

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: P968690

Luminaire Tested: **NAV-SB5C-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-722-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23391.5 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

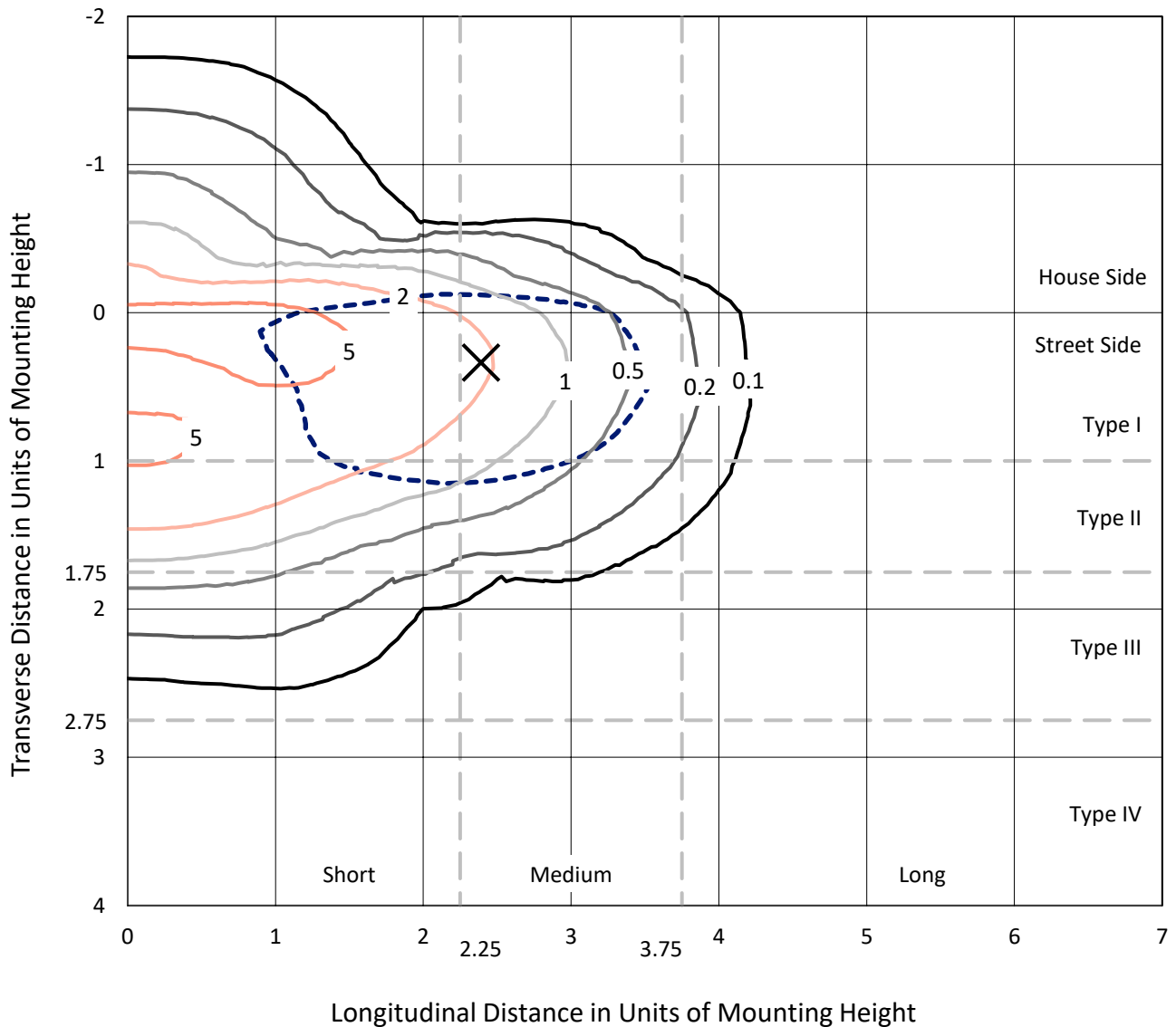
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

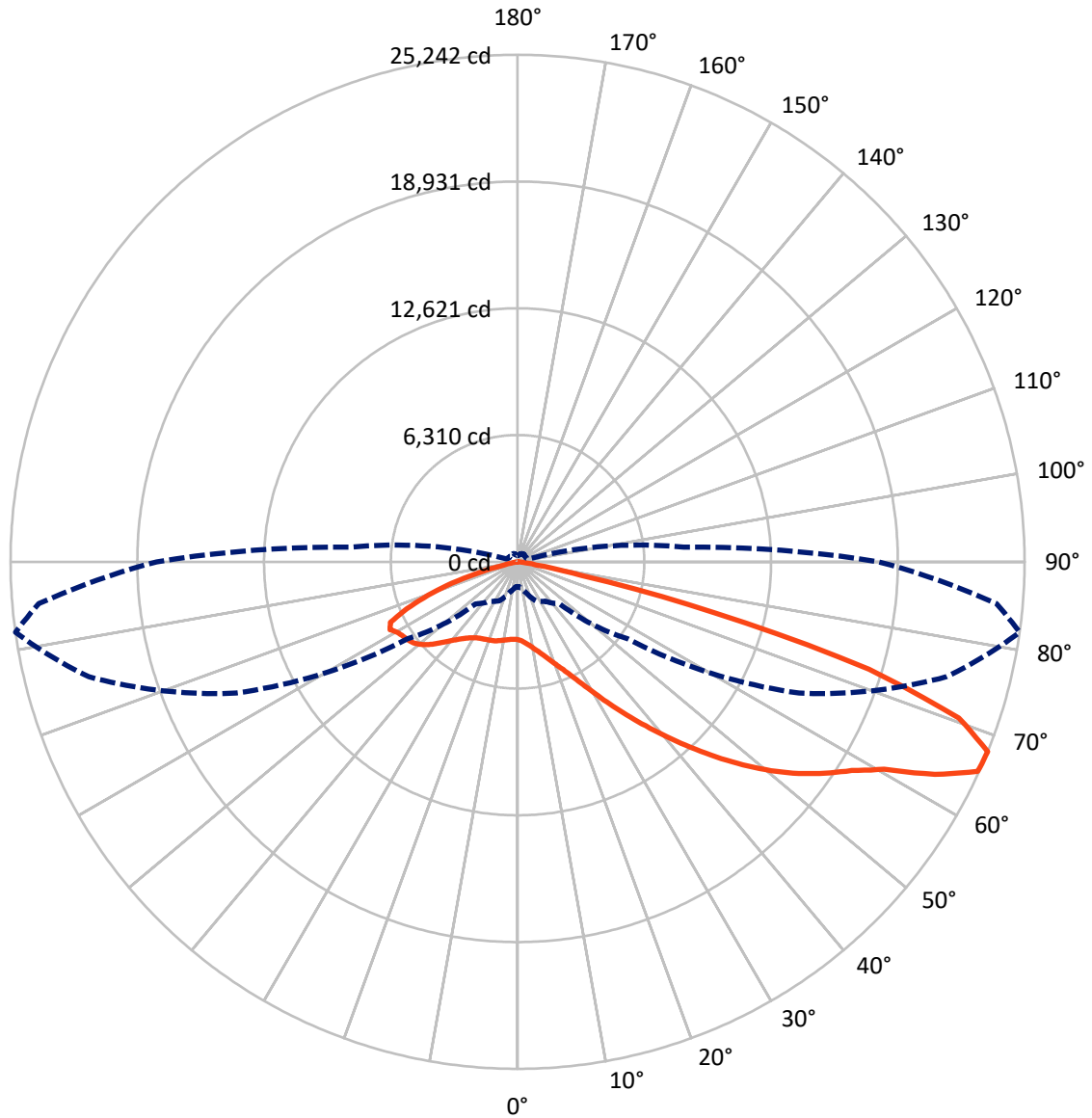
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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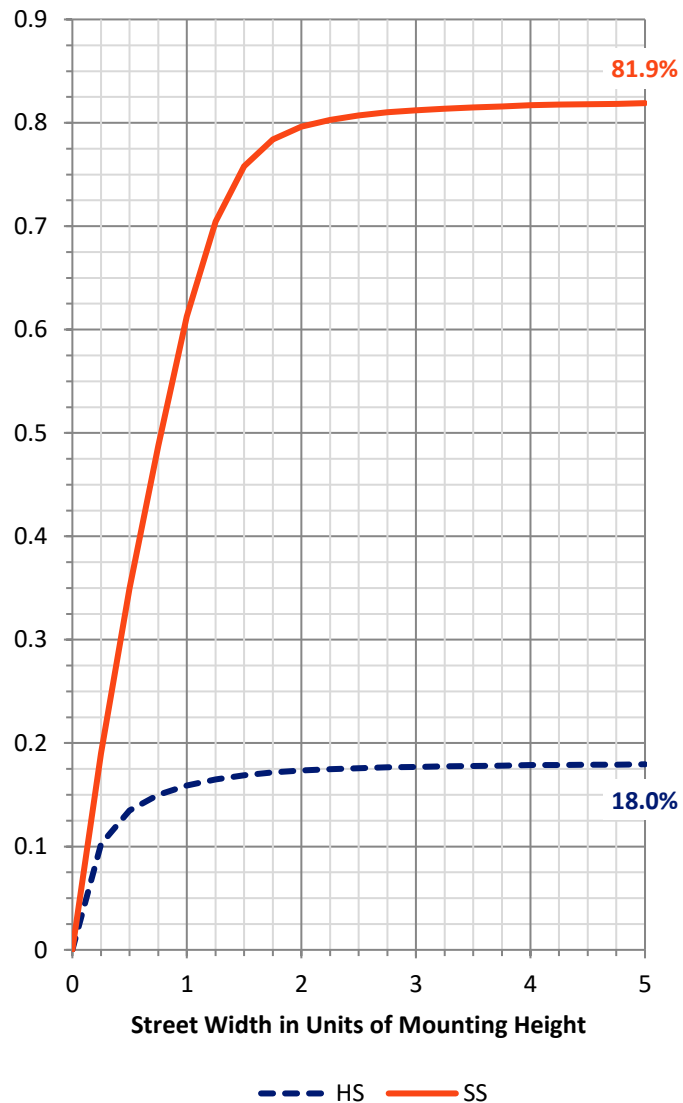
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4237.2	0.0	4237.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	19154.4	0.0	19154.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	23391.5	0.0	23391.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.3	1.5
10°-20°	897.2	3.8
20°-30°	1437.0	6.1
30°-40°	2541.0	10.9
40°-50°	4452.1	19.0
50°-60°	5937.9	25.4
60°-70°	5527.8	23.6
70°-80°	2121.6	9.1
80°-90°	131.8	0.6
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°	23391.5	100.0
0°-180°	23391.5	100.0

Coefficient of Utilization

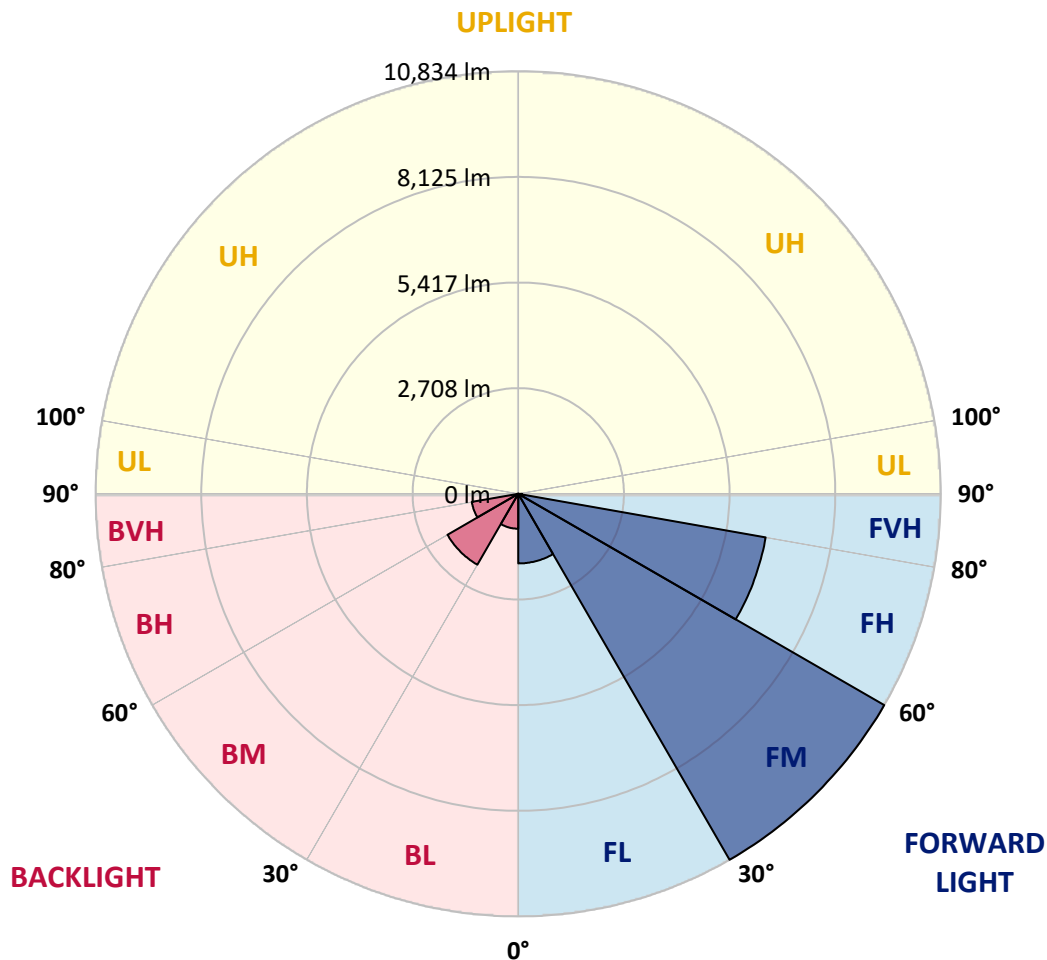


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1784.5	7.6			
