.6	11312.6	14972.9	15452.9	14662.9
57.5°	5762.3	5672.7	6159.4	6812.0	7784.3	8393.4	9388.7	12064.6	16169.5	16744.6	15833.6
60°	4231.4	4098.2	4695.0	5468.7	6835.2	8247.9	9819.7	12907.5	17605.3	18123.3	17111.7
62.5°	2463.8	2386.3	2776.5	3498.5	5151.9	7391.3	10061.7	13887.8	19016.6	19560.5	18368.1
65°	1913.1	1891.3	1925.4	1981.0	2867.5	5534.0	9315.2	14843.7	20811.4	21192.2	19677.4
67.5°	1749.9	1733.6	1748.5	1643.9	1454.9	3082.4	7369.5	15085.7	22734.0	22965.1	20823.7
70°	1555.4	1536.5	1585.4	1495.7	1144.8	1401.8	4761.6	14207.4	24263.7	24697.4	21695.3
72.5°	1267.2	1245.5	1359.7	1318.9	964.0	900.2	2391.7	12120.3	24103.2	25003.3	21071.1
75°	973.5	961.3	1097.3	1131.3	785.9	708.4	1147.6	9009.3	21211.1	22118.1	18160.0
77.5°	755.9	746.5	815.8	939.5	633.7	549.3	705.7	5714.8	15984.6	16143.6	12514.6
80°	567.0	539.8	603.7	727.4	493.5	401.1	478.6	3332.6	10103.8	9158.9	5447.0
82.5°	354.9	341.3	394.3	485.4	348.1	276.0	311.4	1841.0	4049.2	2384.9	1051.0
85°	202.6	197.1	214.8	277.4	189.0	159.1	178.1	813.1	739.6	508.5	316.8
87.5°	81.6	78.8	97.9	123.7	69.4	58.4	62.5	195.8	163.2	150.9	104.7
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°	5160.1	5160.1	5160.1	5160.1	5160.1	5160.1	5160.1	5160.1	5160.1	5160.1	5160.1
2.5°	5175.0	5175.0	5156.0	5126.0	5092.0	5070.3	5034.9	5025.4	4988.7	4977.8	4995.5
5°	5237.5	5226.7	5168.2	5083.9	4968.3	4862.3	4745.3	4671.8	4568.5	4531.8	4559.0
7.5°	5316.4	5286.4	5185.9	5001.0	4758.9	4521.0	4273.5	4085.9	3906.4	3842.5	3850.6
10°	5388.4	5346.3	5175.0	4851.3	4432.6	4020.6	3626.2	3350.3	3140.9	3055.2	3074.3
12.5°	5460.5	5383.0	5103.0	4602.6	3968.9	3410.1	2989.9	2775.1	2645.9	2542.6	2576.6
15°	5528.5	5419.7	4991.4	4269.4	3460.4	2893.4	2583.4	2412.1	2308.7	2240.8	2253.1
17.5°	5607.4	5451.0	4824.2	3846.5	2976.4	2535.8	2282.9	2179.6	2159.2	2151.1	2156.5
20°	5717.4	5479.5	4603.9	3373.4	2620.1	2250.3	2119.8	2110.3	2108.8	2104.8	2118.4
22.5°	5835.8	5513.6	4312.9	2943.7	2316.9	2072.1	2049.1	2030.0	2017.8	2016.4	2031.3
25°	5975.9	5524.4	3948.5	2591.6	2058.6	1987.9	1960.7	1932.1	1923.9	1923.9	1932.1
27.5°	6111.8	5487.7	3524.4	2285.6	1913.1	1910.4	1875.0	1865.5	1864.2	1868.2	1879.1
30°	6247.8	5418.4	3102.8	2002.8	1828.8	1828.8	1816.5	1823.4	1828.8	1842.3	1851.9
32.5°	6431.4	5345.0	2750.7	1793.4	1755.3	1741.8	1754.0	1767.6	1773.0	1790.7	1805.6
35°	6700.5	5293.3	2470.6	1679.3	1679.3	1661.5	1668.3	1665.6	1653.4	1645.2	1664.3
37.5°	7056.8	5290.5	2239.4	1626.2	1615.3	1612.6	1614.0	1596.2	1548.7	1491.6	1492.9
40°	7485.1	5363.9	2061.3	1589.5	1581.4	1597.7	1589.5	1541.9	1411.3	1312.1	1309.3
42.5°	8060.3	5573.3	1947.1	1544.6	1569.1	1589.5	1556.9	1392.4	1303.9	1237.3	1234.6
45°	8737.4	5913.3	1888.6	1497.0	1546.0	1570.4	1412.8	1340.7	1270.0	1189.7	1184.3
47.5°	9504.2	6341.6	1875.0	1452.1	1494.3	1509.2	1351.6	1318.9	1238.7	1151.7	1144.8
50°	10339.1	6848.7	1911.7	1399.1	1419.5	1367.9	1331.2	1301.2	1218.3	1132.6	1123.1
52.5°	11202.5	7407.6	1985.1	1327.1	1344.7	1287.6	1323.0	1297.1	1206.0	1090.5	1082.3
55°	12050.9	7970.5	2055.8	1242.7	1268.5	1215.5	1299.9	1280.8	1150.3	1019.8	1013.0
57.5°	12912.9	8530.7	2125.2	1168.0	1195.1	1146.3	1263.1	1237.3	1087.7	954.5	951.8
60°	13809.0	9074.5	2157.8	1095.9	1115.0	1082.3	1207.4	1162.6	1017.0	887.9	883.8
62.5°	14648.0	9527.4	2104.8	1023.9	1036.1	1022.4	1134.0	1074.2	946.4	813.1	811.7
65°	15489.6	9796.5	1941.7	953.1	955.8	949.0	1030.6	979.0	863.4	747.8	739.6
67.5°	16252.4	9947.5	1681.9	877.0	870.2	867.5	934.1	875.7	783.2	682.5	674.4
70°	16414.1	9564.1	1284.9	787.3	787.3	780.4	828.1	768.2	694.8	613.3	610.5
72.5°	14992.0	8045.3	912.4	685.3	696.2	682.5	722.0	671.7	605.1	550.6	534.3
75°	12089.1	5899.7	663.5	580.6	599.6	576.5	613.3	577.9	520.8	519.4	467.7
77.5°	8306.4	3648.1	481.3	478.6	492.2	462.3	504.4	485.4	433.8	410.6	384.8
80°	3544.8	1454.9	350.8	369.8	369.8	342.7	391.5	397.0	352.2	341.3	341.3
82.5°	705.7	413.4	246.1	254.3	239.3	231.1	277.4	307.3	424.2	471.8	473.1
85°	212.1	152.3	148.2	138.7	122.4	123.7	163.2	308.6	380.7	217.5	187.7
87.5°	58.4	38.0	39.5	31.3	25.8	34.0	55.8	233.9	127.8	54.4	46.2
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)