FM (30°-60°)	10834.0	46.3			
FH (60°-80°)	6440.0	27.5			G3/7500
FVH (80°-90°)	95.8	0.4			G1/100
BL (0°-30°)	894.9	3.8	B2/1000		
BM (30°-60°)	2097.0	9.0	B2/2500		
BH (60°-80°)	1209.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	36.0	0.2			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2
2.5°	4095.8	4119.4	4105.9	4099.2	4087.4	4070.6	4057.1	4014.9	3971.2	3942.6	3932.4
5°	4178.3	4201.9	4200.2	4206.9	4215.4	4220.4	4217.1	4169.9	4107.6	4058.8	4030.1
7.5°	4107.6	4134.5	4156.5	4190.1	4249.0	4311.4	4341.7	4331.5	4267.6	4200.2	4164.9
10°	3907.2	3935.8	3988.1	4067.2	4191.8	4326.5	4439.4	4491.5	4451.2	4377.1	4328.2
12.5°	3540.0	3568.6	3671.4	3843.1	4052.0	4286.1	4501.7	4641.5	4651.6	4577.4	4520.2
15°	3127.5	3156.1	3265.5	3481.1	3799.4	4174.9	4535.3	4799.8	4889.0	4825.0	4756.0
17.5°	2871.4	2896.8	2979.3	3152.7	3484.5	3952.6	4523.5	4968.2	5171.9	5121.4	5038.9
20°	2793.9	2815.9	2854.6	2975.9	3252.0	3721.9	4446.1	5126.5	5476.8	5448.2	5355.5
22.5°	2876.5	2896.8	2908.5	2962.4	3135.9	3570.4	4348.5	5288.2	5830.5	5833.8	5721.0
25°	3066.8	3087.0	3073.6	3107.2	3183.0	3523.2	4311.4	5478.5	6275.0	6312.2	6184.1
27.5°	3380.0	3381.8	3349.7	3348.1	3359.8	3594.0	4350.1	5682.3	6835.9	6904.9	6746.7
30°	4008.3	3982.9	3860.0	3727.0	3666.3	3806.1	4457.9	5923.1	7497.8	7620.7	7421.9
32.5°	4976.6	4939.6	4713.9	4395.6	4075.6	4148.0	4651.6	6197.6	8218.6	8440.9	8198.4
35°	6027.5	6017.4	5781.6	5308.4	4749.2	4634.7	4966.5	6558.1	9005.0	9358.8	9070.7
37.5°	7004.3	6999.2	6864.5	6307.0	5626.6	5313.4	5471.8	7029.6	9847.1	10359.1	10018.9
40°	7896.9	7912.1	7777.3	7278.8	6593.4	6184.1	6158.8	7612.3	10783.5	11448.7	11044.5
42.5°	8668.2	8685.0	8548.6	8179.8	7548.3	7147.4	7002.6	8326.4	11698.0	12619.2	12140.9
45°	9192.0	9296.4	9276.1	8981.5	8528.4	8112.5	8016.4	9222.3	12740.4	13860.4	13299.6
47.5°	9340.2	9436.2	9587.7	9628.1	9352.0	8942.7	9057.2	10301.9	13794.8	15103.3	14465.0
50°	8974.7	9064.0	9379.0	9798.3	9990.3	9864.0	10069.4	11458.8	14874.3	16342.8	15608.5
52.5°	8253.9	8344.8	8742.3	9405.9	10189.0	10586.4	11085.0	12599.0	15920.1	17516.6	16691.4
55°	7211.5	7307.4	7817.8	8568.9	9810.1	10884.6	11932.0	13737.5	16878.4	18572.6	17668.2
57.5°	5793.4	5864.1	6394.7	7445.5	8856.8	10588.1	12556.9	14980.4	17781.1	19610.0	18636.6
60°	3775.8	3838.1	4454.5	5626.6	7277.1	9597.9	12681.5	16366.4	18980.1	20959.0	19941.8
62.5°	2511.0	2553.2	2918.6	3779.2	5124.8	7696.5	11952.3	17472.9	20738.4	23306.7	22180.0
65°	1722.8	1764.9	2130.5	2730.0	3311.0	5091.2	9855.6	17326.3	22331.6	25171.0	23838.8
67.5°	1229.4	1264.7	1574.7	2140.5	2396.6	2957.3	6681.0	15453.6	22102.5	25241.8	23928.1
70°	880.8	901.0	1157.0	1667.3	1904.8	1776.7	3715.2	11819.3	19352.3	23308.4	22105.9
72.5°	616.4	623.1	803.3	1269.9	1534.2	1296.8	1768.3	7880.0	14636.8	18294.7	17137.7
75°	417.7	426.1	540.6	931.3	1231.1	990.3	936.3	4225.5	8592.5	10126.7	9077.5
77.5°	255.9	259.3	348.6	636.6	921.3	754.5	602.9	1790.3	3324.5	3263.8	2782.2
80°	144.8	144.8	222.3	395.8	628.2	486.7	422.7	761.3	1052.6	924.6	815.1
82.5°	80.9	82.5	161.6	245.9	415.9	288.0	232.4	352.0	454.7	402.5	350.3
85°	33.7	37.0	99.3	116.2	198.7	143.2	94.3	148.2	168.4	149.9	109.5
87.5°	3.4	5.0	30.3	21.9	23.6	28.6	13.4	28.6	23.6	23.6	16.8
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°	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2	3875.2
2.5°	3900.4	3875.2	3811.2	3737.0	3639.4	3592.2	3528.3	3484.5	3447.4	3450.8	3417.1
5°	3976.3	3912.2	3769.1	3590.6	3368.3	3210.0	3041.6	2925.4	2831.0	2810.9	2765.3
7.5°	4080.6	3979.6	3728.6	3407.0	3031.4	2746.8	2492.5	2329.1	2213.0	2175.9	2138.9
10°	4215.4	4068.8	3676.5	3176.3	2635.7	2273.6	2000.7	1872.8	1793.6	1766.7	1746.4
12.5°	4372.0	4171.5	3607.4	2895.0	2228.1	1879.4	1706.0	1642.0	1616.7	1608.3	1603.3
15°	4569.0	4299.6	3503.0	2561.6	1882.8	1638.7	1564.6	1556.2	1559.5	1556.2	1554.4
17.5°	4803.2	4439.4	3332.9	2218.0	1650.5	1515.7	1488.8	1495.5	1503.9	1502.2	1498.9
20°	5059.1	4577.4	3115.7	1913.2	1492.1	1428.1	1413.0	1419.7	1426.5	1423.1	1421.4
22.5°	5350.5	4725.7	2874.8	1675.7	1386.0	1347.3	1330.4	1332.2	1332.2	1325.4	1322.0
25°	5699.1	4889.0	2622.2	1507.3	1305.2	1274.9	1254.7	1247.9	1237.8	1217.6	1214.2
27.5°	6115.0	5062.5	2379.6	1389.4	1241.2	1212.6	1189.0	1172.2	1146.9	1113.3	1109.9
30°	6583.3	5273.0	2174.2	1315.3	1190.6	1162.0	1135.1	1109.9	1072.8	1030.6	1027.4
32.5°	7134.0	5498.7	2024.4	1266.5	1145.2	1114.9	1082.9	1052.6	1012.2	970.1	971.7
35°	7790.8	5771.5	1936.7	1232.8	1109.9	1069.4	1034.0	1000.4	970.1	933.1	929.7
37.5°	8503.2	6061.2	1909.8	1216.0	1086.3	1024.0	983.5	959.9	956.6	934.7	933.1
40°	9282.9	6404.7	1930.0	1205.8	1061.0	980.2	936.3	931.3	939.7	901.0	902.7
42.5°	10108.1	6812.4	1963.7	1194.0	1025.6	936.3	894.3	894.3	887.5	833.6	833.6
45°	11000.7	7282.2	1997.4	1165.4	983.5	892.6	860.6	848.8	820.2	767.9	766.3
47.5°	11900.0	7760.5	2022.6	1113.3	933.1	855.6	826.9	800.0	757.9	710.7	709.0
50°	12753.9	8190.0	1995.7	1035.8	875.8	820.2	789.9	752.8	707.4	675.4	670.2
52.5°	13516.9	8562.1	1881.2	944.8	815.1	783.1	756.1	717.4	680.4	646.7	643.3
55°	14180.4	8863.6	1679.1	859.0	761.3	751.1	724.2	675.4	624.8	596.1	592.9
57.5°	14817.0	9092.6	1426.5	788.1	712.4	715.8	675.4	631.5	584.4	554.1	550.7
60°	15664.0	9399.1	1170.4	722.5	660.2	670.2	626.5	594.5	535.6	496.8	491.8
62.5°	17018.2	9875.8	929.7	641.6	599.5	602.9	584.4	545.6	474.9	429.5	426.1
65°	18092.6	9700.6	732.6	554.1	530.5	535.6	535.6	493.4	417.7	365.4	360.4
67.5°	17971.3	8306.1	584.4	468.2	464.8	468.2	480.0	444.6	370.5	328.4	321.6
70°	16555.0	6606.8	468.2	389.0	404.2	395.8	429.5	405.9	333.4	291.3	286.3
72.5°	13508.4	4759.4	357.0	321.6	309.9	323.4	387.3	365.4	277.9	230.7	225.7
75°	7893.5	2539.6	266.1	254.3	224.0	269.5	343.6	311.6	212.2	170.0	165.0
77.5°	2570.0	885.8	195.4	187.0	166.8	217.3	293.0	262.7	173.4	134.7	129.7
80°	688.8	267.7	133.0	122.9	107.8	161.6	232.4	208.8	124.6	87.5	85.9
82.5°	276.2	112.9	77.5	69.1	58.9	111.1	183.6	168.4	92.7	55.6	55.6
85°	89.3	37.0	28.6	21.9	27.0	69.1	109.5	114.5	65.7	28.6	21.9
87.5°	11.8	5.0	5.0	6.8	5.0	11.8	33.7	32.0	18.6	3.4	0.0
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)